

RFP - N° de la DP
W8476-112965/B

Amendement No. - N° de la modif.

Buyer ID - Id de l'acheteur
004RA

Client Reference No. - N° de réf. du client
W8476-112965

File No. - N° du dossier
004RA W8476-112965

Volume 1Draft013

**REQUEST FOR PROPOSAL
FOR
INTEGRATED SOLDIER SYSTEM PROJECT (ISSP)
IMPLEMENTATION**

VOLUME 1

INSTRUCTIONS TO BIDDERS

“THIS DOCUMENT CONTAINS A SECURITY REQUIREMENT”

(See article 6.1 to volume 1 and article 3.0 to volumes 2 and 3)

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PART 1 - GENERAL INFORMATION

1.1. Introduction

a) This bid solicitation cancels and supersedes previous bid solicitation number W8476-112965/A dated February 13, 2012 with a closing of June 12, 2012 at 02:00PM Eastern Daylight Saving Time.

b) OPTION 1 - Evaluation Methodology:

Canada will assess Bids in accordance with this RFP, and without limiting any other rights of Canada, shall have the right, in its absolute discretion, but shall not be obliged, to request and accept at any time, before or after bid solicitation closing and consider as part of the Bid, any documents and materials from Bidders to correct deficiencies or errors in the Bid that are not significant in Canada's unfettered opinion, including all matters of form or error in computation or failure to confirm by signing or similarly verifying acceptance. This shall not limit Canada's right to request or accept any information after bid solicitation closing in circumstances where the bid solicitation expressly provides for this right.

c) OPTION 2 - Evaluation Methodology

Step 1: Initial Review of Mandatory Requirements

Canada will conduct an initial review of the Bidder's proposal to determine if all mandatory requirements have been addressed and met as required. This will include scored criteria that contain a mandatory pass standard.

Step 2: Request for Information

The Contracting Authority will provide each Bidder with a "Preliminary Evaluation Report", listing the compliant and non-compliant mandatory requirements evaluated to date. Bidder's that did not meet all mandatory requirements will be invited to submit additional or different information to prove to evaluators in accordance with the RFP, that the proposal is compliant with those mandatory requirements. This additional information must be submitted to the Bid Receiving Unit on or before the date and closing time specified.

Step 3: Final Review of Mandatory Requirements

Canada will conduct a final review of the Bidder's proposal, taking into account the information submitted in Step 2 to determine if all mandatory requirements have been met as required in the RFP. Should one or more of the initial non-compliant mandatory requirements continue to be evaluated as non-compliant after receipt of the additional information, the proposal will be deemed non-responsive and will not be given any further consideration. Proposals that have

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demonstrated compliance with mandatory requirements at the conclusion of the final review will continue to be evaluated. However, requirements that were declared compliant only following the conclusion of Step 2 are to be used in subsequent evaluation steps with weighting factors will be given only the passing mark. In no cases shall this 2 step evaluation process given an advantage in the bid evaluation scoring process.

d) If Canada seeks clarification or verification from the Bidder about its bid, the Bidder will have 2 working days (or a longer period if specified in writing by the Contracting Authority) to provide the necessary information to Canada. Failure to meet this deadline may result in the bid being declared non-responsive. If additional time is required by the Bidder, the Contracting Authority may grant an extension in his or her sole discretion.

e) The bid solicitation and resulting contracts document is divided into eight (8) parts plus attachments and annexes, as follows:

VOLUME 1 - INSTRUCTIONS TO BIDDERS

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation and states that the Bidder agrees to be bound by the clauses and conditions contained in all parts of the bid solicitation;
- Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, if applicable, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Security, Financial and Other Requirements: includes specific requirements that must be addressed by bidders; and

Volume 1's annexes provide in detail the Bid Preparation Instructions and the Evaluation Procedures;

VOLUME 2 - RESULTING CONTRACT (Integrated Soldier System Acquisition (ISS-A))

- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract for the acquisition of the Integrated Soldier System; and

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Volume 2's annexes include the Statement of Work, the Basis of Payment, the Security Requirements Checklist, the Insurance Requirements, the Industrial and Regional Benefits (IRB) Contract, and any other annexes.

VOLUME 3 - RESULTING CONTRACT (ISS Optimized Weapon System Support (ISS-OWSS))

Part 8 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract for the Optimized Weapon System Support of the Integrated Soldier System (ISS); and

Volume 3's annexes include the Statement of Work, the Basis of Payment, the Security Requirements Checklist, the Insurance Requirements, the Industrial and Regional Benefits (IRB) Contract, and any other annexes.

1.2. Integrated Soldier System Project (ISSP)

1.2.1. Summary

This bid solicitation is being issued to satisfy the requirement of the Department of National Defence (DND) for an Integrated Soldier System (ISS). It is intended to result in the award of two (2) contracts to one successful Bidder.

The first contract, called the ISS Acquisition Contract will be over an approximate period of four (4) years and will consist of a qualification of the ISS and then, if successfully qualified, Canada will exercise the option to purchase a firm quantity of ISS in pre-determined batches totaling one thousand six hundred (1,600) units along with associated preliminary Integrated Logistics Support (ILS) such as technical documentation, training and provisioning of spares, and the purchase on an if, as, and when requested basis, in multiple parts, of optional quantities up to an additional five thousand twenty four (5,024) ISS-Suites.

The second contract, called the ISS Optimized Weapon System Support Contract, will be for the ISS In-Service Support and Improvement Activities over a period of five (5) years plus 3 two-year irrevocable options allowing Canada to extend the term of the Contract. The In-Service Support includes: Program Management Services, Supply Support Services, Technical Support Services, In Plant Repair and Engineering Support Services. The Improvement Activities will consist of incremental design and implementation of improvements to the initial ISS configuration, on an if, as, and when requested basis. Amongst the Improvement Activities, there may be a requirement to study and implement a modification required to the ISS to perform voice and data integration with the new baseline of Land Command Support System (LCSS). Those modifications may include changes to the messaging solution and communication protocols, integration of a Cross Domain Solution (CDS) and integration of a Type 1 radio.

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For the Acquisition Contract, Goods will be consigned to the destination specified in the Contract and delivered Delivered Duty Paid (DDP) Incoterms 2000.

For the OWSS Contract, Goods will be consigned to the destination specified in the Contract and delivered FCA Free Carrier Incoterms 2000.

There is a security requirement associated with this requirement. For additional information, consult Part 6 - Security, Financial and Other Requirements, and Part 7 and 8 Resulting Contract Clauses. Bidders should consult the "Security Requirements for PWGSC Bid Solicitations - Instructions for Bidders" (<http://www.tpsgc-pwgsc.gc.ca/app-acq/lc-pl/lc-pl-eng.html#a31>) document on the Departmental Standard Procurement Documents Web site.

This procurement is subject to the Controlled Goods Program. There are Industrial and Regional Benefits (IRB) requirements.

1.2.2. Additional details

1.2.2.1. The resulting ISS Acquisition (ISS-A) Contract clauses are in the Request for Proposal (RFP) Volume 2. The resulting ISS Optimized Weapon System Support (ISS-OWSS) Contract clauses are in the RFP Volume 3.

1.2.2.2. ISS-A Contract

The ISS-A Contract will be executed in two phases called Phase A (Qualification) and Phase B (Production).

The Contract Phase A includes: project management, engineering and support services for the conduct of the System Qualification Program, the System Acceptance Test (SAT) including mission level field qualification, the Final Qualification Review, preliminary Logistics supportability analysis and development, and Configuration Management leading to the establishment of the Production Baseline over a period, from contract award date, not to exceed 9 calendar months.

The Contract Phase B will be for the purchase of ISS from ISS-A Contract amendment date exercising the option to proceed with the ISS-A Contract Phase B.

An unsuccessful completion of the ISS-A contract Qualification Phase may lead to contract termination for default. Therefore Canada reserves the right to award an ISS-A contract and an ISS-OWSS Contract to the Bidder with the next-ranked bid submitted in response to the original "Request For Proposal for the Integrated Soldier System Project (ISSP) Implementation".

1.2.2.3. ISS-OWSS Contract:

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The ISS-OWSS Contract will be awarded at the same time as the ISS-A Contract. The period of the ISS-OWSS Contract is from the date of the ISS-OWSS Contract appearing on page 1 of the Contract to Contract Starting Date, plus 5 years. The ISS-OWSS Contract Starting Date will be in the article 4.1.1 to volume 3 and will be the same as the date of the ISS-A contract amendment (Contract number W8476-112965/001/RA) exercising the option to proceed with the ISS-A Contract Phase B. The services under the ISS-OWSS Contract will not be provided before the Contract Starting Date. In the Contract, a "year" is then a period from Contract Starting Date Anniversary to next Contract Starting Date Anniversary minus 1 day.

The eventual ISS Contractor may not provide all goods required to improve the initial ISS configuration. Some goods may be provided to the eventual ISS Contractor as Government Supplied Material (GSM) when Canada can identify better procurement approaches to get the raw material required for the ISS improvement activities.

1.3. Communications Notification

As a courtesy, the Government of Canada requests that successful bidders notify the Contracting Authority in advance of their intention to make public an announcement related to the award of a contract.

1.4. Debriefings

After contract award, bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

1.5. ISSP Procurement Process Overview

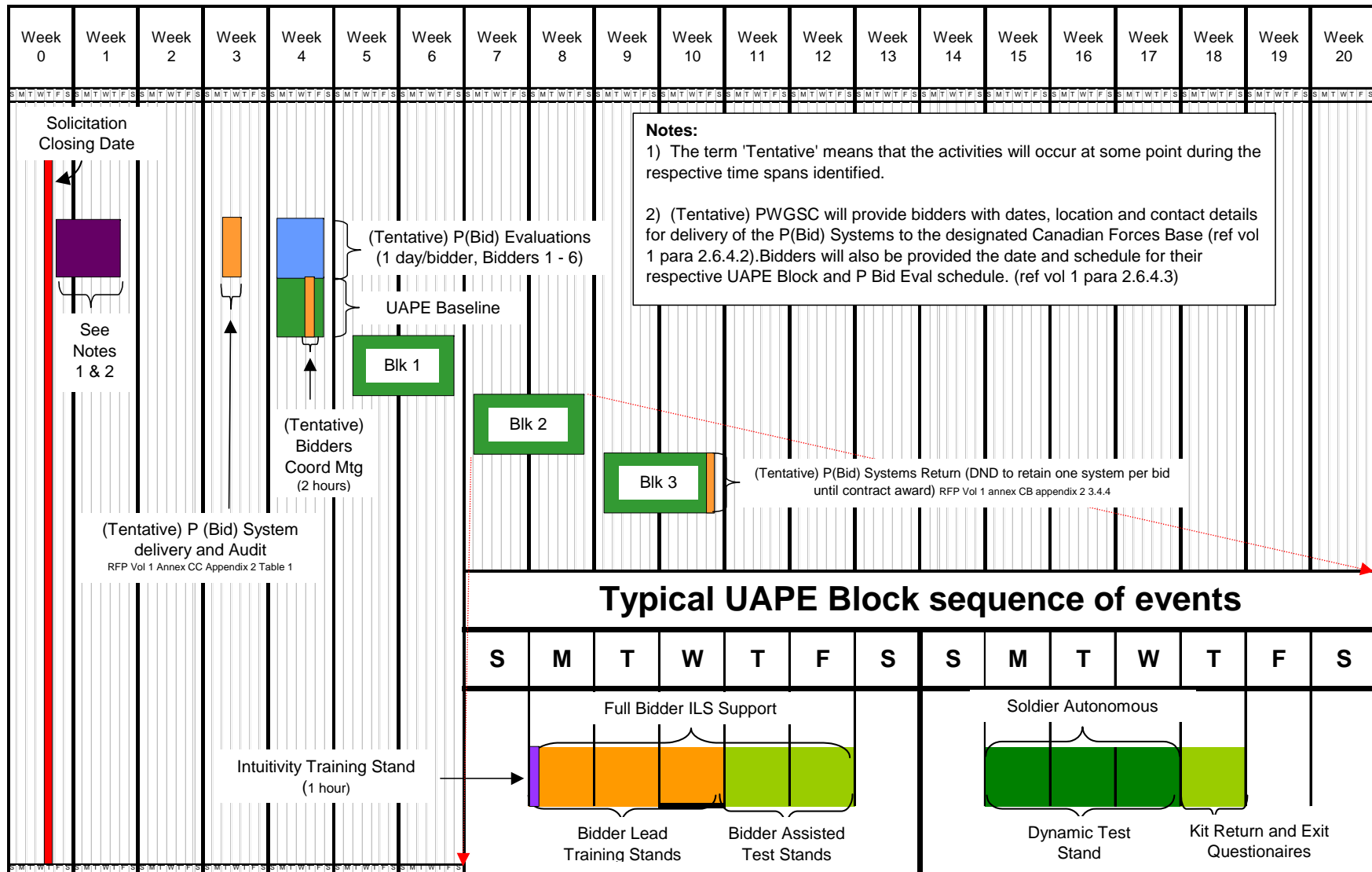
1.5.1. Once the paper bids are received, Canada will proceed with the evaluation of the general, financial, technical, managerial and Industrial and Regional Benefit bid sections. A physical Performance Evaluation (PE) of the Bidder's ISS will be performed at a location that remain to be determined. The entire evaluation process could take three (3) to five (5) months depending on the numbers of bids received.

1.5.2. The PE is composed of a delivery and audit of the Bidder's ISS, a one day hands-on prototype evaluation (P(Bid)) Evaluation and a User Acceptance PE (UAPE) where soldiers will score each of the Bidder's ISS performance during tasks, activities and representative missions.

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The timeline for the PE, specifically identifying area that will require Bidder participation, is shown below in the chart “Performance Evaluation (PE) Time Line”.

Performance Evaluation (PE) Time Line



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1.5.3. After completion of the bid evaluation, the Department of National Defence (DND), Industry Canada (IC) and Public Works and Government Services Canada (PWGSC) will consolidate their evaluation reports. The approval process to award contracts may take several months.

1.6. ISS Acquisition (ISS-A) Contract Deliveries

The Bidders are invited to read this article in conjunction with articles 1 and 4 to Volume 2 – Resulting ISS-A Contract Clauses.

1.6.1. Delivery of ISS-A Contract's Phase A (Qualification):

The complete delivery of the Phase A (Qualification) work must be within 9 months from ISS-A Contract award date.

1.6.2. Delivery of ISS-A Contract's Phase B (Production):

1.6.2.1. The complete delivery of the Phase B (Production) work must be within 220 working days from ISS-A Contract (RFP Volume 2) amendment date exercising the option to proceed with the ISS-A Contract Phase B (Production).

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1.6.2.2. Canada's suggested delivery periods stipulated in the table 1 "Phase B (Production) deliverables" below are not mandatory requirements.

TABLE 1 – Phase B (Production) deliverables				
Order Description	Date of Order	Order's Deliverables Name	Deliverable references in Annex CF to Volume 2	Suggested Delivery Period
ORDER 1:	Phase B go ahead date	P(SAT) ISS-S Batch	Table 1	44
		English Pilot ICT Instructors Training	Table 2.1 series 501, 503 & 505	110
		French Pilot ICT Instruc. Training	Table 2.1 series 502, 504 & 506	150
		ICT Operator Instruc. course	Table 2.1 series 507	TBD (Note (1))
		ICT Syst. Man. Instruc. course	Table 2.1 series 508	TBD (Note (1))
		ICT Maint. Instruc. course	Table 2.1 series 509	TBD (Note (1))
		Ini. Training Batch	Table 2.2.1	154
		Operational Stock Batch	Table 2.2.2	176
		Task Force 1 Batch	Table 2.3.2 series 601	176
		Task Force 2 Batch	Table 2.3.2 series 602	220

NOTE: (1) Canada to determine after contract award the time and official languages of the courses to be provided;

1.6.3. Working days:

A working day is a day when work is normally done as distinguished from Saturdays, Sundays and legal holidays in Canada. The working day normal business hours are 7.5 hrs a day, exclusive of meal breaks, occurring between 0700 and 1800 hrs from Monday to Friday.

1.7. Additional quantities

The purchases of optional quantities are on an if, as, and when requested basis and are not guaranteed. Canada reserves the right to purchase additional systems up to the end of the ISS-A contract.

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1.8. Industrial and Regional Benefits

Industrial and Regional Benefits (IRBs) being sought for this RFP equal the value of the Contract (100% of the Contract value) are comprised of direct and indirect IRBs with no prescribed percentage of direct versus indirect IRBs. The effective date for eligibility for Industrial and Regional Benefits is May 29, 2009, the date on which the project was announced by the Government.

1.9. Government Furnished Equipment (GFE) for Bid Preparation

1.9.1. The Department of National Defence of Canada has some equipment available for use by the Bidders. That equipment will help the Bidders to prepare their Demonstration Systems (P(Bid)). Access to this equipment is subject to the provisions of RFP article 6.2, Controlled Goods Requirement to Volume 1.

1.9.2. Bidders may request the equipment listed at RFP Table 1 to Appendix 3 to Annex CA to Volume 2. The equipment will be subject to the terms and conditions at RFP Annex CD to Volume 2. Bidders shall present their request to the Contracting Authority in writing, either by e-mail or letter, and shall include the mailing address to which the GFE shall be sent. The addresses for requests are:

By e-mail: bernard.juteau@pwgsc.gc.ca/marc-andre.hebert@pwgsc.gc.ca

By courier or regular mail:

PWGSC
Place du Portage Phase III, 8C2
11 Laurier Street,
Gatineau, QC, K1A 0S5
Attention: Bernard Juteau/ Marc-André Hebert
Phone number: (819) 956-0532/(819) 956-0194

1.9.3. The Bidders should return with their bid, when applicable, any Government Furnished Equipment (GFE) provided by Canada under the provisions of this Article in support of this bid solicitation if they were not already returned to the Contracting Authority prior to bid submission.

1.10. Microsoft Excel® Matrix of Compliance Modules (MCM)

1.10.1. Canada will utilize IBM® Rational® DOORS® software to evaluate the Management and Technical Proposals submitted by the Bidders. Canada will provide to bidders a Microsoft Excel® version of the DOORS® Management and Technical requirements MCM (See article 2.7

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to Volume 1) for the Acquisition and OWSS requirements. Questions regarding the management and technical content of the RFP Microsoft Excel® MCM must be treated as an enquiry through the PWGSC Contracting Authority.

1.10.2. Information required for bidders to run and populate the Microsoft Excel® MCM files are in the RFP Annex CA to Volume 1 “Instructions for preparing the MCM and LCC Electronic Response Package - Read Me First”.

1.11. Communications – Solicitation period

The distribution of amendments to ISSP solicitation documents, of responses to inquiries from the Bidders, and the advertising of the availability of the most recent version of an electronic file originally provided in the RFP Electronic Package (See article 2.7 to Volume 1) will be issued through the Government Electronic Tendering Service (GETS).

1.12. Canadian Disruptive Pattern (CADPAT™)

1.12.1. CADPAT™ patterns and technical data are protected by Canadian copyright laws and are patented and copyrighted to Her Majesty the Queen in right of Canada for exclusive use by the Department of National Defence of Canada (DND).

1.12.2. The Contractor must only purchase CADPAT™ fabrics in a quantity sufficient to fulfill the Contract requirements. The use of CADPAT™ fabrics outside of a DND contract may be subject to legal action.

1.12.3. Any goods made by the Contractor incorporating the CADPAT pattern and colours must be for the sole end use of DND. The Contractor must not manufacture, sell or offer for sale goods incorporating the CADPAT pattern and colours to any person or entity other than DND. The Contractor must dispose of any second quality goods produced, excess raw material or manufacturing leftover pursuant to the Contract, incorporating the CADPAT pattern and colours, in accordance with the following:

- Trimmings – these should be reduced to rags;
- Left-over material (partial bolts of unused CADPAT) – the owner of the material can attempt to secure a licensing agreement from DND DSSPM in order to use the surplus material in the manufacture of other goods, attempt to sell this material back to the OEM or reduce the material to rags;
- “Seconds” of vests culled from regular production due to quality concerns – these should be destroyed in accordance with Canadian Forces Supply Manual A-LM-007-014/AG-001, Volume 3, Chapter 10, Annex D, Appendix 13 – Clothing.

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1.12.4. CADPAT™ fabrics can only be provided to garment or equipment manufacturers who have contracts with the Crown for approved DND military equipment, clothing or projects. In order to obtain first quality CADPAT™ from CADPAT™ fabric manufacturers, an end item manufacturers must provide the CADPAT™ fabric manufacturers with proof that he has been awarded a contract by Public Works and Government Services Canada (PWGSC) for the provision of CADPAT™ goods to DND. CADPAT™ Fabric manufacturers are permitted to provide sample quantities of CADPAT™ fabrics to end item manufacturers for the purposes of bidding on DND contracts.

1.12.5. The Contractor must ensure that any subcontractors requiring goods incorporating the CADPAT pattern and colours for the execution of the work are bound by the conditions of this article.

1.12.6. The following six companies are known CADPAT™ Fabric manufacturers:

1. Lincoln Fabrics Limited
63 Lakeport Road
St. Catharines, ON L2N 4P6
Attn: Barry Smith or Laura Coomey
905-934-3391
www.lincolnfabrics.com
2. Textiles Monterey (1996) Inc.
2575 boulevard St-Joseph, C.P. 760
Drummondville, Quebec J2B 6X1
Attn: Gilles Demarais or Yvon Duheme
819-475-4333
3. Barrday Inc.
75 Moorefield Street
P.O. Box 790
Cambridge, ON
Attn: Terry Butryn
519-621-3620
4. Heathcoat Fabrics/John Heathcoat and Co Ltd
Westexe Tiverton
EX16 5LL England
+44 (0) 1884254949
www.heathcoat.co.uk
5. Stedfast Inc.
230, rue St-Charles Sud
Granby, Quebec J2G 3Y3

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Attn: Alex J. Artus
450-378-8441
www.stedfast.com

6. Technical Performance Textiles Inc.
5336 Queen Mary Road, Suite 22
Montreal, Quebec H3X 1T8
Attn: Francois Lapierre, President
514-481-3358
www.tptca.com”

1.13. List of considerations before submitting a bid:

UNDER CONSTRUCTION

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PART 2 - BIDDER INSTRUCTIONS

2.1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions](http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp) (<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>) Manual issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contracts. Bidders cannot provide other terms and conditions with their bid. The instructions, clauses and conditions of the bid solicitation are not negotiable before or after contract award.

The 2003 (2012-11-19) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 05 4. of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days

Insert: seven hundred forty (740) days

Section 17 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete in its entirety: 17 3.

Insert in lieu: “17 3. The bid and any resulting contract must be signed by all the members of the joint venture. The joint venture must identify and confirm the name and contact information of the representative who has been appointed with full authority to act as its representative for the purposes of the bid solicitation and any resulting contract. If a contract is awarded to a joint venture, all members of the joint venture will be jointly and severally or solidarily liable for the performance of any resulting contract.”

2.1.1. SACC Manual Clauses

Not Applicable (N/A).

2.2. Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

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Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.

2.3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than fifteen (15) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a "proprietary" nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

2.4. Applicable Laws

Any resulting contracts must be interpreted and governed, and the relations between the parties determined, by the laws in force in the province of Québec.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

2.5. Bidders' Conference

2.5.1. [A bidders' conference will be held at](#)The scope of the requirements outlined in the bid solicitation will be reviewed during the conference and questions will be answered. It is recommended that bidders who intend to submit a bid attend or send a representative.

2.5.2. Bidders are requested to communicate with the Contracting Authority before the conference to confirm attendance. Bidders should provide, in writing, the names of the person(s) who will be attending and a list of issues they wish to table, before the scheduled conference. Due to the space constraints a maximum of 4 attendees per company being represented are

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allowed. Any companies that do not confirm attendance by communicating with the Contracting Authority [before xxxxx, 2013 14:00Hrs may not be allowed to attend the bidder conference.](#)

2.5.3. Any clarifications or changes to the bid solicitation resulting from the Bidders' conference will be included as an amendment to the bid solicitation. Bidders who do not attend will not be precluded from submitting a bid.

2.6. Performance Evaluation (PE)

2.6.1. The Bidders will undergo a hands-on evaluation of their proposed ISS System referred to as the Performance Evaluation (PE). It is divided into parts: a ISS Demonstration Systems (P(Bid)) Evaluation and a User Acceptance Performance Evaluation (UAPE), involving Canadian Forces Combat Arms personnel. For more information please read the RFP App. 2 to Ann. CB to Vol. 1.

2.6.2. Bidders must provide ten (10) P(Bid) Systems which will be used for the DND PE activities. Bidders must be prepared to support them throughout the demonstration period. Bidders must provide their P(Bid) Systems in accordance with paragraph 2.6.4 herein.

2.6.3. Indemnification:

2.6.3.1. For the purpose of bid evaluation activities, Bidders agree to indemnify and save harmless Canada, its servants, employees and agents, from losses arising out of the errors, omissions or negligent acts of the Bidder, its employees and agents, or any damages done to any third parties during the bid evaluation period until all activities have come to an end and the P(Bid) Systems have been officially returned to the Bidder.

2.6.3.2. Bidders further agree to release Canada from any claim for damages to the P(Bid) Systems, or their employees from losses arising out of the errors or omissions by the servants, employees and agents of Canada.

2.6.3.3. Bidders liability to indemnify or reimburse Canada under this Agreement shall not affect or prejudice Canada from exercising any other rights under law.

2.6.4. Invitation to PE Activities

2.6.4.1. All Bidders should deliver their P(Bid) Systems in lockable containers to a designated Canadian Forces Base in advance of the scheduled Performance Evaluation. The P(Bid) Systems will be received, inventoried, and stored in a quarantined area. The P(Bid) Systems will be used for both parts of the PE activities: the initial P(Bid) Evaluation and the subsequent User Acceptance Performance Evaluation (UAPE).

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2.6.4.2. The details for delivery of the P(Bid) to the designated Canadian Forces Base, will be provided no later than one weeks after bid closing, and will be indicated on the letter/email provided to the point of contact in your bid "Section I - General Bid", see RFP article 3 third bullet to Annex AA to Volume 1. The P(Bid) Systems must be delivered by the mandatory date, time and place, and to the designated PWGSC representative on location indicated on the letter/email provided to the Bidder's point of contact. Bids not meeting the mandatory P(Bid) delivery requirements herein will be declared non-responsive and the concerned Bidder will be requested to leave the premises immediately. A regret letter will be sent to the concerned Bidder on a later date. We also invite you to read the sections 6 and 7 to 2003 Standard Instructions - Goods or Services - Competitive Requirements.

2.6.4.3. Details regarding the dates, timings, locations, and contact information for the subsequent P(Bid) and UAPE evaluations, will be provided in the same letter/email used for the delivery instructions described in paragraph 2.6.4.2.

2.6.4.4. Canada reserves the right to amend the details of the PE activities, such as dates, times and locations, when applicable. Canada will provide notice of change no fewer than 5 working days before the scheduled date for the P(Bid) and UAPE evaluations.

2.6.4.5. The PE must be conducted at no cost to Canada. Canada will pay its own travel and salary costs associated with the P(Bid) and UAPE evaluations.

2.6.4.6. The health & safety of the personnel evaluating the ISS-S is critical. Canada will use the RF output power from the Bidder-provided DND 552 form required at paragraph 2.6.5 or from the Bidder-provided Pre-Certified RF Equipment documentation required at paragraph 2.6.6 to ensure the radio is safe for use as a portable RF device for the PE Activities. The above documentation must confirm a radio output power level of 10 Watts or less. A radio output power above 10 Watts will result in the bid being declared non-responsive. The Bidder will not be invited to the PE Activities and a regret letter will be sent to the concerned Bidder on a later date. Canada expects the P(Bid) Systems to comply with Health Canada Safety Code 6 and Canadian Forces Technical Order (CFTO) C-55-040-001/TS-001.

2.6.5. Notification of Radio Characteristics.

In order to conduct the Performance Evaluation (PE), Canada must reserve frequency assignments that align with the Bidder's radio characteristics. In order to reserve frequencies for each Bidder, Bidders must complete section 2 "Transmitter Equipment Characteristics", section 3 "Receiver Equipment Characteristics" and section 4 "Antenna Equipment Characteristics" of form DND 552 *Application for Frequency Supportability*. The required information must be submitted via email to the Contracting Authority as early as possible, but no later than 02:00 PM Eastern Daylight Saving Time, on 15 May 2013. The form along with the instructions for completion are on the "ISSP_PÉIS_RFP_EPackage". See paragraph 2.7.2-4 of this Part. If

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Bidders already have a certification, then the procedure at paragraph 2.6.6 of this Part is to be followed. Note that the RF output power from the provided documentation will be used to determine if the radio is acceptable for use during the PE Activities, as indicated in section 2.6.4.6.

2.6.6. Pre-Certified RF Equipment.

If the Bidder's RF equipment is already certified in Canada, Bidders must provide via email, a copy of their Industry Canada Technical Acceptance Certificate (TAC) and a note confirming the maximum total output power of the radio, if not already indicated in the certification document, to the Contracting Authority as early as possible, but no later than 02:00 PM Eastern Daylight Saving Time, on 15 May 2013. If the Bidder's RF equipment is in use by the United States military, Bidder's must provide a copy of US Department of Defence (DoD) Form 1494 and a note confirming the maximum total output power of the radio, if not already indicated on DoD Form 1494, within the same time frame as the TAC. If either of these conditions is applicable, Bidders are not required to provide the information required to complete form DND 552. Note that the RF output power from the provided documentation will be used to determine if the radio is acceptable for use during the PE Activities, as indicated in section 2.6.4.6.

2.7. RFP Electronic Package

2.7.1. Subsequent to ordering the Solicitation Documents through the Government Electronic Tendering Service (GETS), the Bidders are instructed to contact the PWGSC Contracting Authority (CA) electronically and request the RFP Electronic Package. The RFP Electronic Package will only be sent to bidders that have made a written request to the CA. The package will be sent by e-mail.

2.7.2. The package will include the following:

1. The package will be a compressed "zipped" folder named "*ISSP_PÉIS_RFP_EPackage*".
2. The compressed folder includes three folders named "*English*", "*Français*" and "*DND552*".
3. Under the folders named "*English*" and "*Français*":
 - (a) The Bidders will find the sub-folders named "*ISSP_MCM*", "*PÉIS_MMC*", "*ISSP_LCC*" and "*PÉIS_CCV*". Details about these sub-folders are at RFP article 2 to Annex CA to volume 1. The files "*(...)_MCM*" must be filled in by the Bidders and provided with their proposal "*Section II: ISS-A Technical Bid*" or

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“*Section III: ISS-A Management Bid*” or “*Section VI: ISS-OWSS Technical Bid*” or “*Section VII: ISS-OWSS Management Bid*” as appropriate.

(b) The Bidders will find the sub-folders named “*ISSP_Financial*” and “*PÉIS_Financier*”. These subfolders contain the Financial Bid Presentation Sheets required by the Bidders to prepare their “*Section IV ISS-A Financial Bid*” and “*Section VIII ISS-OWSS Financial Bid*”. Complete instructions on how to fill-in these FBPS are in RFP annexes AB and AC to Volume 1.

4. The compressed folder includes another folder. The folder DND552 which includes the form DND 552 *Application for Frequency Supportability*.

2.8. Pre Contract Award Economic Price Adjustment

2.8.1. Following the closing date of this solicitation, about 10 months or more may pass before the ISS acquisition and ISS-OWSS Contracts are awarded to the Bidder with the top-ranked bid. Furthermore, as already stipulated in RFP article 1.2.2.2 fourth paragraph to Volume 1, upon a termination of the Acquisition Contract, Canada reserves the right to award an ISS Acquisition Contract and an ISS-OWSS Contract to the Bidder with the next-ranked bid submitted in response to the original “Request For Proposal for the Integrated Soldier System Project (ISSP) Implementation”. This article establishes the mechanism required in adjusting the bid prices of the top-ranked bid and, if any, the bid prices of the next-ranked bid.

2.8.2. All Prices in the Bid (APB) of the successful bidder, namely the prices in the RFP Volume 2 and RFP Volume 3 annex AB Financial Bid Presentation Sheet (FBPS), will be adjusted, during the month before the award of the ISS Acquisition Contract, on account of fluctuations in the Canadian economy since the bid closing date. The economic price adjustments will be calculated as per paragraphs 2.8.3 to 2.8.6. Once adjusted these prices will be called All Prices (AP) applicable for the eventual Contracts (APC).

2.8.3. The economic indicator that must be used to account for the actual fluctuations in the economy is the Canadian Consumer Price Index (CPI). For purposes of this article, the most recent Statistics Canada monthly Catalogue "62-001-X" CPI will be used. The relevant CPI shall be from the Statistical Tables, Table 1, namely "The Consumer Price Index, major components and special aggregates, Canada, not seasonally adjusted". The CPI for "All Items (2002=100)" shall be used under column "Percentage change (month z) 201y from (month z) 201x".

The indexation is calculated as follows:

APC = All Prices applicable for the eventual Contracts;

APB = All Prices in the Bid;

CPI = the CPI Percentage change (month z) 201y from (month z) 201x that is the most recent consecutive 12 months period for which economic indicators are available;

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PR = period in months starting after “bid closing date” up to contract award date;

$$APC = APB * (1+CPI)^{(PR/12)}$$

APC will be rounded up to 2 decimals (Example: \$2.571 or \$2.579 will be rounded up to \$2.58)

2.8.4. Mark-ups

There will be no adjustments made to the bid firm mark-ups.

2.8.5. Economic price adjustments (upwards) shall be limited to a maximum of 5% per consecutive 12 months period. In the event the change in the chosen index is negative, the bid prices will not be adjusted downward accordingly.

2.8.6. If the Economic Indicator Index referred to in article 2.8.3 is discontinued, or if the basis for reporting the index is changed from that in existence on or before the award date of the Contract, the Minister shall immediately thereafter establish replacement indices, or formulate adjustments, consistent with the intent of those set forth in this article.

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PART 3 - BID PREPARATION INSTRUCTIONS

3.1. Bid Structure

Canada requests that bidders provide their bid in separately bound sections as follows:

Section I: General Bid

Integrated Soldier System Acquisition (ISS-A):

Section II: ISS-A Technical Bid
 Section III: ISS-A Management Bid
 Section IV: ISS-A Financial Bid
 Section V: ISS-A Industrial and Regional Benefits (IRB) Bid

ISS Optimized Weapon System Support (ISS-OWSS):

Section VI: ISS-OWSS Technical Bid
 Section VII: ISS-OWSS Management Bid
 Section VIII: ISS-OWSS Financial Bid
 Section IX: ISS-OWSS Industrial and Regional Benefits (IRB) Bid

Data: Canada Reference Documents

3.2. Bid Format and Content

The numbers of copies of the Bidders Master Bid Set sections as required under RFP paragraphs 3.2.1 to 3.2.6 of this Part should be submitted at the solicitation closing date and time indicated on page 1 of the bid solicitation. If any of these required copies is not submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

3.2.1. The Bidders should submit a hard master copy of their bid (Master Bid Set) in accordance with paragraph 3.2.6 of this Part in table 2 item 3.2.1 at the solicitation closing date and time indicated on page 1 of the bid solicitation. Each separately bound section of the hard master copy should be submitted in ringed binders on white bond paper except for charts, drawings, tables and other pre-existing material of a different size. Each section within the hard master copy should be clearly identified. In order to help the PWGSC Bid Receiving Unit, we also strongly recommend to identify the boxes that will contains the hard master copy. See examples below:

Examples:

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ISSP Master Bid Set - Section I General Bid, Volume 1 of 1
ISSP Master Bid Set - Section II ISS-A Technical Bid, Volume 1 of 2
Sub-section "MCM"

....
ISSP Master Bid Set - Section VIII ISS-OWSS Financial Bid, Volume 1 of 1
Sub-section "LCC"

ISSP Master Bid Set - Section IX ISS-OWSS IRB Bid, Volume 1 of 1

3.2.2. The Bidders should submit additional hard copies of their Master Bid Set sections in accordance with the quantities stipulated in paragraph 3.2.6 of this Part in table 2 item 3.2.2. Each separately bound section hard copies should be submitted in ringed binders on white bond paper except for charts, drawings, tables and other pre-existing material of a different size. Each section should be clearly identified. See examples below:

Examples:

ISSP Section I General Bid, Volume 1 of 1, Copy 1 of 1
ISSP Section II ISS-A Technical Bid, Volume 1 of 2, Copy 1 of 3
Sub-section "MCM"

...
ISSP Section VII ISS-OWSS Management Bid, Volume 1 of 1, Copy 2 of 2
Sub-section "MCM"

ISSP LCC sub-section of Section VIII ISS-OWSS Financial Bid, Volume 1 of 1, Copy 1 of 1

ISSP Section IX ISS-OWSS IRB Bid, Volume 1 of 1, Copy 1 of 6
Etc...

3.2.3. The Bidders should submit a soft master copy of their bid on CD/DVD medium in accordance with paragraph 3.2.6 of this Part in table 2 item 3.2.3. The soft master copy must be compatible with Microsoft Office Suite 2000 up to 2003 inclusive for Microsoft windows operating system. Each CD/DVD should be clearly identified. Each section of the Master Bid Set should be in a separate folder. Each folder should be clearly identified with a folder name. See examples below:

Examples of CD/DVD marking:

ISSP Master Bid Set, DVD 1 of 2
ISSP Master Bid Set, DVD 2 of 2

Examples of folder names:

Section I General Bid
Section II ISS-A Technical Bid
Sub-section "MCM"

....
Section VIII ISS-OWSS Financial Bid
Sub-section "LCC"

Section IX ISS-OWSS IRB Bid

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3.2.4. The Bidders should submit additional soft copies on CD/DVD medium of their Master Bid Set sections, each section copy burned on their own CD/DVD, in accordance with the quantities stipulated in paragraph 3.2.6 of this Part in table 2 item 3.2.4. The additional soft copy must be compatible with Microsoft Office Suite 2000 up to 2003 inclusive for Microsoft windows operating system. Each CD/DVD should be clearly identified. The folder burned on the CD/DVD should be clearly identified with a folder name. See examples below:

Examples of CD/DVD marking:

ISSP Section I General Bid, DVD 1 of 1, Copy 1 of 1
ISSP Section II ISS-A Technical Bid, DVD 1 of 2, Copy 1 of 8
Sub-section "MCM"
...
ISSP LCC sub-section of Section VIII ISS-OWSS Financial Bid, DVD 1 of 1, Copy 1 of 4
Etc...
ISSP Section IX ISS-OWSS IRB Bid, DVD 1 of 1, Copy 1 of 4
Etc...

Examples of folder names:

See paragraph 3.2.3 of this Part;

3.2.5. Bid Set sections and sub-sections:

3.2.5.1. The technical and management sections should have at least one separate sub-section. A sub-section such as "MCM" with the fill-in 'ISS_..._...MCM_V1.XLS' files with, when applicable their amendments with the "ISS_..._...MCMAmends_Vx.XLS" files.

3.2.5.2. The section VIII ISS-OWSS Financial Bid should have at least one separate sub-section. A sub-section such as "LCC" with the fill-in file ISS_LCC_Templates_Vx.XLS. In the paragraphs 3.2.2 and 3.2.4 of this Part, it is requested that the LCC sub-section be physically separate from the rest of the section. It is identified by the bolded description **"ISSP LCC sub-section of Section VIII ISS-OWSS Financial Bid,..., Copy x of x"**.

3.2.5.3. Sections IV and VIII Financial Bid are for exclusive use by PWGSC. Therefore no additional copies are mentioned in the paragraphs 3.2.2 and 3.2.4 of this Part or requested in 3.2.6 of this Part in table 2 items 3.2.2 and 3.2.4 except for the **LCC sub-section of Section VIII ISS-OWSS Financial Bid**.

3.2.5.4. The organization of the sections remains at the discretion of the Bidder and should include everything else to demonstrate compliance to requirements including but not limited to further statements that clearly supports/justifies responses already provided in the MCM, provision of features or characteristics with Original Equipment

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Manufacturer (OEM) or vendor published specifications, manuals, brochures, test data, charts, graphs, schedule, Plans (PMP, SEMP, ILSP, Trg plan, etc...), drawings, tables and other pre-existing material.

3.2.6. The Table 2 below provides the Bidders with a summary of the sections to be included in the Master Bid Set (Cross marks) and the numbers of additional copies per section/sub-section to be included with their bid package (Numbers of copies).

Table 2	Bidders Proposal Sections													
	I	II		III		IV	V	VI	VII		VIII	IX		
		ISS-Acquisition						ISS-OWSS						
		Technical		Management				Technical		Management		Financial		
	General	T	MCM	M	MCM	Fin.	IRB	T	MCM	M	MCM	Fin.	LCC	IRB
PAPER COPIES:														
3.2.1 One (1) Master Bid Set which includes the following original sections and sub-sections:	X	X	X	X	X	X	X	X	X	X	X	X	X	
3.2.2 Number of additional hard copies of sections and sub-sections:	1	3	3	3	3	0	6	2	2	2	2	0	1	6
ELECTRONIC COPIES: (MS Office 2000)														
3.2.3 One (1) Master Bid Set which includes the following original sections and sub-sections on one CD/DVD set:	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3.2.4 Number of additional electronic copies of sections and sub-sections. Each section or sub-section copy should be on a separate CD/DVD set:	1	8	8	10	10	0	4	7	7	7	7	0	4	4

3.2.7. Once received the bid package is the property of Canada and cannot be returned to the Bidders for the purpose of creating additional copies of the bid sections.

3.2.8. Prices should only appear in the Sections IV and VIII Financial Bids, and Sections V and IX Industrial and Regional Benefits (IRB) Bid. Prices found in any other section will not be considered.

3.2.9. Bidders may submit one or more proposals. Each proposal shall stand on its own;

3.2.10. Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- use 8.5 x 11 inch paper;
- use a numbering system that corresponds to the bid solicitation;
- include a title page at the beginning of each volume of the bid that includes the title, date, bid solicitation number, bidder's name and address and contact information of its representative;
- include a table of contents; and
- include a glossary of all abbreviations and acronyms used;

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In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html). To assist Canada in reaching its objectives, bidders are encouraged to use paper containing fibre certified as originating from a sustainably-managed forest and/or containing minimum 30% recycled content.

3.2.11. The Bidder should label their company's name on all pages and any other information including CD/DVD delivered to Canada under this Request for Proposal (RFP).

3.2.12. All information regarding any aspects of the Bidder's proposal, which are of a proprietary nature, should be clearly marked "PROPRIETARY" at the relevant article or the page(s).

3.2.13. Wherever tables, charts, and graphs are used to depict organizations, systems, layout, implementation schedules, plans, etc., foldout pages should fold entirely within the ringed binder.

3.2.14. Bidders are to assume that Canada has no prior knowledge of their facilities, capabilities and experience. Except as otherwise specifically provided in the bid solicitation, Canada will evaluate the bid only on the documentation provided as part of the bid. Canada will not take into consideration any references in a bid to additional information not submitted with the bid, such as, but not limited to:

- 3.2.14.1. Web-site addresses where additional information can be found;
- 3.2.14.2. Technical manuals or brochures not submitted with the bid; or
- 3.2.14.3. Past or existing standing offers, supply arrangements or contracts with the Government of Canada; or
- 3.2.14.4. Another bid submitted for ISSP;
- 3.2.14.5. W8476-112965/A bid submitted for ISSP;

3.3. Priority of Bid Sets

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

3.4. Canada Reference Documents (Data)

3.4.1. Bidders will find a complete list of Canada Reference Documents for the Integrated Soldier System Acquisition ISS-A at RFP Annex CE to Volume 2 and for the Integrated Soldier System Support ISS-OWSS at RFP Annex CE to Volume 3.

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3.4.2. Bidders will find a complete list of Government Furnished Information (GFI) required for the preparation of their technical bid, including performance evaluation, at RFP Volume 1 Annex CB Appendix 3 article 2.

3.4.3. The GFI identified in RFP Parts 1.1, 1.3 and 1.4 to Annex CE to Volumes 2 and 3 and RFP Appendix 3 to Annex CB to Volume 1 represent references that will be provided to the Bidder from the Contracting Authority on request.

3.4.4. The document versions that will be provided reflect those currently in use. Access to this data may be subject to the provisions of RFP Article 6.2, Controlled Goods Requirement to Volume 1.

3.4.5. To request GFI, Bidders should present their request to the Contracting Authority in writing, either by e-mail or letter, and should include the mailing address to which the Data shall be sent. This request should be accompanied by a fully executed original copy of the Non-Disclosure agreement (NDA) attached as RFP Annex AF o Volume 1. The addresses for requests are:

By e-mail: bernard.juteau@pwgsc.gc.ca/marc-andre.hebert@pwgsc.gc.ca

By courier or regular mail:

PWGSC
Place du Portage Phase III, 8C2
11 Laurier Street,
Gatineau, QC, K1A 0S5
Attention: Bernard Juteau/ Marc-André Hebert
Phone number: (819) 956-0532/(819) 956-0194

3.4.6. The Bidder shall indicate in the NDA Appendix 1 which GFI is requested by providing the information indicated. Upon receipt by the Contracting Authority of the signed NDA, a CD-ROM of the GFI will be sent to the Bidder.

3.4.7. The Bidders disposal of the information must be as per the instructions in the NDA paragraph 7. Any information provided by Canada under the provisions of this Article should be returned in a separately bound portion of their bid called "Data: Canada Reference Documents" (See RFP end of article 3.1 to Volume 1).

3.5. Bid Preparation Instructions

The Bid Preparation Instructions for each section of the bid can be located in the RFP as follows:

3.5.1. "Section I - General Bid", RFP Annex AA to Volume 1.

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3.5.2. For the Integrated Soldier System acquisition (ISS-A) bid sections:

- 3.5.2.1. "Section II - ISS-A Technical Bid", RFP in Annex CB to Volume 1.
- 3.5.2.2. "Section III - ISS-A Management Bid" in RFP Annex CD to Volume 1.
- 3.5.2.3. "Section IV - ISS-A Financial Bid" in RFP Annex AB to Volume 1.
- 3.5.2.4. "Section V - ISS-A IRB Bid" in RFP Annex BA to Volume 1.

3.5.3. For the Integrated Soldier System Optimized Weapon System Support (ISS-OWSS) bid sections:

- 3.5.3.1. "Section VI - ISS-OWSS Technical Bid" in RFP Annex CF to Volume 1.
- 3.5.3.2. "Section VII - ISS-OWSS Management Bid" in RFP Annex CH to Volume 1.
- 3.5.3.3. "Section VIII - ISS-OWSS Financial Bid" in RFP Annex AC to Volume 1.
- 3.5.3.4. "Section IX - ISS-OWSS IRB Bid" in RFP Annex BB to Volume 1.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1. Evaluation Procedures

(a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the bid set, general, technical, management, financial and Industrial and Regional Benefits evaluation criteria specified below.

(b) An evaluation team composed of representatives of the Department of National Defence (DND), Industry Canada (IC) and Public Works and Government Services Canada (PWGSC) will evaluate the bids on behalf of Canada. Canada may hire any independent consultant, or use any Government resources, to evaluate any bid. Not all members of the evaluation team will necessarily participate in all aspects of the evaluation.

(c) Figure 1 outlines the area of responsibility within the ISSP Evaluation Team.

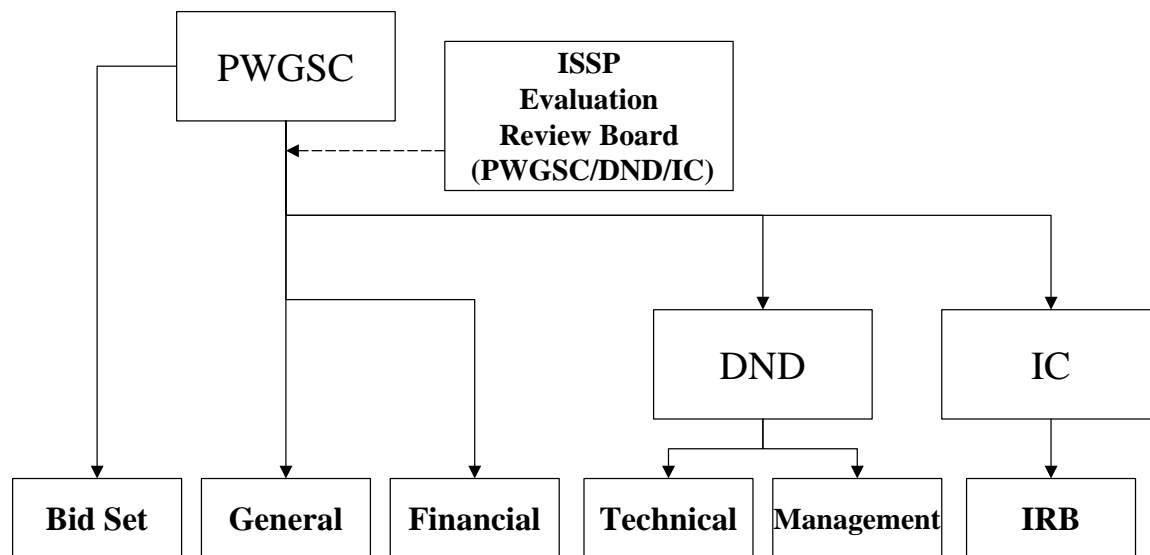


Figure 1 – ISSP Evaluation Team area of responsibility

4.1.1. The Bid evaluation procedures for each section of the bid can be located in the RFP as follows:

4.1.1.1. For the Integrated Soldier System acquisition (ISS-A) bid sections:

- 4.1.1.1.1. “Section II - ISS-A Technical Bid” in RFP Annex CC to Volume 1.
- 4.1.1.1.2. “Section III - ISS-A Management Bid” in RFP Annex CE to Volume 1.
- 4.1.1.1.3. “Section IV - ISS-A Financial Bid” in RFP Annex AB to Volume 2.
- 4.1.1.1.4. “Section V - ISS-A IRB Bid” in RFP Annex BA to Volume 1.

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4.1.1.2. For the Integrated Soldier System Optimized Weapon System Support (ISS-OWSS) bid sections:

- 4.1.1.2.1. "Section VI - ISS-OWSS Technical Bid" in RFP Annex CG to Volume 1.
- 4.1.1.2.2. "Section VII - ISS-OWSS Management Bid" in RFP Annex CI to Volume 1.
- 4.1.1.2.3. "Section VIII - ISS-OWSS Financial Bid" in RFP Annex AB to Volume 3.
- 4.1.1.2.4. "Section IX - ISS-OWSS IRB Bid" in RFP Annex BB to Volume 1.

4.2. Definitions:

4.2.1. For the purposes of the Technical, Management and IRB requirements only, "a bidder", when submitting a bid, may choose to have a part or the whole of the work carried out by one or more eventual first tier subcontractors, and in substance may retain only the general control and supervision of the work for itself. The Bidder can therefore be compliant to all the Technical, Management and IRB requirements of a bid solicitation document by offering its own property, knowledge, expertise or other resources (in the case of a Joint Venture, any of its parties resources) in combination, if any, with the resources of eventual first tier subcontractors. For the purposes of the IRB requirements only, subcontractors must fit the definition of Eligible Parties as per article 1.1.13 of Annex BA to Volumes 2 and 3.

4.3. Basis of Selection

4.3.1. To be considered, a bid must meet all mandatory requirements of the RFP including, without limitation, the following:

4.3.1.1. Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contracts.

4.3.1.2. The maximum funding available for the ISS Acquisition Contract Phases A (Qualification) is \$7,200,000.00 (Goods and Services Tax or Harmonized Sales Tax extra, as appropriate). Bids must not exceed this amount for that Phase. The "ISS-A PHASE A WORK BID PRICE" can be found at RFP item 7.0 to PART 1 (*Phase A Qualification*) to Annex AB to Volume 2. This disclosure does not commit Canada to pay the maximum funding available.

4.3.1.3. Bids must meet all mandatory technical evaluation criteria as follows:

- a) for the Integrated Soldier System Acquisition (ISS-A), the criteria are as per RFP Annex CC to Volume 1; and

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- b) for the ISS Optimized Weapon System Support (ISS-OWSS), the criteria are as per RFP Annex CG to Volume 1;

4.3.1.4. Bids must meet all mandatory management evaluation criteria as follows:

- a) for the ISS-A, the criteria are as per RFP Annex CE to Volume 1; and
- b) for the ISS-OWSS, the criteria are as per RFP Annex CI to Volume 1;

4.3.1.5. Bidders must be financially capable of performing the requirement and agree to the review of the Bidder's financial statements by a government cost analyst to confirm compliance with this mandatory criteria as per RFP Article 6.3 to Volume 1;

4.3.1.6. Bids must meet all mandatory Industrial and Regional Benefits (IRB) Evaluation Criteria as per RFP Annexes BA and BB to Volume 1;

4.3.2. In addition to meeting all of the mandatory evaluation criteria, Bidders will be evaluated on a series of rated evaluation criteria as follows:

4.3.2.1. The following Technical and Management rated evaluation criteria are subdivided as follows:

- a) For technical criteria requirements subject to point rating:
 - i) for the ISS-A, the rated criteria are as per RFP Annex CC to Volume 1; and
 - ii) for the ISS-OWSS, the rated criteria are as per RFP Table 3 to appendix 1 to Annex CG to Volume 1; and
- b) For Management Criteria requirements subject to point rating:
 - i) for the ISS-A, the rated criteria are as per RFP Table 6 to appendix 1 to Annex CE to Volume 1; and
 - ii) for the ISS-OWSS, the rated criteria are as per RFP Table 5 to appendix 1 to Annex CI to Volume 1.

4.3.2.2. The Industrial and Regional Benefits (IRB) requirements for both ISS-A and ISS-OWSS are subject to rated evaluation criteria and are subdivided as follows:

- a) For ISS-A requirements:
 - i) For IRB Plans, the rated criteria are as per RFP paragraph 9.3.2.6.5 to Annex BA to Volume 1; and

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- ii) For IRB Transactions, the rated criteria are as per RFP paragraph 9.3.3.7.7. to Annex BA to Volume 1; and
- b) For ISS-OWSS requirements:
 - i) For IRB Plans, the rated criteria are as per RFP paragraph 9.3.2.6.5 to Annex BB to Volume 1; and
 - ii) For IRB Transactions, the rated criteria are as per RFP paragraph 9.3.3.7.7. to Annex BB to Volume 1;

4.3.3. To be considered, bids must meet all requirements in paragraph 4.3.1 above. If these are met, then the Bidder's UAPE score will be compared to those of other considered bids. To be declared responsive, the considered bids must receive a User Acceptance Performance Evaluation (UAPE) score that is at or within 20% of the highest UAPE score achieved amongst the considered bids.

The value of each valid bid will be established using the cost-per-point method. The cost-per-point is calculated in accordance with the RFP Annex AE to Volume 1.

Neither the responsive bid that receives the highest number of points nor the one that proposed the lowest price will necessarily be accepted. The responsive bid that has the lowest-cost-per-point rating will be recommended for contract award. In the case of a tie, the bid with the highest UAPE score will be recommended.

4.3.4. Bids ranking example:

The following example, which assumes a scenario involving seven bids, demonstrates how the 20% tolerance, referred to above, will be applied:

- * All Bids met the conditions in RFP paragraph 4.3.1 to Volume 1 except the Bid D that did not achieve three of the UAPE mandatory requirements, see RFP paragraph 4.3.1.1.3 a) to Volume 1;
- * Max Possible UAPE Score (Perfect Score) available = 700 points;
- * UAPE results obtained by the seven bids:
- * Bid A = 450 pts;
- * Bid B = 640 pts;
- * Bid C = 298 pts;
- * Bid D = The bid D is not considered/It is non-responsive;
- * Bid E = 541 pts;
- * Bid F = 565 pts;
- * Bid G = 385 pts;
- * Highest UAPE score is Bid B with 640 pts;
- * $640 \text{ pts} * 20\% = 128 \text{ pts}$;

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- * 640 pts - 1,28 pts = 512 pts (lowest acceptable UAPE score for a bid to be responsive);
- * Bid(s) with a UAPE score between 512 pts (inclusive) and 640 pts (inclusive) will therefore be the only responsive Bid(s);
- * The Bids C and G are declared non-responsive;
- * In our example above, the bid that has the lowest-cost-per-point rating between Bids B, E and F will be recommended for award of a contract.

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PART 5 - CERTIFICATIONS

Bidders must provide the required certifications to be awarded a contract. Canada will declare a bid non-responsive if the required certifications are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify the Bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

5.1. Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

5.1.1. Federal Contractors Program - \$200,000 or more

The certification is provided in RFP App. 1 to Ann. AD to Vol. 1.

5.1.2. Missing Certified Data Form (If applicable)

Where, for reasons of compliance with security requirements of the national government of the country of origin of the data, a Bidder is not able to submit Certified Data with its proposal, the Bidder must provide a "Missing Certified Data Form" as per RFP App. 2 to Ann. AD to Vol. 1.

5.1.3. Software Publisher Certification (If applicable), Software Publisher Confirmation (If applicable) and Open Source Software Certification (If applicable):

(a) If the Bidder is the Software Publisher for the ISS-S Battle Management System (BMS) or the System Executive Planning Suite (SEP-S) it bids, Canada requires that the Bidder confirm in writing that it is the Software Publisher. Bidders are requested to use the Software Publisher Certification Form included with the bid solicitation RFP App. 3 to Ann. AD to Vol. 1.

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(b) Any Bidder that is not the Software Publisher for the BMS or SEP-S proposed as part of its bid is required to submit a Software Publisher's confirmation, which should be signed by the Software Publisher (not the Bidder). No Contract will be awarded to a Bidder who is not the Software Publisher of the BMS or SEP-S it proposes to supply to Canada, unless this confirmation has been provided to Canada. If the BMS or SEP-S proposed by the Bidder originates with multiple Software Publishers, confirmation is required from each Software Publisher. Bidders should use the Software Publisher Confirmation Form included with the bid solicitation RFP App. 4 to Ann. AD to Vol. 1.

(c) If Open Source Software are used in full or as component to the ISS-S Battle Management System (BMS) or the System Executive Planning Suite (SEP-S), Canada requires that the Bidder confirm in writing that it has all rights, or made all arrangements, with respect to the Open Source Software product(s) necessary to perform any contract resulting from this solicitation. Bidders are requested to use the Open Source Software Certification Form included with the bid solicitation RFP App. 5 to Ann. AD to Vol. 1.

(d) In this bid solicitation, "Software Publisher" means the owner of the copyright in any software included in the bid, who has the right to license (and authorize others to license/sub-license) its software products.

5.1.4. Adjustment Period:

a) the Bidder certifies that the ISS P(Bid) submitted with their bid for the Performance Evaluation (PE) is a true representation of their Technical Bid and it will be the baseline system at the start of the System Qualification Phase (Phase A) of the Acquisition Contract. If it is determined that the certification made by the Contractor is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default; and

Baseline system, certification:

We, (Name of bidder), hereby certify that the ISS P(Bid) submitted with our bid for the Performance Evaluation (PE) is a true representation of our Technical Bid and it will be the baseline system at the start of the System Qualification Phase (Phase A) of the Acquisition Contract.

Name of bidder:

Per: _____
(Name and Title)

b) the Bidder also certifies that if successful it will implement the drafted Project Management Plan (PMP), System Engineering Management Plan (SEMP) and Integrated Logistics Support (ILS) Plan (including the training and maintenance components) Plans

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submitted with their bid until the equivalent contract documents are submitted and approved in accordance with the Contract requirements.

Draft Plans, certification:

We, (Name of bidder), hereby certify that if successful we will implement the drafted Project Management Plan (PMP), System Engineering Management Plan (SEMP) and Integrated Logistics Support (ILS) Plan (including the training and maintenance components) Plans submitted with our bid until the equivalent contract documents are submitted and approved in accordance with the Contract requirements.

Name of bidder:

Per: _____
(Name and Title)

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PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

Bidders must meet the requirements in this Part 6 to be awarded a contract. Canada will declare a bid non-responsive if the requirements are not met as requested.

Compliance with the requirements is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify the Bidders' statements of compliance with the requirements before award of a contract. The bid will be declared non-responsive if any statement of compliance made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the requirements or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

Statement of compliance for the requirements listed below should be provided with the bid. If any statement of compliance is not submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

6.1. Security requirement

6.1.1. There are security requirements associated with this requirement. They can be found in RFP article 3 to Volumes 2 and 3. If the successful Bidder is a foreign supplier, the Security Requirement for Canadian supplier that can be found in RFP article 3 to Volumes 2 and 3 will be replaced before contract award by a Security Requirement adapted to the foreign supplier country of origin. The Security Requirements for Foreign supplier are accessible in accordance with the process established under article 6.1.2 of this Part.

6.1.2. Foreign supplier security clauses:

If a potential bidder is a foreign supplier, this bidder must communicate with the PWGSC Contracting Authority (CA) immediately so that the equivalent security clause can be e-mailed back to them prior to bid closing. The provided equivalent security clause must be provided with the bid, and will apply to and form part of any eventual ISSP contracts.

6.1.3. Security requirements:

6.1.3.1 At bid closing the Bidder must satisfy the following conditions:

- (a) the Bidder must be registered with the Canadian Industrial Security Directorate (CISD) of Public Works and Government Services Canada (PWGSC), or its National Designated Security Authority.

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(b) the Bidder must hold an approved COMSEC account at the level of SECRET with the following clarifications:

i) If the Bidder is a Joint Venture (an association of two or more persons or entities (Parties)):

- At least one party, Canadian or US, must hold an approved COMSEC account at the level of SECRET.

(c) the Bidder must currently hold a valid Facility Security Clearance at the level of SECRET with approved Document Safeguarding at the SECRET level with the following clarifications:

i) If the Bidder is a Joint Venture (an association of two or more persons or entities (Parties)):

- All parties must hold the requisite valid SECRET Facility Security Clearance;

- At least one party must have the requisite approved Document Safeguarding at the SECRET level.

6.1.3.2. For additional information on security requirements, bidders should consult the "Security Requirements for PWGSC Bid Solicitations - Instructions for Bidders" (<http://www.tpsgc-pwgsc.gc.ca/app-acq/lc-pl/lc-pl-eng.html#a31>) document on the Departmental Standard Procurement Documents Web site.

6.2. Controlled Goods Requirement

6.2.1. SACC Manual clause A9130T (2011-05-16) Controlled Goods Program

6.3. Financial Capability

6.3.1. SACC Manual clause A9033T (2011-05-16) Financial Capability

6.4. Insurance Requirements

6.4.1. The Bidder must provide two letters, one for the resulting Integrated Soldier System Acquisition (ISS-A) Contract (RFP Volume 2) and one for the resulting ISS Optimized Weapon System Support (ISS-OWSS) Contract (RFP Volume 3), from an insurance broker or an insurance company licensed to operate in Canada stating that the Bidder, if awarded a contract as

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a result of the bid solicitation, can be insured in accordance with the Insurance Requirements specified in each of the resulting Contracts in the RFP Annex AA to Volumes 2 and 3.

6.4.2. If the information is not provided in the bid, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

6.4.3. Joint Venture Bidders

All companies that comprise the joint venture must be included in each of the resulting contracts insurance coverage. This can be accomplished with individual certificates or letters for each member of the joint venture indicating that the member will be covered in accordance with the Insurance Requirements of the Contract, a single certificate or letter in the name of all members of the joint venture indicating that all members will be insured in accordance with the Insurance Requirements of the Contract, or a single certificate or letter issued in one of the joint venture member's name, with the other members listed as Named Insureds.

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MODULE A

TO

VOLUME 1

ANNEX AA to Volume 1

“Section I - General Bid” Preparation Instructions

This annex provides bidders with instructions on how to prepare their proposal “Section I - General Bid”.

The Bidder’s proposal Section I - General Bid should include, as a minimum, the information requested in this annex. It does not preclude bidders from including additional information to support this portion of their bid.

1. Signature of Bid

Read section “05 Submission of Bids” 2003 (2011-05-16) Standard Instructions - Goods or Services - Competitive Requirements. Read RFP article 2.1 to volume 1, the amendment to section 17 of 2003.

2. Bid Outline

The Bidders proposal Section I - General Bid should provide an outline of the bid, which details the overall structure of the bid in terms of sections, section sub-sections and copies of sections.

3. Executive Summary:

The Bidders proposal Section I - General Bid should provide an Executive Summary to introduce and give an overview of all claims made and information expressed in the proposal. The Executive Summary will serve as a stand-alone summary of the highlights of the Bidder's proposal and should include the following:

- Background information of the bidding company and its Industrial Team arrangement or the bidding joint venture;
- Details of its identity and the identity of key subcontractors;
- A single point of contact authorized to clarify/address any aspects of the proposal during the bid evaluation period (Name, address, phone & fax numbers and internet address);

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- The identity of the Bidder's Integrated Soldier System Project (ISSP) Project Manager(s) and other key personnel;
- The following ISSP statistical information, excluding Indirect Industrial and Regional Benefits (IRB), expressed in person years of work for each Canadian province or territory:

Integrated Soldier System Acquisition Contract (ISS-A):

Canadian province or territory:	Number of jobs	
	Created in Canada	Maintained in Canada
_____	_____	_____
_____	_____	_____
_____	_____	_____

(Bidder to add additional entries if applicable)

ISS Optimized Weapon System Support Contract (ISS-OWSS):

Canadian province or territory:	Number of jobs	
	Created in Canada	Maintained in Canada
_____	_____	_____
_____	_____	_____
_____	_____	_____

(Bidder to add additional entries if applicable)

- The foreign content, excluding Indirect IRB, expressed as a percentage of the bid price for the ISS-A (The ISS-A work total bid price is at RFP item 7.0 to APPENDIX 1 to annex AB to Volume 2) and for the ISS-OWSS (The ISS-OWSS work total bid price is at RFP item 14.0 Part 1 to annex AB to Volume 3) and the country (countries) of foreign content:

ISS-A:

Country _____ Foreign Content _____%;
(Bidder to add additional entries if applicable).

ISS-OWSS:

Country _____ Foreign Content _____%;
(Bidder to add additional entries if applicable).

- The Bidder's approach for the supply of the proposed goods and related services to meet the requirements described in the Request for Proposal (RFP);

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- A high level summary of the areas of the Bidder's program for this procurement which will involve significant risk management together with the Bidder's approach to mitigate those risks;
- A high level milestone schedule that clearly identifies the key dates for accomplishing the proposed Work;
- A high level summary of the Bidder's IRB proposals;

The Executive Summary should not include any pricing information or IRB values.

4. Related Material

The Bidders proposal Section I - General Bid should provide, in support of that section, all material, including material describing any referenced Bidder's internal processes or procedures.

5. Submission of Canada reference documents (Data)

The Bidders should include in their Section I - General Bid a statement stipulating that no information was requested or received from Canada or, that the information was disposed as per the instructions in RFP paragraph 3.4.7 to Volume 1.

6. Certifications

The Bidders should include in their Section I - General Bid, when applicable, the certifications requested in RFP articles 5.1.1 to 5.1.4 to Volume 1.

7. Security, financial and other requirements

7.1. Security requirements

The Bidders should include in their Section I - General Bid, the information requested in the RFP article 6.1 to Volume 1.

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7.2. Controlled Goods Requirements

The Bidders should include in their Section I - General Bid, the information requested in the RFP article 6.2 to Volume 1.

7.3. Insurance Requirements

The Bidders should include in their Section I - General Bid, the information requested in the RFP article 6.4 to Volume 1.

8. Provision of Bidder Information

The information requested in the following bid solicitation references should be provided by the bidders. The Bidders proposal Section I - General Bid, should provide the Bidder-populated information from the following bid solicitation references:

- a) RFP article 2.4 to Volume 1, Applicable Laws;
- b) RFP article 5.6 Contractor Representative to Volume 2;
- c) RFP article 5.6 Contractor Representative to Volume 3;

9. Executive Briefing Package

The Bidders proposal Section I - General Bid should provide a separate CD/DVD with Photos of the kit, pictures and diagrams, glossy product brochures, etc... The Executive Briefing Package will be used by the ISSP to brief senior management and, eventually, announcements of the successful Bidder.

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ANNEX AB to Volume 1

“Section IV – ISS-A Financial Bid” Preparation Instructions

This annex provides bidders with instructions on how to prepare their proposal “Section IV – ISS-A Financial Bid” for the Integrated Soldier System Acquisition (ISS-A) Contract (RFP Volume 2 Resulting Contract).

1. ISS-A Financial Bid

1.1. Bidders must submit with their proposal “Section IV ISS-A Financial Bid” a filled-in copy of the ISS-A Financial Bid Presentation Sheet (FBPS). The Bidders must respect the format provided in the ISS-A FBPS. The ISS-A FBPS can be found in the RFP Annex AB to Volume 2 Resulting Contract. The ISS-A FBPS is also provided on an *.xls format (Microsoft Excel 2000) in the RFP Electronic Package under file name “ISS_A_FBPS_V2.xls”.

1.2. The FBPS is locked except for the grey cells that can be filled-in by the bidder. This annex will provide instructions only for the items in the FBPS that may be more complex to understand. The other one should be self-explanatory.

1.3. Provisioning of Spare Parts:

1.3.1. Following the purchase of the initial 1600 ISS P(Prod), Canada’s will purchase at least \$2,000,000.00 CAN GSTI/HSTI of spare parts. The spare parts will be a mix of ISS-A Recommended Spare Parts, ISS-A Consumable and Bulk Items and ISS-S Recommended Support Equipment.

1.3.2. Canada intends to purchase spare parts after each purchase of optional ISS P(Prod) quantities.

1.4. ISS-A FBPS:

The ISS-A FBPS is divided into 3 parts and 4 appendices as per the following paragraphs.

1.4.1. The PART 1 is for the ISS-A Contract “(Phase A Qualification)” financial proposal (Excel file tab “Part1_AnnexAB_Vol2”).

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1.4.2. The PART 2 is for the ISS-A Contract “*Optional Goods and/or Services (Phase B (Production))*” financial proposal (Excel file tab “Part2_AnnexAB_Vol2”).

1.4.3. The PART 3 is for the ISS-A Contract “*(Miscellaneous Work (Not phased specific))*” that may be called during the period of the Contract (Excel file tab “Part3_AnnexAB_Vol2”). The PARTS 1 to 3 together represent the core of the ISS-A Contract FBPS.

1.4.4. The APPENDIX 1 is for the ISS-A Contract “*Purchase of optional quantities*” financial proposal (Excel file tab “App1_AnnexAB_Vol2”).

1.4.5. The APPENDIX 2 is for the ISS-A Contract “*Optional Quantities Discount Factor Table*” financial proposal (Excel file tabs “App2_AnnexAB_Vol2” & “App2Contd_AnnexAB_Vol2”).

1.4.6. The APPENDIX 3 is for the Bidders request to Canada to assume the risk for exchange rate fluctuation for the FBPS PARTS 2 and 3 (Excel file tab “App3_AnnexAB_Vol2”).

1.4.7. The APPENDIX 4 is for the Bidders request to Canada to assume the risk for exchange rate fluctuation for the FBPS APPENDICES 1 and 2 (Excel file tab “App4_AnnexAB_Vol2”).

1.5. The period of the ISS-A Contract is the Phase A period of completion plus an optional additional 3 years period. For the additional 3 years period, a year is a period from contract amendment date anniversary exercising the option to proceed with the Phase B (Production) to next contract amendment date anniversary exercising the option to proceed with the Phase B (Production) minus 1 day. For more information on the timing of event, you can read the RFP article 4 to Volume 2.

1.6. A working day is a day when work is normally done as distinguished from Saturdays, Sundays and legal holidays in Canada. Working day’s normal business hours is 7.5 hrs a day, exclusive of meal breaks, occurring between 0700 hrs to 1800 hrs from Monday to Friday.

1.7. The Bidders, when using their spreadsheet program, should be careful not to put in any cells, numbers representing dollars values that have more than 2 decimals. Canada will review and recalculate all financial proposals on the basis of the unit prices with 2 decimals as provided by the Bidders in their proposal “Section IV ISS-A Financial Bid” paper copy.

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1.8. Bidders should submit prices for each item in the ISS-A FBPS as per the instructions of this annex. If some items are not part of the proposal, bidders should keep the item's price fields empty. Bidders should insert "0" in the "Unit price" field and the "quantity" in the "Qty" field when an item is provided free. Bidders should insert "0" in the "Unit price" and "Qty" fields for any item already included/bundled/physically integrated with another item for which there is an overall price. The Contracting Authority may request additional information from the bidder about any ISS-A FBPS data field and provide the Bidder with a time frame within which to provide the requested information. Failure to comply satisfactorily with the request of the Contracting Authority within that time period will render the bid non-responsive. No bidders will be permitted to change a price as part of this request.

1.9. During the bid solicitation stage, the RFP Annex AB to Volume 2 will be called "ISS-A Financial Bid Presentation Sheet". Before contract award, the ISS-A Financial Bid Presentation Sheet will be reworked and renamed "Basis of Payment".

2. Evaluation of Price

2.1. The Bidders proposal "Section IV ISS-A Financial Bid" must submit prices in Canadian currency. The price of the bid will be evaluated in Canadian dollars, the Goods and Services Tax or the Harmonized Sales Tax excluded, Incoterm 2000 DDP Delivery Duty Paid, customs duties included except as per the condition at RFP article 6.5.2. SACC manual clause C2611C to Volume 2 if applicable.

3. Transportation Costs Information

3.1. The Bidder should provide in its Section IV ISS-A Financial Bid the following information concerning transportation costs for the delivery of the units to destination: (Also see RFP items 14.1 to 14.5 to PART 2 to Annex AB to Volume 2, RFP item 3.0 to APPENDIX 1 to Annex AB to Volume 2 and RFP article 7.1 to Volume 2)

- (a) shipping weight by unit;
- (b) number of items by unit;
- (c) cubic measurement by unit;
- (d) freight classification;
- (e) name of shipping point;
- (f) name of rail carrier, if shipment is by rail; and
- (g) recommended method of shipment and its costs.

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4. Exchange Rate Fluctuation

- 4.1. Unless otherwise specified in the bid solicitation, bids must be in Canadian currency.
- 4.2. Bidders may request Canada to assume the risk for exchange rate fluctuation. This request must be specifically made at time of bidding.
- 4.3. The foreign currency component is defined as the element of the price that will be directly affected by exchange rate fluctuations. It could include the net price FOB foreign manufacturer's plant, costs associated with applicable duty, excise tax, Goods and Services Tax or Harmonized Sales Tax, if applicable, entry fees, transportation costs or delivery charges payable in a foreign currency, and any other charges associated with being the importer of record if they originated from and are required to be paid in a foreign currency.
- 4.4. The foreign value of the foreign currency component of the bid or negotiated price must be provided in the bid. The forms in RFP APPENDICES 3 & 4 to Annex AB to Volume 2 Claim for Exchange Rate Adjustments, may be used for this purpose. If milestone payments are proposed, it is recommended to indicate on the above form the foreign currency component associated with each milestone event.
- 4.5. All bids are evaluated in Canadian currency. Therefore, for evaluation purposes, the noon rate quoted by the Bank of Canada as being in effect on date of bid closing, or such other date as may be specified in the bid solicitation, will be applied as the initial conversion factor for the specified currency.
- 4.6. Rates proposed by bidders will not be accepted for the purposes of this exchange rate adjustment provision. Therefore, the rates proposed by bidders in Column F of the forms in APPENDICES 3 & 4 to Annex AB to Volume 2 Claim for Exchange Rate Adjustments will be changed as per paragraph 4.5 of this annex.
- 4.7. If there are two (2) identical bids, and provided that the bid selected would still be considered the most advantageous to Canada, preference will be given to the Bidder who assumes all or part of the exchange rate adjustment risk over a bidder who does not assume any of this risk. Furthermore, preference will be given to the Bidder who assumes all of the exchange rate adjustment risk over a bidder who assumes only part of this risk.
- 4.8. Canada will pay the exchange rate adjustment amount in Canadian currency in accordance with RFP article 6.3 to Volume 2.

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5. Economic Price Adjustment (Not Applicable to phase A)

5.1. Economic price adjustments shall be in accordance with RFP article 6.6 to Volume 2.

6. FBPS preset QTY (column A):

6.1. The values found in column A (QTY) opposite to all ISS-A FBPS sub-items, except for Part 1, Part 2's items 9.0, 10.0, 11.0 and 13.0, do not represent a commitment that Canada's future usage of these items will be consistent with these values. It is provided only for the purpose of financial bid evaluation and project financial value estimation.

7. Not Applicable

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8. PROCEDURES ON HOW TO FILL-IN THE RFP PART 1 (Phase A Qualification) to Annex AB to Volume 2 Resulting Contract:

Go to RFP PART 1 to Annex AB to Volume 2.

8.1. Exchange rate fluctuation and Economic Price Adjustments:

8.1.1. Canada will not assume the risk for exchange rate fluctuation nor there will be economic price adjustments applicable for the RFP PART 1 (Phase A Qualification) to Annex AB to Volume 2.

8.2. Item 5.0 “Qualification”:

8.2.1. The detailed descriptions of the work for the milestones are in RFP appendix 1 to Annex CA to Volume 2. In that appendix, are identified the events/elements which signal/demonstrate milestones successful completion.

8.2.2. Insert the milestone due date in months from date of contract award into column D opposite to sub-items 5.1, 5.2 and 5.3. The number of months can have one decimal.

8.3. Item 6.0 Release of holdback:

8.3.1. Partial payment of items 1.0 to 5.0 and release of the total holdback will be in accordance with RFP articles 6.2.1 and 6.2.2 to Volume 2.

8.4. Item 7.0 “ISS-A PHASE A WORK BID PRICE”:

8.4.1. Insert your quoted Firm Lot Price into column C opposite to item 7.0 for the eventual ISS Acquisition Contract Phase A, Goods and Services Tax or Harmonized Sales Tax extra, if applicable. This amount must be equal or lower than the maximum funding prescribed under RFP paragraph 4.3.1.2 to Volume 1;

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9. PROCEDURES ON HOW TO FILL-IN THE RFP PART 2 (Optional Goods and/or Services Phase B (Production)) to Annex AB to Volume 2 Resulting Contract:

Go to RFP PART 2 to Annex AB to Volume 2.

9.1. Exchange rate fluctuation:

9.1.1. If the Bidder requests Canada to assume the risk for exchange rate fluctuation, read the paragraph 13 of this annex before going to paragraph 9.2 hereunder.

9.2. Economic Price Adjustment:

9.2.1. The columns B2 and B3 will be filled-in by the Contracting Authority during the contract period. The prices in columns B2 and B3 will be calculated in accordance with RFP article 6.6 to Volume 2.

9.3. Item 10.0 “Integrated Soldier System (ISS) P(SAT) version”:

9.3.1. Main Equipment:

9.3.1.1. Integrated Soldier System – Electronic Suite (ISS-ES):

9.3.1.1.1. Under FBPS item “Integrated Soldier System – Electronic Suite (ISS-ES)”, the Bidder must provide ISS-ESs. The ISS-ES must be broke down in term of Line-Replaceable Unit (LRU). The definition of an LRU is in RFP Section 3 Glossary to annex CE References, Acronyms and Glossary to Volume 2. The ISS-ES may be comprised of many LRUs. The bidder can insert as much as 20 LRUs. Provide the designations for each of the LRUs. For this exercise, software licenses are considered as LRUs.

9.3.1.2. ISS Battery Sets:

9.3.1.2.1. All required definitions to help the Bidders to fill-in the item “ISS Battery Sets” can be found in RFP paragraph 3.3.1.1 to Annex CA to Volume 2.

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9.3.1.2.2. ISS “Rechargeable” or, “Non-Rechargeable” Battery Set:

9.3.1.2.2.1. Under FBPS item ISS (...) Battery Set, the Bidder must provide Battery Set. The ISS-ES may be comprised of many power domains. The bidder can use up to 5 power domains.

9.3.1.2.2.2. Power Domains “Rechargeable” or, “Non-Rechargeable” Battery Pack:

9.3.1.2.2.2.1. Under FBPS item “Battery (type)” delete the generic designation “Battery (type)” and provide the designation for the battery and insert into column A opposite to this item the required number of batteries.

9.3.1.2.2.2.2. Insert your quoted Firm Unit Price into column B1 opposite to the “Battery (Type)”.

9.3.1.2.2.2.3. Under FBPS item “Battery Loading/Storage Device”, insert into column A opposite to this item the required number of Battery Loading/Storage Device. If the battery pack is an integrated combination of the battery and Battery Loading/Storage Device, insert “0” (zero).

9.3.1.2.2.2.4. Under FBPS item “Battery Loading/Storage device”, insert your quoted Firm Unit Price into column B1 opposite to item. If the battery pack is an integrated combination of the battery and Battery Loading/Storage Device insert “\$0.00” (zero \$).

9.3.1.2.2.3. Quantity of Power Domain “Rechargeable” or “Non-Rechargeable” Battery Pack:

9.3.1.2.2.3.1. Under FBPS item Quantity of Power Domain (...) Battery Pack, insert into column A opposite to this item the required number of Power Domain (...) Battery Packs.

9.3.1.3. Modular Load Carriage System (MLCS):

9.3.1.3.1. Under FBPS item “MLCS ISS Pouch Set “, the Bidder should provide MLCS ISS Pouch Set. The MLCS ISS Pouch Set should be broken down in term of pouch. The bidder can insert as much as 10 pouches.

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9.3.2. Accessory items:

9.3.2.1. Under FBPS item “LCSS Radio Interface Cable Set”, provide the required LCSS Radio Interface Cables. The LCSS Radio Interface Cable Set should be broke down in term of cables. The LCSS Radio Interface Cable Set may be comprised of many cables. The bidder can insert as much as 10 Interface Cable.

9.3.3. Technical Documentation:

9.3.3.1. Original copy:

9.3.3.1.1. The “original copy” is for the writing, translation, edition etc.. of the first (original) copy of a document. The costs for the production of these original documents are accounted for under RFP item 9.1.13 Technical Publications to PART 2 to Annex AB to Volume 2. “Technical documentation” is defined in RFP paragraph 3.3.1.1.0-8.0-1 to Annex CA to Volume 2.

9.3.3.2. Additional copies:

9.3.3.2.1 Under “Additional copies”, insert your quoted Firm Unit Prices into column B1 opposite to each sub-item. This is the price of copies of the original documents developed under RFP item A.3.1 to PART 2 to Annex AB to Volume 2.

9.3.4. Support Equipment:

9.3.4.1. Battery Charger Set:

9.3.4.1.1. All the required definitions to help the Bidders to fill in the item “Battery Charger Set “ can be found in RFP paragraph 3.3.1.1 to Annex CA to Volume 2.

9.3.4.1.2. Under “Battery Charger Set”, the Bidder must provide enough Battery Charger Sets to support blocks of ISS Rechargeable Battery Sets. The Battery Charger Set may be comprised of many items that we called “Ancillary”. The bidder can insert as much as 10 Ancillary. Under “Battery Charger Set” provide the designations for each of the ancillaries.

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9.3.4.1.3. For each ancillary insert into column A opposite to all sub-items the required number of ancillaries to support the required block ISS Rechargeable Battery Sets.

9.3.4.1.4. Insert your quoted Firm Unit Prices into column B1 opposite to each ancillary.

9.4. Item 13.0 “Integrated Soldier System (ISS) P(Prod) version”:

9.4.1. The instructions for the submission of prices for the item 13.0 are at paragraph 9.3 of this annex.

9.5. Item 14.0 “Batch Delivery Charges”:

9.5.1. In the annex CF to Volume 2, the tables are in some cases broken down into batches. Canada will make payment only following complete delivery of a batch.

9.5.2. Please read the paragraph 3 of this annex again.

9.5.3. Under item 14.0, insert your quoted Ceiling Prices into column B1 opposite to all sub-items. PWGSC policies require that transportation costs be submitted by the Contracting Authority to PWGSC Traffic Management Directorate, Services and Specialized Acquisitions Management Sector, for analysis. The sector may recommend a less expensive method of shipment than the one proposed by the Bidder.

9.6. Item 17.0 “ISS-A Provisioning of ISS Spare Parts”:

9.6.1 Context:

9.6.1.1. In order for Canada to maximize competition amongst bidders with regard to the prices of Spare Parts, the FBPS item 13.0 has been duplicated in part into FBPS item 17.0, the Firm Unit Prices quoted by the bidder under item 17.0 will be evaluated by simulating the purchase of a fictitious quantity of two hundred (200) ISS P(Prod) equivalent, using spares. The bidder must populate the sub-items 17.1 to 17.4 as requested, like it did with sub-items 13.1 to 13.4.

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9.6.1.2. The bidder quoted prices in item 17.0 will be used by Canada for financial bid evaluation purposes and they will be contractually binding. Canada will compare the sub-items in 17.0 list with the FBPS sub-items in 13.0. If it is found that some requested sub-items, including price, in 17.0 are missing, the missing sub-items will be added by Canada to 17.0 using the description and Firm Unit Prices in item 13.0 for financial bid evaluation purposes and they will be contractually binding.

9.6.2. The instructions for the submission of prices for the sub-items 17.1 to 17.4 are at paragraph 9.3 of this annex.

9.7. Item 20.0 "ISS-A PHASE B WORK BID PRICE":

9.7.1. We now have the value of the Bidder's bid price for the eventual ISS Acquisition Contract Phase B, Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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10. PROCEDURES ON HOW TO FILL-IN THE RFP PART 3 (Miscellaneous Work (Not phased specific)) to Annex AB to Volume 2 Resulting Contract:

Go to RFP PART 3 to Annex AB to Volume 2.

10.1. Application:

10.1.1. The RFP PART 3 to Annex AB FBPS to Volume 2 could be used but would not be limited to:

- provide additional support to the Technical Authority for the preparation and the conduct of the HERO and RADHAZ testing as per RFP paragraph 3.2.8.2.0-3 to Annex CA SOW to Volume 2 and other miscellaneous services as per RFP paragraph 5.4.1.1.4 SOW to Annex CA SOW to Volume 2;
- review a change in design to the Modular Load Carriage System (MLCS);
- to study a modification required to the ISS-ES to perform voice and data integration with the new baseline of Land Command Support System (LCSS) resulting from the modification associated with the LCSS Life Extension (LE), the Combat Net Radio Enhancement (CNR(E)) and the new Family of Land Combat Vehicle (FLCV) projects. Those modifications may include changes to the messaging solution and communication protocols, integration of a Cross Domain Solution (CDS) and integration of a Type 1 radio;
- make a study about ISS and Weapon Effects Simulation (WES) integration with the cooperation of the WES current Contractor.

10.2. Exchange rate fluctuation:

10.2.1. If the Bidder requests Canada to assume the risk for exchange rate fluctuation, read the paragraph 13 of this annex before going to paragraph 10.3.

10.3. Economic Price Adjustment:

10.3.1. The columns B1 to B3 will be filled-in by the Contracting Authority during the contract period. The prices in columns B1 to B3 will be calculated in accordance with RFP article 6.6 to Volume 2.

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10.4. Item 21.0 “Engineering Support Services”:

10.4.1. Normal business hours:

10.4.1.1. Under item 21.1, Bidders must provide all the labour categories identified as sub-items.

10.4.2. Outside normal business hours (Monday to Friday) and (Saturday and Sunday):

10.4.2.1. Under sub-items 21.2.1 and 21.3.1, insert your quoted overtime premium for Outside normal business hours into column A opposite to sub-items. Your quoted overtime premium should be equal or greater than 1.

10.5. Item 24.0 “ISS-A MISCELLANEOUS WORK BID PRICE”:

10.5.1. We now have the value of the Bidder’s bid price for the eventual ISS Acquisition Contract Miscellaneous Work (Not phased specific), Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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11. PROCEDURES ON HOW TO FILL-IN THE RFP APPENDIX 1 (Purchase of Optional Quantities) to Annex AB to Volume 2 Resulting Contract:

Go to RFP APPENDIX 1 to Annex AB to Volume 2.

11.1. Exchange rate fluctuation:

11.1.1. If the Bidder requests Canada to assume the risk for exchange rate fluctuation, read the paragraph 13 of this annex before going to paragraph 11.2 hereunder.

11.2. Economic Price Adjustment:

11.2.1. The columns B2 and B3 will be filled-in by the Contracting Authority during the contract period. The prices in columns B2 and B3 will be calculated in accordance with RFP article 6.6 to Volume 2.

11.3. Items 1.0 and 2.0:

11.3.1. The items are calculated in RFP APPENDIX 2 to Annex AB to Volume 2

11.4. Item 3.0 “Optional ISS P(Prod) Batches Delivery charges”:

11.4.1. Canada will make payment only following complete delivery of a batch. Please read the paragraph 3 of this annex again.

11.4.2. Under item 3.0, insert your quoted Ceiling Price into column B1 opposite to item 3.0. PWGSC policies require that transportation costs be submitted by the Contracting Authority to PWGSC Traffic Management Directorate, Services and Specialized Acquisitions Management Sector, for analysis. The sector may recommend a less expensive method of shipment than the one proposed by the Bidder.

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11.5. Item 6.0 “ISS-A OPTIONAL PURCHASE BID PRICE”:

11.5.1. Under sub-item 6.3 entitled “ISS-A Optional Purchase Bid Price, after Weighting”, we now have the value of the Bidder’s bid price for the eventual ISS Acquisition Contract optional Purchase, weighted to prevent the Bidders manipulation of prices between PARTS 1 to 3, and APPENDIX 1, Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

11.6. Item 7.0 “ISS-A WORK TOTAL BID PRICE”:

11.6.1. For financial bid evaluation purposes only, we now have the value of the Bidder's bid price for the eventual provision of the Integrated Soldier System, Goods and Services Tax or Harmonized Sales Tax is extra, if applicable;

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12. PROCEDURES ON HOW TO FILL-IN THE RFP APPENDIX 2 (Optional Quantities Discount Factor Table) to Annex AB to Volume 2 Resulting Contract:

Go to RFP APPENDIX 2 to Annex AB to Volume 2.

12.1. Exchange rate fluctuation:

12.1.1. If the Bidder requests Canada to assume the risk for exchange rate fluctuation, read the paragraph 13 of this annex before going to paragraph 12.2 hereunder.

12.2. Economic Price Adjustment:

12.2.1. The columns B2 and B3 will be filled-in by the Contracting Authority during the contract period. The prices in columns B2 and B3 will be calculated in accordance with RFP article 6.6 to Volume 2.

12.3. Item 1.0 “The purchase of optional Integrated Soldier System (ISS) P(Prod) quantities”:

12.3.1. In order to identify how the discounts will be applied on optional quantities of ISS Suites purchased, please read the item 1.0 and its associated framed examples.

12.3.2. Prices for the optional purchase of ISS P(Prod) in quantity of less than 2 batches:

12.3.2.1. The instructions for the submission of prices for the item 1.0 are at paragraph 9.3 of this annex.

12.3.3. Quantity Discount Factors for the optional purchase of ISS P(Prod) in quantity of 2 batches or more:

12.3.3.1. The Bidder must quote Quantity Discount Factors % for the conditions described under columns 2 to 8 headings and insert them under columns 2 to 8 opposite to sub-item 1.5. The discounts will apply equally to all sub-items under items 1.1 to 1.4 as long as the quantities meet the definition of a “Batch” or fraction of a “Batch”. In principle, the Discount Factors % should be equal to or less than 100%.

$$\text{Quantity Discount Factor \%} = [1 - (\% \text{ discount})]$$

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12.3.4. The financial value of the bidders quotes for the item 1.0, namely the value in column C1 opposite to item 1.7 entitled “ISS P(Prod) OPTIONAL BATCHES BID PRICE” is calculated as per paragraph 12.3.4.1 hereunder.

12.3.4.1. The calculation is done as follow:

Variables definition:

- The variables C2 to C8 means the Quantity Discount Factors % provided under columns 2 to 8 opposite to sub-item 1.5;
- The variable W1 means the Weighted Average Quantity Discount Factor1;
- The variable W2 means the Weighted Average Quantity Discount Factor2;
- The variable W means the Weighted Average Quantity Discount Factor;
- The variable CC means the value in column C opposite to item 1.6 entitled “ISS P(Prod) OPTIONAL BATCH BID PRICE (for ISS P(Prod) in quantity of less than 2 batches);
- The variable CC1 means the value in column C1 opposite to item 1.7 entitled “ISS P(Prod) OPTIONAL BATCHES BID PRICE”;

$$\begin{aligned}
 W1 &= (1+C2+C3+C4)*0.8/4 \\
 W2 &= (C5+C6+C7+C8)*0.2/4 \\
 W &= W1+W2 \\
 CC1 &= (8*CC*W)
 \end{aligned}$$

12.4. Item 2.0 “The purchase of optional ISS Battery Set and Battery Charger Set quantities”:

12.4.1. Prices for the optional purchase of ISS Battery Set and Battery Charger Set in quantity of 1 to 100 units:

12.4.1.1. ISS Battery Sets:

12.4.1.1.1. ISS Rechargeable or Non-Rechargeable Battery Set:

12.4.1.1.1.1. The instructions for the submission of prices for the items ISS (...) Battery Set are at 9.3.1.2 of this annex.

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12.4.1.2. Battery Charger Set:

12.4.1.2.1. The instructions for the submission of prices for the Battery Charger Set are at paragraph 9.3.4.2 of this annex.

12.4.2. Quantity Discount Factors for the optional purchase of ISS Battery Set and Battery Charger Set in quantity of 101 units and more:

12.4.2.1. The Bidder must provide a Quantity Discount Factor % for the conditions described under columns 2 to 9 headings and insert them under columns 2 to 9 opposite to each and every sub-items to item 2.0. In principle, the Discount Factors % should be equal to or less than 100%.

12.4.3. The financial value of the bidders quotes for the item 2.0, namely the value in column C1 opposite to item 2.5 entitled “ISS BATTERY SET & BATTERY CHARGER SET OPTIONAL QUANTITIES BID PRICE” is calculated as per paragraph 12.4.3.1 hereunder.

12.4.3.1. The column C1 is calculated as follows:

Variables definition:

- The variables C2 to C9 means the Quantity Discount Factors % provided under columns 2 to 9 opposite to each sub-items;
- The variable W means the Weighted Average Quantity Discount Factor;
- The variable CC means the value in column C “Extended Price before discount” opposite to each sub-item;
- The variable CC1 means the value in column C1 “Extended Price after discount” opposite to each sub-item;

$$W = (1+C2+C3+C4+ C5+C6+C7+C8+C9)/9$$

$$CC1 = (CC*W)$$

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13.0 PROCEDURES ON HOW TO FILL-IN THE RFP APPENDICES 3 AND 4 Claim for Exchange Rate Adjustments to Annex AB to Volume 2 Resulting Contract:

13.1. If there is no Foreign Currency Components (FCC) in your proposal, do not use the RFP APPENDICES 3 OR 4 to Annex AB to Volume 2.

13.2. If there is a FCC:

13.2.1. For any of the items into RFP PARTS 2 and 3 to Annex AB FBPS to Volume 2, use the RFP APPENDIX 3 “PARTS 1, 2 & 3's Claim for Exchange Rate Adjustments” to Annex AB FBPS to Volume 2.

13.2.2. For any of the items into RFP APPENDICES 1 and 2 to Annex AB FBPS to Volume 2,, use the APPENDIX 4 “APPENDICES 1 & 2's Claim for Exchange Rate Adjustments” to Annex AB FBPS to Volume 2..

13.2.3 Read the paragraph 4 of this annex and RFP article 6.3 to Volume 2 and go to RFP APPENDIX 3 or APPENDIX 4 to Annex AB FBPS to Volume 2.

13.2.4. Economic Price Adjustment:

13.2.4.1.The columns D2, D3, G2, G3, B2 and B3 will be filled-in by the Contracting Authority during the contract period. The prices in these columns will be calculated in accordance with RFP article 6.6 to Volume 2.

13.2.5. For the item for which the Bidder requests Canada to assume the risk for exchange rate fluctuation, insert its description into the column “ITEM’S DESCRIPTIONS”.

13.2.6. Opposite to item “a)”:

13.2.6.1. Insert the quote for the Canadian Currency Component (CCC) item “a)”, if any, into column D1.

13.2.6.2. Insert a Canadian currency identifier into column E;

13.2.6.3. Insert the number one (1) as currency conversion factor into column F;

13.2.6.4. Insert the converted CCC into Canadian Currency, into the column G1. The column G1 is equal to column D1 multiplied by column F.

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13.2.7. Opposite to item “b)”:

13.2.7.1. Insert the quote for the Foreign Currency Components (FCC), item “b)” into column D1;

13.2.7.2. Insert a Foreign currency identifier into column E;

13.2.7.3. Insert a currency conversion factor into column F. Please note that for bid evaluation purposes, PWGSC will change the conversion factor provided by the Bidders with the rate (noon) quoted by the Bank of Canada as being in effect on date of bid closing;

13.2.7.4. Insert the converted FCC into Canadian Currency, into the column G1. The column G1 is equal to column D1 multiplied by column F.

13.2.7.5. If there are multiple currencies for an FBPS item, subdivide the FCC, item “b)”, into “i)”, “ii)” etc..., and repeat the steps under this annex paragraphs 13.2.7.1 to 13.2.7.4 as many time as it is required.

13.2.8. Under the item’s main description, insert the sum of all the “Extended Price” from CCC (item “a)” and FCC, item “b)”, from column G1, into the space in column B1 opposite to item’s main description. We now have the value of the item’s quoted price in Canadian dollars, Goods and Services Tax or Harmonized Sales Tax is extra, if applicable;

13.2.9. The item’s quoted price in Canadian dollars can now be copied and pasted into the RFP column B or column B1 as appropriate to Annex AB to Volume 2.

13.2.10. The content in the RFP APPENDICES 3 and 4 to annex AB to Volume 2 is provided as example only. The Bidders can insert as many items as required.

ANNEX AC to Volume 1

“Section VIII – ISS-OWSS Financial Bid” Preparation Instructions

This annex provides bidders with instructions on how to prepare their proposal “Section VIII – ISS-OWSS Financial Bid” for the Integrated Soldier System Optimized Weapon System Support (ISS-OWSS) Contract (RFP Volume 3 Resulting Contract).

1. ISS-OWSS Financial Bid

1.1. Bidders must submit with their proposal “Section VIII ISS-OWSS Financial Bid” a filled-in copy of the ISS-OWSS Financial Bid Presentation Sheet (FBPS). The Bidders must respect the format provided in ISS-OWSS FBPS. The ISS-OWSS FBPS can be found in the RFP Annex AB to Volume 3 Resulting Contract. The ISS-OWSS FBPS is also provided on an *.xls format (Microsoft Excel 2000) in the RFP Electronic Package under file name “ISS_OWSS_FBPS_V2.xls. Furthermore, the Bidders should submit in a subsection of their proposal “Section VIII ISS-OWSS Financial Bid” a filled-in copy of the file “ISS_LCC_Templates_Vx.XLS” which is also provided on an *.xls format (Microsoft Excel 2000) in the RFP Electronic Package.

1.2. The FBPS is locked except for the grey cells that can be filled-in by the bidder. This annex will provide instructions only for the items in the FBPS that may be more complex to understand. The other one should be self-explanatory.

1.3. Not applicable

1.4. The ISS-OWSS FBPS is divided into 2. The main body (PART 1) is for the ISS-OWSS resulting Contract financial proposal (Excel file tab “Part1_AnnexAB_Vol3”). The APPENDIX 1 is for the Bidders request to Canada to assume the risk for exchange rate fluctuation (Excel file tab “App1_AnnexAB_Vol3”).

1.5. The period of the ISS-OWSS Contract is the period from contract award date to contract starting date plus a firm five (5) year period. The Contract Starting Date is the same as the date of the ISS-A contract amendment exercising the option to proceed with the ISS-A Contract Phase B. The services under the ISS-OWSS Contract will not be provided before the Contract Starting Date. In the ISS-OWSS Contract, a "year" is then a period from Contract Starting Date Anniversary to next Contract Starting Date Anniversary minus 1 day. For more information on the timing of event, you can read the RFP article 4 to Volume 3.

1.6. A working day is a day when work is normally done as distinguished from Saturdays, Sundays and legal holidays in Canada. Working day's normal business hours is 7.5 hrs a day, exclusive of meal breaks, occurring between 0700 hrs to 1800 hrs from Monday to Friday.

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1.7. The Bidders, when using their spreadsheet program, should be careful not to put in any cells, numbers representing dollars values that have more than 2 decimals. Canada will review and recalculate all financial proposals on the basis of the unit prices with 2 decimals as provided by the Bidders in their “Section VIII ISS-OWSS Financial Bid” paper copy.

1.8. Bidders should submit prices for each item in the ISS-OWSS FBPS as per the instructions of this annex. If some items are not part of the proposal, bidders should keep the item's price fields empty. Bidders should insert “\$0.00” in the price field and the quantity in the “Qty” field for any item for which it does not intend to charge because the items are free. Bidders should insert “\$0.00” in the price field and “0” in the “Qty” field for any item already included/bundled/physically integrated with another item for which there is an overall price. The Contracting Authority may request additional information from the bidder about any ISS-OWSS FBPS data field and provide the Bidder with a time frame within which to provide the requested information. Failure to comply satisfactorily with the request of the Contracting Authority within that time period will render the bid non-responsive. No bidders will be permitted to change a price as part of this request.

1.9. During the bid solicitation stage, the RFP Annex AB to Volume 3 will be called “ISS-OWSS Financial Bid Presentation Sheet”. Before contract award, the ISS-OWSS Financial Bid Presentation Sheet will be reworked and renamed “Basis of Payment”.

2. Evaluation of Price

2.1. The Bidders proposal “Section VIII ISS-OWSS Financial Bid” must submit prices in Canadian currency. The price of the bid will be evaluated in Canadian dollars, the Goods and Services Tax or the Harmonized Sales Tax excluded, Incoterm 2000 FCA Free Carrier.

3. Not applicable

4. Exchange Rate Fluctuation

4.1. Unless otherwise specified in the bid solicitation, bids must be in Canadian currency.

4.2. Bidders may request Canada to assume the risk for exchange rate fluctuation. This request must be specifically made at time of bidding.

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4.3. The foreign currency component is defined as the element of the price that will be directly affected by exchange rate fluctuations. It could include the net price FOB foreign manufacturer's plant, costs associated with applicable duty, excise tax, Goods and Services Tax or Harmonized Sales Tax, if applicable, entry fees, transportation costs or delivery charges payable in a foreign currency, and any other charges associated with being the importer of record if they originated from and are required to be paid in a foreign currency.

4.4. The foreign value of the foreign currency component of the bid or negotiated price must be provided in the bid. The form in APPENDIX 1 to Annex AB to Volume 3 Claim for Exchange Rate Adjustments, may be used for this purpose. If milestone payments are proposed, it is recommended to indicate on the above form the foreign currency component associated with each milestone event.

4.5. All bids are evaluated in Canadian currency. Therefore, for evaluation purposes, the noon rate quoted by the Bank of Canada as being in effect on date of bid closing, or such other date as may be specified in the bid solicitation, will be applied as the initial conversion factor for the specified currency.

4.6. Rates proposed by bidders will not be accepted for the purposes of this exchange rate adjustment provision. Therefore, the rates proposed by bidders in Column F of the form in APPENDIX 1 to Annex AB to Volume 3 Claim for Exchange Rate Adjustments will be changed as per paragraph 4.5 of this annex.

4.7. If there are two (2) identical bids, and provided that the bid selected would still be considered the most advantageous to Canada, preference will be given to the Bidder who assumes all or part of the exchange rate adjustment risk over a bidder who does not assume any of this risk. Furthermore, preference will be given to the Bidder who assumes all of the exchange rate adjustment risk over a bidder who assumes only part of this risk.

4.8. Canada will pay the exchange rate adjustment amount in Canadian currency in accordance with RFP article 6.3 to Volume 3.

5. Economic Price Adjustment

5.1. Economic price adjustments shall be in accordance with RFP article 6.6 to Volume 3.

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6. FBPS preset QTY (column A):

6.1. The preset QTY (column A) corresponds to a workload for the entire contract period that is 5 years. The values found in column A (QTY) opposite to all ISS-OWSS FBPS sub-items, except for Part 1 items 2.0 and 3.0 do not represent a commitment that Canada's future usage of these items will be consistent with these values. It is provided only for the purpose of financial bid evaluation and project financial value estimation.

7. Not applicable

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8. PROCEDURES ON HOW TO FILL-IN THE RFP Part 1 to Annex AB to Volume 3 Resulting Contract:

Go to RFP Part 1 to Annex AB to Volume 3.

8.1. Exchange rate fluctuation:

8.1.1. If the Bidder requests Canada to assume the risk for exchange rate fluctuation, read the paragraph 9 of this annex before going to paragraph 8.2 hereunder. Also read the paragraph 4 of this annex and RFP article 6.3 to Volume 3.

8.2. Economic Price Adjustment:

8.2.1. The columns B2 to B5 will be filled-in by the Contracting Authority during the contract period. The prices in columns B2 to B5 will be calculated in accordance with RFP article 6.6 to Volume 3.

8.3. Item 4.0 “In-Plant Repair”:

8.3.1. Normal business hours:

8.3.1.1. The Bidders must quote a blended Firm Hourly Rate for the repair services. The Bidders have the opportunity to provide more than one blended Firm Hourly Rates for the repair services. The Bidders must only provide blended Firm Hourly Rates in function of Line Replaceable Units. A blended rate is an average In-Plant Repair Firm Hourly Rate applied to the numbers of hours of repair of an item whatever repair department it come from. The bidder can insert as many as 20 rates. Provide the Line Replaceable Units designation for each of the blended Firm Hourly Rates.

8.3.1.2. Insert your quoted blended Firm Hourly Rates for Normal business hours into column B1 opposite to each Line Replaceable Units.

8.3.2. Outside normal business hours (Monday to Friday) and (Saturday and Sunday):

8.3.2.1. Insert your quoted overtime premium for Outside normal business hours into column A opposite to sub-items. Your quoted overtime premium should be equal or greater than 1.

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8.4. Item 6.0 “Support Services”:

8.4.1. Normal business hours:

8.4.1.1. Under FBPS item 6.1, Bidders must provide all the labour categories identified as sub-items.

8.4.1.2. Under FBPS item 6.1, insert your quoted Firm Hourly Rates for Normal business hours into column B1 opposite to all sub-items (labour category).

8.4.2. Outside normal business hours (Monday to Friday) and (Saturday and Sunday):

8.4.2.1. Insert your quoted overtime premium for Outside normal business hours into column A opposite to sub-items. Your quoted overtime premium should be equal or greater than 1.

8.5. Item 9.0 “ISS-OWSS ISS Spare Parts”:

8.5.1 Context:

8.5.1.1. In order for Canada to maximize competition amongst bidders with regard to the prices of Spare Parts, the RFP ISS-A FBPS item 13.0 to Part 2 to annex AB to Volume 2 has been duplicated in part into ISS-OWSS FBPS item 9.0, the Firm Unit Prices quoted by the bidder under item 9.0 will be evaluated by simulating the purchase of a fictitious quantity of 1680 ISS P(Prod) equivalent, using spares. The bidder must populate the sub-items 9.1 to 9.4 as requested, like it did with RFP ISS-A FBPS sub-items 13.1 to 13.4 to Part 2 to annex AB to Volume 2.

8.5.1.2. The bidder quoted prices in item 9.0 will be used by Canada for financial bid evaluation purposes and they will be contractually binding. Canada will compare the sub-items in item 9.0 list with the RFP ISS-A FBPS sub-items 13.1 to 13.4 to Part 2 to annex AB to Volume 2. If it is found that some requested sub-items, including price, in item 9.0 are missing, the missing sub-items will be added by Canada to 9.0 using the description and Firm Unit Prices in RFP ISS-A FBPS sub-items 13.1 to 13.4 to Part 2 to annex AB to Volume 2 for financial bid evaluation purposes and they will be contractually binding.

8.5.2. The instructions for the submission of prices for the sub-items 9.1 to 9.4 are at RFP paragraph 9.3 to annex AB to Volume 1.

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8.6. Item 14.0 “ISS-OWSS WORK TOTAL BID PRICE”:

8.6.1. We now have the value of the Bidder’s bid price for the eventual ISS-OWSS Contract, Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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9.0 PROCEDURES ON HOW TO FILL-IN THE RFP APPENDIX 1 (Claim for Exchange Rate Adjustments) to Annex AB to Volume 3 Resulting Contract:

9.1. For any of the items into RFP Annex AB FBPS to Volume 3, if there is no Foreign Currency Components (FCC), do not insert the item into the RFP APPENDIX 1 “Claim for Exchange Rate Adjustments” to Annex AB to Volume 3.

9.2. For any of the items into RFP Annex AB FBPS to Volume 3, if there is a FCC, please read the following instructions:

9.2.1 Read the paragraph 4 of this annex and RFP article 6.3 to Volume 3 and then Go to RFP APPENDIX 1 “Claim for Exchange Rate Adjustments” to Annex AB FBPS to Volume 3.

9.2.2. Economic Price Adjustment:

9.2.2.1. The columns D2 to D5, G2 to G5 and B2 to B5 are reserved for after contract award. The prices in these columns will be calculated in accordance with RFP article 6.6 to Volume 3.

9.2.3. For the item for which the Bidder requests Canada to assume the risk for exchange rate fluctuation, insert its description into the column “ITEM’S DESCRIPTIONS”.

9.2.4. Opposite to item “a)”:

9.2.4.1. Insert the quote for the Canadian Currency Component (CCC) item “a)”, if any, into column D1.

9.2.4.2. Insert a Canadian currency identifier into column E;

9.2.4.3. Insert the number one (1) as currency conversion factor into column F;

9.2.4.4. Insert the converted CCC into Canadian Currency, into the column G1. The column G1 is equal to column D1 multiplied by column F.

9.2.5. Opposite to item “b)”:

9.2.5.1. Insert the quote for the Foreign Currency Components (FCC), item “b)” into column D1;

9.2.5.2. Insert a Foreign currency identifier into column E;

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9.2.5.3. Insert a currency conversion factor into column F. Please note that for bid evaluation purposes, PWGSC will change the conversion factor provided by the Bidders with the rate (noon) quoted by the Bank of Canada as being in effect on date of bid closing;

9.2.5.4. Insert the converted FCC into Canadian Currency, into the column G1. The column G1 is equal to column D1 multiplied by column F.

9.2.5.5. If there are multiple currencies for an FBPS item, subdivide the FCC, item “b)”, into “i)”, “ii)” etc..., and repeat the steps under this annex paragraphs 9.2.5.1 to 9.2.5.4 as many time as it is required.

9.2.6. Under the item’s main description, insert the sum of all the “Extended Price” from CCC (item “a)” and FCC, item “b)”, from column G1, into the space in column B1 opposite to item’s main description. We now have the value of the item’s quoted price in Canadian dollars, Goods and Services Tax or Harmonized Sales Tax is extra, if applicable;

9.2.7. The item’s quoted price in Canadian dollars can now be copied and pasted into the column B1 of the RFP Annex AB Main body to Volume 3.

9.2.8. The content that is provided with the RFP APPENDIX 1 to annex AB to Volume 3 is provided as example only. The bidder can insert as many items as required.

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ANNEX AD to Volume 1

Certifications Template

1. This annex contains the certifications template listed in the RFP Part 5 to Volume 1. The Certifications can be found as follow:

- Appendix 1 Federal Contractors Program - \$200,000 or more
- Appendix 2 Missing Certified Data Form (If applicable)
- Appendix 3 Software Publisher Certification (If applicable)
- Appendix 4 Software Publisher Confirmation (If applicable)
- Appendix 5 Open Source Software Certification (If applicable)

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Federal Contractors Program - \$200,000 or more

1. The Federal Contractors Program (FCP) requires that some suppliers, including a supplier who is a member of a joint venture, bidding for federal government contracts, valued at \$200,000 or more (including all applicable taxes), make a formal commitment to implement employment equity. This is a condition precedent to contract award. If the Bidder, or, if the Bidder is a joint venture and if any member of the joint venture, is subject to the FCP, evidence of its commitment must be provided before the award of the Contract.

Suppliers who have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

2. If the Bidder does not fall within the exceptions enumerated in 3.(a) or (b) below, or does not have a valid certificate number confirming its adherence to the FCP, the Bidder must fax (819-953-8768) a copy of the signed form LAB 1168, Certificate of Commitment to Implement Employment Equity, to the Labour Branch of HRSDC.
3. The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- (a) () is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- (b) () is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;

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- (c) () is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC (having not bid on requirements of \$200,000 or more), in which case a duly signed certificate of commitment is attached;
- (d) () is subject to the FCP, and has a valid certificate number as follows:
_____ (e.g. has not been declared an ineligible contractor by HRSDC.)

Further information on the [FCP](#) is available on the HRSDC Web site.

ANNEX AD to Volume 1 (Cont'd)

Appendix 2

Missing Certified Data Form

I, _____, authorized to act on behalf of _____ located at
(Name of Bidders' authorized officer in print) (Name of Bidder in print)

_____ hereby certify that the referenced data listed in the attached

(Address in print)

Table _____ exists but is classified and could not be included in _____'s

(Table number in print)

(Name of Bidder in print)

proposal by reason of the security requirements of _____. I further certify that, within 30

(name of country in print)

calendar days of a written request from the Contracting Authority, the DND Technical Authority and/or his representative(s) shall be given access to this data for verification. Access shall be provided at any time during the period of 365 calendar days after the bid closing date.

All data shall be provided in either English or French at the time access is given. Access to this data shall be provided at the DND ISSP PMO unless otherwise authorized by the Contracting Authority. If access to the Data cannot be provided at the ISSP PMO, _____ the Bidder, by submission of a bid agrees that it will

(Name of Bidder in print)

reimburse Canada the reasonable travel and living expenses required for the DND TA and/or his representatives to travel to a location where _____ can provide access.

(Name of Bidder in print)

If direct access to Canadian officials cannot be provided, review of all relevant data shall be permitted by official representatives from the Bidder's government who in turn shall confirm to the Canadian government the validity of the supporting data.

The Bidders shall indicate in their bids whether direct access to Canadian representatives will be provided or to officials of their government. In the latter case, the Bidders must indicate their government organization/department that will be granted access along with a formal written confirmation from this organization/department that such review will be completed at Canada's request.

Corporate Seal

(Name of Bidders' authorized officer in print)

(Title of Bidders' authorized officer in print)

(Date in print)

(Signature of Bidders' authorized officer)

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Appendix 3

Software Publisher Certification

The Bidder certifies that it is the Software Publisher of the proprietary software product(s) listed below and accordingly owns all the rights necessary to perform any contract resulting from this solicitation:

(NOTE: Bidders should add or remove lines as needed)

Name of bidder:

Per: _____
(Name and Title)

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ANNEX AD to Volume 1 (Cont'd) **Appendix 4**

Software Publisher Confirmation

The Software Publisher identified below confirms that it has provided to the Bidder all rights, or made all arrangements with the Bidder, with respect to the proprietary software product(s) listed below necessary to perform any contract resulting from this solicitation.

This confirmation applies to the following software product:

_____;

Name of Software Publisher (SP) _____

Signature of authorized signatory of SP _____

Print Name of authorized signatory of SP _____

Print Title of authorized signatory of SP _____

Address for authorized signatory of SP _____

Telephone no. for authorized signatory of SP _____

Fax no. for authorized signatory of SP _____

Date signed _____

Solicitation Number _____ W8476-112965/B _____

Name of Bidder _____

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Appendix 5

Open Source Software Certification

The Bidder certifies that it has all rights, or made all arrangements, with respect to the Open Source Software product(s) listed below that are necessary to perform any contract resulting from this solicitation:

(NOTE: Bidders should add or remove lines as needed)

Name of bidder:

Per: _____
(Name and Title)

ANNEX AE to Volume 1

Cost-per-Point Calculation

This annex contains the methodology to calculate the Bidder cost-per-point for the Integrated Soldier System Acquisition (ISS-OWSS) and ISS Optimized Weapon System Support (ISS-OWSS) requirements.

1. Cost-per-Point:

The Bidder cost-per-point is determined by dividing the “ISSP WORK TOTAL BID PRICE” by the “Overall Score Grand Total”.

2. ISSP WORK TOTAL BID PRICE:

The “ISSP WORK TOTAL BID PRICE” is calculated as follows:

ISSP WORK TOTAL BID PRICE =

ISS-A WORK TOTAL BID PRICE at “RFP item 7.0 to Appendix 1(Purchase of Optional Quantities) to Annex AB to Volume 2” +

ISS-OWSS WORK TOTAL BID PRICE at “RFP item 14.0 to Annex AB to Volume 3”

3. Overall Score Grand Total:

The “Overall Score Grand Total” is the score found at RFP paragraph 5 to Annex CJ to Volume 1.

ANNEX AF to Volume 1

NON-DISCLOSURE AGREEMENT

INTEGRATED SOLDIER SYSTEM PROJECT (ISSP)

This Agreement made in duplicate this _____ day of _____ 201__.
(Day) (Month) (Year)

BETWEEN Her Majesty the Queen in Right of Canada as Represented by the Minister of Public Works and Government Services (the "Crown")

AND _____ receiving the unclassified
(Full legal name of organization in print)
information as constituted pursuant to the laws of _____ and having a
(Insert laws in print)
place of business at _____ (the "Recipient").
(Complete address in print)

Whereas the Crown has issued a Request for Proposal (RFP) No. W8476-112965/A, to solicit proposals for the Integrated Soldier System Project (ISSP);

Whereas in accordance with the provisions of the RFP the Crown has provided for the disclosure of certain information listed in Appendix 1 to this Non-Disclosure Agreement ("Information"); and

Whereas the Recipient wishes to receive the Information solely for the purpose of preparing a proposal in response to the ISSP RFP;

Therefore, in consideration of the premises and the mutual promises, conditions and agreements of this Agreement the Parties hereto agree as follows:

1. Subject to the terms and conditions of this Agreement the Crown agrees to disclose the Information to the Recipient on an as requested basis.
2. The Recipient agrees that it shall use the Information solely for the purpose of preparing a proposal in response to the ISSP RFP and for no other purpose.
3. The Recipient acknowledges that the Information may be subject to certain proprietary rights belonging to various parties and shall not be used by the Recipient or disclosed to anyone at anytime except for the purposes of, and in accordance with, this Agreement and for no other purpose and shall ensure that its personnel do likewise.

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4. The Recipient shall not disclose the Information to anyone unless and until the proposed recipient has signed an agreement in terms identical to this Agreement with the necessary changes to reflect names, addresses, offices and the like. Such disclosure shall be made only to a recipient with a need to know and solely for the purposes of the preparation of a proposal in response to the ISSP RFP.
5. The Recipient shall not copy, reproduce or otherwise duplicate the Information or any information reflecting the Information in whole or in part or allow others to do so for any purposes other than the preparation of a bid in response to this ISSP RFP unless the Crown has given its express, prior, written approval.
6. Whether in storage or in use, the information shall be protected by the Recipient with the same degree of care as the Recipient uses to protect its own proprietary intellectual property of like importance against public disclosure, but in no case any less than reasonable care.
7. The Recipient shall return the Information to the Contracting Authority when it is no longer required for the preparation of a proposal in response to the ISSP RFP, when required by the Crown to do so, or with its proposal. In like fashion the Recipient shall return any copies it may have been allowed to make which are in a media that is capable of being sent with the proposal, shall destroy any other copies or any information reflecting the Information on any media whatsoever, and shall ensure that anyone to whom the Information has been divulged do likewise. Those who do not submit a proposal must nevertheless comply with this paragraph by the Closing Date of the ISSP RFP.
8. The obligations herein contained shall survive the submission of a bid and the performance of any contract awarded and shall continue thereafter in full force and effect.
9. This Agreement shall be interpreted, and the relationship of the parties be determined, in accordance with the laws in force in the province of _____ (*NOTE: Bidders may, at their discretion, choose the applicable laws of a Canadian province or territory of their choice*) in Canada.

IN WITNESS THEREOF, this Agreement has been executed by duly authorized officers of

 (Name of Recipient in print)
(NOTE: Insert name of recipient in print)

Per: _____
 (Name of duly authorized officer in print)

 (Signature of duly authorized officer)

 (Title of duly authorized officer in print)

 (Date in print)

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NON-DISCLOSURE AGREEMENT

INTEGRATED SOLDIER SYSTEM PROJECT (ISSP)

Appendix 1

Applicable Document Reference Listing

<u>Item</u>	<u>Reference</u>	<u>Title</u>
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MODULE B

TO

VOLUME 1

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ANNEX BA to Volume 1

“Section V – ISS-A Industrial and Regional Benefits (IRB) Bid” Preparation Instructions and Evaluation Plan

This annex provides bidders with instructions on how to prepare their proposal “Section V – ISS-A Industrial and Regional Benefits (IRB) Bid” for the Integrated Soldier System Acquisition (ISS-A) (Volume 2 Resulting Contract).

The Request for Proposal (RFP) Annex BA to Volume 1 contains all information required to assess Bidders’ compliance with the IRB requirements. Bidders must submit their IRB proposal (Section V) in accordance with the instructions contained herein.

This annex also contains the evaluation criteria that will be used to assess the Bidders proposal “Section V – ISS-A Industrial and Regional Benefits (IRB) Bid” for the Integrated Soldier System Acquisition (ISS-A) (Volume 2 Resulting Contract). Any proposal that does not meet the Mandatory IRB Requirements found herein will be declared non-compliant.

The bidder’s proposal for “Section V – ISS-A IRB Bid” for the Integrated Soldier System Acquisition (ISS-A) (Volume 2 Resulting Contract) will become the bidder’s IRB commitment at contract award.

1.0 INTRODUCTION

- 1.1. It is the intent of the Canadian Government, (referred to herein as “Canada”) that this project provide Industrial and Regional Benefits (IRB) that will contribute to the continuing viability of Canadian companies’ capabilities in high technology manufacturing and services and to improve their ability to compete in both domestic and international markets.
- 1.2. Canada’s objectives recognize the importance of IRB in procurement and therefore they will be a factor to be evaluated in the awarding of the contract.
- 1.3. Any proposal that does not meet the Mandatory IRB Requirements found in Section 5 of this document will be declared non-compliant.
- 1.4. It is the responsibility of the Industry Canada IRB Authority, in cooperation with the Atlantic Canada Opportunities Agency (ACOA), the Department of Western Economic Diversification (WD), and the Department of Canadian Economic Development - Quebec (CED-Q), to ensure that IRB Commitments are included in any procurement contract entered into as a result of this Request for Proposal (RFP).

2.0 GENERAL INSTRUCTIONS

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- 2.1. In responding to the IRB requirements of this RFP, the Bidder is advised to prepare its IRB proposal and individual Transactions using the IRB Requirements detailed in the Resulting Contract volumes of the RFP (Module B of Volume 2).
- 2.2. Definitions and contractual provisions related to the IRB Policy are also found in Module B of Volume 2 Resulting Contract.
- 2.3. The Bidder must prepare and submit an IRB proposal. The proposal must be fully responsive to the requirements stated in this RFP.
- 2.4. The Bidder must identify all IRB Transactions (including unallocated) that comprise the dollar value of their "ISS-A WORK TOTAL BID PRICE" (identified in the RFP Appendix 1 to Annex AB to Volume 2, item 7.0 "ISS-A WORK TOTAL BID PRICE.") The portion of identified IRB Transactions must be fully described.
- 2.5. The IRB proposal should be submitted in a separate self-contained volume. For ease of evaluation, any material contained in another section but relevant to an IRB proposal should be repeated in the latter proposal.
- 2.6. Six (6) hard copies and four (4) electronic copies (in Microsoft Word) of each IRB proposal are requested.
- 2.7. The IRB commitments associated with each option included in the bid package must be clearly and separately identified. It must be clear to the IRB Evaluation Team what additional IRB are being offered, if the Crown were to consider the various options addressed in the RFP.

3.0 CANADA'S INDUSTRIAL AND REGIONAL BENEFITS OBJECTIVES

- 3.1. The Bidder's IRB submission should clearly indicate how the business activities associated with its IRB Proposal will be achieved if it wins this contract. The optimum IRB Proposal will result in the creation and exploitation of capabilities, knowledge, technologies and markets of lasting benefits to Canadian industry.
- 3.2. Proposed IRB activities with a Canadian company should result in the enhancement of Canadian capability to undertake other work of a similar nature, including gaining access to export markets. It should make a positive contribution to the continuing viability, growth and development of the Canadian recipient of the IRB and its subcontractors.
- 3.3. The regional development objectives of Canada are to encourage long term quality improvements to the capability, capacity, international competitiveness and growth potential of Canadian firms in those regions where Canada has established specific initiatives to promote economic growth and diversification through procurement. These Designated regions include Atlantic (Newfoundland & Labrador, New Brunswick, Nova Scotia and Prince Edward Island), Quebec, Northern Ontario and the West (British

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Columbia, Alberta, Saskatchewan and Manitoba). IRB Transactions proposed by the Bidder in support of Regional Development will be assessed on this project.

- 3.4. It is the objective of Canada to encourage the participation of Canadian small and medium businesses as suppliers on major federal procurements and to increase their export market access. IRB Transactions proposed to be undertaken by the Bidder in support of small and medium business supplier development and subcontracting will be assessed on this project.
- 3.5. Canadian industry should receive, when possible, the maximum high quality, low risk, Direct Benefits associated with the delivery of the Work contained in the Statements of Work in this RFP.
- 3.6. In addition, Canadian industry must receive high quality, low risk, Indirect Benefits, generally of the same level of technology or higher as the Direct Benefits;
- 3.7. Canadian industry in all Regions of Canada are expected to benefit from the Integrated Soldier System Project; and
- 3.8. Canadian Small and Medium Business is expected to benefit from the Integrated Soldier System Project.

4.0 IRB TRANSACTIONS

- 4.1. The business activities proposed in support of the objectives outlined above must be in the form of specific IRB Transactions. An IRB Transaction is a work package, which will become a contractual obligation of the Contractor. There are two types of IRB Transactions: Direct IRB Transactions and Indirect IRB Transactions. Eligible areas of involvement include, but are not limited to, hardware and software, project management, systems design, engineering and integration, programming and independent validation and verification, installation engineering and site installation.

4.1.1. Direct IRB Transactions

- 4.1.1.1. Direct IRB Transactions are those achieved through the provision of the goods and services required to deliver the Integrated Soldier System or achieved through the provision of goods and/or services on approved Global Value Chain (GVC) platforms.
- 4.1.1.2. Canadian resources should be utilized to the maximum extent possible to develop, produce, integrate, deliver and support the Integrated Soldier System.
- 4.1.1.3. An eligible Global Value Chain (GVC) platform must be similar to the platform being proposed for the Integrated Soldier System Project (ISS Project), have a market potential (measured by market size and longevity) equal to or greater

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than the platform proposed for the ISS Project, and one that offers significant opportunities for technological advancement, growth in the level of system integration, small and medium-sized business (SME) participation, and have large-scale and sustainable acquisition and/or sustainment opportunities.

- 4.1.1.3.1. Activities associated with GVC platforms include, but are not limited to, pre-commercialization activities (e.g. collaborative technology development and demonstration projects), production activities (e.g. definition, design, and manufacturing) and In-Service Support activities.

4.1.2. Indirect IRB Transactions

- 4.1.2.1. Indirect IRB Transactions are those achieved through business activities or IRB Transactions not related to the Integrated Soldier System Project generated by the Contractor or other Eligible Parties.
- 4.1.2.2. These Indirect Transactions proposed by the Contractor should comprise advanced technology products or skills transfers or services comparable or higher in nature and level of complexity to the Direct Work involved in the Integrated Soldier System Project that will result in long-term export sales or import replacement by, and lasting benefit to Canadian companies.
- 4.1.3. Any business activity proposed as an IRB Transaction in support of Canada's IRB objectives will only be considered, if it meets the Eligibility Criteria provided in Module B to Volume 2 Resulting Contract. These criteria will be used in evaluating the proposal submitted in response to this RFP and will form the basis for any ensuing Contract. The IRB Authority reserves the right to seek validation of the IRB Eligibility Criteria, along with the additional criteria associated with Global Value Chain (GVC) and/or the Enhanced Priority Technology List (EPTL), for any or all proposed IRB Transactions within one year of Contract award. Should any IRB Transactions be found to not meet the IRB Eligibility Criteria, the Transaction will be not be eligible for IRB credit and a substitute Transaction will be sought from the Contractor. Should any IRB Transaction meeting the IRB Eligibility Criteria but no the GVC or EPTL criteria, the IRB Transaction will be eligible, but it will not be used towards fulfilling the particular GVC or EPTL requirements.

5.0 IRB MANDATORY REQUIREMENTS

- 5.1. There are eight mandatory requirements that the Bidder must meet. The omission of any part of the following eight requirements will result in the IRB proposal being declared non-compliant such that the Bidder's complete bid package will not be evaluated:
 - 5.1.1. Requirement One: The Bidder's IRB proposal must equal a minimum of 100% of the "ISS-A WORK TOTAL BID PRICE" (identified in the RFP Appendix 1 to Annex AB to

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Volume 2, item 7.0 “ISS-A WORK TOTAL BID PRICE”), measured in Canadian Content Value (CCV), to be achieved within the period beginning May 29, 2009 and ending six (6) years after the Effective Date of Contract. For the winning bidder, the amount proposed will become the IRB Commitment Value which must be achieved under the pursuant contract. The Bidder must also match the “ISS-A WORK TOTAL BID PRICE” (identified in the RFP Appendix 1 to Annex AB to Volume 2, item 7.0 “ISS-A WORK TOTAL BID PRICE”) of any contract options with an equal amount of IRB, measured in CCV.

- 5.1.2. Requirement Two: In its IRB Proposal due at bid closing, the Bidder must identify acceptable IRB Transactions which are detailed, fully described and equal in total to a minimum of 30% of the “ISS-A WORK TOTAL BID PRICE” (identified in the RFP Appendix 1 to Annex AB to Volume 2, item 7.0 “ISS-A WORK TOTAL BID PRICE”), measured in CCV. The Bidder must also commit to identifying, no later than one (1) year after contract award, additional acceptable IRB Transactions which are detailed, fully described and bring the cumulative total of identified acceptable IRB Transactions to a minimum of 60% of the contract value, measured in CCV. The Bidder must also commit to identifying, three (3) years after contract award, additional acceptable IRB Transactions which are detailed, fully described and bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV.
- 5.1.3. Requirement Three: The Bidder must commit to a minimum of 15% Small and Medium size Businesses (SMB) IRB transactions for the contract.
- 5.1.4. Requirement Four: The Bidder must commit to a minimum of Enhanced Priority Technology List (EPTL) Version 1.0 transactions equal to 5% of the contract value, measure in CCV
- 5.1.5. Requirement Five: The Bidder must accept and agree to the terms associated with a failure to meet IRB obligations (Liquidated Damages of 10% and /or holdbacks).
- 5.1.6. Requirement Six: In the evaluation of the IRB Proposal, it must achieve a minimum of 36 points for the IRB Plans and 270 points for the IRB Transactions.
- 5.1.7. Requirement Seven: The Bidder must accept the IRB Requirements detailed in the Resulting Contracts volumes.
- 5.1.8. Requirement Eight: The Bidder’s IRB Proposal must contain the following components:
 - 5.1.8.1. Executive Summary of IRB Commitment;
 - 5.1.8.2. Company Business Plan;
 - 5.1.8.3. IRB Management Plan;

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- 5.1.8.4. Regional Development Plan;
- 5.1.8.5. Small and Medium Business Development Plan;
- 5.1.8.6. Detailed IRB Transaction Sheets; and
- 5.1.8.7. IRB Compliancy Checklist

6.0 STATEMENT OF IRB WORK

The following sections detail the content of the components of the IRB Proposal referred to above in sub-article 5.1.8.

6.1. Executive Summary of IRB Commitments

- 6.1.1. The Executive Summary should include an integrated overview of the complete IRB Commitment, with cross-references, as appropriate, to the other IRB Plans specified herein that must be submitted as part of this proposal. It should clearly demonstrate how the Bidder will address the project's IRB objectives and how each of these objectives will be achieved through the proposed IRB Commitments.
- 6.1.2. The Executive Summary should provide a tabular presentation of the Bidder's IRB commitments. The presentation should include a summary of IRB Commitments (applied in CCV) by Direct, Indirect, Region, and Small and Medium Business.
- 6.1.3. The Bidder has the option of including in the Executive Summary a forecast plan of the IRB Transactions it anticipates submitting as part of the second tranche, due no later than one (1) year following contract award. This forecast plan may include information such as upcoming supplier development activities, a list of Canadian firms with whom the Bidder or its Eligible Parties are considering doing business or specific capabilities for which the Bidder or its Eligible Parties are seeking Canadian suppliers.
- 6.1.4. It should include a separate paragraph containing concise and precise statements of the Company's commitments to the mandatory requirements in paragraph 5.0.

6.2. Company Business Plan

- 6.2.1. The Bidder's Company Business Plan should outline, in general terms, the long-term impact of the award of the Contract on the Bidder and its Eligible Parties' business in Canada, and on the IRB recipients.
- 6.2.2. The Plan should include the following information on the Bidder and its Eligible Parties:
 - 6.2.2.1. a description of the decision-making process for establishing product and services responsibilities and market mandates within the company;

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- 6.2.2.2. a description of the Bidder's management of corporate functions such as strategic planning, research and development, and marketing , including the identification and location of these responsibility centers;
- 6.2.2.3. this section should also outline the Bidder and its major subcontractors' operations worldwide, including a corporate profile containing a narrative description and hierarchically ordered chart which describes each firm's present corporate structure, including parents and subsidiaries relationships. A written description of their functional interrelationships should be included containing a detailed presentation showing the existing and proposed financial arrangements between the Bidder and each of its first-tier subcontractors; and
- 6.2.2.4. an organizational chart identifying key personnel responsible to manage and deliver the project.
- 6.2.3. The Plan should include the following information on the IRB Recipients:
 - 6.2.3.1. the impact of the award on existing and new areas of business; and
 - 6.2.3.2. a description of how the award of major sub-contracts to Canadian companies for this project would enhance the capability of these firms to undertake other domestic and foreign programs or pursue related new business activities with similar characteristics.
- 6.3. IRB Management Plan
 - 6.3.1. The plan should describe the methods by which the Bidders will implement, manage, monitor and report progress on its IRB activities towards achievement of the proposed IRB Transactions.
 - 6.3.2. The plan should include but not be limited to identification of all the IRB management functions and the associated organization required to fulfill the proposed IRB commitments during the contract period. The description of the IRB program management organization should include but need not be limited to the following:
 - 6.3.2.1. an organization chart identifying key personnel responsible for IRB management functions;
 - 6.3.2.2. a list of the proposed Eligible Parties, including the name, address and phone number of the respective IRB contact; (Note: Eligible Parties are subject to approval by IRB Authority. As such, bidders are encouraged to review the definition of Eligible Party within Module B to Volume 2 Resulting Contracts).
 - 6.3.2.3. a description of the facilities and resources assigned to this program;

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- 6.3.2.4. an explanation of how IRB considerations will be factored into the decision making process, and the mandates and/or responsibilities of the specific organizations that must implement IRB; and
- 6.3.2.5. a description of the methods and procedures that will be employed to identify, track and report IRB Commitments.
- 6.3.3. The plan will be used to assess the Bidder's ability to manage and deliver an acceptable IRB package.
- 6.4. Regional Development Plan
 - 6.4.1. The Regional Development Plan should provide, in as much detail as possible:
 - 6.4.1.1. the efforts made and the approaches to be followed in order to achieve optimum distribution of the IRB to the Designated Regions; and
 - 6.4.1.2. the level of CCV and the percentage of total CCV, that the Bidder has committed to in the Designated Regions of Canada, for both Direct and Indirect IRB Transactions;
 - 6.4.2. The individual IRB Transactions Sheets will be used to support this requirement and should be cross referenced to this Plan.
- 6.5. Small and Medium Business Development Plan
 - 6.5.1. The Small and Medium Business Development Plan should provide in as much detail as possible:
 - 6.5.1.1. Identification of small and medium business subcontractors that will be participating in the proposal and a description of their participation and the Canadian Content Value contributed to the project; and
 - 6.5.1.2. Identification of opportunities, assistance and encouragement that the Bidder will provide to stimulate and promote small and medium business both as potential suppliers to the project and for their general development.
 - 6.5.2. The Detailed IRB Transaction Sheets will be used to satisfy this requirement and should be cross referenced to this Plan.
- 6.6. Detailed IRB Transaction Sheets
 - 6.6.1. Each IRB proposal must provide complete information on each IRB Transaction that the Bidder proposes to provide to Canada and for which it is prepared to commit contractually. The content of the IRB proposal will form the basis for the IRB Commitments to be specified in the Contract. A separate sheet is to be completed for

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each proposed IRB Transaction, detailing the particulars of the given activity. These details are as follows:

- 6.6.1.1. IRB Transaction Identifier Number - each IRB Transaction should be assigned a unique number, in sequential order, for reference purposes;
- 6.6.1.2. IRB Donor (company providing IRB) and Recipient (company receiving IRB) contact information;
- 6.6.1.3. Transaction Value (Total Contract Value and Canadian Content Value);
- 6.6.1.4. IRB Classification – Direct or Indirect;
- 6.6.1.5. Industrial sector, Enhanced Priority Technology List (EPTL) and expertise of the IRB Recipient;
- 6.6.1.6. Fulsome description of the IRB Transaction Activities and Canadian Recipient Company. It will be in the Bidder's interest to fully describe the nature of the proposed IRB Transaction so it can be properly evaluated by the IRB Evaluation Team. Failure to adequately describe the nature of the work being proposed may result in the proposed IRB Transaction being disallowed. Transactions will only be evaluated on the data provided in the proposal. Bidders are advised that information received in response to a clarifying question by the Crown, will not be used to alter the proposed IRB Transaction as this would be considered bid repair, and would be unacceptable in the competitive process;
- 6.6.1.7. Region;
- 6.6.1.8. Small and Medium Business;
- 6.6.1.9. Description of the quality of the IRB transaction. In those cases where the Bidder can identify a recipient of a proposed IRB Transaction, bidders are encouraged to provide statements from the Canadian recipient(s) describing the impact that the IRB Transaction will have on the recipient's company. These statements should be appended to the applicable IRB Transaction form;
- 6.6.1.10. Description of any other Canadian Government Assistance involved in the transaction;
- 6.6.1.11. Provide and show justification for eligibility as a valid IRB Transaction (Causality, Timing, Incrementality, Eligible Party and CCV), as detailed in Article 5 of Module B to Volume 2 Resulting Contracts;

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6.6.1.12. IRB Schedule – the time phasing and cash flow for each IRB Transaction must be shown on each Detailed IRB Transaction Sheet, broken out by 12 month periods;

6.6.1.13. Liquidated Damages – (minimum - 10%);

6.6.2. Commitments of unallocated IRB are to be identified on a separate Detailed IRB Transaction Sheet..

6.6.3. A sample Detailed IRB Transaction Sheet that contains the above mentioned data is shown in Appendix BA3 of Volume 2 Resulting Contract.

6.7. IRB Compliancy Checklist

Bidders are required to submit with their proposal an IRB Compliancy Checklist that confirms that all mandatory requirements to this RFP have been met. The compliancy checklist must include the information shown in the following table:

Mandatory Requirements - Compliancy Checklist		
	<u>Met</u>	<u>Not Met</u>
1. The Canadian Content Value of the IRB proposal equals a minimum of 100% of the bid price, without optional work, identified in the RFP Part 1 to Annex AB to Volume 2, item 7.0 "ISS-A PHASE A WORK BID PRICE."	_____	_____
Without optional work, the Bid Price is:	\$ _____	
The Canadian Content Value of the IRB proposal equals a minimum of 100% of the bid price, with optional work, identified in the RFP Appendix 1 to Annex AB to Volume 2, item 7.0 "ISS-A WORK TOTAL BID PRICE."	_____	_____
With optional work, the bid price is:	\$ _____	
2. In its IRB Proposal due at bid closing, the Bidder must identify acceptable IRB Transactions which are detailed, fully described and equal in total to a minimum of 30% of the "ISS-A WORK TOTAL BID PRICE" (identified in the RFP Appendix 1 to	_____	_____

Mandatory Requirements - Compliancy Checklist

Annex AB to Volume 2, item 7.0 "ISS-A WORK TOTAL BID PRICE"), measured in CCV. The bidder must also commit to identifying, no later than one (1) year after contract award, additional acceptable IRB Transactions which are detailed, fully described and bring the cumulative total of identified acceptable IRB Transactions to a minimum of 60% of the contract value, measured in CCV. The bidder must also commit to identifying, three (3) years after contract award, additional acceptable IRB Transactions which are detailed, fully described and bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV.		
3. The Bidder must commit to a minimum of 15% Small and Medium size Businesses (SMB) IRB transactions for the contract.	_____	_____
4. The Bidder must commit to a minimum of EPTL Version 1.0 transactions equal to 5% of the contract value, measured in CCV	_____	_____
5. Accepts and agrees to the terms associated with a failure to meet IRB obligations (Liquidated Damages of 10%).	_____	_____
6. The IRB proposal, has reached a minimum evaluation score of 36 points for the IRB Plans and 270 points for the IRB Transactions.	_____	_____
7. Accepted Terms & Conditions of IRB Requirement in Module B of the Resulting Contract volumes.	_____	_____
8. IRB Proposals must contain the following components:		
Executive Summary;	_____	_____
Company Business Plan;	_____	_____

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Mandatory Requirements - Compliancy Checklist

IRB Management Plan;	_____	_____
Regional Development Plan;	_____	_____
Small Business Development Plan;	_____	_____
Detailed IRB Transaction Sheets.	_____	_____

7.0 BANKING

- 7.1. Bidders may apply Banked IRB transactions as part of their proposal. These transactions will be evaluated using the same methodology described in section 9.0, IRB Evaluation Plan in Module B to Volume 1.
- 7.2. Bidder must provide a signed letter of acceptance from Industry Canada indicating that the banking transaction is valid.
- 7.3. Banked IRB Transactions included in this proposal must be whole (not portions of) Transactions. Each transaction must clearly state that it is a Banked IRB Transaction. The Banked IRB Transaction must contain the exact information as submitted to the IRB Bank.
- 7.4. If the Detailed IRB Transaction Sheet is not clearly marked or the banked transaction is different then the transaction in the IRB Bank, the proposed IRB Transaction may be rejected.
- 7.5. If a Banked IRB Transaction is used as part of a Bidder's proposal, the Evaluation Committee will consider the transaction as approved for meeting the IRB Eligibility Criteria. However, the Transaction will be evaluated on a quality and risk score as stated in section 9.0, IRB Evaluation Plan in Module B to Volume 1.
- 7.6. As a part of this proposal, Bidders may submit Banked IRB Transactions with a cumulative value up to a maximum of 15% of the "ISS-A WORK TOTAL BID PRICE" (identified in the RFP Appendix 1 to Annex AB to Volume 2, item 7.0 "ISS-A WORK TOTAL BID PRICE"). Any value above this threshold will not be evaluated.

8.0 Enhanced Priority Technology List

- 8.1. Bidders must commit to identifying and achieving, over the IRB Achievement Period, IRB transactions in technology areas specific in the EPTL Version 1.0 (Appendix BA4 of

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Volume 2 Resulting Contract), which equal at least 5% of the contract value, measured in CCV.

- 8.2. Bidders should fully describe and document in their IRB proposals how any proposed EPTL transactions are: relevant to the EPTL Version 1.0; and, of a unique and/or transformational nature to existing global product offerings. Bidders should note that any proposed EPTL transaction must meet the IRB Eligibility Criteria, outlined in Article 5 of Module B Volume 2 Resulting Contract.
- 8.3. Bidders may choose to include a banked EPTL-related transaction in their IRB Proposal for this ISS Project. (*See Clause 7 - Banking*). With respect to a banked EPTL transaction, the Version of the EPTL which was in effect at the time of the transaction's acceptance into the IRB Bank may be different than the version applicable to this ISS Project. In that case, the banked EPTL transaction can nonetheless be counted towards the EPTL requirement on this ISS Project.
- 8.4. The IRB Authority is the single point of contact between industry and government regarding the EPTL. All enquiries regarding the EPTL contents should be directed to the IRB Authority, through the PWGSC Contracting Authority.

9.0 IRB EVALUATION PLAN

9.1. Introduction

- 9.1.1. IRB Overview: As part of the evaluation of the proposal, the IRB aspects will be evaluated to ensure they meet the mandatory requirements. The results of this evaluation will then be integrated (on a pass/fail basis) into the evaluations conducted by Public Works and Government Services Canada (PWGSC) and the Department of National Defence (DND).
- 9.1.2. Purpose: The purpose of this IRB Evaluation Plan is to describe the organization, procedures and methodology for evaluating the IRB proposal submitted by the Bidder.
- 9.1.3. IRB Evaluation Plan: The IRB Evaluation Plan will assist the IRB Authority in providing Departmental input into the overall evaluation process. The results of the IRB evaluations will be used to confirm that the selected Bidder is able to satisfy the requirement to provide quality IRB consistent with Government objectives.
- 9.1.4. IRB Evaluation Team: The IRB Evaluation Team is led by the IRB Authority and may include representatives from the Regional Development Agencies.

9.2. Canada's IRB Objectives

- 9.2.1. The Government's approved IRB objectives are to encourage long-term industrial and regional development, including Small and Medium Business. A Bidder's failure to meet

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the minimum acceptable levels in the IRB evaluation of IRB proposal will result in the Bidder's ISS Project proposal being deemed non-compliant.

9.2.2. The objective of the IRB evaluation is to assess the economic benefit to Canada of the Bidder's proposal in relation to:

9.2.2.1. Ontario and the Designated Regions of Atlantic, Quebec, Northern Ontario and the West; and

9.2.2.2. Small and Medium Business.

9.2.3. This evaluation will be accomplished by:

9.2.3.1. Determining the nature of the benefits offered, their value in dollars and in terms of percentages of the ISS Project IRB commitment values;

9.2.3.2. Assessing the quality of the benefits offered as they relate to the stated IRB Objectives of the Government of Canada;

9.2.3.3. Assessing the explicit contractual commitments made by each Bidder and the enforceability of these commitments;

9.2.3.4. Determining the risk associated with the benefits being proposed;

9.2.3.5. Assessing the individual merits of the IRB proposal, based on the rating factors contained herein; and

9.2.3.6. Determining the acceptability of the proposal.

9.2.4. All proposed initiatives will be evaluated on their own merits.

9.2.5. The IRB Proposal will be evaluated to ensure that the benefits proposed meet the specified IRB Objectives, mandatory requirements, Eligibility Criteria, definitions and format. The onus is on the Bidder to:

9.2.5.1. Demonstrate that the IRB Transactions proposed for this procurement will achieve the IRB objectives outlined in Section 3;

9.2.5.2. Show how well these commitments meet the Eligibility Criteria; and

9.2.5.3. Ensure that they are backed by 10% Liquidated Damages.

9.3. Evaluation Methodology

9.3.1. The Bidder's proposal will be evaluated to verify whether the IRB mandatory requirements specified in Section 6 have been met using the following methodology.

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9.3.2. IRB Plans

- 9.3.2.1. Company Business Plan. The Company Business Plan will be evaluated to determine the ability of the Bidder to maximize the economic benefit to Canada resulting from this procurement;
- 9.3.2.2. IRB Management Plan. The IRB Management Plan will be evaluated to determine the Bidder's ability to develop, plan, implement and manage the proposed IRB program;
- 9.3.2.3. IRB Regional Development Plan. The IRB Regional Development Plan will be evaluated to determine the merits of the Bidder's ability to assist and develop business in the Designated Regions;
- 9.3.2.4. Small and Medium Business Development Plan. The Small and Medium Business Development Plan will be evaluated to determine the Bidder's ability to assist and encourage small and medium business; and
- 9.3.2.5. The objective of the IRB Plans evaluation is to determine the economic benefit to Canada specified in the IRB Plans and, therefore, will be evaluated from a qualitative and risk perspective.
- 9.3.2.6. Each IRB Plan will be evaluated using the following:
- 9.3.2.6.1. Each IRB Plan will be given a score for "Quality" and a score for "Risk";
- 9.3.2.6.2. Quality will be rated on a scale of zero (0) to five (5), using the Word Pictures in Table 9-1 (IRB Plan Quality Word Pictures);

Table 9- 1, IRB Plan Quality Word Pictures

VALUE	IRB PLAN QUALITY WORD PICTURES
5	EXCELLENT Provided all the requested information in the Statement of IRB Work (Section 6) for each individual plan. Plan is fully developed.
4	GOOD Provided all the requested information in the Statement of IRB Work (Section 6) for each individual plan. Plan is well developed.

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3	AVERAGE Provided most of the requested information in the Statement of IRB Work (Section 6) for each individual plan. Plan is reasonably well developed.
2	POOR Provided some of the requested information in the Statement of IRB Work (Section 6) for each individual plan. Plan is not well developed.
1	VERY WEAK Provided a minimum of the requested information in the Statement of IRB Work (Section 6) for each individual plan. Plan is not developed.
0	UNACCEPTABLE Provided none of the requested information in the Statement of IRB Work (Section 6) for each individual plan.

9.3.2.6.3. Risk will be rated on a scale of zero (0) to five (5), using the Word Pictures in Table 9-2 (IRB Plan Risk Word Pictures)

Table 9- 2, IRB Plan Risk Word Pictures

RISK VALUE	IRB PLAN RISK WORD PICTURES
5	EXCELLENT The IRB Plan very clearly demonstrates that all of Canada's IRB objectives (Section 3) will be fully met. Demonstrates a comprehensive depth of knowledge, capability and commitment such that the probability of failure to achieve is extremely low.
4	GOOD The IRB Plan clearly demonstrates that all of Canada's IRB objectives (Section 3) will be fully met. Demonstrates a considerable depth of knowledge, capability and commitment such that the probability of failure to achieve is low.
3	AVERAGE The IRB Plan demonstrates that most of Canada's IRB objectives (Section 3) will be fully met. Demonstrates an adequate depth of knowledge, capability and commitment such that the probability of failure to achieve

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RISK VALUE	IRB PLAN RISK WORD PICTURES
	is moderate.
2	POOR The IRB Plan demonstrates that some of Canada's IRB objectives (Section 3) will be met. Demonstrates a limited depth of knowledge, capability and commitment such that the probability of failure to achieve is significant.
1	VERY WEAK The IRB Plan does not demonstrate that any of Canada's IRB objectives (Section 3) will be met. Demonstrates an inadequate depth of knowledge, capability and commitment such that the probability of failure to achieve is likely.
0	UNACCEPTABLE No information provided, or the IRB Plan does not address the objectives in a suitable and documented manner.

9.3.2.6.4. The Quality and Risk scores for each plan will be multiplied together and the sum calculated to determine the final IRB Plans evaluation score for each proposal;

9.3.2.6.5. The minimum acceptable final IRB Proposal Plans evaluation score is thirty six (36) points for each IRB proposal. The Bidder must achieve or exceed the minimum final IRB Proposal Plans evaluation score. The maximum score is one hundred (100) points.

EXAMPLE:

Plan	Quality Score (1)	Risk Score (2)	Plan Score (3) (3) = (1) * (2)
IRB Company Business Plan	4	3	12
IRB Management Plan	3	3	9
Regional Development Plan	4	4	16

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Small Business Development Plan	4	2	8
Total Score (sum of Plan scores)			45

9.3.3. IRB Transactions

- 9.3.3.1. Detailed IRB Transactions. Proposed IRB Transactions will be evaluated to determine the degree to which they meet the IRB objectives detailed in the “Canada’s Industrial and Regional Benefits Objectives” section of this RFP.
- 9.3.3.2. Bidders should note that the second tranche of IRB Transactions submitted by the winning bidder no later than one (1) year following contract award, although not a part of this evaluation, will be assessed using the same methodology as described below.
- 9.3.3.3. The IRB Transactions will be evaluated to ensure the Eligibility Criteria are met for Canadian Content Value (CCV), Causality, Incrementally, Timing, and Eligible Party described in Module B to Volume 2 Resulting Contract. These criteria affect both qualitative and quantitative assessments.
- 9.3.3.4. If a proposed IRB Transaction does not fulfill the Eligibility Criteria requirements, then the specific proposed transaction will be found unacceptable, will be rejected and rated as zero (0) within the determination of overall bid acceptability.
- 9.3.3.5. The objective of the IRB Transactions evaluation is to determine the economic benefit to Canada of the transactions. The IRB Transactions proposed by the Bidder, therefore, will be evaluated from a quantitative, qualitative and risk perspective.
- 9.3.3.6. Eligible proposed IRB Transactions will be evaluated, by type (Direct or Indirect as defined in Module B of the Resulting Contract volumes), for Canadian Content Value, quality, and risk.
- 9.3.3.7. Each IRB Transaction will be evaluated using the following:
 - 9.3.3.7.1. Each proposed IRB Transaction will be evaluated to determine the Canadian Content Value (CCV) expressed in millions of Canadian dollars as defined in Module B of Volume 2 Resulting Contract;
 - 9.3.3.7.2. Each proposed IRB Transaction will be given a score for “Quality” and a score for “Risk”;

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9.3.3.7.3. Quality will be rated for each proposed IRB Transaction on a scale of zero (0) to five (5), using the Word Pictures in Table 9-3 (IRB Transaction Quality Word Pictures);

Table 9- 3, IRB Transaction Quality Word Pictures

VALUE	IRB TRANSACTION QUALITY WORD PICTURES
5	EXCELLENT Fully achieves all of Canada's IRB Objectives (Section 3) for this Project and involves an equivalent or greater level of technology.
4	GOOD Reasonably achieves all of Canada's IRB Objectives (Section 3) for this Project and involves work at similar technology levels.
3	AVERAGE Achieves most of Canada's IRB Objectives (Section 3) for this Project and involves some work with equivalent technology levels.
2	POOR Meets some of Canada's IRB Objectives (Section 3) for this Project and involves little work with equivalent technology levels.
1	VERY WEAK Meets few of Canada's IRB Objectives (Section 3) for this Project and involves no work with similar technology levels.
0	UNACCEPTABLE Fails to develop industrial capability to any level that complies with Canada's IRB objectives (Section 3).

9.3.3.7.4. Risk will be rated for each proposed IRB Transaction on a scale of zero (0) to five (5), using the Word Pictures in Table 9-4 (IRB Transaction Risk Word Pictures);

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Table 9- 4, IRB Transaction Word Pictures

RISK VALUE	IRB TRANSACTION RISK WORD PICTURES
5	EXCELLENT The IRB Transaction is fully described (Section 6) and very clearly demonstrates that all of Canada's IRB Objectives (Section 3) will be fully met. Demonstrates a comprehensive depth of knowledge, capability and commitment such that the probability of failure to achieve is extremely low.
4	GOOD The IRB Transaction is well described (Section 6) and clearly demonstrates that all of Canada's IRB Objectives (Section 3) will be fully met. Demonstrates a considerable depth of knowledge, capability and commitment such that the probability of failure to achieve is low.
3	AVERAGE The IRB Transaction is adequately described (Section 6) and demonstrates that Canada's IRB Objectives (Section 3) will be met. Demonstrates an adequate depth of knowledge, capability and commitment such that the probability of failure to achieve is moderate.
2	POOR The IRB Transaction is not well described (Section 6) and does not demonstrate that Canada's IRB Objectives (Section 3) will be met. Demonstrates a limited depth of knowledge, capability and commitment such that the probability of failure to achieve is significant.
1	VERY WEAK The IRB Transaction is very poorly described (Section 6) and does not address Canada's IRB Objectives (Section 3) in any significant manner. Demonstrates an inadequate depth of knowledge, capability and commitment such that the probability of failure to achieve is likely.
0	UNACCEPTABLE No information provided, or the IRB Plan does not address Canada's IRB Objectives (Section 3) in a suitable and documented manner.

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- 9.3.3.7.5. The score for each individual proposed IRB Transaction will be determined by multiplying the applicable CCV (in millions of Canadian dollars) times the Quality score times the Risk score for each proposed IRB Transaction;
- 9.3.3.7.6. For the Bidder's IRB proposal, the scores for all eligible proposed IRB Transactions will be totaled, divided by "ISS-A WORK TOTAL BID PRICE" (identified in the RFP Appendix 1 to Annex AB to Volume 2, item 7.0 "ISS-A WORK TOTAL BID PRICE") (or the total of the Bidder's identified IRB Transactions, whichever is greater) and multiplied by one hundred (100) to obtain the final IRB Transaction evaluation score;
- 9.3.3.7.7. For the first tranche of IRB Transactions due at bid closing, the minimum acceptable IRB Transaction evaluation score is two hundred seventy (270) points.
- 9.3.3.7.8. For the second tranche of IRB Transactions due no later than one (1) year after contract award, the point score for these Transactions will be combined with the point score from the first tranche, and taken together, the minimum acceptable IRB Transaction evaluation score is five hundred forty (540).
- 9.3.3.7.9. For the third tranche of remaining IRB Transactions due three (3) years after contract award, these will not be formally evaluated or scored, but reviewed by the IRB Authority, in consultation with the Regional Development Agencies.

EXAMPLE:

In this example the Contractor submits a work bid price of \$250M and is identifying \$80M as part of their proposal.

IRB Transaction #	CCV \$ (1)	Quality factor (2)	Risk factor (3)	IRB Trx.Score (4)=(1)*(2)*(3)
001	\$20M	3	2	120
002	\$15M	5	3	225
003	\$45M	4	5	900
Grand Total (sum of (4))				1245

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IRB Transaction rating = (Grand total/work bid price)*100 = _____

IRB Transaction rating = (1245/250)*100 = 498 points (minimum required: 270)

ANNEX BB to Volume 1

“Section IX – ISS-OWSS Industrial and Regional Benefits (IRB) Bid” Preparation Instructions & Evaluation Plan

This annex provides bidders with instructions on how to prepare their proposal “Section IX – ISS-OWSS Industrial and Regional Benefits (IRB) Bid” for the Optimized Weapon System Support (OWSS) of the Integrated Soldier System (ISS) (Volume 3 Resulting Contract).

The Request for Proposal (RFP) Annex BB to Volume 1 contains all information required to assess Bidders’ compliance with the IRB requirements. Bidders must submit their IRB proposal (Section IX) in accordance with the instructions contained herein.

This annex also contains the evaluation criteria that will be used to assess the Bidders proposal “Section IX – ISS-OWSS Industrial and Regional Benefits (IRB) Bid” for the Optimized Weapon System Support (OWSS) of the Integrated Soldier System (ISS) (Volume 3 Resulting Contract). Any proposal that does not meet the Mandatory IRB Requirements found herein will be declared non-compliant.

The bidder’s proposal for “Section IX – ISS-OWSS IRB Bid” for the Optimized Weapon System Support (OWSS) of the Integrated Soldier System (ISS) (Volume 3 Resulting Contract) will be become the bidder’s IRB commitment at contract award.

1.0 INTRODUCTION

- 1.1. It is the intent of the Canadian Government, (referred to herein as “Canada”) that this project provide Industrial and Regional Benefits (IRB) that will contribute to the continuing viability of Canadian companies’ capabilities in high technology manufacturing and services and to improve their ability to compete in both domestic and international markets.
- 1.2. Canada’s objectives recognize the importance of IRB in procurement and therefore they will be a factor to be evaluated in the awarding of the contract.
- 1.3. Any proposal that does not meet the Mandatory IRB Requirements found in Section 5 of this document will be declared non-compliant.
- 1.4. It is the responsibility of the Industry Canada IRB Authority, in cooperation with the Atlantic Canada Opportunities Agency (ACOA), the Department of Western Economic Diversification (WD), and the Department of Canadian Economic Development - Quebec

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(CED-Q), to ensure that IRB Commitments are included in any procurement contract entered into as a result of this Request for Proposal (RFP).

2.0 GENERAL INSTRUCTIONS

- 2.1. In responding to the IRB requirements of this RFP, the Bidder is advised to prepare its IRB proposal and individual Transactions using the IRB Requirement detailed in the Resulting Contract volumes of the RFP (Module B of Volume 3).
- 2.2. Definitions and contractual provisions related to the IRB Policy are also found in Module B of Volume 3 Resulting Contract.
- 2.3. The Bidder must prepare and submit an IRB proposal. The proposal must be fully responsive to the requirements stated in this RFP.
- 2.4. The Bidder must identify all IRB Transactions (including unallocated) that comprise the dollar value of their "ISS-OWSS WORK TOTAL BID PRICE" (identified in the RFP Part 1 to Annex AB to Volume 3, item 14.0 "ISS-OWSS WORK TOTAL BID PRICE"). The portion of identified IRB Transactions must be fully described.
- 2.5. The IRB proposal should be submitted in a separate self-contained volume. For ease of evaluation, any material contained in another section but relevant to an IRB proposal should be repeated in the latter proposal.
- 2.6. Six (6) hard copies and four (4) electronic copies (in Microsoft Word) of each IRB proposal are requested.
- 2.7. The IRB commitments associated with each option included in the bid package must be clearly and separately identified. It must be clear to the IRB Evaluation Team what additional IRB are being offered, if the Crown were to consider the various options addressed in the RFP.

3.0 CANADA'S INDUSTRIAL AND REGIONAL BENEFITS OBJECTIVES

- 3.1. The Bidder's IRB submission should clearly indicate how the business activities associated with its IRB Proposal will be achieved if it wins this contract. The optimum IRB Proposal will result in the creation and exploitation of capabilities, knowledge, technologies and markets of lasting benefits to Canadian industry.
- 3.2. Proposed IRB activities with a Canadian company should result in the enhancement of Canadian capability to undertake other work of a similar nature, including gaining access to export markets. It should make a positive contribution to the continuing viability, growth and development of the Canadian recipient of the IRB and its subcontractors.

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- 3.3. The regional development objectives of Canada are to encourage long term quality improvements to the capability, capacity, international competitiveness and growth potential of Canadian firms in those regions where Canada has established specific initiatives to promote economic growth and diversification through procurement. These Designated regions include Atlantic (Newfoundland & Labrador, New Brunswick, Nova Scotia and Prince Edward Island), Quebec, Northern Ontario and the West (British Columbia, Alberta, Saskatchewan and Manitoba). IRB Transactions proposed by the Bidder in support of Regional Development will be assessed on this project.
- 3.4. It is the objective of Canada to encourage the participation of Canadian small and medium businesses as suppliers on major federal procurements and to increase their export market access. IRB Transactions proposed to be undertaken by the Bidder in support of small and medium business supplier development and subcontracting will be assessed on this project.
- 3.5. Canadian industry should receive, when possible, the maximum high quality, low risk, Direct Benefits associated with the delivery of the Work contained in the Statements of Work in this RFP.
- 3.6. In addition, Canadian industry must receive high quality, low risk, Indirect Benefits, generally of the same level of technology or higher as the Direct Benefits;
- 3.7. Canadian industry in all Regions of Canada are expected to benefit from the Integrated Soldier System Project; and
- 3.8. Canadian Small and Medium Business is expected to benefit from the Integrated Soldier System Project.

4.0 IRB TRANSACTIONS

- 4.1. The business activities proposed in support of the objectives outlined above must be in the form of specific IRB Transactions. An IRB Transaction is a work package, which will become a contractual obligation of the Contractor. There are two types of IRB Transactions: Direct IRB Transactions and Indirect IRB Transactions. Eligible areas of involvement include, but are not limited to, hardware and software, project management, systems design, engineering and integration, programming and independent validation and verification, installation engineering and site installation.

4.1.1. Direct IRB Transactions

- 4.1.1.1. Direct IRB Transactions are those achieved through the provision of the goods and services required to deliver the Integrated Soldier System or achieved through the provision of goods and/or services on approved Global Value Chain (GVC) platforms.

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4.1.1.2. Canadian resources should be utilized to the maximum extent possible to develop, produce, integrate, deliver and support the Integrated Soldier System.

4.1.1.3. An eligible Global Value Chain (GVC) platform must be similar to the platform being proposed for the Integrated Soldier System Project (ISS Project), have a market potential (measured by market size and longevity) equal to or greater than the platform proposed for the ISS Project, and one that offers significant opportunities for technological advancement, growth in the level of system integration, small and medium-sized business (SME) participation, and have large-scale and sustainable acquisition and/or sustainment opportunities.

4.1.1.3.1. Activities associated with GVC platforms include, but are not limited to, pre-commercialization activities (e.g. collaborative technology development and demonstration projects), production activities (e.g. definition, design, and manufacturing) and In-Service Support activities.

4.1.2. Indirect IRB Transactions

4.1.2.1. Indirect IRB Transactions are those achieved through business activities or IRB Transactions not related to the Integrated Soldier System Project generated by the Contractor or other Eligible Parties.

4.1.2.2. These Indirect Transactions proposed by the Contractor should comprise advanced technology products or skills transfers or services comparable or higher in nature and level of complexity to the Direct Work involved in the Integrated Soldier System Project that will result in long-term export sales or import replacement by, and lasting benefit to Canadian companies.

4.1.3. Any business activity proposed as an IRB Transaction in support of Canada's IRB objectives will only be considered, if it meets the Eligibility Criteria provided in Module B to Volume 3 Resulting Contract. These criteria will be used in evaluating the proposal submitted in response to this RFP and will form the basis for any ensuing Contract. The IRB Authority reserves the right to seek validation of the IRB Eligibility Criteria, along with the additional criteria associated with Global Value Chain (GVC) and/or Enhanced Priority Technology List (EPTL), for any or all proposed IRB Transactions within one year of Contract award. Should any IRB Transactions be found to not meet the IRB Eligibility Criteria, the Transaction will be not be eligible for IRB credit and a substitute Transaction will be sought from the Contractor. Should any IRB Transaction meeting the IRB Eligibility Criteria but the GVC or EPTL criteria, the IRB Transaction will be eligible, but it will not be used towards fulfilling the particular GVC or EPTL requirements.

5.0 IRB MANDATORY REQUIREMENTS

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- 5.1. There are eight mandatory requirements that the Bidder must meet. The omission of any part of the following eight requirements will result in the IRB proposal being declared non-compliant such that the Bidder's complete bid package will not be evaluated:
- 5.1.1. Requirement One: The Bidder's IRB proposal must equal a minimum of 100% of the "ISS-OWSS WORK TOTAL BID PRICE" (identified in the RFP Part 1 to Annex AB to Volume 3, item 14.0 "ISS-OWSS WORK TOTAL BID PRICE"), measured in Canadian Content Value (CCV), to be achieved within the period beginning May 29, 2009 and ending six (6) years after the Effective Date of Contract. For the winning bidder, the amount proposed will become the IRB Commitment Value which must be achieved under the pursuant contract. The Bidder must also match the "ISS-OWSS WORK TOTAL BID PRICE" (identified in the RFP Part 1 to Annex AB to Volume 3, item 14.0 "ISS-OWSS WORK TOTAL BID PRICE") of any contract options with an equal amount of IRB, measured in CCV.
- 5.1.2. Requirement Two: In its IRB Proposal due at bid closing, the Bidder must identify acceptable IRB Transactions which are detailed, fully described and equal in total to a minimum of 30% of the "ISS-OWSS WORK TOTAL BID PRICE" (identified in the RFP Part 1 to Annex AB to Volume 3, item 14.0 "ISS-OWSS WORK TOTAL BID PRICE"), measured in CCV. The Bidder must also commit to identifying, no later than one (1) year after the Effective Date of Contract, additional acceptable IRB Transactions which are detailed, fully described and bring the cumulative total of identified acceptable IRB Transactions to a minimum of 60% of the contract value, measured in CCV. The Bidder must also commit to identifying, three (3) years after the Effective Date of Contract, additional acceptable IRB Transactions which are detailed, fully described and bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV.
- 5.1.3. Requirement Three: The Bidder must commit to a minimum of 15% Small and Medium size Businesses (SMB) IRB transactions for the contract.
- 5.1.4. Requirement Four: The Bidder must commit to a minimum of Enhanced Priority Technology List (EPTL) Version 1.0 transactions equal to 5% of the contract value, measured in CCV.
- 5.1.5. Requirement Five: The Bidder must accept and agree to the terms associated with a failure to meet IRB obligations (Liquidated Damages of 10% and /or holdbacks).
- 5.1.6. Requirement Six: In the evaluation of the IRB Proposal, it must achieve a minimum of 36 points for the IRB Plans and 270 points for the IRB Transactions.
- 5.1.7. Requirement Seven: The Bidder must accept the IRB Requirements detailed in the Resulting Contracts volumes.
- 5.1.8. Requirement Eight: The Bidder's IRB Proposal must contain the following components:

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- 5.1.8.1. Executive Summary of IRB Commitment;
- 5.1.8.2. Company Business Plan;
- 5.1.8.3. IRB Management Plan;
- 5.1.8.4. Regional Development Plan;
- 5.1.8.5. Small and Medium Business Development Plan;
- 5.1.8.6. Detailed IRB Transaction Sheets; and
- 5.1.8.7. IRB Compliancy Checklist

6.0 STATEMENT OF IRB WORK

The following sections detail the content of the components of the IRB Proposal referred to above in sub-article 5.1.8.

6.1. Executive Summary of IRB Commitments

- 6.1.1. The Executive Summary should include an integrated overview of the complete IRB Commitment, with cross-references, as appropriate, to the other IRB Plans specified herein that must be submitted as part of this proposal. It should clearly demonstrate how the Bidder will address the project's IRB objectives and how each of these objectives will be achieved through the proposed IRB Commitments.
- 6.1.2. The Executive Summary should provide a tabular presentation of the Bidder's IRB commitments. The presentation should include a summary of IRB Commitments (applied in CCV) by Direct, Indirect, Region, and Small and Medium Business.
- 6.1.3. The Bidder has the option of including in the Executive Summary a forecast plan of the IRB Transactions it anticipates submitting as part of the second tranche, due no later than one (1) year following contract award. This forecast plan may include information such as upcoming supplier development activities, a list of Canadian firms with whom the Bidder or its Eligible Parties are considering doing business or specific capabilities for which the Bidder or its Eligible Parties are seeking Canadian suppliers.
- 6.1.4. It should include a separate paragraph containing concise and precise statements of the Company's commitments to the mandatory requirements in paragraph 5.0.

6.2. Company Business Plan

- 6.2.1. The Bidder's Company Business Plan should outline, in general terms, the long-term impact of the award of the Contract on the Bidder and its Eligible Parties' business in Canada, and on the IRB recipients.

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6.2.2. The Plan should include the following information on the Bidder and its Eligible Parties:

- 6.2.2.1. a description of the decision-making process for establishing product and services responsibilities and market mandates within the company;
- 6.2.2.2. a description of the Bidder's management of corporate functions such as strategic planning, research and development, and marketing , including the identification and location of these responsibility centers;
- 6.2.2.3. this section should also outline the Bidder and its major subcontractors' operations worldwide, including a corporate profile containing a narrative description and hierarchically ordered chart which describes each firm's present corporate structure, including parents and subsidiaries relationships. A written description of their functional interrelationships should be included containing a detailed presentation showing the existing and proposed financial arrangements between the Bidder and each of its first-tier subcontractors; and
- 6.2.2.4. an organizational chart identifying key personnel responsible to manage and deliver the project.

6.2.3. The Plan should include the following information on the IRB Recipients:

- 6.2.3.1. the impact of the award on existing and new areas of business; and
- 6.2.3.2. a description of how the award of major sub-contracts to Canadian companies for this project would enhance the capability of these firms to undertake other domestic and foreign programs or pursue related new business activities with similar characteristics.

6.3. IRB Management Plan

- 6.3.1. The plan should describe the methods by which the Bidders will implement, manage, monitor and report progress on its IRB activities towards achievement of the proposed IRB Transactions.
- 6.3.2. The plan should include but not be limited to identification of all the IRB management functions and the associated organization required to fulfill the proposed IRB commitments during the contract period. The description of the IRB program management organization should include but need not be limited to the following:
 - 6.3.2.1. an organization chart identifying key personnel responsible for IRB management functions;
 - 6.3.2.2. a list of the proposed Eligible Parties, including the name, address and phone number of the respective IRB contact; (Note: Eligible Parties are subject to

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approval by IRB Authority. As such, bidders are encouraged to review the definition of Eligible Party within Module B to Volume 3 Resulting Contracts).

- 6.3.2.3. a description of the facilities and resources assigned to this program;
 - 6.3.2.4. an explanation of how IRB considerations will be factored into the decision making process, and the mandates and/or responsibilities of the specific organizations that must implement IRB; and
 - 6.3.2.5. a description of the methods and procedures that will be employed to identify, track and report IRB Commitments.
- 6.3.3. The plan will be used to assess the Bidder's ability to manage and deliver an acceptable IRB package.
- 6.4. Regional Development Plan
- 6.4.1. The Regional Development Plan should provide, in as much detail as possible:
- 6.4.1.1. the efforts made and the approaches to be followed in order to achieve optimum distribution of the IRB to the Designated Regions; and
 - 6.4.1.2. the level of CCV and the percentage of total CCV, that the Bidder has committed to in the Designated Regions of Canada, for both Direct and Indirect IRB Transactions;
- 6.4.2. The individual IRB Transactions Sheets will be used to support this requirement and should be cross referenced to this Plan.
- 6.5. Small and Medium Business Development Plan
- 6.5.1. The Small and Medium Business Development Plan should provide in as much detail as possible:
- 6.5.1.1. Identification of small and medium business subcontractors that will be participating in the proposal and a description of their participation and the Canadian Content Value contributed to the project; and
 - 6.5.1.2. Identification of opportunities, assistance and encouragement that the Bidder will provide to stimulate and promote small and medium business both as potential suppliers to the project and for their general development.
- 6.5.2. The Detailed IRB Transaction Sheets will be used to satisfy this requirement and should be cross referenced to this Plan.
- 6.6. Detailed IRB Transaction Sheets

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6.6.1. Each IRB proposal must provide complete information on each IRB Transaction that the Bidder proposes to provide to Canada and for which it is prepared to commit contractually. The content of the IRB proposal will form the basis for the IRB Commitments to be specified in the Contract. A separate sheet is to be completed for each proposed IRB Transaction, detailing the particulars of the given activity. These details are as follows:

- 6.6.1.1. IRB Transaction Identifier Number - each IRB Transaction should be assigned a unique number, in sequential order, for reference purposes;
- 6.6.1.2. IRB Donor (company providing IRB) and Recipient (company receiving IRB) contact information;
- 6.6.1.3. Transaction Value (Total Contract Value and Canadian Content Value);
- 6.6.1.4. IRB Classification – Direct or Indirect;
- 6.6.1.5. Industrial sector, Enhanced Priority Technology List (EPTL) and expertise of the IRB Recipient;
- 6.6.1.6. Fulsome description of the IRB Transaction Activities and Canadian Recipient Company. It will be in the Bidder's interest to fully describe the nature of the proposed IRB Transaction so it can be properly evaluated by the IRB Evaluation Team. Failure to adequately describe the nature of the work being proposed may result in the proposed IRB Transaction being disallowed. Transactions will only be evaluated on the data provided in the proposal. Bidders are advised that information received in response to a clarifying question by the Crown, will not be used to alter the proposed IRB Transaction as this would be considered bid repair, and would be unacceptable in the competitive process;
- 6.6.1.7. Region;
- 6.6.1.8. Small and Medium Business;
- 6.6.1.9. Description of the quality of the IRB transaction. In those cases where the Bidder can identify a recipient of a proposed IRB Transaction, bidders are encouraged to provide statements from the Canadian recipient(s) describing the impact that the IRB Transaction will have on the recipient's company. These statements should be appended to the applicable IRB Transaction form;
- 6.6.1.10. Description of any other Canadian Government Assistance involved in the transaction;

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6.6.1.11. Provide and show justification for eligibility as a valid IRB Transaction (Causality, Timing, Incrementality, Eligible Party and CCV), as detailed in Article 5 of Module B to Volume 3 Resulting Contracts;

6.6.1.12. IRB Schedule – the time phasing and cash flow for each IRB Transaction must be shown on each Detailed IRB Transaction Sheet, broken out by 12 month periods;

6.6.1.13. Liquidated Damages – (minimum - 10%);

6.6.2. Commitments of unallocated IRB are to be identified on a separate Detailed IRB Transaction Sheets.

6.6.3. A sample Detailed IRB Transaction Sheet that contains the above-mentioned data is shown in Appendix BA3 of Volume 3 Resulting Contract.

6.7. IRB Compliancy Checklist

Bidders are required to submit with their proposal an IRB Compliancy Checklist that confirms that all mandatory requirements to this RFP have been met. The compliancy checklist must include the information shown in the following table:

Mandatory Requirements - Compliancy Checklist		
	<u>Met</u>	<u>Not Met</u>
1. The Canadian Content Value of the IRB proposal equals a minimum of 100% of the bid price, without optional work, identified in the RFP Part 1 to Annex AB to Volume 3, item 14.0 "ISS-OWSS WORK BID PRICE."	_____	_____
Without optional work, the Bid Price is:	\$	
The Canadian Content Value of the IRB proposal equals a minimum of 100% of the bid price, with optional work.	Not Applicable	Not Applicable
With optional work, the bid price is:	Not Applicable	
2. In its IRB Proposal due at bid closing, the Bidder must identify acceptable IRB Transactions which are detailed, fully described and equal in total to a minimum of 30% of the "ISS-OWSS WORK	_____	_____

Mandatory Requirements - Compliancy Checklist

TOTAL BID PRICE" (identified in the RFP Part 1 to Annex AB to Volume 3, item 14.0 "ISS-OWSS WORK TOTAL BID PRICE"), measured in CCV. The bidder must also commit to identifying, no later than one (1) year after Effective Date of Contract, additional acceptable IRB Transactions which are detailed, fully described and bring the cumulative total of identified acceptable IRB Transactions to a minimum of 60% of the contract value, measured in CCV. The bidder must also commit to identifying, three (3) years after Effective Date of Contract, additional acceptable IRB Transactions which are detailed, fully described and bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV.		
3. The Bidder must commit to a minimum of 15% Small and Medium size Businesses (SMB) IRB transactions for the contract.	_____	_____
4. The Bidder must commit to a minimum of EPTL Version 1.0 transactions equal to 5% of the contract value, measure in CCV	_____	_____
5. Accepts and agrees to the terms associated with a failure to meet IRB obligations (Liquidated Damages of 10%).	_____	_____
6. The IRB proposal, has reached a minimum evaluation score of 36 points for the IRB Plans and 270 points for the IRB Transactions.	_____	_____
7. Accepted Terms & Conditions of IRB Requirement in Module B of the Resulting Contract volumes.	_____	_____
8. IRB Proposals must contain the following components:		
Executive Summary;	_____	_____
Company Business Plan;	_____	_____

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Mandatory Requirements - Compliancy Checklist		
IRB Management Plan;	_____	_____
Regional Development Plan;	_____	_____
Small Business Development Plan;	_____	_____
Detailed IRB Transaction Sheets.	_____	_____

7.0 BANKING

- 7.1. Bidders may apply Banked IRB transactions as part of their proposal. These transactions will be evaluated using the same methodology described in section 9.0, IRB Evaluation Plan in Module B to Volume 1.
- 7.2. Bidder must provide a signed letter of acceptance from Industry Canada indicating that the banking transaction is valid.
- 7.3. Banked IRB Transactions included in this proposal must be whole (not portions of) Transactions. Each transaction must clearly state that it is a Banked IRB Transaction. The Banked IRB Transaction must contain the exact information as submitted to the IRB Bank.
- 7.4. If the Detailed IRB Transaction Sheet is not clearly marked or the banked transaction is different then the transaction in the IRB Bank, the proposed IRB Transaction may be rejected.
- 7.5. If a Banked IRB Transaction is used as part of a Bidder's proposal, the Evaluation Committee will consider the transaction as approved for meeting the IRB Eligibility Criteria. However, the Transaction will be evaluated on a quality and risk score as stated in section 9.0, IRB Evaluation Plan in Module B to Volume 1.
- 7.6. As a part of this proposal, Bidders may submit Banked IRB Transactions with a cumulative value up to a maximum of 15% of the "ISS-OWSS WORK TOTAL BID PRICE" (identified in the RFP Part 1 to Annex AB to Volume 3, item 14.0 "ISS-OWSS WORK TOTAL BID PRICE.") Any value above this threshold will not be evaluated.

8.0 Enhanced Priority Technology List

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- 8.1. Bidders must commit to identifying and achieving, over the IRB Achievement Period, IRB transactions in technology areas specific in the EPTL Version 1.0 (Appendix BA4 of Volume 3 Resulting Contract), which equal at least 5% of the contract value, measured in CCV.
- 8.2. Bidders should fully describe and document in their IRB proposals how any proposed EPTL transactions are: relevant to the EPTL Version 1.0; and, of a unique and/or transformational nature to existing global product offerings. Bidders should note that any proposed EPTL transaction must meet the IRB Eligibility Criteria, outlined in Article 5 of the Module B Volume 3 Resulting Contract.
- 8.3. Bidders may choose to include a banked EPTL-related transaction in their IRB Proposal for this ISS Project. (*See Clause 7 - Banking*). With respect to a banked EPTL transaction, the Version of the EPTL which was in effect at the time of the transaction's acceptance into the IRB Bank may be different than the version applicable to this ISS Project. In that case, the banked EPTL transaction can nonetheless be counted towards the EPTL requirement on this ISS Project.
- 8.4. The IRB Authority is the single point of contact between industry and government regarding the EPTL. All enquiries regarding the EPTL contents should be directed to the IRB Authority, through the PWGSC Contracting Authority.

9.0 IRB EVALUATION PLAN

9.1. Introduction

- 9.1.1. IRB Overview: As part of the evaluation of the proposal, the IRB aspects will be evaluated to ensure they meet the mandatory requirements. The results of this evaluation will then be integrated (on a pass/fail basis) into the evaluations conducted by Public Works and Government Services Canada (PWGSC) and the Department of National Defence (DND).
- 9.1.2. Purpose: The purpose of this IRB Evaluation Plan is to describe the organization, procedures and methodology for evaluating the IRB proposal submitted by the Bidder.
- 9.1.3. IRB Evaluation Plan: The IRB Evaluation Plan will assist the IRB Authority in providing Departmental input into the overall evaluation process. The results of the IRB evaluations will be used to confirm that the selected Bidder is able to satisfy the requirement to provide quality IRB consistent with Government objectives.
- 9.1.4. IRB Evaluation Team: The IRB Evaluation Team is led by the IRB Authority and may include representatives from the Regional Development Agencies.

9.2. Canada's IRB Objectives

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- 9.2.1. The Government's approved IRB objectives are to encourage long-term industrial and regional development, including Small and Medium Business. A Bidder's failure to meet the minimum acceptable levels in the IRB evaluation of IRB proposal will result in the Bidder's proposal being deemed non-compliant.
- 9.2.2. The objective of the IRB evaluation is to assess the economic benefit to Canada of the Bidder's proposal in relation to:
 - 9.2.2.1. Ontario and the Designated Regions of Atlantic, Quebec, Northern Ontario and the West; and
 - 9.2.2.2. Small and Medium Business.
- 9.2.3. This evaluation will be accomplished by:
 - 9.2.3.1. Determining the nature of the benefits offered, their value in dollars and in terms of percentages of the IRB commitment values;
 - 9.2.3.2. Assessing the quality of the benefits offered as they relate to the stated IRB Objectives of the Government of Canada;
 - 9.2.3.3. Assessing the explicit contractual commitments made by each Bidder and the enforceability of these commitments;
 - 9.2.3.4. Determining the risk associated with the benefits being proposed;
 - 9.2.3.5. Assessing the individual merits of the IRB proposal, based on the rating factors contained herein; and
 - 9.2.3.6. Determining the acceptability of the proposal.
- 9.2.4. All proposed initiatives will be evaluated on their own merits.
- 9.2.5. The IRB Proposal will be evaluated to ensure that the benefits proposed meet the specified IRB Objectives, mandatory requirements, Eligibility Criteria, definitions and format. The onus is on the Bidder to:
 - 9.2.5.1. Demonstrate that the IRB Transactions proposed for this procurement will achieve the IRB objectives outlined in Section 3;
 - 9.2.5.2. Show how well these commitments meet the Eligibility Criteria; and
 - 9.2.5.3. Ensure that they are backed by 10% Liquidated Damages.
- 9.3. Evaluation Methodology

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9.3.1. The Bidder's proposal will be evaluated to verify whether the IRB mandatory requirements specified in Section 6 have been met using the following methodology.

9.3.2. IRB Plans

9.3.2.1. Company Business Plan. The Company Business Plan will be evaluated to determine the ability of the Bidder to maximize the economic benefit to Canada resulting from this procurement;

9.3.2.2. IRB Management Plan. The IRB Management Plan will be evaluated to determine the Bidder's ability to develop, plan, implement and manage the proposed IRB program;

9.3.2.3. IRB Regional Development Plan. The IRB Regional Development Plan will be evaluated to determine the merits of the Bidder's ability to assist and develop business in the Designated Regions;

9.3.2.4. Small and Medium Business Development Plan. The Small and Medium Business Development Plan will be evaluated to determine the Bidder's ability to assist and encourage small and medium business; and

9.3.2.5. The objective of the IRB Plans evaluation is to determine the economic benefit to Canada specified in the IRB Plans and, therefore, will be evaluated from a qualitative and risk perspective.

9.3.2.6. Each IRB Plan will be evaluated using the following:

9.3.2.6.1. Each IRB Plan will be given a score for "Quality" and a score for "Risk";

9.3.2.6.2. Quality will be rated on a scale of zero (0) to five (5), using the Word Pictures in Table 9-5 (IRB Plan Quality Word Pictures);

Table 9- 5, IRB Plan Quality Word Pictures

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VALUE	IRB PLAN QUALITY WORD PICTURES
5	EXCELLENT Provided all the requested information in the Statement of IRB Work (Section 6) for each individual plan. Plan is fully developed.
4	GOOD Provided all the requested information in the Statement of IRB Work (Section 6) for each individual plan. Plan is well developed.
3	AVERAGE Provided most of the requested information in the Statement of IRB Work (Section 6) for each individual plan. Plan is reasonably well developed.
2	POOR Provided some of the requested information in the Statement of IRB Work (Section 6) for each individual plan. Plan is not well developed.
1	VERY WEAK Provided a minimum of the requested information in the Statement of IRB Work (Section 6) for each individual plan. Plan is not developed.
0	UNACCEPTABLE Provided none of the requested information in the Statement of IRB Work (Section 6) for each individual plan.

9.3.2.6.3. Risk will be rated on a scale of zero (0) to five (5), using the Word Pictures in Table 9-6 (IRB Plan Risk Word Pictures)

Table 9- 6, IRB Plan Risk Word Pictures

RISK VALUE	IRB PLAN RISK WORD PICTURES
5	EXCELLENT The IRB Plan very clearly demonstrates that all of Canada's IRB objectives (Section 3) will be fully met. Demonstrates a comprehensive depth of knowledge, capability and commitment such that the probability of failure to achieve is extremely low.

RISK VALUE	IRB PLAN RISK WORD PICTURES
4	GOOD The IRB Plan clearly demonstrates that all of Canada's IRB objectives (Section 3) will be fully met. Demonstrates a considerable depth of knowledge, capability and commitment such that the probability of failure to achieve is low.
3	AVERAGE The IRB Plan demonstrates that most of Canada's IRB objectives (Section 3) will be fully met. Demonstrates an adequate depth of knowledge, capability and commitment such that the probability of failure to achieve is moderate.
2	POOR The IRB Plan demonstrates that some of Canada's IRB objectives (Section 3) will be met. Demonstrates a limited depth of knowledge, capability and commitment such that the probability of failure to achieve is significant.
1	VERY WEAK The IRB Plan does not demonstrate that any of Canada's IRB objectives (Section 3) will be met. Demonstrates an inadequate depth of knowledge, capability and commitment such that the probability of failure to achieve is likely.
0	UNACCEPTABLE No information provided, or the IRB Plan does not address the objectives in a suitable and documented manner.

9.3.2.6.4. The Quality and Risk scores for each plan will be multiplied together and the sum calculated to determine the final IRB Plans evaluation score for each proposal;

9.3.2.6.5. The minimum acceptable final IRB Proposal Plans evaluation score is thirty six (36) points for each IRB proposal. The Bidder must achieve or exceed the minimum final IRB Proposal Plans evaluation score. The maximum score is one hundred (100) points.

EXAMPLE:

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Plan	Quality Score (1)	Risk Score (2)	Plan Score (3) (3) = (1) * (2)
IRB Company Business Plan	4	3	12
IRB Management Plan	3	3	9
Regional Development Plan	4	4	16
Small Business Development Plan	4	2	8
Total Score (sum of Plan scores)			45

9.3.3. IRB Transactions

- 9.3.3.1. Detailed IRB Transactions. Proposed IRB Transactions will be evaluated to determine the degree to which they meet the IRB objectives detailed in the “Canada’s Industrial and Regional Benefits Objectives” section of this RFP.
- 9.3.3.2. Bidders should note that the second tranche of IRB Transactions submitted by the winning bidder no later than one (1) year following effective date of contract, although not a part of this evaluation, will be assessed using the same methodology as described below.
- 9.3.3.3. The IRB Transactions will be evaluated to ensure the Eligibility Criteria are met for Canadian Content Value (CCV), Causality, Incrementally, Timing, and Eligible Party described in Module B to Volume 3 Resulting Contract. These criteria affect both qualitative and quantitative assessments.
- 9.3.3.4. If a proposed IRB Transaction does not fulfill the Eligibility Criteria requirements, then the specific proposed transaction will be found unacceptable, will be rejected and rated as zero (0) within the determination of overall bid acceptability.
- 9.3.3.5. The objective of the IRB Transactions evaluation is to determine the economic benefit to Canada of the transactions. The IRB Transactions proposed by the Bidder, therefore, will be evaluated from a quantitative, qualitative and risk perspective.

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9.3.3.6. Eligible proposed IRB Transactions will be evaluated, by type (Direct or Indirect as defined in Module B of the Resulting Contract volumes), for Canadian Content Value, quality, and risk.

9.3.3.7. Each IRB Transaction will be evaluated using the following:

9.3.3.7.1. Each proposed IRB Transaction will be evaluated to determine the Canadian Content Value (CCV) expressed in millions of Canadian dollars as defined in Module B of Volume 3 Resulting Contract;

9.3.3.7.2. Each proposed IRB Transaction will be given a score for “Quality” and a score for “Risk”;

9.3.3.7.3. Quality will be rated for each proposed IRB Transaction on a scale of zero (0) to five (5), using the Word Pictures in Table 9-7 (IRB Transaction Quality Word Pictures);

Table 9- 7, IRB Transaction Quality Word Pictures

VALUE	IRB TRANSACTION QUALITY WORD PICTURES
5	EXCELLENT Fully achieves all of Canada’s IRB Objectives (Section 3) for this Project and involves an equivalent or greater level of technology.
4	GOOD Reasonably achieves all of Canada’s IRB Objectives (Section 3) for this Project and involves work at similar technology levels.
3	AVERAGE Achieves most of Canada’s IRB Objectives (Section 3) for this Project and involves some work with equivalent technology levels.
2	POOR Meets some of Canada’s IRB Objectives (Section 3) for this Project and involves little work with equivalent technology levels.

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VALUE	IRB TRANSACTION QUALITY WORD PICTURES
1	VERY WEAK Meets few of Canada's IRB Objectives (Section 3) for this Project and involves no work with similar technology levels.
0	UNACCEPTABLE Fails to develop industrial capability to any level that complies with Canada's IRB objectives (Section 3).

9.3.3.7.4. Risk will be rated for each proposed IRB Transaction on a scale of zero (0) to five (5), using the Word Pictures in Table 9-8 (IRB Transaction Risk Word Pictures);

Table 9- 8, IRB Transaction Word Pictures

RISK VALUE	IRB TRANSACTION RISK WORD PICTURES
5	EXCELLENT The IRB Transaction is fully described (Section 6) and very clearly demonstrates that all of Canada's IRB Objectives (Section 3) will be fully met. Demonstrates a comprehensive depth of knowledge, capability and commitment such that the probability of failure to achieve is extremely low.
4	GOOD The IRB Transaction is well described (Section 6) and clearly demonstrates that all of Canada's IRB Objectives (Section 3) will be fully met. Demonstrates a considerable depth of knowledge, capability and commitment such that the probability of failure to achieve is low.

RISK VALUE	IRB TRANSACTION RISK WORD PICTURES
3	AVERAGE The IRB Transaction is adequately described (Section 6) and demonstrates that Canada's IRB Objectives (Section 3) will be met. Demonstrates an adequate depth of knowledge, capability and commitment such that the probability of failure to achieve is moderate.
2	POOR The IRB Transaction is not well described (Section 6) and does not demonstrate that Canada's IRB Objectives (Section 3) will be met. Demonstrates a limited depth of knowledge, capability and commitment such that the probability of failure to achieve is significant.
1	VERY WEAK The IRB Transaction is very poorly described (Section 6) and does not address Canada's IRB Objectives (Section 3) in any significant manner. Demonstrates an inadequate depth of knowledge, capability and commitment such that the probability of failure to achieve is likely.
0	UNACCEPTABLE No information provided, or the IRB Plan does not address Canada's IRB Objectives (Section 3) in a suitable and documented manner.

- 9.3.3.7.5. The score for each individual proposed IRB Transaction will be determined by multiplying the applicable CCV (in millions of Canadian dollars) times the Quality score times the Risk score for each proposed IRB Transaction;
- 9.3.3.7.6. For the Bidder's IRB proposal, the scores for all eligible proposed IRB Transactions will be totaled, divided by the "ISS-OWSS WORK TOTAL BID PRICE" (identified in the RFP Part 1 to Annex AB to Volume 3, item 14.0 "ISS-OWSS WORK TOTAL BID PRICE.") (or the total of the Bidder's identified IRB Transactions, whichever is greater) and multiplied by one hundred (100) to obtain the final IRB Transaction evaluation score;
- 9.3.3.7.7. For the first tranche of IRB Transactions due at bid closing, the minimum acceptable IRB Transaction evaluation score is two hundred seventy (270) points.

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9.3.3.7.8. For the second tranche of IRB Transactions due no later than one (1) year after Effective Date of Contract, the point score for these Transactions will be combined with the point score from the first tranche, and taken together, the minimum acceptable IRB Transaction evaluation score is five hundred forty (540).

9.3.3.7.9. For the third tranche of remaining IRB Transactions due three (3) years after Effective Date of Contract, these will not be formally evaluated or scored, but reviewed by the IRB Authority, in consultation with the Regional Development Agencies.

EXAMPLE:

In this example the Contractor submits a work bid price of \$250M and is identifying \$80M as part of their proposal.

IRB Transaction #	CCV \$ (1)	Quality factor (2)	Risk factor (3)	IRB Trx.Score (4)=(1)*(2)*(3)
001	\$20M	3	2	120
002	\$15M	5	3	225
003	\$45M	4	5	900
Grand Total (sum of (4))				1245

IRB Transaction rating = (Grand total/work bid price)*100 = _____

IRB Transaction rating = (1245/250)*100 = 498 points (minimum required: 270)

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MODULE C

TO

VOLUME 1

(This Module C to Volume 1 can be found after this page. The Module C has a structure, format and page numbering of its own.)

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ANNEX CA TO VOLUME 1

Instructions for preparing the MCM and LCC Electronic Response Package – Read Me First

This annex provides Bidders with instructions on how to complete the MCM and LCC Electronic Response Package.

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1 Introduction

IMPORTANT NOTE: It is strongly recommended that these instructions be read in their entirety prior to preparing the response.

1.1 DOORS®

DND intends to utilize the IBM Rational DOORS® software to evaluate the Management and Technical Proposals submitted by the Bidders. The IBM Rational DOORS® Enterprise Requirements Suite is a package of requirements management tools designed to help enterprises manage projects effectively.

The DOORS® is an application that runs on Microsoft Windows and UNIX systems. It will run on Microsoft Windows for the purposes of this evaluation.

In order to facilitate DND's use of the IBM Rational DOORS® 8.1, four Microsoft Excel® Matrix of Compliance Module (MCM) workbooks have been prepared for use by bidders to provide 'Bidder's Compliance' and 'Bidder's Response' for the management and technical evaluation of the ISSP RFP. These workbooks are compatible with DOORS® and will be used as a reference in the evaluation process. It is imperative that the Microsoft Excel® MCM workbooks be completed in full and accurately in accordance with the Bid Preparation Instructions provided in Volume 1.

1.1.1 DOORS® Scoring Method

All the MCM evaluation criteria are entered in a "TA Criteria" DOORS® module which possesses a hierarchical structure. The TA Criteria module will be used by the evaluators to perform the bid evaluations.

Weights have been assigned to all criteria and to all groups of criteria using the DOORS® TA Tool top-down/ percentage approach. Figure 1 shows an example of a possible criteria hierarchical structure that could be created in the TA Criteria module.

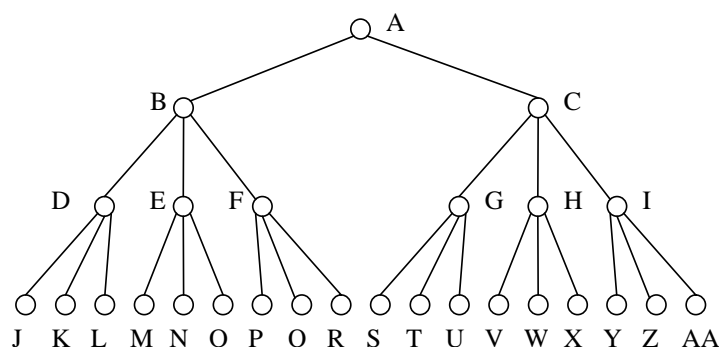


Figure 1: Example Hierarchical Structure.

Using the structure in Figure 1, the score would be broken up in the following manner.

- A represents the overall evaluation. It is given a value of 100%
- B and C represent 2 groupings under A. B and C are each given a value such that $B + C = 100\%$.
- D, E & F represent 3 groupings under B. D, E & F are each given a value such that $D + E + F = 100\%$.
- J, K & L represent 3 criterion in group D. J, K & L are given a value such that $J + K + L = 100\%$. Similarly: $G + H + I = 100\%$, $S + T + U = 100\%$, $V + W + X = 100\%$, $Y + Z + AA = 100\%$

In summary, the “sibling” object sums must always equal 100 throughout the entire TA Criteria module.

The maximum points achievable for a bid are entered into the DOORS® TA module. The TA Criteria module displays the relative contribution each criterion (and groups of criteria) in a “Sensitivity” column. This value is a fraction, to 6 decimal points of the “maximum points achievable for a bid”. However, it is displayed as a whole number. In the case of this evaluation, the “maximum points achievable for a bid has been set to 100,000 points.

The scores provided in Volume 1, Module C are identical to the numbers displayed in the “Sensitivity” column of the DOORS® TA Criteria module. They are provided as a guideline only and are to be used to assist the Bidder in performing a self evaluation as well as to indicate how the points are distributed and the relative importance of each section.

1.2 OmegaPS Analyzer®

DND intends to utilize the OmegaPS Analyzer® to calculate the Life Cycle Costing (LCC) of the Bidder’s proposed ISS-S system from data submitted by Bidders. The OmegaPS Analyzer is a logistic

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supportability analysis modeling tool that uses a hierarchical breakdown of the equipment to model various maintenance and re-supply responsibilities.

The OmegaPS Analyzer® is an application that runs on Microsoft Windows and UNIX systems.

In order to facilitate DND's use of the OmegaPS Analyzer®, the Microsoft Excel® OmegaPS Analyzer workbook has been prepared for use by bidders to provide information for the LCC evaluation of the ISSP RFP. This workbook is compatible with OmegaPS Analyzer® and will be used as a reference in the evaluation process. It is imperative that the Microsoft Excel® OmegaPS Analyzer workbook be completed in full and accurately in accordance with the Bid Preparation Instructions provided in Annexes CF and CG to Volume 1.

2 ISSP RFP Electronic Package

A complete description of the ISSP RFP electronic package can be found at ISSP Volume 1, Instructions to Bidders, section 2.7.

An abridged file structure, containing only the worksheets and files relevant to this annex is as follows:

Folders	Sub-Folders	Files	
English	ISSP_MCM	Instructions for preparing the MCM and LCC Electronic Response Package – Read Me First.PDF	
		ISS_A_TechnicalMCM_V1.XLS	
		ISS_A_ManagementMCM_V1.XLS	
		ISS_OWSS_TechnicalMCM_V1.XLS	
		ISS_OWSS_ManagementMCM_V1.XLS	
		ISS_LCC_Templates_V1.XLS	
Français	ISSP_LCC	OMEGAPS_Analyzer-R4_3_URG.PDF	Deleted: 2
	PÉIS_MMC	Instructions pour la préparation de l'ensemble des réponses aux MMC et CCV – Lisez-moi d'abord.PDF	
		ÉIS_A_MMCTechnique_V1.XLS	
		ÉIS_A_MMCGestion_V1.XLS	
		ÉIS_SOSA_MMCTechnique_V1.XLS	
		ÉIS_SOSA_MMCGestion_V1.XLS	
		ÉIS_CCV_Gabarits_V1.XLS	
		OMEGAPS_Analyzer-R4_3_URG.PDF	Deleted: 2
	PÉIS_CCV		

Table 1: Partial File Structure of the ISSP RFP Electronic Package

The 'Instructions for preparing the MCM and LCC Electronic Response Package – Read Me First.PDF' file is a copy of this annex.

Only the MCMs and templates that require Bidder input are being provided in the ISSP_PÉIS_RFP_EPackage.

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The 'OMEGAPS_Analyzer-R4_3_URG.PDF' file is the User's Reference Guide for OmegaPS Analyzer. It is for information purposes only and is not necessary for the completion of the Bidder's RFP Submission.

Deleted: 2

3 Microsoft Excel® Workbooks

The Microsoft Excel® workbooks may contain more than one 'Worksheet', which are delineated by separate tabs near the bottom of the Microsoft Excel® application. All mandatory and rated criteria are imbedded within the worksheets.

3.1 Microsoft Excel® MCM workbooks

The structure of the workbooks is as follows.

ISS_A_TechnicalMCM_V1.XLS contains the following worksheets:

Vol 1 Ann CC App 1 Table 1

ISS_A_ManagementMCM_V1.XLS contains the following worksheets:

Vol 1 Ann CE App 1 Table 1

Vol 1 Ann CE App 1 Table 2

Vol 1 Ann CE App 1 Table 3

Vol 1 Ann CE App 1 Table 4

Vol 1 Ann CE App 1 Table 5

ISS_OWSS_TechnicalMCM_V1.XLS contains the following worksheets:

Vol 1 Ann CG App 1 Table 1

Vol 1 Ann CG App 1 Table 2

ISS_OWSS_ManagementMCM_V1.XLS contains the following worksheets:

Vol 1 Ann CI App 1 Table 1

Vol 1 Ann CI App 1 Table 2

Vol 1 Ann CI App 1 Table 3

Vol 1 Ann CI App 1 Table 4

3.2 Microsoft Excel® OmegaPS Analyzer workbook

The structure of the workbook is as follows.

ISS-LCC_Templates_V1.XLS contains the following worksheets:

Bidder Information Sheet

Template 1-Generic System Data

Template 2-CorrectiveMaintData

Template 3-PreventiveMaintData

Template 4-STTE Data

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Template 5-Non-Recharge Btys

Template 6-Recharge Btys

Any questions regarding the ISSP RFP Microsoft Excel® workbooks must be forwarded to the PWGSC Contracting Authority found in Volume 1, Bidder's Instructions.

For technical questions or concerns related to the Microsoft Excel® software application please contact Microsoft Corporation.

For technical questions or concerns related to the OmegaPS Analyzer® software application please contact Pennant International Group plc.

4 Microsoft Excel® Worksheets

The Microsoft Excel® MCM workbooks and worksheets have a standard column format whereas the Microsoft Excel® OmegaPS Analyzer worksheets vary in format. Instructions for completing each are found in the sub sections below.

4.1 Microsoft Excel® MCM workbooks

The first row of each Microsoft Excel® MCM worksheet contains the title of each column. Each matrix has the following columns:

4.1.1 Information Provided with the RFP

Column 0: DOORS ID. The DOORS ID Number is an IBM Rational DOORS® assigned unique identification number for each individual text unit found in the Microsoft Excel® MCM workbooks including titles, headings, and criteria.

The purpose of these DOORS ID numbers is to provide a reference number for the criteria item should there be a query from a bidder. In this event, the DOORS ID number from the Evaluation Criteria should be used to locate the requirement in the appropriate Microsoft Excel® MCM Worksheets. The DOORS ID number must not be used as a reference in the proposal documents.

Column 1: ID. This column provides sequential numbering.

Column 2: Requirement Reference. This column specifies the requirement reference location.

Column 3: Requirement Statement. This column provides the requirement statement.

Column 4: Requirement Category. This column specifies if the requirement is a Mandatory requirement with the designation "M", or a Point Rated requirement with the designation "R".

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M: when the requirement category is indicated as “M”, the Mandatory requirement is evaluated based on the Bidder’s response. Failure to meet a mandatory requirement will make the bid non-compliant. Bids not meeting the mandatory requirement will be given no further consideration.

R: when the requirement category is indicated as “R”, the Rated requirement is evaluated based on the Bidders response and is assigned a score based on the established Evaluation Criteria and Scale. A score will be given for each rated requirement and will be used to determine the Bidder’s total score.

Column 5: Instructions To Bidder. This column specifies the information to be provided by the Bidder.

Column 8: Evaluation Criteria and Scale. This column describes the details of how the Bidder’s response will be evaluated to determine the Bidder’s level of Compliance to the requirements. This column also specifies the scoring method and the range of scores that will be used to assess each rated evaluation criterion.

Column 9a: Max Score. This column specifies the maximum number of points allocated for this requirement.

Column 9b: Min Score. This column specifies the minimum number of points required for a passing mark. Where a Min Score is associated with a group of requirements, it will be specified in the sub-total or total score row. For any Point Rated requirement for which there is a minimum pass mark, failure to reach the passing mark will make the bid non-compliant. Bids not meeting the passing mark will be given no further consideration.

4.1.2 Information to be Provided by the Bidder

Column 6: Bidder’s Compliance. In this column the Bidders must specify that their Proposal is compliant or non-compliant to the Mandatory requirements; or compliant, non-compliant or not-provided to the Rated requirements. The Bidder can describe its compliance to these requirements as stated above by using the words "COMPLIANT", "NON-COMPLIANT" or “NOT PROVIDED”.

The aforementioned compliance terms have the following meanings:

- 1) COMPLIANT indicates that the Bidder claims that his solution complies totally with the Mandatory technical requirement, or completely or partially achieves the Rated technical requirements, and that the Bidder has submitted all information and supporting documentation requested.
- 2) NON-COMPLIANT indicates that the Bidder cannot claim that the proposed solution meets the Mandatory technical requirement. It automatically makes a Bidder’s proposal non-compliant.
- 3) NOT PROVIDED indicates that the Bidder’s proposal does not provide a solution to this Rated requirement. No points will be awarded.

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Column 7: Bidder's Response. In this column the Bidders must, when requested in column 5, "Instructions To Bidder", provide a description of compliance to Mandatory or Rated requirements by providing a statement which clearly supports/justifies the response provided as requested under the columns "Instructions To Bidders" and "Evaluation Criteria and Scale"; and/or demonstrate compliance to Mandatory or Rated requirements by providing features or characteristics with Original Equipment Manufacturer (OEM) or vendor published specifications, manuals, brochures or test data. This documentation must be included with the proposal; and when referring to other portions of the proposal, should include clear directions regarding where the relevant information required for evaluation can be found. References to Web pages are forbidden. The Bidder's proposal must be complete by itself.

4.2 Microsoft Excel® OmegaPS Analyzer workbook

Detailed instructions on the requirements of each line item in the worksheets can be found at ISSP Volume 1, Annex CF, Appendix 1 Life Cycle Costing Data Requirements Preparation Instructions. Each worksheet within the workbook contains 'Additional Instructions' located near the top of the worksheet page. The definition of each data item is available by placing the cursor over the column header in the template.

It is imperative that all six (6) worksheets be reviewed and completed as instructed. Submitted data will be validated and scored for completeness and consistency with the bidder's proposed Maintenance Plan, and other provided information, in accordance with the preparation instructions and LCC Compliance Matrix.

All template data fields must have a value entered unless specifically stated otherwise. If the value is zero, then ensure a zero (0) is entered in the cell. Any blank or empty cells will be interpreted to have a value of zero (0) if it is a number field or as a null value if it is a text field.

5 Instructions to Bidders for Completing Workbooks

The Bidder must use the worksheet descriptions from section 4 of this document, additional information from the RFP and the format restrictions, both located in this section of this document to complete the worksheets.

5.1 Additional Instructions

As part of the RFP, Bidders are provided with bid instructions, evaluation methodology and additional information for each of the workbooks and worksheets that are to be completed. These documents are not included in the MCM Epackage and are found in the annexes referred to below, unless otherwise specified.

ISS_A_TechnicalMCM_V1.XLS additional instructions and information is found in:
Volume 1 Annex CB App 1 ISS-A Technical Performance Specification (TPS) Bid Preparation Instructions

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Volume 1 Annex CC

ISS-A Technical Evaluation

ISS_A_ManagementMCM_V1.XLS additional instructions and information is found in:

Volume 1 Annex CD

ISS-A Management Bid Preparation Instructions

Volume 1 Annex CE

ISS-A Management Bid Evaluation

ISS_OWSS_TechnicalMCM_V1.XLS additional instructions and information is found in:

Volume 1 Annex CF

ISS-OWSS Technical Bid Preparation Instructions

Volume 1 Annex CG

ISS-OWSS Technical Bid Evaluation

ISS_OWSS_ManagementMCM_V1.XLS additional instructions and information is found in:

Volume 1 Annex CH

ISS-OWSS Management Bid Preparation Instructions

Volume 1 Annex CI

ISS-OWSS Management Bid Evaluation

ISS-LCC_Templates_V1.XLS additional instructions and information is found in:

Volume 1 Annex CF

ISS-OWSS Technical Bid Preparation Instructions

Volume 1 Annex CF App 1

Life Cycle Costing Data Requirements Preparation Instructions

Volume 1 Annex CG

ISS-OWSS Technical Bid Evaluation

Volume 1 Annex CG App 2

Life Cycle Costing Evaluation - LCC Analysis Details using OmegaPS Analyzer;

‘The Omega PS Analyzer Users Reference Guide’, which is found in the following location

only: ISSP_PÉIS_RFP_EPackage/English/ISSP_LCC/ OMEGAPS_Analyzer-R4_3_URG.PDF

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5.2 Format Restrictions

The Bidder must use the format provided in each worksheet with no alterations.

The Bidder must only enter information into column 6, ‘Bidder’s Compliance’ and Column 7, ‘Bidder’s Response’.

The Bidder must not imbed (i.e. paste, drag-and-drop) objects (e.g. icons, files, etc.) in any column.

The Excel® worksheets will be saved as a “CSV” or “TSV” files during the import into DOORS®.

The conversion from Excel® to a text only spreadsheet format will strip any embedded objects and any formatting of the text.

Only non-formatted textual input will be imported into DOORS® and the OmegaPS Analyzer for evaluation purposes. Embedded objects will not be imported into DOORS®.

MS Excel has a limit of 1024 characters that will be displayed per cell. If a response is longer or requires the inclusion of imbedded objects, the Bidder should provide a summary of their response and make reference to where in the submission the full response can be found.

6 MCM and LCC Electronic Response Package Submission

Bidders must submit their completed MCM and LCC Electronic Response Package in accordance with Volume 1, 'Instructions to Bidders' section 3.2.

ANNEX CB TO VOLUME 1

Section II- ISS-A Technical Bid Preparation Instructions

This Annex details how the Bidders are to prepare their Section II-ISS-A Technical Bid and outlines the structure of the ISS-A Technical Bid Evaluation.

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1. General

1.1 In their Section II – ISS-A Technical Bid, Bidders should demonstrate their understanding of the requirements contained in the RFP Volume 2 Module C and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

1.2 The Section II – ISS-A Technical Bid should address clearly and in sufficient depth the technical requirements that are subject to evaluation. Simply addressing a requirement by retyping it as a response is not sufficient. To avoid duplication, Bidders may refer to different portions of their bid by identifying the specific document, paragraph and page number where the subject topic has already been addressed.

1.3 In order to assist the Bidders in the preparation of their Section II – ISS-A Technical Bid, Canada is providing the matrix of compliance “Technical Performance Specification (TPS) Evaluation Compliance Matrix”. Bidders must use the above matrix of compliance to establish full and unreserved compliance with all the technical mandatory requirements and with the rated requirements met by the Bidder’s proposed solution and must include the matrix in their Section II – ISS-A Technical Bid. Further directions are provided in Appendix 1.

1.4 Additional information located in Appendix 3 to Annex CB to Volume 1 provides Bidders with a list of Government Furnished Information (GFI) required in order to prepare their Section II-ISS-A Technical Bid

1.5 There are three additional matrices of compliance called “Performance Evaluation (PE) Compliance Matrix”, “P (Bid) Evaluation Compliance Matrix”, and “User Acceptance Performance Evaluation (UAPE) Compliance Matrix”. These matrices will be completed by Canada.

2. Technical Bid Evaluation Composition

2.1 The overall Technical Bid evaluation consists of the following parts:

2.1.1 The Technical Performance Specification (TPS) Evaluation; and

2.1.2 The Performance Evaluation (PE) which consists of three parts:

2.1.2.1 Performance Evaluation (PE) Evaluation;

2.1.2.2 P(Bid) Evaluation; and

2.1.2.3 User Acceptance Performance Evaluation (UAPE).

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2.2 The Technical Performance Specification (TPS) Evaluation consists of the evaluation of the written responses to the TPS Evaluation Compliance Matrix. Instructions on how to complete the TPS Evaluation Compliance Matrix can be found in Appendix 1. The TPS Evaluation Compliance Matrix includes requirements extracted from the TPS at RFP Appendix 1 to Annex CB to Volume 2. Evaluation will be based on the Bidder's response included in the matrix which must, when requested, include a written description or analysis of how his proposed solution meets the requirement. The Matrix of Compliance is found at RFP Appendix 1 to Annex CC to Volume 1.

2.3 The Performance Evaluation (PE) consists of the following three parts:

2.3.1 The Performance Evaluation (PE) will consist of the evaluation of the Mandatory deliverables specified at RFP Appendix 2 to Annex CB to Volume 1. The Performance Evaluation (PE) Mandatory Evaluation Criteria Compliance Matrix, completed by Canada, is found at RFP Appendix 1 to Annex CC to Volume 1.

2.3.2 The P (Bid) Evaluation will consist of a practical evaluation of selected requirements of the Bidders proposed P(Bid) ISSP System. The P (Bid) Evaluation Compliance Matrix is made up of those requirements extracted from the Technical Performance Specification (TPS) at RFP Appendix 1 to Annex CB to Volume 2 that are best evaluated in a practical manner. Evaluation will take the form of a visual inspection by Canada, a demonstration of the function by the Bidder, or the performance of a test of the function by the Bidder or by Canada to establish that the P (Bid) ISS Systems meet the mandatory requirements at bid time and to determine a resulting score for those requirements that are rated. The Matrix of Compliance, completed by Canada, is found at RFP Appendix 2 to Annex CC to Volume 1.

2.3.3 The User Acceptance Performance Evaluation (UAPE) will consist of a practical evaluation by soldiers of the Bidders proposed P (Bid) ISSP System. The User Acceptance Performance Evaluation (UAPE) Compliance Matrix consists of those requirements taken from the User Acceptance Performance Specification (UAPS) at RFP Appendix 2 to Annex CB to Volume 2. Evaluation will be by Canada to confirm that the P (Bid) ISS Systems meet the mandatory UAPS requirements at bid time and to determine a resulting score for those requirements that are rated that will for a portion of the basis of selection. The matrix of compliance, completed by Canada, is found at RFP Appendix 3 to Annex CC to Volume 1.

3. Compliance Matrices

3.1 The Technical Evaluation Compliance Matrices are to assist the Bidders in preparing for the Evaluation activities, completing their response, or demonstrating their compliance to the technical requirements of the RFP.

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3.2. Each part of the Technical Bid has a unique Compliance Matrix. The Preparation Instructions for each part provide detailed explanations of the content of the associated Compliance Matrix and, where required, instructions on how they are to be completed.

4. TPS Compliance Matrix

4.1 The TPS Compliance Matrix can also be found in electronic format in the Microsoft Excel ® MCM RFP package referred to in section 2.7 of Volume 1. The TPS requirements Matrix of Compliance formatted for Microsoft Excel ® is found in the file called "ISS_A_TechnicalMCM_Vx.XLS". Completion of the compliance matrix, as per Annex CC, is a mandatory requirement.

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APPENDIX 1 TO ANNEX CB TO VOLUME 1

ISS-A Technical Performance Specification (TPS) Bid Preparation Instructions

This Appendix is to assist Bidders in preparing for the Technical Performance Specification (TPS) Evaluation.

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1. General

1.1 As part of the overall RFP evaluation process, the Bidder's proposed Integrated Soldier System (ISS) will undergo an evaluation of the written responses to the Technical Performance Specification (TPS).

2. Technical Performance Specification (TPS) Compliance Matrix

2.1 To assist Bidders in completing their response, a Technical Performance Specification (TPS) Compliance Matrix is provided.

2.2 Bidders must use the matrix of compliance to establish full and unreserved compliance with all of the technical mandatory requirements and with the rated requirements met by the Bidder's proposed solution and must include the matrix in their Section II – ISS-A Technical Bid.

2.3 The Technical Performance Specification (TPS) Compliance Matrix is found at RFP Appendix 1 to Annex CC to Volume 1. It is a carbon copy of the content of the Microsoft Excel Matrix of Compliance Module (MCM) file "ISS_A_TechnicalMCM_Vx.XLS" (see RFP article 2.7 of Volume 1).

2.4 The matrix has the following columns:

INFORMATION PROVIDED WITH THE RFP:

- | | |
|----------|---|
| Column 1 | This section provides sequential numbering; |
| Column 2 | This section specifies the TPS requirement unique identification number from Annex CB of Volume 2; |
| Column 3 | <u>Requirement Statement</u> : Provided by Canada, this is the requirement statement from Annex CB of Volume 2; |
| Column 4 | <u>Requirement Category (Reqmt Cat)</u> : This column specifies if the requirement is a Mandatory requirement with the designation "M", or a Point Rated requirement with the designation "R". |
-
- | | |
|-----------|--|
| M: | when the requirement category is indicated as "M", the Mandatory requirement is evaluated based on the Bidder's response. |
| R: | when the requirement category is indicated as "R", the Rated requirement is evaluated based on the Bidders response and is assigned a score based on the established Evaluation Criteria and Scale. A score will be given for each rated requirement and will be used to determine the Bidder's total technical score. |

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- Column 5 **Instructions To Bidder:** This column, provided by Canada, specifies the information to be provided that supports the Evaluation Method. It will be used by Canada to evaluate the Bidder's response. These additional instructions may refer to the RFP Volume 2 Module C annexes.
- Column 8 **Evaluation Criteria and Scale:** Provided by Canada, this column describes the details of how the Bidder's response will be evaluated to determine the Bidder's level of Compliance to the requirements. The evaluation criteria may refer to the RFP Volume 2 Module C annexes. This column also specifies the scoring method and the range of scores that will be used to assess each rated evaluation criterion.
- Column 9 **Max Score:** This column specifies the maximum number of points allocated for this requirement.

INFORMATION TO BE PROVIDED BY THE BIDDER:

- Column 6 **Bidder's Compliance:** In this column the Bidders must specify that their Proposal is compliant or non-compliant, to those requirements associated with the word "must" which are Mandatory; or compliant or not provided to those requirements that are rated which are Point Rated. The Bidder can describe its compliance to these requirements as stated above by using the words "COMPLIANT", "NON-COMPLIANT" or "NOT PROVIDED".

The aforementioned compliance terms have the following meanings:

- 1) COMPLIANT indicates that the Bidder claims that his solution complies totally with the Mandatory technical requirement, or completely or partially achieves the Rated technical requirements, and that the Bidder has submitted all information and supporting documentation requested.
- 2) NON-COMPLIANT indicates that the Bidder cannot claim that the proposed solution meets the Mandatory technical requirement. It automatically makes a Bidder's proposal non-compliant.
- 3) NOT PROVIDED indicates that the Bidder's proposal does not provide a solution to this Rated requirement. No points will be awarded.

- Column 7 **Bidder's Response:** In this column the Bidders must, when requested in column 5 titled "Instructions To Bidder", provide a description of compliance to Mandatory or Rated requirements by providing a statement which clearly supports/justifies the response provided as requested under the columns "Instructions To Bidders" and "Evaluation Criteria and Scale"; and/or demonstrate compliance to Mandatory or Rated requirements by providing features or characteristics with Original Equipment Manufacturer (OEM) or vendor published specifications, manuals, brochures or test data. This

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documentation must be included with the proposal; and when referring to other portions of their proposal, should include clear directions regarding where the relevant information required for evaluation can be found. References to Web pages are forbidden. The Bidder's proposal must be complete by itself.

2.7 Completion of the Matrix

- 2.7.1 It is recommended that the Bidders prepare their technical proposal using the electronic version in the Microsoft Excel[®] MCM RFP package referred to in section 2.7 of Volume 1, and then prepare the soft and hard copies as requested at RFP articles 3.2 to Volume 1.

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APPENDIX 2 TO ANNEX CB TO VOLUME 1

ISS-A Performance Evaluation (PE) Preparation Instructions

This appendix provides bidders with instructions on how to prepare their proposal “Section II - Performance Evaluation”.

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1. General

1.1 As part of the overall RFP evaluation process, the Bidder's proposed Integrated Soldier System (ISS-S) will undergo two practical performance evaluations: a P (Bid) Evaluation and a User Acceptance Performance Evaluation (UAPE). The details of the evaluations can be found in the Bid Preparation Instructions at RFP Attachments 1 and 2 to Appendix 2 to Annex CB to Volume 1.

2. Overall Concept

2.1. The PE provides an opportunity for Bidders to physically demonstrate the capabilities of their system. The P(Bid) Evaluation focuses on selected technical requirements that are best evaluated through a practical demonstration of capability. The UAPE focuses on selected human factors technical requirements that are best evaluated through a hands-on physical evaluation by a representative population of users under controlled scientific conditions. The combined evaluations also enables Canada to assess the technical level of risk associated with achieving full qualification of the proposed system within the proposed schedule and budget.

3. Conduct of PE

3.1 Phases. The PE is broken into four distinct phases: Phase 1- Delivery and Audit of Bid Systems, Phase 2 - The Prototype Bid Evaluation (P(Bid) Eval), Phase 3 -The User Acceptance Performance Evaluation (UAPE) and Phase 4 –Bid Systems Retention / Return.

3.2 Order of Presentation. Following bid closure, Bidders will be randomly selected to determine their order of presentation. However, to ensure no Bidder receives an advantage by having additional time to develop their system, all Bidders must deliver their P (Bid) systems prior to the start of the PE, where they will be placed in quarantine until required for evaluation.

3.3 Bid Systems.

3.3.1 Bidders are to meet the following requirements:

3.3.1.1 The Bidder must deliver ten (10) proposed ISS-S systems (referred to as the P (Bid) System) excluding the DAGR Interface Cables, the CORAL-CR-C Interface Cables and the LCSS Radio Interface Cable Sets. The P(Bid) Systems delivered should match the Equipment Breakdown Structure (EBS) except for the exclusions noted above found in Volume 2 Annex CC Appendix 2;

3.3.1.2 The Bidder must deliver twenty-four (24) MLCS Platforms - twelve (12) of small size and twelve (12) of medium size;

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3.3.1.3 The Bidder must deliver twelve (12) sets of MLCS ISS pouches;

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3.3.1.4 The Bidder should deliver three (3) complete inventory list of all equipment supplied containing applicable serial numbers and software versions;

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3.3.1.5 The Bidder must deliver one (1) proposed SEP-Suite software on a CD/DVD;

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3.3.1.6 The Bidder must deliver one laptop with the SEP-Suite software installed, and all hardware that is required by the SEP-Suite to configure the ISS-S;

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3.3.1.7 The Bidder should deliver one copy of the Equipment Breakdown Structure (EBS), prepared in accordance with DID CM-005 found in Volume 2 Annex CC Appendix 2, which represents the above P(Bid) system;

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3.3.1.8 The Bidder should deliver the proposed ISS-S systems in a single container or series of lockable containers which should be clearly identified by company name; and

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3.3.1.9 The Bidder must deliver the P(BID) to the designated Canadian Forces Base on the date and location stated in the PE invitation in accordance with article 2.6.4 of Volume 1, Invitations to PE activities.

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3.3.2 For the purpose of the Performance Evaluation (PE), the MLCS' main fabric, binding tapes, webbing and all other MLCS materials must be submitted in monochrome colour Coyote Brown or a close visual match to Coyote Brown. The elastics and polyester mesh can be submitted in black instead of the aforementioned colours if so desired. Furthermore, for the purpose of the Performance Evaluation (PE) the 1000 denier Cordura must be a commercially available cloth in accordance with Mil-C-43734D Class 3.

3.4 Order of Events. The Bidder must be prepared to participate in all four phases of the PE as described below:

3.4.1 Phase 1 – Delivery and Audit of Bid Systems

Bidders will be informed as per Article 2.6.4 of Volume 1 as to the timings and location for the delivery and audit of their Bid Systems. The bid systems should arrive in lockable container such that at the end of Phase 1 they will be locked by the Bidder and held by the PE staff in a secure facility until Phase 2. This process will take approximately five (5) hours; and

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Bidders will be informed as per Article 2.6.4 of Volume 1 as to the timings and location of the Bidder's coordination meeting. This process will take approximately two (2) hours and will provide guidance on timing for the coming P(Bid) Eval and UAPE.

3.4.2 Phase 2 – P(Bid) Eval.

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Bidders will be informed as per Article 2.6.4 of Volume 1 as to the timings and location for the P (Bid) Eval. The conduct of the P (Bid) Eval can be found at Attachment 1 to Appendix 2 to Annex CB. An allowance has been made for drawing and systems check prior to the conduct of the evaluation. During the P (Bid) Eval, the Bidder will be asked to present and demonstrate to the ISSP Technical Evaluation Team how their system meets a given number of P (Bid) Eval requirements as per Appendix 3 to Annex CC.. The duration is approximately a full working day.

3.4.3 Phase 3 – UAPE.

3.4.3.1 Bidders will be informed as per Article 2.6.4 of Volume 1 as to the timings and location for the UAPE. Each Bid system will be evaluated over a period of 6 weeks;

3.4.3.2 During the conduct of the UAPE, experienced Canadian Forces soldiers (referred to as Performance Evaluation Soldiers) will evaluate each system in a series of controlled operational scenarios and their assessments will contribute to bid selection. The UAPE will be progressive in nature, conducted first in a classroom and then moving to the field to conduct missions both during the day and night under any weather condition;

3.4.3.3 For scientific rigor each bid system will be evaluated three times by three different groups of soldiers. An evaluation period will be two weeks duration over the same UAPE test stands (three Performance Evaluation Sections x two weeks = six weeks);

3.4.3.4 Bidders will be required to provide training and mentoring during week one of each UAPE block in accordance with volume 1 Annex CB Appendix 2 Attachment 2.

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3.4.3.5 The objective of the UAPE is for users to evaluate the performance of each system and not the availability of the bid systems. As such the protocols listed below will be used to compensate for bid systems down time; and

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3.4.3.6 Bidders will be required to have a technician readily available to repair their ISS bid system, as required, during scheduled UAPE stands. The Crown is under no obligation to telephone or search for technicians.

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3.4.4 Phase 4 – Bid System Return / Retention.

At the completion of the UAPE, Bidders will be required to assume custody of their bid systems/assets. One ISS-S per Bidder as well as the SEP-Suite software on a CD/DVD and all hardware (excluding the laptop with the SEP-Suite software installed) that is

required by the SEP-Suite to configure the ISS-S will be retained by the Crown until Contract Award for the purpose of configuration control.

3.5 Radio Frequencies. Bidder will receive their assigned radio frequencies prior to participation in the P (Bid) Evaluation or UAPE.

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<#>Universal Canalphones. Bidders will be granted the opportunity to train the Evaluation Soldiers on their respective universal canalphones such that they mitigate the number of fitting issues. Bidders are limited to 30 minutes for each group of ten (10) Evaluation soldiers.. Time of access to soldiers will be prior to the Training Stand. Bidders' will be expected to run this sessions three (3) times during their six (6) week UAPE block . ¶

3.6 Consumables and Spare Parts. Bidders shall come prepared with sufficient consumables (i.e. power sources), Line Replacement Units (LRUs), spare parts and testing equipment for the duration of the PE. Consumables are not to be turned in during the Phase 1 and will not be stored by PE staff.

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4. Delivery and Audit of Bid Systems

4.1 Delivery. Bidders will deliver their P(Bid) Systems to the designated facility at the time specified. Systems should be delivered in a single container or series of lockable containers which should be clearly identified. Identification should include the Bidder's distinct identifier and a numeric identifier i.e. SMITH INDUSTRIES '1 of 3' on each container.

4.2 Inventory Audit. Based on the Bidder's inventory list from Section 3.3, the proposed ISS-S Systems will undergo an inventory check/audit against the serial numbers. The systems will be physically inspected for visible damage, and may be photographed.

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4.3 Storage. The systems will be packed in their storage containers by the Bidder and then locked in a storage facility by DND.

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4.4 Additional Item Storage. Bidders may request storage of additional locked containers of spares and power sources as part of their total package, subject to the availability of storage capacity.

4.5 Storage Access Control. Access to the storage facility and P (Bid) Systems will be controlled. Access will be pre-arranged and notified to Bidders in support of their participation in the PE schedule. For additional access, Bidders should contact the Evaluation Controlling Officer (EC O).

5. Access

5.1 Participants. Each Bidder will be limited to a maximum of six (6) personnel in the PE camp at any one time.

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5.2 Control. Access during the PE will be strictly controlled.

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5.3 Access Requests. DND will manage all access requests to the Canadian Forces Base selected for the PE. Bidders must provide a list of personnel who require access to the PE site to the Evaluation Controlling Officer (EC O) on the day of the delivery and audit of their P(Bid) Systems. The following information is to be provided:

Deleted: for universal canalphone education as stated above in para 3.5.

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- a) The full name of each Bidder representative,
- b) Contact phone, pager, or cell phone;
- c) Role of representative in support of the PE; and
- d) Vehicle particulars.

5.4 Visitors and VIPs. To ensure that participant opinions and insights are uniquely their own, sources of potential bias and unintentional influence must be controlled. While most sources of bias and influence are benign and unintentional, their impact on participant opinions and state of mind during the trial may have an effect and must be controlled to ensure valid and reliable results. Bidders will not be authorized to bring visitors or VIPs to any portion of the PE.

6. Administration

6.1 Transportation. Bidders will be responsible for their own transportation requirements. As road conditions may be poor, 4x4 vehicles are recommended.

6.2 Accommodations. Bidders will be required to provide their own accommodations.

6.3 Meals. Bidders are to come prepared with sufficient food and water for each day of testing. Once testing commences daily, Bidders may not have sufficient time to depart until the end of the testing day.

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6.4 Weather. Bidders are to come prepared for long hours in the outdoors, un-groomed terrain and variable weather. Each evaluation test day will continue until all scheduled items have been completed. In the unlikely circumstances that the PE is delayed as a result of weather, Bidders will be required to remain for the number of days required to recoup the missed portions of the evaluation.

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6.5 Communications. Bid participants will be permitted to use cell phones. Access to cellular telephone coverage cannot be guaranteed.

6.6 Workspace. Bidder will not be provided with an indoor workspace in the PE Camp. Each Bid team will be assigned a roped off area of approximately 10 meters x 10 meters to park vehicles, equipment, trailers and to conduct maintenance.

6.7 Language. PE will be conducted in English; therefore all material, information, training and GUIs must be presented in English.

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7. Safety

7.1 Range Safety Briefing. Upon arrival at the test site each day all Bidders are required to obtain a General Safety Briefing. Safety and environmental protection are of high priority for the Department of National Defence and Range Safety Orders must be followed. The briefing will cover items such as the weather, communications, areas that are out of bounds and range safety.

8. Key Appointments

8.1. The following personnel will be involved with the key aspects of the PE.

8.1.1 Evaluation Controlling Officer (EC O). Responsible for the logistics and control of the PE camp, the EC O is the main point of contact for Bidders.

Deleted: The EC O is responsible for the delivery and audit of the ISS Bid Systems.

8.1.2 Officer In Charge Performance Evaluation (OIC PE) - HF Advisor. Responsible for the overall conduct of the PE as well as being the scientific authority for the UAPE. The Human Factors Testing Staff, who are responsible for the gathering/analyzing the data collected during the UAPE, report to the OIC PE;

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8.1.3 Systems Engineering Manager (SEM). Responsible for the delivery and audit of the ISS P(Bid) Systems and for the evaluation of the P(Bid) Eval.;

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8.1.4 Land Staff Liaison Officer. Responsible to provide liaison between the Supporting Base, the Army and the PE Staff.

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ATTACHMENT 1 TO APPENDIX 2 TO ANNEX CB TO VOLUME 1

ISS-A P (Bid) Evaluation Preparation Instructions

This Attachment is to assist Bidders in preparing their P(Bid) Evaluation.

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1. General

1.1 As part of the overall RFP evaluation process, the proposed Integrated Soldier System (ISS) will undergo a Performance Evaluation (PE), consisting of two parts: Part 1 will be the P (Bid) Evaluation and Part 2 will be User Acceptance Performance Evaluation (UAPE).

1.2 The P (Bid) Evaluation will precede the UAPE.

2. Overall Concept

2.1 The P (Bid) Evaluation is to determine the extent of compliance to selected Technical Performance Specification (TPS) requirements through a hands-on evaluation of the Bidder's P (Bid) ISS System.

3. Conduct of P (Bid) Evaluation

3.1 Bidders will be informed of their P (Bid) Evaluation date and location in accordance with Section 2.6.4 of Volume 1.

3.2 Each Bidder will be allocated one day to complete the Evaluation as detailed in Section 5.

3.3 The P (Bid) Evaluation will be progressive in nature, conducted first in a classroom and then moving to an outdoor open space area in order to establish an ISS-S Network for basic Information Exchanges.

3.4 The evaluation of the P(Bid) MLCS Platform and MLCS ISS Pouches will be conducted separately by DND SMEs. The evaluation will take place in a separate room where the Bidders representative will not be allowed to be present. The time allocated for the evaluation will be from 9h to 17h.

4. Systems Preparation

4.1 Access to Storage Facility. Bidders will be required to access the Bid Systems Storage Facility the morning of the P (Bid) Evaluation in order to confirm the condition and inventory of their systems.

4.2 Preparation Area. A preparation area will be provided to Bidders where they will be able to confirm the functionality of their ISS Systems prior to the commencement of the P (Bid) Evaluation. The preparation area will have standard 110v outlets for power. Bidders will be accompanied by at least one PMO ISSP personnel.

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4.3 **Power.** Bidders must ensure they have arranged for sufficient batteries for the conduct of the P (Bid) Evaluation.

4.4 **Bid Systems Requirements.** For the conduct of the P (Bid) Evaluation, Bidders are required to provide five (5) ISS-S systems, including MLCS of Medium size for each system. An additional ten (10) MLCS, five (5) of Small size and five (5) of Medium size, will also be required for the evaluation of TPS-5373 and TPS-5381 which will occur separately.

4.5 **Portable Computer.** As part of the conduct of the P (Bid) Evaluation, there is a requirement for Bidders to use the SEP Suite in order to perform the demonstrations of TPS-1816, TPS-1818 and TPS-1139. As such, Bidders are required to use the laptop with the SEP-Suite software that they have delivered as per Volume 1, Annex CB, Appendix 2 to execute the demonstrations.

4.6 **Maps.** Bidders will be required to utilize digital maps during the P (Bid) Evaluation as described in Serial 10 of Table 1 – P (Bid) Evaluation Compliance Matrix found in Appendix 3 of Annex CC. The following map set will be included as part of the Government Furnished Information (GFI) portion of the Request For Proposal (RFP). Instructions on requesting this information are found at RFP Volume 1 Section 3.4. The maps will be provided in the different formats specified in TPS-1921.

- 1 x CADRG Map (DSSPM Data Files - Evaluation Area Maps: ~~TBD ...~~);
- 1 x GeoPDF Map (DSSPM Data Files - Evaluation Area Maps: ~~TBD ...~~); and
- 1 x GeoTiff Map (DSSPM Data Files - Evaluation Area Maps: ~~TBD ...~~).

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5. Sequence of Events

5.1 The following table outlines the general timings planned for each activity of the P (Bid) Evaluation and their planned durations.

Timings	Activity	Location	Remarks
0800-0830	ISS-S Systems Pick-up	Storage Facility Transit Evaluation Site – Preparation Area	Bidder to confirm their system is complete and transportation to Evaluation Site.
0830-0900	Introduction and Briefing	Evaluation Site – Preparation Area	PMO ISSP to provide to Bidder a general briefing on the conduct of the P (Bid) Evaluation.
0900-1130	System Preparation	Evaluation Site – Preparation Area	Opportunity for Bidder to prepare and set-up their system for the conduct of the P (Bid) Eval.
1130-1230	Lunch		
1230-1730	P (Bid) Evaluation	Evaluation Site – Classroom: Serial 1-30 and 51-62 will be completed	The Bidder is expected to be ready to start the P (Bid) Evaluation at 1230.

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		indoors. Outdoor: Serial 32-49 will be conducted outdoors.	

6. Non-Compliant Bid

6.1 Failure to successfully complete all the assigned tests/demonstrations of Mandatory requirements will result in a non-compliant bid.

6.2 Failure to establish full and unreserved compliance with the Mandatory requirements will result in no further consideration being given to the bid.

7. Compliance Matrix

7.1 The Compliance Matrix is filled in by Canada.

7.2 The matrix has the following columns:

Column 1 Serial: This section provides sequential paragraph numbering;

Column 2 TPS Reference: This section specifies the TPS Reference Number as per Appendix 1 of Annex CB, Volume 2;

Column 3 Requirement Statement: This section specifies the Requirement Statement as per Appendix 1 of Annex CB, Volume 2;

Column 4 Requirement Category: Indicates if the Requirement is a Mandatory requirement with the designation “M”, or a Point Rated requirement with the designation “R”;

M: when the requirement category is indicated as “M”, the Mandatory requirement is evaluated based on the Bidder’s ability to establish full and unreserved compliance with the requirement; and

R: when the requirement category is indicated as “R”, the Rated requirement is evaluated on the Bidders response and is assigned a score based on the established Evaluation Criteria and Scale. A score will be given for each Rated requirement and will be used to determine the Bidder’s total P(Bid) score.

Column 5 Evaluation Method: Indicates if the Requirement is to be evaluated via a Visual Inspection, a Demonstration of Function or Test of Function;

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- Column 6 Instructions to Bidder: This section specifies instructions to Bidders to meet the respective evaluation requirements;
- Column 7 Evaluation Criteria and Scale: Provided by Canada, this column describes the details of how the bidder's response will be evaluated to determine the Bidder's level of Compliance to the requirements. This column also specifies the scoring method and the range of scores that will be used to assess each rated evaluation criterion; and
- Column 8 Max Score: This column specifies the maximum number of points allocated for this requirement.

8. P (Bid) Evaluation Compliance Matrix

8.1 The P (Bid) Evaluation Compliance Matrix can be found as Table 1 to RFP Volume 1 Appendix 3 to Annex CC.

NEW CONTENT!!

ATTACHMENT 2

TO APPENDIX 2 TO ANNEX CB TO VOLUME 1

ISS-A

User Acceptance Performance Evaluation (UAPE)

Preparation Instructions

This Attachment advises Bidders on how to prepare their bid for the Section II – ISS-A UAPE Evaluation.

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7. General Schedule for a typical UAPE Block.....	7
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9. UAPE Compliance Matrices.....	9

This attachment has been modified considerably to present a new delivery approach to the UAPE taking into account past lessons learned and feedback. Some highlights:

- Construct of six-week UAPE remains (three block of two weeks each)
- Construct of a 10 soldier-section evaluating a P(Bid) system over a two-week period remains
- Ten P(Bid) systems per bidder required for UAPE
- Bidders have significant training opportunities to instruct evaluation soldiers on their respective P(Bid) systems (1st week of each UAPE block):
 - Three days of instruction to prepare soldiers for the Test Stands execution; and
 - Two days of bidders assistance to the UAPE control staff while evaluation soldiers execute each Test Stand
- P(Bid) system will be employed in dynamic scenarios where evaluation soldiers will be issued various tactical missions by the UAPE Officer in Charge and will be required to execute battle procedure using the P(Bid) systems to complete their mission. Duration: three days – day and night operations (2nd week of each UAPE block)

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ENCLOSURE 1 TO ATTACHMENT 2 TO APPENDIX 2 TO ANNEX CB TO VOLUME 1

UAPE Test Stands –

CURRENTLY UNDER REVISION TO REFLECT NEW DELIVERY APPROACH TO UAPE AS PRESENTED IN THE UAPE PREPARATIONS INSTRUCTIONS

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<u>Test Stand #6 Visual Display Usability (Daytime)</u>	Page 32
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APPENDIX 3 TO ANNEX CB TO VOLUME 1

Government Furnished Information (GFI)

This appendix provides Bidders with a list of Government Furnished Information (GFI) required in order to prepare their Section II-ISS-A Technical Bid”.

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1. General

1.1 Throughout the Technical Performance Specification (TPS), the User Acceptance Performance Evaluation (UAPE) and the P(Bid) Evaluation, there are requirements that either refer to specific GFI items or will require data that will be available as GFI. GFI Items available for the preparation of the Technical Bid can be found in para 2 of this document.

2. GFI List

2.1. The following list includes GFI Items for which Bidders can obtain upon request:

- a) B-GL-332-008/FP-001 Insert - Infantry;
- b) B-GL-334-001/FP-001 Standing Operating Procedures (SOP) for Land Operations;
- c) CORAL-CR-C ICDs - Laser Range Finder and Thermal Imager;
- d) CS-108 Drawing of an Eyelet;
- e) CS-110 Drawing of a Spur Washer;
- f) D-02-002-001/SG-001 Labels and Markings;
- g) D-80-001-055/SF-001 Label, Clothing and Equipment;
- h) D-80-001-091/SF-001 Cloth, Plain Weave Nylon, 230 g/m²;
- i) D-80-001-500/SF-001 CADPAT™ TW
- j) D-LM-008-002/SF-001 Specification for Marking and Storage and Shipment;
- k) D-LM-008-036/SF-000 DND Minimum Requirements for Manufacture's Standard Pack;
- l) DSSPM 2-2-80-211 Specification for Cloth Coated Nylon/Polyurethane, 425g/m²;
- m) Evaluation Area Maps; and
- n) Sound Audio Files.

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ANNEX CC TO VOLUME 1

ISS – A Technical Evaluation

This Annex details how the Section II – ISS-A Technical Bid evaluation will be conducted.

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1. General

1.1 The overall Technical Bid evaluation consists of the following parts:

- a) The Technical Performance Specification (TPS) Evaluation; and
- b) The Performance Evaluation (PE) which consists of three parts:
 - i) A Performance Evaluation (PE) Mandatory Criteria Evaluation;
 - ii) A P(Bid) Evaluation; and,
 - iii) A User Acceptance Performance Evaluation (UAPE).

1.2 Instructions to Bidders for each part can be found at RFP Annex CB to Volume 1.

2. Conduct of the Technical Evaluation

2.1 The Technical Evaluation will be conducted in two parts:

- a) The written evaluation of the TPS. Evaluation will be based on the Bidder's response included in the TPS Compliance Matrix which must, when requested, include a written description or analysis of how their proposed solution meets the requirement at bid time or will meet the requirement post contract award. The evaluation will establish that all mandatory requirements at bid time have been met and determine a resulting score for those requirements that are rated; and
- b) The practical evaluation, referred to as the Performance Evaluation (PE). This has three components:
 - i) The Performance Evaluation (PE). Evaluation will be based on compliance with the Mandatory Criteria;
 - ii) The P (Bid) Evaluation. Evaluation will be based on the stated Evaluation Method, which will take the form of a visual inspection by Canada, a demonstration of the function by the Bidder, or the performance of a test of the function by the Bidder or by Canada to establish that the P (Bid) ISS-S Systems meet the mandatory requirements at bid time and to determine a resulting score for those rated requirements met by the Bidder's proposal: and,

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- iii) The UAPE. Evaluation will be by Canada to confirm that the P (Bid) ISS Systems meet the mandatory UAPS requirements at bid time and to determine a resulting score for those requirements that are rated that will be used as part of the basis of selection and will not contribute to the overall point allocation for Technical Evaluation.

3. Overall Points Allocation

3.1 The overall Technical Evaluation contributes 78% to the Acquisition Evaluation score. This is illustrated in Figure 1.

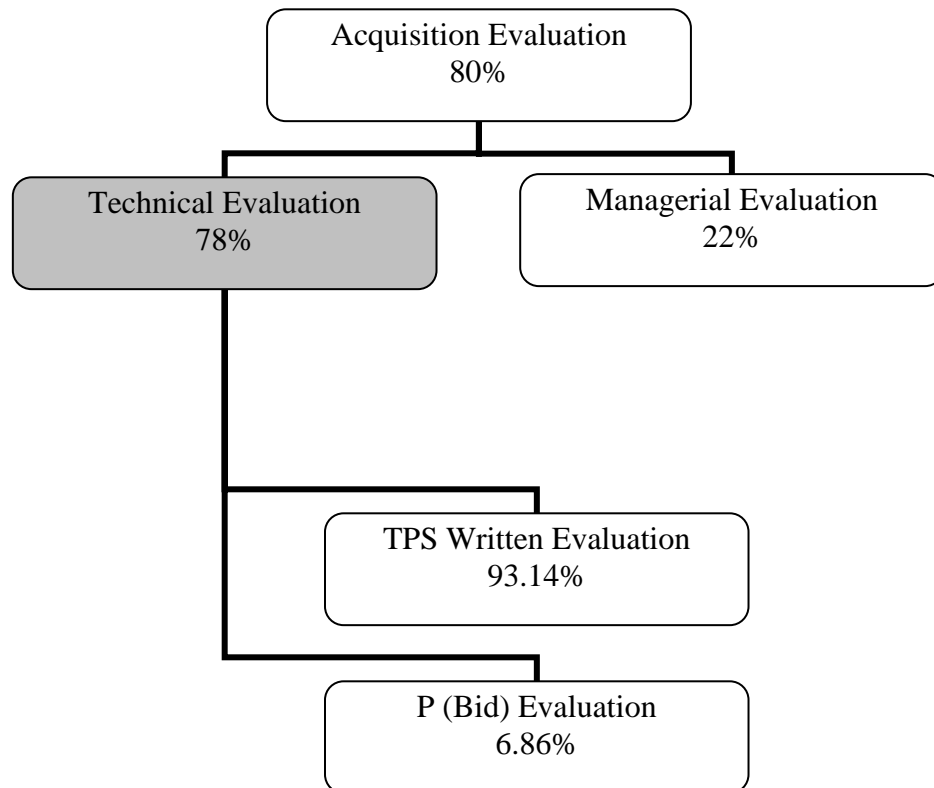


Figure 1 – Overall Allocation of Points

3.2 The overall TPS evaluation score is the combined total from the TPS Evaluation and the P (Bid) Evaluation.

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APPENDIX 1 TO ANNEX CC TO VOLUME 1

ISS – Acquisition Technical Performance Specification (TPS) Compliance Matrix

This Appendix details how the Technical Performance Specification (TPS) Evaluation will be conducted.

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1. TPS Evaluation Points Allocation

1.1 The overall Technical Performance Specification (TPS) evaluation contributes 78% to the Acquisition Evaluation score. Within this, the TPS Evaluation contributes 93.14% and the P (Bid) 6.86%. This is illustrated in Figure 1 of Annex CC.

2. Conduct of the Technical Performance Specification (TPS) Evaluation

2.1 The TPS Evaluation is based on the Bidder's responses to requirements extracted from the Technical Performance Specification (TPS) at Volume 2, Appendix 1 to Annex CB. These requirements form the TPS Evaluation Compliance Matrix.

3. Scoring Methodology

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3.1 Evaluation of requirements will be based on the Bidder's responses included in the TPS Compliance Matrix which must, when requested, include a written description or analysis of how his proposed solution meets the requirement at bid time or will meet the requirement post contract award. The written description may reference specific sections of the Bidder's submission that amplify the description or analysis and provide support to the claim of compliance or prove compliance.

3.2 Bidders are to note that evaluation of the Bidder's written response to the Compliance Matrix or any referenced part of the Bid submission may be adjusted based on the results of the practical Performance Evaluation (PE) as detailed in Volume 1 Part 4, Section 4.1.3.2.

3.3 For the TPS Evaluation a significant number of the requirements are Mandatory as per Column 4 of the Compliance Matrix. Failure to comply with all Mandatory requirements will result in a non-compliant bid.

3.4 The TPS Evaluation point allocation is made up from those requirements that are point rated. Those requirements have been assigned a Max Score as noted in Column 9 with the Evaluation Criteria and Scale as per Column 8 of the Compliance Matrix.

3.5 The Total of all assigned requirement scores will make up the TPS Evaluation. This Score will be entered into RFP Volume 1 Annex CJ.

4. TPS Evaluation Compliance Matrix

4.1 The TPS Evaluation Compliance Matrix is attached as Table 1.

4.2 The TPS Evaluation Compliance Matrix can also be found in electronic format in the Microsoft Excel® MCM RFP package referred to in section 2.7 of Volume 1. The TPS requirements Matrix of Compliance formatted for Microsoft Excel® is found in the file called "ISS_A_TechnicalMCM_V1.XLS".

Table 1 - Technical Performance Requirements (TPS) Evaluation Compliance Matrix

Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
1	2	3	4	5	6	7	8	9
1	TPS-3	Requirements						
2	TPS-73	System Level Requirements						
3	TPS-2369	General						
4	TPS-4786	General Characteristics						
5	TPS-2524	The ISS-S must have a way to prevent the devices that are part of the ISS-S from emitting visible light while allowing the User to perform voice communications using the ISS-CS and while the ISS-S still generates and transmits Blue PA information to the Blue PA COI.	M	The Bidder must describe how the ISS-S can be configured to not emit any light while voice communications and Blue PA generation and transmission still function normally.			The Bidder's proposal will be deemed compliant if the description proves that the User is able to configure the ISS-S such that it does not emit any visible light while voice communications and Blue PA generation and transmission still function normally.	
6	TPS-5106	The ISS-S must be fitted to the soldier without needing to be secured to any head borne equipment and without affecting the correct securing of the helmet.	M	The Bidder must describe how the ISS-S is intended to be configured so that it meets this requirement.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the ISS-S does not require to be secured to any head borne equipment and will not affect the correct securing of the helmet.	
7	TPS-5338	The ISS-S must not include storage devices that make use of moving parts to store and retrieve data, including but not limited to magnetic disks and optical drives.	M	The Bidder must describe every storage device used within the ISS-S.	-	-	The Bidder's proposal will be deemed compliant if the description proves that none of the storage devices used within the ISS-S make use of moving parts to store and retrieve data.	
8	TPS-5332	Human Systems Integration						
9	TPS-3239	The feedback provided by the ISS-S software should comply with the design criteria standards as prescribed in MIL-STD-1472F, section 5.14.5.2 Standby.	R	The Bidder should describe how the ISS-S indicates to the User that the ISS-S Tactical User Interface is not able to be interacted with when the ISS-S is working or busy.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that feedback is provided to the User when the Tactical User Interface is not able to be interacted with when the ISS-S is working or busy. The description should also	100

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Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
1	2	3	4	5	6	7	8	9
							include the criteria (time or other) used to generate the feedback.	
10	TPS-3240	The feedback provided by the ISS-S software should comply with the design criteria standards as prescribed in MIL-STD-1472F, section 5.14.5.3 Process outcome.	R	The Bidder should describe how the ISS-S indicates to the User that a control process sequence has been completed and how the ISS-S indicates to the User that a control process has been aborted.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that feedback is provided to the User when a control process is completed and what feedback is provided to the User when a control process is aborted. The description should include the feedback provided when a control process is aborted by the User and when a control process is aborted automatically by the ISS-S.	285
11	TPS-3261	The error management/data protection provided by the ISS-S software should comply with the design criteria standards as prescribed in MIL-STD-1472F, section 5.14.8.1 Error correction.	R	The Bidder should describe how the ISS-S allows the User to make corrections to data entered without having to re-enter the complete information.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the User can make corrections to data entered without having to re-enter the complete information.	285
12	TPS-4045	Environment, Health & Safety (EHS)						
13	TPS-4054	The ISS Rechargeable Batteries and the ISS-ES Internal Batteries if provided, must comply with the Cell Safety (para 3.5.3) and Battery Safety (para 3.16) requirements of MIL-PRF-32052(CR).	M	The Bidder must describe how the ISS Rechargeable Batteries meet this requirement. If ISS-ES Internal Batteries are part of the proposed solution, the Bidder must describe how the ISS-ES Internal Batteries meet this requirement.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the ISS Rechargeable Batteries and the ISS-ES Internal Batteries, if provided, are designed such that they meet the requirements stated in para 3.5.3 and in para 3.16 of MIL-PRF-32052(CR).	
14	TPS-78	Environmental						
15	TPS-291	Climatic / Natural Environments						
16	TPS-313	Operation - High Temperature						

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Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
1	2	3	4	5	6	7	8	9
17	TPS-5155	When exposed to temperatures above 49°C and up to 60°C in an operating (power-on) state, the ISS-S should continue to operate within normal performance limits or exhibit only a temporary loss or degradation of function that is self-recovered upon returning to its rated temperature range. Tested according to MIL-STD-810G, Method 501.5, Procedure II or MIL-STD-810F, Method 501.4, Procedure II.	R	The Bidder should prove that the ISS-S meets this requirement by providing test documentation showing that the ISS-S operates when exposed to temperatures of 60°C for at least 2 hours following test item temperature stabilization.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's test documentation proves that the ISS-S operates within normal performance limits when exposed to temperatures of 60°C for at least 2 hours following test item temperature stabilization;• 50% of the points will be given if the Bidder's test documentation proves that the ISS-S exhibits loss or degradation of function when exposed to temperatures of 60°C for at least 2 hours that are self-recovered when temperatures goes back to 49°C following test item temperature stabilization.	202
18	TPS-314	Operation - Low Temperature						
19	TPS-2189	When exposed to temperatures below -30°C and down to -46°C in an operating (power-on) state, the ISS-S should continue to operate within normal performance limits or exhibit only a temporary loss or degradation of function that is self-recovered upon returning to its rated temperature range. Tested according to MIL-STD-810G, Method 502.5, Procedure II or MIL-STD-810F, Method 502.4, Procedure II.	R	The Bidder should prove that the ISS-S meets this requirement by providing test documentation showing that the ISS-S operates when exposed to temperatures of -46°C for at least 24 hours.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's test documentation proves that the ISS-S operates within normal performance limits when exposed to temperatures of -46°C for at least 24 hours;• 50% of the points will be given if the Bidder's test documentation proves that the ISS-S exhibits loss or degradation of function when exposed to temperatures of -46°C for at least 24 hours that are self-recovered when temperatures go back to -30°C.	208
20	TPS-316	Storage - Low Temperature						
21	TPS-2192	The ISS-S should operate within normal performance limits following storage at temperatures down to -46°C. Tested according to MIL-STD-810G, Method 502.5, Procedure I or	R	The Bidder should prove that the ISS-S meets this requirement by providing test documentation showing			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's	202

Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
1	2	3	4	5	6	7	8	9
		MIL-STD-810F, Method 502.4, Procedure I.		that the ISS-S operates following storage at temperatures of -46°C for at least 24 hours.			test documentation proves that the ISS-S operates within normal performance limits following storage at temperatures of -46°C for at least 24 hours.	
22	TPS-312	Electromagnetic Environmental Effects (E3)						
23	TPS-5195	A quantity of ten (10) ISS-CS must operate concurrently, while using voice and data services, in a three (3) metre by three (3) metre space without damaging any of the ISS-CS devices.	M	The Bidder must provide a detailed description of how their radio functions to avoid RF damage to itself from signals received at the antenna and to surrounding radios as described in the requirement.			The Bidder's proposal will be deemed compliant if the description describes the mechanisms that are in place to protect the radio front-end and to avoid RF damage.	
24	TPS-5486	The ISS Communications Suite (ISS-CS) receiver selectivity and out of band rejection must be sufficient to permit two ISS-CS radios separated by a distance of five (5) metres operating on adjacent frequency channels (4 channel width away), to perform voice, data and Blue PA exchanges with other ISS-CS radios located at a distance of five hundred (500) metres.	M	The Bidder must provide a detailed description of how their ISS-S solution functions when two radios are collocated and operating on two adjacent frequencies.	-	-	The Bidder's proposal will be deemed compliant if the description shows that the ISS-CS receiver selectivity is such that two collocated ISS-CS radios can operate on adjacent channels without impacting range and performance on either radio. The description must include details on the source and victim and either calculated or measured spectrum plots of the source and victim.	
25	TPS-919	RADHAZ						
26	TPS-920	The ISS-S must meet the requirements of Health Canada Safety Code 6 and Canadian Forces Technical Order (CFTO) C-55-040-001/TS-001.	M	The Bidder must provide a description of how the ISS-S will meet this requirement. The description must include the design and product characteristics that will allow the ISS-S to meet this requirement, including the following:<ul style="list-style-type: none">• A spectral diagram measurement at the ISS-S Radio antenna port for the	-	-	The Bidder's proposal will be deemed compliant if all transmit power information that is provided proves that when transmitting using the primary transmitted output power mode, the ISS-S Radio does not emanate more than 10W of power.	

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				<p>frequency range supported by the ISS-S Radio;</p> <p>• Transmit peak power output measurement at the ISS-S Radio antenna port for the frequency range supported by the ISS-S Radio; and</p> <p>• ISS-S Radio transmit Peak Envelope Power (PEP).</p> <p>For frequencies that are outside of the frequency range supported by the ISS-S Radio but covered by Safety Code 6 (i.e. 3kHz to 300GHz), the Bidder must either provide measurements as required above, provide an analysis describing design characteristics of the ISS-S Radio, or provide a combination of measurements and analysis, that prove that emanations are negligible outside of the frequency range supported by the ISS-S Radio.</p> <p>The measured and specified transmit output power must reflect the primary transmitted output power mode used to meet requirement TPS-5163.</p>				

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27	TPS-1032	Grounding						
28	TPS-1034	To maximise likelihood of compliance with Electromagnetic Environmental Effects requirements of section TPS-312, the maximum DC resistance from every ISS-S physical device to every other ISS-S physical device should be 25 milliohms or less.	R	The Bidder should provide a test report that provides DC resistance measurements from every ISS-S physical device to every ISS-S physical device. Measurements should be taken with a calibrated milliohm meter.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's test documentation proves that the DC resistance from every ISS-S physical device to every ISS-S physical device is 25 milliohms or less. The documentation should also prove that the measurements were taken using a calibrated milliohm meter.	405
29	TPS-1035	To maximise likelihood of compliance with Electromagnetic Environmental Effects requirements of section TPS-312, the maximum DC resistance across all connectors and interfaces on any ISS-S physical device should be 2.5 milliohms or less.	R	The Bidder should provide a test report that provides DC resistance measurements for every ISS-S physical device. The DC resistance from an ISS-S physical device across all connectors and interfaces should be provided in the test report. Measurements should be taken with a calibrated milliohm meter.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's test documentation proves that for every physical device, the DC resistance from an ISS-S physical device across all connectors and interfaces is 2.5 milliohms or less. The documentation should also prove that the measurements were taken using a calibrated milliohm meter.	405
30	TPS-79	Functional Security						
31	TPS-981	Access Controls						
32	TPS-1467	The ISS-S should provide an access control mechanism to prevent unauthorised access.	R	The Bidder should describe the ISS-S access control mechanism.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that a recognized valid access control mechanism is provided.	193
33	TPS-5170	The ISS-S access control should not require multiple logins.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	193
34	TPS-982	Only authorized users should have access to digital data stored on the Main Data Storage and	R	The Bidder should describe the ISS-S access control			The proposal will be evaluated and scored as indicated based on the description provided by	193

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		on the External Data Storage Device, and digital data transmitted, received and processed by the ISS-S.		mechanism.			the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the ISS-S provides an access control mechanism where only authorized users have access to digital data stored on the Main Data Storage and on the External Data Storage Device, and have access to digital data transmitted, received and processed by the ISS-S.	
35	TPS-5171	Activation of a specific ISS-S "User Profile" should be performed using a single user identification/password combination.	R	The Bidder should describe the ISS-S access control mechanism.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that an access control mechanism is provided where a User Profile is activated using a single user identification/password combination.	193
36	TPS-964	Identification and Authentication (I&A)						
37	TPS-968	The ISS-S should provide an I&A function to authenticate ISS-S Users.	R	The Bidder should describe the ISS-S Identification and Authentication capabilities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that an Identification and Authentication function that authenticates ISS-S Users is provided.	83
38	TPS-970	The ISS-S should provide an I&A function to authenticate a Wireless PTT that connects to it which does not require complex user intervention.	R	The Bidder should provide a detailed description of how the ISS-S authenticates a Wireless PTT.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description describes what user intervention is required to authenticate the Wireless PTT. The description should prove that the authentication does not require any user intervention through the BMS such as selection of wireless networks or devices, or entering of identification or password. The description should also prove	29

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							how the ISS-S avoids authentication conflicts when more than one ISS-S and Wireless PTTs are collocated.	
39	TPS-973	The ISS-S I&A function for ISS-S User authentication should implement a user identification and password authentication technique (one factor) to access the ISS-S, with the following characteristics: <ul style="list-style-type: none"> • An authentication procedure is required to access the ISS-S computer, the data stored on the Main Data Storage and the data stored on the External Data Storage Device; • An authentication procedure is not required to provide ISS-S radio network voice and data services; and • If an Operating System inactivity timer is implemented, allow for the ISS-S User to be able to disable the ISS-S Operating System inactivity timer. 	R	The Bidder should describe the ISS-S Identification and Authentication capabilities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 30% of the points will be given if the Bidder's description proves that an authentication procedure is required to access data stored on the Main Data Storage and the External Data Storage Device; • 40% of the points will be given if the Bidder's description proves that authentication is not required to access radio voice and data services; and • 30% of the points will be given if the Bidder's description proves that an Operating System inactivity timer is implemented and the Operating System inactivity timer can be disabled. 	83
40	TPS-5145	The ISS-S User password based authentication function should provide a settable number of consecutive unsuccessful entries before ISS-S lock-out that is settable from a minimum of 3 up to 15.	R	The Bidder should describe the ISS-S Identification and Authentication capabilities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of the points will be given if the Bidder's description proves that the authentication function allows for a settable allowable number of consecutive unsuccessful entries that is settable from 3 to 15. 	62
41	TPS-5146	The ISS-S User password based authentication function should provide a "lock-out time delay" that is settable from 30 seconds or less to 10 minutes or more in increments of 30 seconds or less.	R	The Bidder should describe the ISS-S Identification and Authentication capabilities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of the points will be given if the Bidder's description proves that the authentication function includes a settable lock-out time delay that is settable from 30 seconds or less to 10 minutes or more, in increments of 30 seconds or less. 	62

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42	TPS-4082	The ISS-S should provide an ISS-S Operating System settable inactivity timer with the following characteristics: <ul style="list-style-type: none"> • When the ISS-S Operating System inactivity timer has elapsed, the ISS-S User is prevented access the ISS-S BMS software functions; • The ISS-S Operating System needs to be reactivated via User Identification and Authentication to give the ISS-S User access to the ISS-S BMS software functions; and • The ISS-S voice exchanges, data reception and automated data transmission are not affected in any way by the ISS-S Operating System inactivity timer. 	R	The Bidder should describe the ISS-S Identification and Authentication capabilities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 30% of the points will be given if the Bidder's description proves that when the Operating System inactivity timer has elapsed, the ISS-S User is prevented access to the ISS-S BMS software functions; • 30% of the points will be given if the Bidder's description proves that the Operating System needs to be reactivated via User Identification and Authentication; and • 40% of the points will be given if the Bidder's description proves that automated data transmission is not affected in any way by the Operation System inactivity timer. 	62
43	TPS-4084	The ISS-S Operating System inactivity timer should be settable by the ISS-S User and be in a range from 30 seconds or less to 10 hours or more in increments of 30 seconds or less.	R	The Bidder should describe the ISS-S Identification and Authentication capabilities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of the points will be given if the Bidder's description proves that the Operating System inactivity timer is settable from 30 seconds or less to 10 hours or more, in increments of 30 seconds or less. 	21
44	TPS-976	The ISS-S password size should be settable from a minimum of 4 characters and accept passwords of up to 16 characters or more.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	12
45	TPS-929	Data At Rest (DAR)						
46	TPS-5353	General						
47	TPS-930	Stored digital data should be secured when stored in Main Data Storage as part of the ISS-S, and when carried on External Data Storage Devices.	R	The Bidder should provide a detailed description of the ISS-S Data At Rest capabilities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 50% of the points will be given if the Bidder's description proves that the data on the Main Data Storage is secured; and • 50% of the points will be given if the Bidder's 	26

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							description proves that the data on the External Data Storage Device is secured.	
48	TPS-931	Stored digital data should be secured using both cryptographic encryption and integrity protection.	R	The Bidder should provide a detailed description of the ISS-S Data At Rest capabilities.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none"> • 25% of the points will be given if the Bidder's description proves that the data on the Main Data Storage is secured using cryptographic encryption; • 25% of the points will be given if the Bidder's description proves that the data on the External Data Storage Device is secured using cryptographic encryption; • 25% of the points will be given if the Bidder's description proves that the data on the Main Data Storage is secured using cryptographic integrity; and • 25% of the points will be given if the Bidder's description proves that the data on the External Data Storage Device is secured using cryptographic integrity. 	26
49	TPS-933	The encryption mechanism should provide a minimum of 128 bits of security (see NIST SP 800-57 part 1, Table 2).	R	The Bidder should provide a detailed description of the ISS-S Data At Rest capabilities.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none"> • 50% of the points will be given if the Bidder's description proves that the Main Data Storage encryption mechanism provides at least 128 bits of security; and • 50% of the points will be given if the Bidder's description proves that the External Data Storage Device encryption mechanism provides at least 128 bits of security. 	26
50	TPS-934	The encryption mechanism used to secure stored data should be AES (FIPS 197).	R	The Bidder should provide a detailed description of the ISS-S Data At Rest capabilities.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none"> • 50% of the points will be given if the Bidder's 	26

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1	2	3	4	5	6	7	8	9
							description proves that the Main Data Storage encryption mechanism uses AES (FIPS 197); and • 50% of the points will be given if the Bidder's description proves that the External Data Storage Device encryption mechanism uses AES (FIPS 197).	
51	TPS-935	The encryption mechanism should use one of the following block cipher modes of operations: CBC (NIST SP-800-38A), CTR (NIST SP-800-38A), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D).	R	The Bidder should provide a valid Cryptographic Algorithm Validation Program (CAVP) certificate for its AES implementation used for the DAR functionality on ISS-S. The test should have been performed by one of the third-party laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).			The proposal will be evaluated and scored as indicated based on the certificate provided by the Bidder: • 50% of the points will be given if the Bidder's certificate proves that the encryption mechanism used for ISS-S Main Data Storage Data At Rest is one of the following block cipher modes: CBC, CTR, CCM or GCM; and • 50% of the points will be given if the Bidder's certificate proves that the encryption mechanism used for ISS-S External Data Storage Device Data At Rest is one of the following block cipher modes: CBC, CTR, CCM or GCM.	24
52	TPS-936	The integrity mechanism used to protect stored data should provide an equivalent strength factor of at least 80 bits.	R	The Bidder should provide a detailed description of the ISS-S Data At Rest capabilities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 50% of the points will be given if the Bidder's description proves that the Main Data Storage integrity mechanism provides an equivalent strength factor of at least 80 bits; and • 50% of the points will be given if the Bidder's description proves that the External Data Storage Device integrity mechanism provides an equivalent strength factor of at least 80 bits.	24
53	TPS-937	The integrity of stored data should be provided using one of the following techniques:	R	The Bidder should provide a valid Cryptographic			The proposal will be evaluated and scored as indicated based on the certificate provided by	24

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1	2	3	4	5	6	7	8	9
		a) AES 128 bits encryption (FIPS 197) in CMAC (NIST SP-800-38B), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D) mode; b) AES 256 bits encryption (FIPS 197) in CMAC (NIST SP-800-38B), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D) mode; or c) Keyed-Hash Message Authentication Code (HMAC) as per FIPS 198-1 using one of the NIST approved hash functions (FIPS 180-3).		Algorithm Validation Program (CAVP) certificate for its integrity mechanism implementation used for the DAR functionality on ISS-S. The test should have been performed by one of the third-party laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).			the Bidder: • 50% of the points will be given if the Bidder's certificate proves that the integrity technique used for ISS-S Main Data Storage Data At Rest is one of the following: - AES 128 bits encryption in CMAC, CCM or GCM mode; - AES 256 bits encryption in CMAC, CCM or GCM mode; or - Keyed-Hash Message Authentication Code (HMAC) as per FIPS 198-1 using one of the NIST approved hash functions. • 50% of the points will be given if the Bidder's certificate proves that the integrity technique used for ISS-S External Data Storage Device Data At Rest is one of the following: - AES 128 bits encryption in CMAC, CCM or GCM mode; - AES 256 bits encryption in CMAC, CCM or GCM mode; or - Keyed-Hash Message Authentication Code (HMAC) as per FIPS 198-1 using one of the NIST approved hash functions.	
54	TPS-938	The encryption and integrity mechanisms implemented for securing (confidentiality and integrity) stored data should be validated to a minimum of FIPS 140-2 Level 2 or equivalent.	R	The Bidder should provide a NIST issued FIPS 140-2 Level II validation certificate or equivalent for the cryptographic module implementing the DAR function provided as part of the ISS-S			The proposal will be evaluated and scored as indicated based on the certificate provided by the Bidder: • 50% of the points will be given if the Bidder's certificate proves that the encryption and integrity mechanisms used for ISS-S Main Data Storage Data At Rest is validated to a minimum of FIPS 140-2 Level 2 or equivalent; and . • 50% of the points will be given if the Bidder's certificate proves that the encryption and integrity mechanisms used for ISS-S External Data Storage Device Data At Rest are validated to a minimum of FIPS 140-2 Level 2 or	24

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							equivalent.	
55	TPS-129	Zeroizing						
56	TPS-957	When an ISS-S User initiates a local zeroization of the digital data, the ISS-S should send a message on the Blue PA COI indicating that the ISS-S User has initiated a local zeroization, including his last known position, such that the ISS-S Users that are members of the Blue PA COI can identify the zeroized ISS-S.	R	The Bidder should provide a detailed description of the ISS-S local zeroization function.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that when an ISS-S performs zeroization locally, other ISS-S nodes on the Blue PA network will see an indication proving which ISS-S has been zeroized and the last known position of the zeroized ISS-S.	413
57	TPS-958	Over The Air Zeroizing (OTAZ)						
58	TPS-961	The ISS-S remote digital data zeroization function should be available to all Users.	R	The Bidder should provide a detailed description of the ISS-S remote zeroization function.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that all ISS-S Users can perform remote zeroization.	105
59	TPS-988	EMCON						
60	TPS-4990	Radio Silence						
61	TPS-4991	The ISS-S must support the EMCON 2-radio silence condition as defined by CFTO B-GL-334-001/FP-001, Standing Operating Procedures for Land Operations, by shutting down all radio transmissions including ISS-CS transmissions and any other wireless transmissions.	M	The Bidder must provide a description of how all RF transmissions of the ISS-S can be disabled.			The Bidder's proposal will be deemed compliant if the description proves that the User is able to shut down all RF transmissions, including but not limited to ISS-CS transmissions and Wireless PTT transmissions, if provided.	
62	TPS-2677	The ISS-S should support the EMCON 2-radio silence condition as defined by CFTO B-GL-334-001/FP-001, Standing Operating Procedures for Land Operations, by shutting down all radio transmissions including ISS-CS transmissions and any other wireless transmissions, while still receiving voice messages from another ISS-S node which breaks EMCON 2 condition.	R	The Bidder should provide a description of how all RF transmissions of the ISS-S can be disabled, and what impact this has on the ISS-CS's ability to receive voice communications.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the ISS-S is still able to receive voice communications while in the EMCON 2-radio silence mode.	771
63	TPS-939	Data In Transit (DIT)						

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64	TPS-940	When digital data is transmitted from one ISS-S to another it must be secured using cryptographic encryption and provide data integrity measures.	M	The Bidder must provide a detailed description of the ISS-S Data In Transit capabilities.			The Bidder's proposal will be deemed compliant if the description proves that the all digital data transmitted from one ISS-S to another (i.e. DIT) is secured using cryptographic encryption and using data integrity measures.	
65	TPS-944	The encryption mechanism must provide a minimum of 128 bits of security (see NIST SP 800-57 part 1, Table 2).	M	The Bidder must provide a detailed description of the ISS-S Data In Transit capabilities.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the DIT encryption mechanism provides at least 128 bits of security.	
66	TPS-945	The encryption mechanism used to secure transmitted data must be AES (FIPS 197).	M	The Bidder must provide a detailed description of the ISS-S Data In Transit capabilities.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the DIT encryption mechanism uses AES (FIPS 197).	
67	TPS-947	The integrity mechanism used to protect transmitted data must provide an equivalent strength factor of at least 16 bits.	M	The Bidder must provide a detailed description of the ISS-S Data In Transit capabilities.			The Bidder's proposal will be deemed compliant if the description proves that the DIT data integrity mechanism provides an equivalent strength factor of at least 16 bits.	
68	TPS-948	The integrity of transmitted data should be provided using one of the following techniques: a) AES 128 bits encryption (FIPS 197) in CMAC (NIST SP-800-38B), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D) mode; b) AES 256 bits encryption (FIPS 197) in CMAC (NIST SP-800-38B), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D) mode; c) Keyed-Hash Message Authentication Code (HMAC) as per FIPS 198-1 using one of the NIST approved hash functions (FIPS 180-3); or d) using a Cyclic-Redundancy-Checksum (CRC) of at least 16 bit calculated over the plain text data and encrypted along with the plain text data using the cryptographic encryption algorithm.	R	The Bidder should provide a valid Cryptographic Algorithm Validation Program (CAVP) certificate for its integrity mechanism implementation used for the DIT functionality on ISS-S as per the requirement. The test should have been performed by one of the third-party laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).			The proposal will be evaluated and scored as indicated based on the certificate provided by the Bidder: • 100% of the points will be given if the Bidder's certificate proves that the integrity technique used for Device Data in Transit is one of the following: - AES 128 bits encryption in CMAC, CCM or GCM mode; - AES 256 bits encryption in CMAC, CCM or GCM mode; or - Keyed-Hash Message Authentication Code (HMAC) as per FIPS 198-1 using one of the NIST approved hash functions. - using a Cyclic-Redundancy-Checksum (CRC) of at least 16 bit calculated over the plain text data and encrypted along with the plain text data using the cryptographic encryption algorithm.	385
69	TPS-949	The encryption and integrity mechanisms	R	The Bidder should provide a			The proposal will be evaluated and scored as	385

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		implemented for securing data in transit should be validated to a minimum of FIPS 140-2 Level 2 or equivalent.		NIST issued FIPS 140-2 Level II validation certificate or equivalent for the cryptographic module implementing the DIT function provided as part of the ISS-S			indicated based on the certificate provided by the Bidder: • 100% of the points will be given if the Bidder's certificate proves that the encryption and integrity mechanisms used for ISS-S Data In Transit are validated to a minimum of FIPS 140-2 Level 2 or equivalent.	
70	TPS-4087	TRANSEC						
71	TPS-4088	The ISS-S should provide TRANSEC functionality using one of the following techniques: • Spread Spectrum; • Frequency Hopping; or • Spread Spectrum and Frequency Hopping	R	The Bidder should supply a detailed explanation describing in details how the requirement will be met. The Bidder should describe the TRANSEC technique provided, including the details of its behaviour and how it protects transmissions from interception and exploitation given narrowband and wideband threats.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of the points will be given if the Bidder's description proves that the ISS-S can operate using one of the following TRANSEC techniques: - Spread Spectrum; - Frequency Hopping; or - Spread Spectrum and Frequency Hopping.	578
72	TPS-5335	The TRANSEC functionality described in TPS-4088 should be available on all the ISS-S provided frequency bands.	R	The Bidder should supply a detailed explanation describing in details how the requirement will be met on the different frequency bands. If the TRANSEC technique differs between frequency bands, the Bidder should describe the details of the different behaviours and how it protects transmissions from interception and exploitation given narrowband and wideband threats.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of the points will be given if the Bidder's description proves that the ISS-S supports one of the TRANSEC techniques described in TPS-4088 on all provided alternate frequency bands requested in TPS-894, TPS-5199 and TPS-5201.	193

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1	2	3	4	5	6	7	8	9
73	TPS-987	Key Management						
74	TPS-5150	An ISS Key Management function, which includes "Key Generation", "Key Production" and "Key Distribution", must be provided through a Key Management Planning (KMP) tool, to manage the keying material used by any of the ISS-S security services.	M	The Bidder must provide a detailed description of the KMP tool's Key Management capability, including as a minimum "Key Generation", "Key Production" and "Key Distribution".			The Bidder's proposal will be deemed compliant if the description describes valid "Key Generation", "Key Production" and "Key Distribution" functions within the KMP tool.	
75	TPS-1482	The ISS Key Management function must provide a minimum strength of 128 bits of security (see NIST SP 800-57 part 1, Table 2) to protect the confidentiality of the cryptographic keying material used by the ISS-S security services throughout their life cycle (generation, production, storage, distribution, usage and destruction).	M	The Bidder must provide a detailed description of how the ISS-S protects the confidentiality of the cryptographic keying materiel using 128 bits of security.			The Bidder's proposal will be deemed compliant if the description proves that the confidentiality of the cryptographic keying materiel uses at least 128 bits of security.	
76	TPS-5151	The ISS Key Management function must provide a minimum of 32 bits of integrity to protect cryptographic keying material used by the ISS-S security services throughout their life cycle (generation, production, storage, distribution, usage and destruction).	M	The Bidder must provide a detailed description of how the ISS-S protects the confidentiality of the cryptographic keying materiel using 32 bits of integrity.			The Bidder's proposal will be deemed compliant if the description proves that the confidentiality of the cryptographic keying materiel uses at least 32 bits of integrity.	
77	TPS-1497	The Key Management Planning (KMP) tool must be integrated with the System Executive and Planning Suite (SEP Suite).	M	The Bidder must provide a detailed description of the KMP tool and how it is integrated in the SEP Suite.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the KMP tool is integrated in the SEP Suite.	
78	TPS-4992	Key Generation & Production						
79	TPS-1492	The ISS Key Management function must use a random number generation technique that provides a minimum of 128 bits of entropy for the generation of ISS-S cryptographic keying material.	M	The Bidder must provide a detailed description of how the ISS-S provides at least 128 bits of entropy for the generation of ISS-S cryptographic keying	-	-	The Bidder's proposal will be deemed compliant if the description proves that the generation of cryptographic keying materiel uses at least 128 bits of entropy.	

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Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
1	2	3	4	5	6	7	8	9
				material.				
80	TPS-4090	The ISS key generation and production function should be implemented with the help of a FIPS 140-2 Level 2 or equivalent validated cryptographic module providing a random number generator with a minimum of 128 bits of entropy and the necessary cryptographic services to generate and produce keying material with a minimum of 128 bits of confidentiality and 32 bits of integrity.	R	The Bidder should provide a NIST issued FIPS 140-2 Level II validation certificate or equivalent for the cryptographic module implementing the key generation and production function provided as part of the ISS Key Management function.			The proposal will be evaluated and scored as indicated based on the certificate provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's certificate proves that the cryptographic module implementing the key generation and production function used for the ISS-S is validated to a minimum of FIPS 140-2 Level 2 or equivalent.	101
81	TPS-4993	Key Distribution						
82	TPS-4994	The ISS Key Management function must provide a means to distribute cryptographic keying material from one working instance of an ISS KMP tool to the destination ISS-S for usage while ensuring their confidentiality and integrity.	M	The Bidder must provide a detailed description of how the ISS Key Management function distributes cryptographic keying material from one working instance of an ISS KMP tool to the destination ISS-S while ensuring their confidentiality and integrity.			The Bidder's proposal will be deemed compliant if the description proves that the ISS Key Management function can distribute cryptographic keying material from one working instance of an ISS KMP tool to the destination ISS-S while ensuring their confidentiality and integrity.	
83	TPS-4995	The ISS Key Management function should provide a means to distribute cryptographic keying material from one working instance of an ISS KMP tool to another while ensuring their confidentiality and integrity.	R	The Bidder should provide a detailed description of how their solution distributes cryptographic keying material from one working instance of an ISS KMP tool to another.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the ISS Key Management function can distribute cryptographic keying material from one working instance of an ISS KMP tool another working instance of an ISS KMP tool while ensuring their confidentiality and integrity.	98
84	TPS-1488	The ISS Key Management function should provide an Over-The-Air-Rekey (OTAR) function.	R	The Bidder should provide a detailed description of how the ISS solution provides an OTAR function.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's	295

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 1 Annex CC Appendix 1

Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
1	2	3	4	5	6	7	8	9
							description proves that the ISS Key Management function provides a valid OTAR function.	
85	TPS-4093	The key distribution function, including any key distribution device, should be implemented with the help of a FIPS 140-2 Level 2 or equivalent, validated cryptographic module providing the necessary cryptographic services to distribute keying material with a minimum of 128 bits of confidentiality and 32 bits of integrity.	R	The Bidder should provide a NIST issued FIPS 140-2 Level II validation certificate or equivalent for the cryptographic module implementing the key distribution function provided as part of the ISS Key Management function.			The proposal will be evaluated and scored as indicated based on the certificate provided by the Bidder: <ul style="list-style-type: none"> • 100% of the points will be given if the Bidder's certificate proves that the cryptographic module implementing the key distribution function used for the ISS-S is validated to a minimum of FIPS 140-2 Level 2 or equivalent. 	98
86	TPS-4266	EMSEC						
87	TPS-4267	The ISS-S Audio Display, when connected to both the ISS-S radio and an LCSS GFE radio, must provide at least 40dB of isolation between the two security domains.	M	The Bidder must describe how the ISS-S will meet this requirement by providing an analysis or by providing a test report. The information provided by the Bidder must include how the design achieves that level of isolation.			The Bidder's proposal will be deemed compliant if the analysis or test report proves that at least 40dB of isolation is provided between the ISS-S radio and LCSS GFE radio signal paths when both radios are connected to the ISS-S.	
88	TPS-4268	The ISS-S Audio Display, when connected to both the ISS-S radio and an LCSS GFE radio, should not enable a direct conductive path between the LCSS GFE radio and the ISS-S while the ISS-S radio is transmitting.	R	The Bidder should provide an electrical schematic of the audio display(s) used on the ISS-S. The schematic should indicate that there are no direct conductive paths between the ISS-S and the LCSS radio channels while the ISS-S radio is transmitting. Paths that are interrupted by switches or isolated by electrical components should be analyzed to			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of the points will be given if the Bidder's description includes: <ul style="list-style-type: none"> - A schematic proving that there are no conductive paths between the ISS-S and the LCSS radio while the ISS-S radio is transmitting; and - An analysis of the design that proves that the isolation (i.e. no conductive path) between the ISS-S and the LCSS radio while the ISS-S radio is transmitting, including but not limited to filters, switches, and any other electrical or optical 	415

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1	2	3	4	5	6	7	8	9
				determine the conditions of electrical connection between the channels.			components meets the requirement. The analysis should indicate the condition of every component when the ISS-S radio is transmitting.	
89	TPS-80	Reliability, Availability and Maintainability						
90	TPS-2039	Reliability						
91	TPS-2043	Mission Reliability						
92	TPS-2044	The ISS-S must have a Mean Time Between Critical Failures (MTBCF) of at least 750 hours (minimum acceptable value), when used as per Volume 2, Annex CB, Appendix 3 Mission Profile and Operation Mode Summary. A critical failure is an event that results in the loss or degradation below normal performance limits of a Critical Function, as defined in Volume 2, Annex CB, Appendix 4 - Failure Definition and Scoring Criteria.	M	The Bidder must provide estimated or measured values for the ISS-S system-level MTBCF and demonstrate that it is not less than that specified. This value should be determined from the sub-system / LRU level. The description should include a summary of the methods used to determine and verify these claims and allocation to sub-system / LRU level.			The Bidder's proposal will be deemed compliant if the description provides estimated or measured values for the ISS-S MTBCF proving that the provided ISS-S MTBCF is not less than the required MTBCF.	
93	TPS-2048	Basic Reliability						
94	TPS-2049	The ISS-S must have a Mean Time Between Failure (MTBF) of at least 500 hours (minimum acceptable value), when used as per Volume 2, Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary. A failure is defined as the inability of the ISS-S to perform within previously specified limits or an intended function. In the determination of the MTBF it includes Critical Function Failures, Essential Function Failures and Non-Essential Function Failures as defined in Volume 2, Annex CB, Appendix 4 - Failure Definition and Scoring Criteria.	M	The Bidder must provide estimated or measured values for the ISS-S system-level MTBF and demonstrate that it is not less than that specified. This value should be determined from the sub-system / LRU level. The description should include a summary of the methods used to determine and verify these claims and			The Bidder's proposal will be deemed compliant if the description provides estimated or measured values for the ISS-S MTBF proving that the provided ISS-S MTBF is not less than the required MTBF.	

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1	2	3	4	5	6	7	8	9
				<u>allocation to sub-system / LRU level.</u>				
95	TPS-2055	Maintainability						
96	TPS-2056	Maintenance Concept						
97	TPS-2058	The ISS-S must be designed so that the User can detect, isolate and remove a faulty LRU and replace, configure and check-out the new LRU.	M	The Bidder must provide a detailed description of how the design will facilitate operator replacement of LRUs. Emphasis to be placed on the methods of fault detection and isolation, and the tasks associated with removal/replacement, configuration, calibration and return to service of each LRU.			The Bidder's proposal will be deemed compliant if the description describes how the ISS-S design facilitates operator replacement of LRUs. The description must include the procedures to follow to detect, isolate and remove a faulty LRU and the procedures to follow to replace, configure and check-out the new LRU.	
98	TPS-2059	Maintainability General Requirements						
99	TPS-2066	The failure of any ISS-S LRU must not induce or cause damage in another ISS-S LRU.	M	The Bidder must provide a detailed description of how the design will meet the requirement.	-	-	The Bidder's proposal will be deemed compliant if the description proves how the ISS-S is designed such that an ISS-S LRU failure will not cause damage to another ISS-S LRU.	
100	TPS-2076	Mission Service Restoration						
101	TPS-2077	The Maximum Mission Time to Restore System (MaxMTTRSys) by the User must not be greater than 15 minutes at the 90th percentile (based on a log-normal distribution). This includes fault detection and isolation, replacement of the faulty LRU, and confirming repair.	M	The Bidder must provide estimated or measured values of the system MaxTTRSys <u>and</u> demonstrate that <u>it</u> does not exceed that specified. A summary of the methods used to determine and verify these claims is <u>requested</u> . The Bidder <u>should</u> also provide a summary of the methods of fault detection and isolation,			The Bidder's proposal will be deemed compliant if the description provides estimated or measured values of the system MaxTTRSys demonstrating that <u>it</u> meets the requirement.	

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1	2	3	4	5	6	7	8	9
				and the tasks associated with removal/replacement, <u>check-out and start-up to restore each defective LRU.</u> <u>The MaxTTRSys is the maximum elapsed time allowable to restore a defective item in the ISS-S during a mission. This includes fault detection and isolation, replacement of the faulty LRU, confirming repair, and start-up.</u>				
102	TPS-2078	The Maximum Mission Time to Restore Service (MaxMTTRSvc) must not be greater than 30 minutes at the 90th percentile (based on a log-normal distribution). This includes fault detection and isolation, replacement and reconfiguration of the faulty LRU, adjustment, calibration, and checks. Service is considered restored when the ISS-S node is fully operational and has full data and voice access to the ISS-S network.	M	The Bidder must provide estimated or measured values of the system MaxTTRSvc demonstrating that the actual system MaxTTRSvc of the final design does not exceed that specified. A summary of the methods used to determine and verify these claims is required. The Bidder must also provide a summary of the methods of fault detection and isolation, and the tasks associated with removal/replacement, configuration and return to service of voice/data connected LRUs.			The Bidder's proposal will be deemed compliant if the description provides estimated or measured values of the system MaxTTRSvc demonstrating that the MaxTTRSvc provided in the description meets the requirement. The description must include the procedures to follow to detect, isolate and remove a faulty LRU and the procedures to follow to replace, configure and check-out the new LRU, and the procedures to configure and activate all services that the LRU provides to the ISS-S such that voice and data service are operating normally.	
103	TPS-2082	Preventive Maintenance						
104	TPS-2083	The ISS-S should not require any preventive maintenance beyond the daily operator checks,	R	The Bidder should describe the required daily operator			The proposal will be evaluated and scored as indicated based on the description provided by	413

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1	2	3	4	5	6	7	8	9
		inspection and cleaning, and ISS-S Audio Display canalphone replacement.		checks, inspection and cleaning, and ISS-S Audio Display in-ear standard insert replacement frequency and confirm that no other preventive maintenance tasks are required to operate and maintain the ISS-S.			the Bidder: <ul style="list-style-type: none">100% of the points will be given if the Bidder's description proves that the ISS-S does not require any preventive maintenance beyond daily operator checks, inspection and cleaning, and ISS-S Audio Display in-ear standard insert replacement.	
105	TPS-2084	The ISS-S must not exceed a mean time of 1.5 hours of preventive maintenance per 154 operating hours (weekly) beyond daily operator checks, inspection and cleaning, and ISS-S Audio Display Canalphone replacement.	M	The Bidder must provide a description of the proposed preventive maintenance tasks, their frequency and times for completion.	-	-	The Bidder's proposal will be deemed compliant if the description includes all proposed preventive maintenance tasks, their frequency and times of completion, and the description proves that the time required to do those preventive maintenance tasks meets the requirement.	
106	TPS-2085	Built In Test (BIT) and Fault Detection						
107	TPS-2087	The ISS-S should incorporate embedded Built In Test (BIT) functionality to detect, diagnose and isolate system faults and failures as per Volume 2, Annex CB, Appendix 4 - Failure Definition and Scoring Criteria, and when used as per Volume 2, Annex CB, Appendix 3 Mission Profile and Operation Mode Summary.	R	<p>The Bidder should provide an analysis of the BIT functionality detailing the following:</p> <p>Coverage: Identify all Essential Functions, as identified in Volume 2, Annex CB, Appendix 4, that are covered by BIT. Identify if the BIT design is continuous, periodic or interruptive.</p> <p>Initiation: Identify for which Essential Functions the BIT test can be manually initiated.</p>			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. The description should include the details of BIT coverage, BIT initiation, BIT obtrusiveness, BIT Fault Detection, BIT Fault Isolation, BIT False Alarms, BIT Reporting, BIT Suppression and BIT Logging.</p> <p>The solution will be scored as follows:</p> <ul style="list-style-type: none">Coverage = 25%<ul style="list-style-type: none">If the description proves that the BIT provides a test of all Critical and Essential Functions and is of a Continuous or Periodic BIT design = 100% of Coverage points; elseIf the description proves that the BIT provides test of all Critical and Essential Functions and is of an Interruptive BIT design = 50% of Coverage points;In addition, for every Critical and Essential	811

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1	2	3	4	5	6	7	8	9
				<p>Obtrusiveness: Identify if the BIT interrupts regular ISS-S operation.</p> <p>Fault Detection: Identify the Fraction of Faults Detected by the BIT.</p> <p>Fault Isolation: Identify the Fraction of Faults Isolated by the BIT.</p> <p>False Alarms: Identify the False Alarm Rate for the BIT.</p> <p>Reporting: Identify on which visual interface BIT detection and isolation information is displayed.</p> <p>Suppression: Identify if the User can suppress repetitive fault reports.</p> <p>Logging: Identify which BIT fault information is logged and not logged.</p>			<p>Function not covered by the BIT: Subtract 10% of the Coverage points.</p> <ul style="list-style-type: none">• Initiation = 20%<ul style="list-style-type: none">- If the description proves that the BIT is automatically run at system start-up = 50% of Initiation points; and- If the description proves that the User can manually initiate the BIT to test all Critical and Essential Functions = 50% of Initiation points; else- If the description proves that the User can manually initiate the BIT to test some but not all of the Critical and Essential Functions = 25% of Initiation points.• Obtrusiveness = 10%<ul style="list-style-type: none">- If the description proves that the continuous BIT does not interrupt regular ISS-S operation = 100% of Obtrusiveness points; else- If the description proves that the interruptive BIT is operator initiated = 50% of Obtrusiveness points; and- If the description proves that the operator can terminate all interruptive BIT once started and return to normal ISS-S operation within 5 seconds = 50% of Obtrusiveness points.• Fault Detection = 10%<ul style="list-style-type: none">- If the description proves that the BIT has a Fraction of Faults Detected (FFD) of at least 95% of all known faults = 100% of Fault Detection points; else- If the description proves that the BIT has a Fraction of Faults Detected (FFD) of at least 90% of all known faults = 50% of Fault Detection points.• Fault Isolation = 10%<ul style="list-style-type: none">- If the description proves that the BIT has a	

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1	2	3	4	5	6	7	8	9
							Fraction of Faults Isolated (FFI) of at least 90% isolation to a single LRU = 100% of Fault Isolation points; else - If the description proves that the BIT has a Fraction of Faults Isolated (FFI) of at least 80% isolation to a single LRU = 50% of Fault Isolation points. • False Alarm = 10% - If the description proves that the BIT has a False Alarm Rate (FAR) of less than 1% = 100% of False Alarm points; else - If the description proves that the BIT has a False Alarm Rate (FAR) of less than 5% = 50% of False Alarm points. • Reporting = 5% - If the description proves that all BIT detection and isolation information is reported to the operator through the Tactical User Interface = 100% of Reporting points; else - If the description proves that some BIT detection and isolation information is reported to the operator through the Tactical User Interface = 50% of Reporting points. • Suppression = 5% - If the description proves that the User can suppress repetitive fault reports = 50% of Suppression points; and - If the description proves that the ISS-S terminates fault reports automatically when the fault has been corrected = 50% of Suppression points. • Logging = 5% - If the description proves that all BIT fault information is recorded in an internal log that can be extracted by the User = 100% of Logging points; else	

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1	2	3	4	5	6	7	8	9
							- If the description proves that some BIT fault information is recorded in an internal log that can be extracted by the User = 50% of Logging points.	
108	TPS-2377	Software Fault Recovery						
109	TPS-2378	The ISS-S should monitor software application operations for faults and failures.	R	The Bidder should provide a description (or design documentation) of the ISS-S software monitoring capabilities, and software failure detection methods.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description includes a description of the ISS-S software architecture and proves that application software faults and failures are detected. The action taken by the ISS-S when an application software fault or failure is detected should be described.	50
110	TPS-2380	The ISS-S should allow the user to restart applications.	R	The Bidder should provide a description of the ISS-S software architecture and how applications can be restarted.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description includes a description of the ISS-S software architecture and proves that applications can be restarted.	149
111	TPS-2117	Service Life						
112	TPS-2119	The operation, reliability and maintainability of the ISS-S, excluding ISS Batteries and ISS-ES Internal Batteries, must not be degraded as a result of being transported by land, sea or air, or by storage for up to 8 years under the Basic climatic conditions defined in Volume 2, Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary.	M	The Bidder must provide an analysis demonstrating that the operation, reliability and maintainability of the ISS-S, excluding ISS Batteries and ISS-ES Internal Batteries, will not be degraded as a result of being transported by land, sea or air, or by storage for up to 8 years under the Basic climatic conditions defined in Volume 2, Annex CB,	-	-	The Bidder's proposal will be deemed compliant if the analysis proves that the operation, reliability and maintainability of the ISS-S, excluding ISS Batteries and ISS-ES Internal Batteries, will not be degraded as a result of being transported by land, sea or air, or by storage for up to 8 years under the Basic climatic conditions defined in Volume 2, Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary. The description must include the shelf life of materials and components that allows the requirement to be met.	

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1	2	3	4	5	6	7	8	9
				Appendix 3 ISS-S Mission Profile and Operation Mode Summary-				
113	TPS-74	Subsystem Functional Requirements						
114	TPS-5341	Modular Load Carriage System						
115	TPS-5441	ISS MLCS Load and Fit						
116	TPS-5434	Every ISS-S physical device must be secured on the User in one of the following ways: Secured directly within or upon the ISS MLCS Platform; or ▪ Inserted in an ISS MLCS Pouch which is secured on the ISS MLCS Platform; or ▪ Inserted in an ISS MLCS Pouch which is secured on a Combat Pouch with PALS exterior; or ▪ Inserted in an ISS MLCS Pouch which is secured under a Combat Pouch; or ▪ Inserted in an ISS MLCS Pouch which is secured on another ISS MLCS Pouch with PALS exterior.	M	The Bidder must describe how every ISS-S device is to be secured to the ISS MLCS Platform.	-	-	The Bidder's proposal will be deemed compliant if the description provided proves that every ISS-S device provided by the Bidder can be secured to the ISS MLCS Platform as per the requirement.	
117	TPS-5435	All Combat Ammunition Pouches should remain on the waistline, as per Volume 2, Annex CB, Appendix 9 - Conceptual Load.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	253
118	TPS-5434	The Combat Frag Grenade Pouches and Smoke Grenade Pouches should remain on the waistline, as per Volume 2, Annex CB, Appendix 9 - Conceptual Load.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	253
119	TPS-87	Battle Management System						
120	TPS-2478	Tactical User Interface						
121	TPS-2480	Resolution						
122	TPS-2488	The Tactical User Interface display must support a minimum resolution of 100 pixels per inch (PPI), both horizontally and vertically.	M	The Bidder must describe the ISS-S Tactical User Interface Display, including the display resolution.	-	-	The Bidder's proposal will be deemed compliant if the description provided includes the Tactical User Interface display resolution and proves that it meets the requirement.	

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123	TPS-2489	The Tactical User Interface display should support a resolution of more than 100 pixels per inch (PPI), both horizontally and vertically.	R	The Bidder should describe the ISS-S Tactical User Interface Display, including the display resolution.			The Tactical User Interface display resolution will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• If the description proves that the display resolution is more than 100 PPI and less or equal than 120 PPI = 10% of point;• If the description proves that the display resolution is more than 120 PPI and less or equal than 150 PPI = 25% of points;• If the description proves that the display resolution is more than 150 PPI and less or equal than 200 PPI = 50% of points;• If the description proves that the display resolution is more than 200 PPI = 100% of points.	182
124	TPS-465	Luminance						
125	TPS-5347	The Tactical User Interface display maximum luminance level must be at least 300 cd/m2.	M	The Bidder must describe the display that will be used in their ISS-S, including the display specification describing the display luminance.			The Bidder's proposal will be deemed compliant if the description proves that the Tactical User Interface display maximum luminance level is at least 300 cd/m2.	
126	TPS-5405	The Tactical User Interface display minimum luminance level must be 1 cd/m2 or less.	M	The Bidder must describe the display that will be used in their ISS-S, including the display specification describing the display luminance.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the Tactical User Interface display minimum luminance level is 1 cd/m2 or less.	
127	TPS-5385	The ISS-S User should have the ability to limit the Tactical User Interface display luminance output to the spectral range of 450 to 525 nm for night operations.	R	The Bidder should describe the method that is used to limit the luminance output spectral range of 450 to 525 nm. The description should describe any special Tactical User Interface modes, devices, or other			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that ISS-S User has the ability to limit the Tactical User Interface output luminance to a spectral range of 450 to 525 nm.	579

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				method used to meet the requirement, and the description should describe any ISS-S User intervention required to meet the requirement.				
128	TPS-517	The Tactical User Interface display luminance must be adjustable by the User using a variable control, over the full range of supported luminance levels (i.e. dimmest to brightest), with one of the following control characteristics: <ul style="list-style-type: none">• A control that provides at least five (5) discrete steps; or• An infinitely variable control.	M	The Bidder must describe the display that will be used in their ISS-S, including the display specification describing the display luminance and luminance controls.			The Bidder's proposal will be deemed compliant if the description proves that the Tactical User Interface display luminance can be manually adjusted over the full range of supported luminance levels. The description must prove that the control provides at least five (5) discrete steps or that the control is infinitely variable.	
129	TPS-5348	The Tactical User Interface display should provide a low-luminance setting control that is variable by the User across the luminance range of 1 cd/m2 to the full off position.	R	The Bidder should describe the display that will be used in their ISS-S, including the display specification describing the display luminance and luminance controls.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description includes a description of the Tactical User Interface display luminance which proves that the luminance can be manually adjusted from 1 cd/m2 to the full off position.	762
130	TPS-5219	The Tactical User Interface display luminance should adjust to ambient lighting conditions without human intervention, which is to be overridable by the manual variable control described in TPS-517.	R	The Bidder should describe the display that will be used in their ISS-S, including the display specification describing the display luminance and luminance controls.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description includes a description of the Tactical User Interface display luminance controls which proves that the luminance level can be set to an automatic mode where the display luminance level is adjusted automatically based on ambient lighting conditions. The description should also prove that the automatic display control mode is an optional mode, and that the default luminance control mode is manually controlled as described in TPS-517.	183

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131	TPS-2545	Text Entry Capability						
132	TPS-2547	The Text Entry capability should respect the QWERTY layout.	R	The Bidder should describe the Text Entry capability that will be used in their ISS-S, including the keyboard specification describing the layout.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description includes a description of the Tactical User Interface Text Entry capability which proves that the keyboard has a QWERTY layout.	193
133	TPS-2548	The Text Entry capability should include all 94 ASCII printable characters, where all lowercase alphanumeric characters are accessible using a single keystroke.	R	The Bidder should describe the Text Entry capability that will be used in their ISS-S, including the keyboard specification describing the printable characters.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description includes a description of the Tactical User Interface Text Entry capability which proves that it includes all 94 ASCII printable characters, where all lowercase alphanumeric characters are accessible using a single keystroke.	193
134	TPS-471	Touch Screen Interface						
135	TPS-3110	The Touch Screen should comply with the design criteria standards as prescribed in MIL-STD-1472F, section 5.4.6.3 Positive indication.	R	The Bidder should describe the Touch Screen Interface design, including the Positive Indication standard.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description includes a description of the Tactical User Interface Touch Screen which proves that the Positive indication standard complies with the MIL-STD-1472F, section 5.4.6.3.	182
136	TPS-2542	If the Tactical User Interface is accessible using a stylus pen, it must also be useable without the provided stylus.	M	The Bidder must describe the mechanisms that can be used to operate the Touch Screen, including the provided stylus and any other methods.	-	-	The Bidder's proposal will be deemed compliant if the description of the possible mechanisms to operate the Touch Screen includes methods other than a stylus.	
137	TPS-448	Main Processing Unit						
138	TPS-752	With a specified set of ISS-S functions executed, CPU histograms of utilization averaged over a	M	The Bidder must provide an analysis describing how the			The Bidder's proposal will be deemed compliant if the description proves that the CPU	

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		10 minute period must not exceed 50% of the total possible utilization.		ISS-S will meet this requirement. The analysis must describe the CPU performance over a 10 minute period and show that the averaged utilization of CPU does not exceed 50% of total possible utilization. Events to be integrated in the analysis must include: <ul style="list-style-type: none">• 5 voice transmissions of 10 seconds each, 10 voice receptions of 10 seconds each;• Blue PA (5 second report rate within a 30 node network);• transmission and reception of 500 KB of data; and• Load a map, load a hand drawing with at least 5 elements, load a route with at least 5 waypoints, and add a waypoint.			histograms of utilization averaged over a 10 minute period does not exceed 50% of the total possible utilization.	
139	TPS-5221	With a specified set of ISS-S functions executed, volatile memory histograms of utilization averaged over a 10 minute period must not exceed 50% of the total possible utilization.	M	The Bidder must provide an analysis describing how the ISS-S will meet this requirement. The analysis must describe the volatile memory utilization performance over a 10 minute period and show that the averaged utilization of volatile memory does not			The Bidder's proposal will be deemed compliant if the description proves that the volatile memory histograms of utilization averaged over a 10 minute period does not exceed 50% of the total possible utilization.	

Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
1	2	3	4	5	6	7	8	9
				exceed 50% of total possible utilization. Events to be integrated in the analysis must include: <ul style="list-style-type: none">• 5 voice transmissions of 10 seconds each, 10 voice receptions of 10 seconds each;• Blue PA (5 second report rate within a 30 node network);• transmission and reception of 500 KB of data; and• Load a map, load a hand drawing with at least 5 elements, load a route with at least 5 waypoints, and add a waypoint.				
140	TPS-4804	With a specified set of ISS-S functions executed, CPU histograms of utilization averaged over a 10 minute period should use as little CPU resources as possible.	R	The Bidder should provide an analysis describing how the ISS-S will meet this requirement. The analysis should describe the CPU performance over a 10 minute period and show that the averaged utilization of CPU does not exceed the claimed average CPU utilization. Events to be integrated in the analysis should include: <ul style="list-style-type: none">• 5 voice transmissions of 10 seconds each, 10 voice receptions of 10 seconds each;			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• If the description proves that the average CPU utilization is less than or equal 50% and greater than 40% = 50% of points;• If the description proves that the average CPU utilization is less than or equal 40% = 100% of points.	227

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				<ul style="list-style-type: none">• Blue PA (5 second report rate within a 30 node network);• transmission and reception of 500 KB of data; and• Load a map, load a hand drawing with at least 5 elements, load a route with at least 5 waypoints, and add a waypoint.				
141	TPS-5222	With a specified set of ISS-S functions executed, volatile memory histograms of utilization averaged over a 10 minute period should use as little memory resources as possible.	R	<p>The Bidder should provide an analysis describing how the ISS-S will meet this requirement. The analysis should describe the volatile memory utilization performance over a 10 minute period and show that the averaged utilization of volatile memory does not exceed the claimed volatile memory utilization. Events to be integrated in the analysis should include:</p> <ul style="list-style-type: none">• 5 voice transmissions of 10 seconds each, 10 voice receptions of 10 seconds each;• Blue PA (5 second report rate within a 30 node network);• transmission and reception of 500 KB of data; and <p>Load a map, load a hand</p>			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none">• If the description proves that the average volatile memory utilization is less than or equal 50% and greater than 40% = 50% of points.• If the description proves that the average volatile memory utilization is less than or equal 40% = 100% of points.	227

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				drawing with at least 5 elements, load a route with at least 5 waypoints, and add a waypoint.				
142	TPS-454	Main Data Storage						
143	TPS-2511	The ISS-S Main Data Storage must have enough data storage to retain 8 GB of data. The storage used for applications is excluded.	M	The Bidder must provide a detailed description of the available space of the ISS-S Main data storage such that there is 8 GB of data storage available excluding storage used for applications. The description must include the size of the storage device used and an estimate of the storage required for all the ISS-S software applications.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the Main data storage has enough data storage to retain 8 GB of data excluding storage used for applications.	
144	TPS-2512	The ISS-S Main Data Storage should have enough data storage to retain more than 8 GB of data, storage used for applications excluded.	R	The Bidder should provide a detailed description of the available space of the ISS-S Main data storage such that there is more than 8 GB of data storage available excluding storage used for applications. The description should include the size of the storage device used and an estimate of the storage required for all the ISS-S software applications.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• If the description proves that the Main Data Storage capacity is greater than 8 GB and less than or equal 32 GB = 50% of points;• If the description proves that the Main Data Storage capacity is greater than 32 GB and less than or equal 64 GB = 75% of points;• If the description proves that the Main Data Storage capacity is greater than 64 GB = 100% of points.	455
145	TPS-453	External Data Storage Device						
146	TPS-1351	The ISS-S must have an External Data Storage Device that can be removed from the ISS-S and connected to other ISS-S. The External Data	M	The Bidder must describe the External data storage device that will be used in			The Bidder's proposal will be deemed compliant if the description proves that the External data storage device can be removed from the ISS-S	

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		Storage Device is not required to meet the following requirements: - All requirements of section TPS-78 Environmental; - TPS-4983; - TPS-2884; and - TPS-4052.		their ISS-S.			and connected to other ISS-S.	
147	TPS-5223	The ISS-S must have an External Data Storage Device that can be removed from the ISS-S and connected to an in-service CF-31 laptop.	M	The Bidder must describe the External Data Storage Device that will be used in their ISS-S.			The Bidder's proposal will be deemed compliant if the description proves that the External Data Storage Device can be removed from the ISS-S and connected to an in-service CF-31 laptop.	
148	TPS-4935	The SEP should have the capability to transfer Maps between the SEP-Suite and External Data Storage Devices.	R	The Bidder should describe the External Data Storage Device that will be used in their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of the points will be given if the Bidder's description includes a description of the External Data Storage Device which proves that the SEP has the capability of transferring Maps between the SEP-Suite and External Data Storage Devices.	191
149	TPS-2504	The External Data Storage Device must be commercially available.	M	The Bidder must describe the External Data Storage Device that will be used in their ISS-S, including proof that it can be purchased from at least 3 different independent manufacturers.	-	-	The Bidder's proposal will be deemed compliant if the description proves the External Data Storage Device can be purchased from at least 3 different independent manufacturers.	
150	TPS-760	The External Data Storage Device should have enough data storage to retain more than 4 GB of information.	R	The Bidder should describe the External Data Storage Device that will be used in their ISS-S, including its actual storage capacity.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • If the description proves that the External Data Storage Device capacity is greater than 4 GB and less than or equal 16 GB = 30% of points. • If the description proves that the External Data Storage Device capacity is greater than 16 GB and less than or equal 32 GB = 70% of points.	191

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							<ul style="list-style-type: none">• If the description proves that the External Data Storage Device capacity is greater than 32 GB = 100% of points.	
151	TPS-1353	The ISS-S should display download percentage completion status when transferring data between the Main Data Storage and the External Data Storage Device.	R	The Bidder should describe the External Data Storage Device that will be used in their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description includes a description of the External Data Storage Device which proves that it displays the download percentage completion status when transferring data between the Main data storage and the External Data Storage Device.	73
152	TPS-5125	Battle Management Software						
153	TPS-5355	General						
154	TPS-1350	The ISS-S Battle Management Software must run on the ISS-S computer and use an Operating System that is commercially available.	M	The Bidder must provide a detailed description of the Operating System (name, version, size, etc...). The Operating System must not be a unique solution for ISS-S and must be used in at least 3 other systems provided by different solution providers.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the Battle Management Software runs on the ISS-S computer and use an Operating System that is commercially available.	
155	TPS-5126	The ISS-S Battle Management Software must function on an in-service CF-31 laptop, when operating with Windows XP and when operating with Windows 7, and support all Mandatory requirements below and all Rated requirements below that are provided on the ISS-S BMS: -TPS-427 Maps; -TPS-2947 Coordinate Reference Systems; -TPS-401 Bearing; -TPS-402 Distance Measurement; -TPS-399 Routes;	M	The Bidder must provide the list of Battle Management Software functions that will not be operational on the CF-31 laptop and the Bidder must state any other limitations that are applicable.	-	-	The Bidder's proposal will be deemed compliant if the description proves the ISS-S Battle Management Software functions on an in-service CF-31 laptop and supports the specified capabilities. Furthermore, the description must specify that the ISS-S Battle Management Software works on an in-service CF-31 laptop operating with Windows XP and Windows 7.	

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		TPS-1721 Hand Drawing; TPS-4819 Quick Symbols; TPS-1990 Enemy, Friendly, Unknown, Neutral Symbols; TPS-2012 Tactical Graphics; TPS-366 Intervisibility; TPS-2395 Time Appreciation tool; and TPS-2530 Overlays; and with the following exceptions: capabilities that require over the air data exchange are excluded; capabilities that require a GPS receiver or a bearing indicator are excluded; and references to ISS-S Main Data Storage is to be interpreted as the CF-31 hard drive.						
156	TPS-427	Maps						
157	TPS-1921	Formats						
158	TPS-4813	The Map Display capability should support and display National Imagery Transmission Format (NITF, MIL-STD-2500B) and NATO Secondary Image Format (NSIF, STANAG 4545) either by: • Supporting and Display the above map formats in their native format; or • Supporting and Displaying a custom map that includes the information from the above formats as described in TPS-5466.	R	The Bidder should provide a description of the map formats supported by their proposal.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • If the description proves that the Map display capability supports and displays the National Imagery Transmission Format (NITF, MIL-STD-2500B) = 50% of points. • If the description proves that the Map display capability supports and displays the NATO Secondary Image Format (NSIF, STANAG 4545) = 50% of points. • If the description proves that the Map display capability supports and displays both formats = 100% of points.	375
159	TPS-432	Maps functions						
160	TPS-433	Zoom						
161	TPS-747	When zooming in and out, the Map display functionality should switch automatically	R	The Bidder should describe the zooming functionality of			The proposal will be evaluated and scored as indicated based on the description provided by	371

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		between maps of different ratios, when they are available, according to the zoom being displayed.		their ISS-S.			the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description includes a description which proves that the ISS-S Map display functionality automatically switches between maps of different ratios when zooming in and out. The description should also include the criteria and process used to switch map ratios for all supported map formats.	
162	TPS-434	Map orientation						
163	TPS-1464	When using the Map display functionality, the ISS-S User should be able to orient the map in any direction.	R	The Bidder should provide a description of the map orientation of their ISS-S Map display functionality.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description includes a description which proves that the ISS-S Map functionality includes an option to orient the map displayed on the Tactical User Interface in any direction selected by the ISS-S User.	376
164	TPS-608	The Map display functionality should include a user selected option to have the map orientation continuously adjust itself to have the bearing of the user facing up on the display, with the following characteristics: <ul style="list-style-type: none">• The rotation of the map is made by steps of 10 degrees or less;• The bearing is calculated using the direction of travel of the User when he is travelling;• The bearing is calculated using the facing direction of the User when he is not travelling.	R	The Bidder should provide a description of the map orientation of their ISS-S Map display functionality.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description includes a complete description of the design features that proves that the requirement is met when the User is travelling and when the User is not travelling.	376
165	TPS-365	Navigation						
166	TPS-5464	General						
167	TPS-2949	When a User is navigating along an active route, the ISS-S User should be able to display the Estimated Time of Arrival to the last waypoint of	R	The Bidder should provide a description of the Navigation functionality of			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:	188

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		the route.		their ISS-S, including the options available to the ISS-S User.			<ul style="list-style-type: none"> • 100% of points if the Bidder's description includes a description of the Navigation system of their ISS-S which proves that the ISS-S is capable of displaying the Estimated Time of Arrival to the last waypoint of the route. 	
168	TPS-5112	The ISS-S should provide a bread crumbs feature, that can be toggle on/off, displaying the real path travelled by the ISS-S node.	R	The Bidder should provide a description of the Navigation functionality of their ISS-S, including the options available to the ISS-S User.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none"> • 100% of points if the Bidder's description includes a description of the Navigation system of their ISS-S which proves that the ISS-S provides a bread crumbs feature, that can be toggle on/off, displaying the real path travelled by the ISS-S node. 	97
169	TPS-3046	The symbol indicating the User's own position should also indicate the direction of travel when the user is travelling and the facing direction when the user is standing still.	R	The Bidder should provide a description of the Navigation functionality of their ISS-S.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none"> • 100% of points if the Bidder's description includes a description of the Navigation system of their ISS-S which proves that the symbol indicating the User's own position also indicates the direction of travel when the user is travelling and indicates the facing direction when the user is standing still. 	239
170	TPS-1909	When an ISS-S User is navigating along an active route and deviates more than a determined distance from the route, the ISS-S User should be notified by means of an Advisory signal as described in TPS-5482.	R	The Bidder should provide a list of all supported Warning, Caution and Advisory signals and provide a description of their associated visual alert and audio alarm.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the ISS-S provides an Advisory to the User when he deviates more than a determined distance from a route the User navigates along. The Bidder should also provide a description of the Advisory. 	46
171	TPS-2947	Coordinate Reference Systems						
172	TPS-4788	The ISS-S User should be able to display positional information using either MGRS 10	R	The Bidder should describe the Coordinate Reference			The proposal will be evaluated and scored as indicated based on the description provided by	90

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		figure grid reference with UTM map reference or latitude/longitude, in degrees, minutes and seconds map reference system.		System of their ISS-S, including the units in which it displays positional information.			the Bidder: • 100% of points if the Bidder's description includes a description of the Coordinate Reference Systems of their ISS-S which proves that the ISS-S User has the choice to select to display positional information using either: - Option 1) MGRS 10 figure grid reference with UTM map reference; - Option 2) latitude/longitude in degrees, minutes and seconds map reference system.	
173	TPS-401	Bearing						
174	TPS-5110	The ISS-S User should be able to display bearing information in degrees and in mils.	R	The Bidder should describe how the proposed solution can display bearing information using different units.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the ISS-S User can display bearing information in degrees and in mils.	90
175	TPS-402	Distance Measurement						
176	TPS-718	The Distance Measurement function should measure and display automatically the following information: 1) the distance of a Route inputted by the ISS-S User; 2) the distance remaining to the final waypoint of a Route; and 3) the distance travelled along the Route.	R	The Bidder should describe the Distance Measurement function of their ISS-S, including what distance measurements the proposed solution provides and how the proposed solution computes the distance measurements and provides them to the ISS-S User.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • If the description proves that the ISS-S can measure automatically and display automatically one (1) of the three (3) information requested = 20% of points. • If the description proves that the ISS-S can measure automatically and display automatically two (2) of the three (3) information requested = 60% of points. • If the description proves that the ISS-S can measure automatically and display automatically all three (3) information requested = 100% of points.	659
177	TPS-5111	The ISS-S User should be able to display distance information in one of the following systems:	R	The Bidder should describe the Distance Measurement function of their ISS-S,			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:	90

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		1) International System of units (SI); and 2) Imperial.		including which units can be used to display distance information.			<ul style="list-style-type: none"> 100% of points if the Bidder's description proves that the ISS-S User can distance information in one of the following units: <ol style="list-style-type: none"> metric; and imperial. 	
178	TPS-4818	Graphical Data Types						
179	TPS-2539	Blue PA						
180	TPS-4820	In addition to the Blue PA messages generated as part of TPS-2587, the Blue PA generation functionality should generate a Blue PA message after the user has travelled a configured distance since the last Blue PA message, without requiring intervention from the User.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	192
181	TPS-4122	The ISS-S should offer an automatic aggregation mode which automatically displays either Commanders or centre of mass of section and platoon depending on the level of zoom.	R	The Bidder should describe the aggregation mode of their ISS-S Blue PA functionality.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> 100% of points if the Bidder's description proves that the ISS-S offers an automatic aggregation mode, depending on zoom level, which automatically displays either: <ol style="list-style-type: none"> the Commanders (platoon and sections); or the centre of mass (platoon and section). 	192
182	TPS-2019	The ISS-S User should be able to view only the Blue PA from ISS-S nodes registered to selected COIs.	R	The Bidder should describe the Blue PA display options of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> 100% of points if the Bidder's description proves that the ISS-S offers the option to view only the Blue PA from ISS-S nodes from selected COIs. 	99
183	TPS-2023	The ISS-S User should be able to display different COIs according to one of three positional information display modes: centered on the Commander, centre of mass (aggregated), or individual soldier positions.	R	The Bidder should describe the Blue PA display options of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: The description should prove that the ISS-S has	99

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							the option to display the Blue PA of different COIs according to several positional information display modes: <ul style="list-style-type: none">• Individual soldier positions and centered on the Commander = 50% of points;• Individual soldier positions and centre of mass (aggregated) = 50% of points;• Individual soldier positions and centered on the Commander and centre of mass (aggregated) = 100% of points.	
184	TPS-5462	The ISS-S must mutually exchange Blue PA between ten (10) ISS-S within 30 seconds from initiation of the Blue PA function at each ISS-S.	M	The Bidder must provide a detailed description of how their ISS-S Blue PA functions from initiation when ten (10) ISS-S Blue PA functions are started simultaneously. The description must describe how the Blue PA network is formed within the allotted time in the requirement.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the ISS-S is able to mutually exchange Blue PA between ten (10) ISS-S within 30 seconds from initiation of the Blue PA function at each ISS-S.	
185	TPS-399	Routes						
186	TPS-641	The ISS-S User must have the capability to generate and select waypoints on the map.	M	The Bidder must describe the Route Planning function of their ISS-S, including how to generate and select waypoints on the map.			The Bidder's proposal will be deemed compliant if the description proves that the ISS-S User has the capability to generate and select waypoints on the map.	
187	TPS-5094	The Route planning function must support Routes of at least 200 waypoints.	M	The Bidder must describe the Route Planning function of their ISS-S.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the Route Planning function supports Routes of at least 200 waypoints.	
188	TPS-707	When using the Route planning function, the ISS-S User must be able to modify Routes by deleting or adding waypoints at the end of the Route.	M	The Bidder must describe the Route Planning function of their ISS-S.			The Bidder's proposal will be deemed compliant if the description proves that the ISS-S Route Planning function has the capability to modify routes by deleting or adding waypoints at the end of the route.	

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189	TPS-1973	When using the Route planning function, the ISS-S User should be able to modify Routes by selecting, modifying, deleting or adding waypoints anywhere in the Route, whether it is at the beginning, the end or between two waypoints.	R	The Bidder should describe the Route Planning function of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the ISS-S Route Planning function has the capability to modify routes by selecting, modifying, deleting or adding waypoints anywhere in the route, whether it is at the beginning, the end or between two waypoints.	138
190	TPS-706	When multiple Routes are displayed, the ISS-S User should be able to toggle selected Routes on and off.	R	The Bidder should describe the Route Planning function of their ISS-S, including the display options of selected Routes.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the ISS-S User is able to toggle selected Routes on and off when multiple routes are displayed on the Tactical User Interface display.	138
191	TPS-4838	When a Route is exchanged between two ISS-S, the receiving ISS-S User should be able to make modifications to the received Route.	R	The Bidder should describe the Route Planning function of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the receiving ISS-S allows the User to make modifications to the received Route when a Route is exchanged between two ISS-S.	44
192	TPS-4842	When a Route is exchanged between two ISS-S, the receiving ISS-S User should be able to make a copy of the received Route.	R	The Bidder should describe the Route Planning function of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the receiving ISS-S allows the User to make copies of the received Route when a Route is exchanged between two ISS-S.	44
193	TPS-1721	Hand Drawing						
194	TPS-5114	The Hand Drawing capability should support multiple colours.	R	The Bidder should describe the Hand Drawing capability of their ISS-S, including how many colours it			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description	138

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				supports.			proves that the Hand Drawing capability supports multiple colours.	
195	TPS-1726	The Hand Drawings must be geo-referenced and associated to the map on which they are drawn.	M	The Bidder must describe the Hand Drawing capability of their ISS-S, including how the drawings are geo-referenced and associated to the map on which they are drawn.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the Hand Drawings is geo-referenced and associated to the map on which they are drawn.	
196	TPS-5502	The ISS-S User must be able to make modifications to a Hand Drawing when creating it and when displaying it.	M	The Bidder must describe the Hand Drawing capability of their ISS-S, including what mechanisms are available for the ISS-S User to make modifications to hand drawings as they are being created and when displaying Hand Drawings.			The Bidder's proposal will be deemed compliant if the description proves that the ISS-S User can make modifications to a Hand Drawings as it is being created and when displaying it.	
197	TPS-5503	The ISS-S User must be able to delete Hand Drawings.	M	The Bidder must describe the Hand Drawing capability of their ISS-S, including what mechanisms are available for the ISS-S User to delete a Hand Drawing.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the ISS-S User can delete a Hand Drawing.	
198	TPS-4844	When a Hand Drawing is exchanged between two ISS-S, the receiving ISS-S User should be able to make modifications to the received Hand Drawing.	R	The Bidder should describe the Hand Drawing function of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the receiving ISS-S allows the User to make modifications to the received Hand Drawing when a Hand Drawing is exchanged between two ISS-S.	44
199	TPS-4845	When a Hand Drawing is exchanged between two ISS-S, the receiving ISS-S User should be able to make copies of the received Hand Drawing.	R	The Bidder should describe the Hand Drawing function of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description	44

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							proves that the receiving ISS-S allows the User to make copies of the received Hand Drawing when a Hand Drawing is exchanged between two ISS-S.	
200	TPS-4878	When multiple Hand Drawings are displayed, the ISS-S User should be able to toggle selected Hand Drawings on and off.	R	The Bidder should describe the Hand Drawing function of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the ISS-S User is able to toggle selected Hand Drawings on and off when multiple Hand Drawings are displayed on the Tactical User Interface display.	138
201	TPS-1990	Enemy, Friendly, Unknown and Neutral Symbols						
202	TPS-4905	The ISS-S should support Enemy, Friendly, Unknown and Neutral data types by allowing the ISS-S User to create, display and manage the following symbols described in B-GL-334-001/FP-001 whenever the map is displayed: <ul style="list-style-type: none">• TAM 105.03 UNIT ICONS, section 2 (Unit Icons)• TAM 105.04 EQUIPMENT ICONS, section 2 (Equipment Icons), and• TAM 105.06 IRREGULAR WARFARE	R	The Bidder should describe how it supports the Enemy, Friendly, Unknown and Neutral entities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the ISS-S supports Enemy, Friendly, Unknown and Neutral entities data types by allowing the ISS-S User to create, display and manage the requested entities.	188
203	TPS-5410	The ISS-S Enemy, Friendly, Unknown and Neutral symbols should be geo-referenced.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	150
204	TPS-4113	For presentation purpose, when displaying the symbols specified in TPS-4905, except TAM 105.06 IRREGULAR WARFARE, the ISS-S should use the Friend, Hostile, Unknown and Neutral affiliation symbols used for Land Units, Land Equipment and Land Installations, presented in B-GL-334-001/FP-001 TAM 105.02, Figure 2.	R	The Bidder should describe how it supports the Enemy, Friendly, Unknown and Neutral entities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the ISS-S uses the Friend, Hostile, Unknown and Neutral affiliation symbols for Land Units, Land Equipment and Land Installations when displaying the entities specified in TPS-4905.	38

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205	TPS-2003	When the ISS-S User selects an Enemy, Friendly, Unknown and Neutral symbol on the Map Display, the following fields indicated in B-GL-334-001/FP-001 TAM 105.02, Table 1 "Symbol Modifier Fields" should be accessible and modifiable when required by the ISS-S User: 1) A - Symbol Indicator 2) B - Size Indicator 3) D - Task Force Indicator 4) F - Reinforced or Detached 5) M - Higher Formation 6) S - HQ Indicator / Location Offset Indicator 7) T - Unique Designation	R	The Bidder should describe how it supports the Enemy, Friendly, Unknown and Neutral entities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the indicated seven fields are accessible and modifiable by selecting the entity on the Tactical User Interface display.	38
206	TPS-4866	Symbols should include a free text field accessible and modifiable when required by the ISS-S User in the same way as the fields specified in TPS-2003	R	The Bidder should describe how it supports the Enemy, Friendly, Unknown and Neutral entities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that a free text field is accessible and modifiable for entities specified in TPS-4905, in addition to the Symbol Modifier Fields specified in TPS-2003.	38
207	TPS-4867	When a User modifies a field indicated in TPS-2003, the ISS-S should modify the graphical representation of the icon according to the placement of modifiers indicated in B-GL-334-001/FP-001 TAM 105.02, Figure 4 "Unit Size Indicators" and Figure 5 "Symbol Modifier Field Positions for Units, Installations and Equipment"	R	The Bidder should describe how it supports the Enemy, Friendly, Unknown and Neutral entities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the ISS-S modifies the graphical representation of the icon according to the placement of modifiers when an ISS-S User modifies a field indicated in TPS-2003.	38
208	TPS-4110	The ISS-S User should be able to query symbols for additional information by selecting a symbol to bring up an information box next to it.	R	The Bidder should describe how it supports the Enemy, Friendly, Unknown and Neutral entities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the User is able to query symbols/map entities for more information by placing the cursor on the entity and selecting to	38

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							bring up an information box next to the symbol.	
209	TPS-1993	The ISS-S User should be able to link pictures, images or other files to any Enemy, Friendly, Neutral and Unknown symbol on the map.	R	The Bidder should describe how it supports the Enemy, Friendly, Unknown and Neutral entities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the User is able to link pictures, images and other files to any Enemy, Friendly, Neutral and Unknown entity on the map.	38
210	TPS-1994	The ISS-S User should be able to change an Enemy, Friendly, Neutral and Unknown symbol into another one amongst those four categories by selecting a symbol and making modifications to its parameters.	R	The Bidder should describe how it supports the Enemy, Friendly, Unknown and Neutral entities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the User is able to change the status of an entity (e.g. from neutral to enemy) and modify its parameters.	38
211	TPS-3904	All Enemy, Friendly, Neutral and Unknown symbols should include the time it was created and time of modifications.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	38
212	TPS-4875	The ISS-S should exchange Enemy, Friendly, Neutral and Unknown symbols over-the-air using the Automatic rule described in TPS-2562.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	38
213	TPS-1998	When the ISS-S User wants to add an Enemy, Friendly, Neutral and Unknown symbol on the map, the ISS-S User should be able to select it from a list that includes every Enemy, Friendly, Neutral and Unknown symbols.	R	The Bidder should describe how it supports the Enemy, Friendly, Unknown and Neutral entities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the ISS-S is able to select from a list all available entities such that it can be added on the map.	38
214	TPS-2572	Symbols should be grouped by categories in the list of selectable symbols to ease user selection.	R	The Bidder should describe how it supports the Enemy, Friendly, Unknown and Neutral entities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the entities are grouped as presented in B-GL-334-001/FP-001:<ul style="list-style-type: none">- TAM 105.03 UNIT ICONS, section 2 (Unit	38

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							Icons) - TAM 105.04 EQUIPMENT ICONS, section 2 (Equipment Icons), and - TAM 105.06 IRREGULAR WARFARE	
215	TPS-2012	Tactical Graphics						
216	TPS-2600	When displaying the map, the ISS-S should have the capability to create, display and manage the following Tactical Graphics described in B-GL-334-001/FP-001: <ul style="list-style-type: none"> • Advance to contact (page TAM 102-2) • Ambush (page TAM 102-2) • Attack (page TAM 102-2) • Attack by fire (page TAM 102-2) • Block (page TAM 102-2) • Breach (page TAM 102-2) • Bypass (page TAM 102-2) • Canalize (page TAM 102-2) • Capture (page TAM 102-2) • Clear (page TAM 102-3) • Cover (page TAM 102-3) • Disrupt (page TAM 102-4) • Delay (page TAM 102-4) • Deny (page TAM 102-4) • Destroy (page TAM 102-4) • Fix (page TAM 102-6) • Interdict (page TAM 102-6) • Isolate (page TAM 102-6) • Neutralize (page TAM 102-7) • Occupy (page TAM 102-7) • Penetrate (page TAM 102-7) • Relief in Place (page TAM 102-7) • Retain (page TAM 102-7) • Secure (page TAM 102-8) • Seize (page TAM 102-8) • Support by Fire (page TAM 102-8) • Suppress (page TAM 102-8) 	R	The Bidder should describe how it supports the Tactical Graphics, including which Tactical Graphics is supported by its ISS-S solution.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. The description should prove that the ISS-S has the capability to create, display and manage the following Tactical Graphics: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the ISS-S has the capability to create, display and manage all the requested Tactical Graphics when displaying the map. 	91

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		<ul style="list-style-type: none">• Withdraw (page TAM 102-9)• General or Unspecified Command and Control Point (page TAM 105-21)• Coordination point (page TAM 105-21)• Friendly Presence (page TAM 105-22)• Friendly Planned or On Order (page TAM 105-22)• Enemy Known (page TAM 105-22)• Enemy Suspected or Templated (page TAM 105-22)• Observation post (OP) / Outpost (page TAM 105-26)• Friendly Ground Axis of Supporting attack (page TAM 105-29)• Friendly Ground Axis of Main Attack (page TAM 105-29)• Enemy Confirmed (page TAM 105-29)• Obstacle Line (page TAM 105-30)• Anti-tank ditch (page TAM 105-30)• Abatis (page TAM 105-30)• AT minefield (page TAM 105-31)• AP minefield (page TAM 105-31)• Trip wire (page TAM 105-32)• Bridge or gap (page TAM 105-33)• Double apron fence (page TAM 105-34)• Low wire fence (page TAM 105-34)• High wire fence (page TAM 105-34)• Single concertina (page TAM 105-34)• Double strand concertina (page TAM 105-34)• Point/Single Target (page TAM 105-37)						
217	TPS-5411	The ISS-S Tactical Graphics should be geo-referenced.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	91
218	TPS-1944	When displaying the map, the ISS-S User should be able to add text annotation to a point on a map.	R	The Bidder should describe how it supports the Tactical Graphics, including which Tactical Graphics is			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description	91

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				supported by its ISS-S solution.			proves that the ISS-S allows the User to add text annotation to a point on a map.	
219	TPS-4942	The ISS-S should exchange Tactical Graphics and text annotation over-the-air using the Automatic rule described in TPS-2562	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	91
220	TPS-366	Intervisibility						
221	TPS-721	When displaying the map, the ISS-S should include an Intervisibility function which uses DTED level 2 elevation when calculating Line Of Sight.	R	The Bidder should describe the Intervisibility function of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the ISS-S includes an Intervisibility function using DTED level 2.	403
222	TPS-722	When using the Intervisibility function, the ISS-S User should be able to select a point on the map and have the Intervisibility displayed on the map for this point.	R	The Bidder should describe the Intervisibility function of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the Intervisibility function allows the User to select a point on the map and have the Intervisibility displayed on the map for this point.	202
223	TPS-724	When using the Intervisibility function, the ISS-S User should be able to select multiple points on the map and have the Intervisibility simultaneously displayed on the map for all points.	R	The Bidder should describe the Intervisibility function of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the Intervisibility function allows the User to select multiple points on the map and have the Intervisibility simultaneously displayed on the map for all points.	202
224	TPS-2528	Mission Planning Tools						
225	TPS-2395	Time Appreciation Tool						
226	TPS-2398	The ISS-S should include a Time Appreciation Tool which allows the ISS-S User to create, save, load, delete and modify Time Appreciation Tables.	R	The Bidder should describe the Time Appreciation tool of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the ISS-S includes a Time Appreciation Tool which allows the User to	46

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							create, save, load, delete and modify Time Appreciation Tables.	
227	TPS-2399	The Time Appreciation Tables should be based on the format presented in B-GL-332-008/FP-001, section 807.01, Figure 8-1 "Example of a time estimate for a platoon attack".	R	The Bidder should describe the Time Appreciation tool of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the Time Appreciation Tables are based on the format presented in B-GL-332-008/FP-001, section 807.01, Figure 8-1 "Example of a time estimate for a platoon attack". 	37
228	TPS-2400	The Time Appreciation Tables should include columns for activity names, time required for the activity and end time for the activity.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	37
229	TPS-2401	The Time Appreciation Tables should present the User with the current time.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	37
230	TPS-2402	The Time Appreciation Tool should automatically calculate the end time of each activity and the total time based on the amount of time required for each activities entered by the ISS-S User.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	37
231	TPS-2404	The Time Appreciation Tool should allow the User to save Time Appreciation Tables in a printable text format.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	37
232	TPS-379	Reports & Returns						
233	TPS-5397	General						
234	TPS-1309	The ISS-S should automatically populate all known information to the appropriate field of the Report & Return being generated with the option to change the information entered into a data field by using the following means: 1) cut/copy/paste; 2) direct entry from the Text Entry Capability if available; 3) selecting an object or location on the map display (where applicable);	R	The Bidder should describe how the fields of the various supported Reports & Returns are populated.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: The description should prove that the ISS-S allows the User to change the information entered into a data field using: <ul style="list-style-type: none"> • cut/copy/paste = 20% of points. • direct entry from the Text Entry Capability = 30% of points. • selecting an object or location on the map 	65

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		4) CORAL-CR-C (where applicable).					display (where applicable) = 30% of points. • CORAL-CR-C (where applicable) = 20% of points.	
235	TPS-387	Fire Mission						
236	TPS-1325	The ISS-S User must be able to receive, generate, display and manage the pre-formatted Fire Mission including all fields specified in B-GL-334-001/FP-001 SOP 704.08 plus an "Adjustments" and "Altitude" field.	M	The Bidder must describe how its ISS-S solution supports the Fire Mission function.			The Bidder's proposal will be deemed compliant if the description proves that the ISS-S can receive, generate, display and manage the pre-formatted Fire Mission including all fields specified in B-GL-334-001/FP-001 SOP 704.08 plus an "Adjustments" and "Altitude" field.	
237	TPS-1326	When a Fire Mission is sent over the air, the ISS-S should provide a way to send updates to the "Adjustments" field to the Fire Mission over the air.	R	The Bidder should describe how its ISS-S solution supports the Fire Mission function.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the ISS-S provides a way to send updates to the "Adjustments" field when a Fire Mission is sent over the air.	61
238	TPS-1327	The Battle Management System must use the information provided by the CORAL-CR-C to complete the Fire Mission Report and Return fields whenever the CORAL-CR-C is used to acquire a target.	M	The Bidder must describe how its ISS-S solution supports the Fire Mission function, including the way its fields are populated.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the Battle Management System uses the information provided by the CORAL-CR-C to complete the Fire Mission Report and Return fields.	-
239	TPS-1328	The ISS-S User must be able to fill the Fire Mission Report "Direction" and "Target Location" fields automatically by selecting a point or an entity on the map.	M	The Bidder must describe how its ISS-S solution supports the Fire Mission function, including the way its fields are populated.			The Bidder's proposal will be deemed compliant if the description proves that the User is able to fill the "Direction" and "Target Location" fields automatically by selecting a point or an entity on the map.	
240	TPS-1329	If the Map display has DTED elevation data for the target location, the ISS-S User should be able to fill the "Altitude" field automatically by selecting a point or an entity on the map.	R	The Bidder should describe how its ISS-S solution supports the Fire Mission function, including the way its fields are populated.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the User is able to fill the "Altitude" field automatically by selecting a point or an entity on the map if DTED elevation data is available.	61

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1	2	3	4	5	6	7	8	9
241	TPS-5393	Contact Report						
242	TPS-5394	The ISS-S User must be able to receive, generate, display and manage the pre-formatted Contact Report specified in B-GL-334-001/FP-001 SOP 703.04.	M	The Bidder must describe how its ISS-S solution supports the Contact Report function.			The Bidder's proposal will be deemed compliant if the description proves that the ISS-S has the capability to receive, generate, display and manage the specified pre-formatted Contact Report.	
243	TPS-2664	The ISS-S must generate a Contact Report when the ISS-S User adds an Enemy symbol on his Tactical User Interface.	M	The Bidder must describe how its ISS-S solution supports the Contact Report function.			The Bidder's proposal will be deemed compliant if the description proves that the ISS-S allows the generation of a Contact Report when the User adds an Enemy entity on his Tactical User Interface.	
244	TPS-2665	The ISS-S must display the appropriate Enemy symbol when receiving a Contact Report, based on the contents of this Contact Report.	M	The Bidder must describe how its ISS-S solution supports the Contact Report function.			The Bidder's proposal will be deemed compliant if the description proves that when an ISS-S receives a Contact Report, the appropriate Enemy entity is displayed and saved based on the contents of this Contact Report.	
245	TPS-2554	Other Supported Reports & Returns						
246	TPS-5494	The ISS-S User must be able to receive, generate, display and manage the following pre-formatted, structured Reports & Returns specified in B-GL-334-001/FP-001: CASEVACREQ (702.02) and Situation Report (704.33).	M	The Bidder must describe how its ISS-S solution supports the CASEVAQ and Situation Report functions.			The Bidder's proposal will be deemed compliant if the description proves that the ISS-S has the capability to receive, generate, display and manage the specified pre-formatted CASEVAQ and Situation Report.	
247	TPS-1305	The ISS-S User should be able to receive, generate, display and manage the following pre-formatted, structured Reports & Returns specified in B-GL-334-001/FP-001: INCREP (704.02), STRIKEWARN [NUC] (SOP 704.04), NBC 1 to 6 - Biological/Chemical/Nuclear Reports (SOP 704.05), BOMBREP (SOP 704.06), FM.CFF (SOP 704.07), EODINCREP (SOP 704.14), FM.FMC (SOP 704.18), FM.MTO (SOP 704.19), FM.SUB (SOP 704.20), BOMBWARN (SOP 704.22), ROEIMPL (SOP 704.29).	R	The Bidder should describe which Reports & Returns are supported by their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. The description should prove that the ISS-S receives, generates, displays and manages the following pre-formatted, structured Reports & Returns: <ul style="list-style-type: none">• INCREP = 10% of points.• STRIKEWARN = 10% of points.• NBC 1 to 6 Biological/Chemical/Nuclear Reports = 10% of points.• BOMBREP = 15% of points.	323

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							<ul style="list-style-type: none"> • FM.CFF = 10% of points. • EODINCREP = 15% of points. • FM.FMC, FM.MTO, FM.SUB = 10% of points. • BOMBWARN = 10% of points. • ROEIMPL = 10% of points. 	
248	TPS-5395	The ISS-S User should be able to receive, generate, display and manage the following pre-formatted, structured Reports & Returns specified in B-GL-334-001/FP-001: PERSREP (SOP 702.03), COMCAREP (SOP 703.01), INTREP (703.02), PRETECHREP (SOP 703.05), BARREP (SOP 704.10), OBSREP (SOP 704.11), SCATMINORD/WARN/REP (SOP 704.13), PTLREP (SOP 704.15), EWJAMREP (SOP 704.16), MIJIWARNREP (SOP 704.17), SCATMINREQ (SOP 704.21), DMLORD (SOP 704.23), RTERECCEORD/REP (SOP 704.24), RBTRECCEORD/REP (SOP 704.25), GAPRECCEORD/REP (SOP 704.26), BRDMLRECCEORD/REP (SOP 704.27), MINLAYRECCEORD/MINLAYRECCEREP (SOP 704.28), MINLAYORD/MINLAYREP (SOP 704.28), METREP (SOP 704.32).	R	The Bidder should describe which Reports & Returns are supported by their ISS-S.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder.</p> <p>The description should prove that the ISS-S receives, generates, displays and manages the following pre-formatted, structured Reports & Returns:</p> <ul style="list-style-type: none"> • PERSREP = 5% of points. • COMCAREP = 5% of points. • INTREP = 10% of points. • PRETECHREP = 5% of points. • BARREP = 5% of points. • OBSREP = 5% of points. • SCATMINORD/WARN/REP = 5% of points. • PTLREP = 10% of points. • EWJAMREP = 5% of points. • MIJIWARNREP = 5% of points. • SCATMINREQ = 4% of points. • DMLORD = 5% of points. • RTERECCEORD/REP = 4% of points. • RBTRECCEORD/REP = 4% of points. • GAPRECCEORD/REP = 4% of points. • BRDMLRECCEORD/REP = 4% of points. • MINLAYRECCEORD/MINLAYRECCEREP = 5% of points. • MINLAYORD/MINLAYREP = 5% of points. • METREP = 5% of points. 	242
249	TPS-5396	The ISS-S User should be able to receive, generate, display and manage the following pre-formatted, structured Reports & Returns specified in B-GL-334-001/FP-001: ARRESREP	R	The Bidder should describe which Reports & Returns are supported by their ISS-S.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder.</p> <p>The description should prove that the ISS-S</p>	37

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		(SOP 702.01), RFTDEM [PERS] (SOP 702.04), PWPERSREC (702.05), INTSUM (SOP 703.06), Conventional Minefield Intention to Lay (SOP 704.12).					receives, generates, displays and manages the following pre-formatted, structured Reports & Returns: • ARRESREP = 20% of points • RFTDEM [PERS] = 20% of points. • PWPERSREC = 20% of points. • INTSUM = 20% of points. • Conventional Minefield Intention to Lay = 20% of points.	
250	TPS-388	ADREP						
251	TPS-2662	The ISS-S User should be able to receive, generate, and manage ADREP Reports & Returns with the following fields: 1) Title (ADREP); 2) Time of delivery; 3) Pickup location; 4) Ammo; 5) POL; 6) Rations; 7) Water; 8) Misc.	R	The Bidder should describe how its ISS-S solution supports the ADREP.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the ISS-S has the capability to receive, generate, and manage the ADREP Reports & Returns with the specified fields.	19
252	TPS-417	Imagery						
253	TPS-483	The ISS-S should display images with a resolution of 3968x2976 and lower, encoded in the JPEG format.	R	The Bidder should describe how Imagery is supported by their ISS-S, including the supported minimal resolution and image formats.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the ISS-S is capable of displaying images with a resolution of 3968x2976 and lower, encoded in the JPEG format.	45
254	TPS-4124	The ISS-S User should be able to import and display images encoded in a NITF format	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	48
255	TPS-3942	The ISS-S User should be able to zoom in and out on a displayed image.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	41
256	TPS-3944	The ISS-S User should be able to pan on a displayed image.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	41

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257	TPS-3943	The ISS-S should scale images such that it can be displayed entirely on the display without the User having to pan to see the full picture.	R	The Bidder should describe how Imagery is supported by their ISS-S, including the scaling of images.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the ISS-S is capable of scaling images such that they can be fully displayed without the User having to pan to see the complete image. 	35
258	TPS-2675	The ISS-S User should be able to save images on the Main Data Storage.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	45
259	TPS-486	The ISS-S User should be able to annotate pictures and save the annotated pictures.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	35
260	TPS-4859	The ISS-S should exchange Images over-the-air using the Manual rule described in TPS-2565	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	45
261	TPS-5306	If TPS-4795 is provided, the ISS-S User should be able to display and save the still imagery from the digital camera(s).	R	The Bidder should describe how Imagery is supported by their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the ISS-S has the ability to display and save the still imagery from the digital camera(s) (at least one format per commercial camera or at least one format from the integrated camera). 	10
262	TPS-406	Text Messaging						
263	TPS-1520	When receiving a new Text Message, the ISS-S User should be notified by means of an Advisory Signal as described in TPS-5482.	R	The Bidder should provide a list of all supported Warning, Caution and Advisory signals and provide a description of their associated visual alert and audio alarm.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the User is notified when receiving a new Text Message. 	139
264	TPS-2683	All Text Messages sent or received by the ISS-S should be saved on the Main Data Storage.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	139
265	TPS-2427	The ISS-S User should be able to delete the sent and received Text Messages.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	139

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266	TPS-5339	When using the Text Messaging capability, the ISS-S User should be able to attach files to text messages, and to detach files from messages and save them in the Main Data Storage.	R	The Bidder should describe the Text Messaging capability of their ISS-S, including the attachments options.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the ISS-S Text Messaging capability allows the User sending the Text Message to add attachment files and the User receiving the Text Message to display and save attachment files to the Main data storage. 	152
267	TPS-4862	The ISS-S should exchange Text Messages over-the-air using the Manual rule described in TPS-2565	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	139
268	TPS-2657	Text Documents						
269	TPS-2684	The ISS-S should read and display Text Documents written in the following formats: <ul style="list-style-type: none"> a) Plain Text, b) RTF (Rich Text Format), c) Portable Document Format (PDF). 	R	The Bidder should describe how its ISS-S solution supports Text Documents, including which formats it supports.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. The description should prove that the ISS-S is capable of reading and displaying Text documents in: <ul style="list-style-type: none"> • Plain Text = 40% of points. • RTF (Rich Text Format) = 40% of points. • Portable Document Format (PDF) = 20% of points. 	86
270	TPS-2685	The ISS-S User should be able to generate Text Documents in RTF.	R	The Bidder should describe how its ISS-S solution supports Text Documents, including which formats it can generate text.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the ISS-S is capable of generating Text Documents in RTF. 	86
271	TPS-2689	The ISS-S User should be able to write Orders, Warning Orders, and Frag Orders using Text Documents.	R	The Bidder should describe how its ISS-S solution supports Text Documents, including which type of documents that can be generated.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the ISS-S User is capable of writing Orders, Warning Orders, and Frag Orders. 	45

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1	2	3	4	5	6	7	8	9
272	TPS-2688	The ISS-S User should be able to create, modify and reuse templates when writing Orders, Warning Orders, and Frag Orders.	R	The Bidder should describe how its ISS-S solution supports Text Documents, including which type of documents can be managed.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the ISS-S User is capable of creating, modifying and reusing templates when writing Orders, Warning Orders, and Frag Orders.	41
273	TPS-4863	The ISS-S User should be able to save Text Documents on the Main Data Storage.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	45
274	TPS-4864	The ISS-S should exchange Text Documents over-the-air using the Manual rule described in TPS-2565.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	41
275	TPS-2530	Overlays						
276	TPS-613	The ISS-S Overlays should allow the ISS-S User to display on the map as overlay separation all the Graphical Data types defined in TPS-4818.	R	The Bidder should describe the Overlay functionality of their ISS-S, including how various data can be displayed by types.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. The description should prove that the ISS-S Overlays allows the ISS-S User to display on the map all the Graphical Data by types as different overlays: <ul style="list-style-type: none">• Blue PA overlay = 20% of the points.• Routes overlay = 10% of the points.• Hand Drawings overlay = 20% of the points.• Quick Symbols overlay = 10% of the points.• Enemy, Friendly, Unknown and Neutral overlay = 10% of points.• Tactical Graphics = 20% of points.• Graphical Plans = 10% of points.	81
277	TPS-5412	The ISS-S Overlays should be geo-referenced.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	65
278	TPS-2715	The ISS-S Overlays should present and supporting Enemy, Friendly, Unknown and Neutral Symbols and Blue PA using the following Overlay separation:	R	The Bidder should describe the Overlay functionality of their ISS-S, including how various data can be			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. The description should prove that the ISS-S	65

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		<ul style="list-style-type: none">• Enemy;• Friendly and Blue PA; and• Neutral and Unknown.		displayed by types.			Overlays allows the ISS-S User to display on the map all the Graphical Data by types as different overlays: <ul style="list-style-type: none">• Enemy overlay = 40% of the points.• Friendly overlay (Friendly includes Blue PA icons and Friendly not equipped with an ISS-S) = 40% of the points.• Unknown and Neutral overlay = 20% of the points.	
279	TPS-4879	Different Hand Drawings and Routes should be presented as different ISS-S Overlays.	R	The Bidder should describe the Overlay functionality of their ISS-S, including how various data can be displayed by types.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. The description should prove that the ISS-S Overlays allows the ISS-S User to display on the map different overlays of the same data type: <ul style="list-style-type: none">• Different overlays for different Routes = 40% of the points.• Different overlays for different Hand Drawings = 40% of the points.• Different overlays for different Graphical Plans = 20% of the points.	65
280	TPS-2695	The ISS-S User should be able to toggle on or off any ISS-S Overlay.	R	The Bidder should describe the Overlay functionality of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the ISS-S Users has the capability to toggle on or off any ISS-S Overlay and display and hide them in different combinations (1 overlay active with 3 hidden, 2 overlays active with 2 hidden, etc...).	65
281	TPS-4040	When an Overlay is turned on by the ISS-S User, the ISS-S should display all data entities associated to the Overlay.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	56
282	TPS-4041	When an Overlay is turned off by the User, the ISS-S should not display any data entity associated to the Overlay.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	56

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283	TPS-2696	The ISS-S User should be able to view all available ISS-S Overlays at the same time.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	65
284	TPS-5488	The ISS-S User should be able to save multiple Overlays on the Main Data Storage.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	56
285	TPS-5489	The ISS-S User should be able to select which Overlays to display from the ones saved on his/her ISS-S.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	65
286	TPS-5490	The ISS-S should exchange Overlays over-the-air using the Manual rule described in TPS-2565	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	56
287	TPS-5491	When an Overlay is exchanged between two ISS-S, the receiving ISS-S User should be able to make modifications to the received Overlay.	R	The Bidder should describe the Overlay functionality of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the receiving ISS-S allows the User to make modifications to the received Overlay when an Overlay is exchanged between two ISS-S.	56
288	TPS-5492	When an Overlay is exchanged between two ISS-S, the receiving ISS-S User should be able to make copies of the received Overlay.	R	The Bidder should describe the Overlay functionality of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the receiving ISS-S allows the User to make copies of the received Overlay when an Overlay is exchanged between two ISS-S.	56
289	TPS-361	Alarms and Alerts						
290	TPS-5479	The ISS-S should have an Alarms and Alerts capability that allows the ISS-S User to notify and be notified of the existence of conditions requiring different degrees of attention.	R	The Bidder should provide a list of all supported Warning and Caution signals and provide a description of their associated visual alert and audio alarm.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the ISS-S produces a visual alert and an audio alarm for each Warning and Caution signal specified in this document.	90
291	TPS-4922	Audio alarms for Warning and Caution signals should be readily distinguishable.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	90
292	TPS-3145	The ISS-S should not present more than seven	R	The Bidder should provide a			The proposal will be evaluated and scored as	83

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		different non-verbal audio signals to the user.		list of all supported non-verbal audible warning signals for their ISS-S.			indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description includes a list of all supported non-verbal audible warning signals and that there are no more than seven.	
293	TPS-5480	For every Warning signals, the ISS-S should provide the following characteristics and capabilities: <ul style="list-style-type: none">- The generation of an audio alarm;- The display of a distinct visual alert on the Tactical User Interface defining the respective Warning signal;- The Warning signal is not configurable by the ISS-S User; and- A self-test for training purpose.	R	The Bidder should provide a list of all supported Warning signals and provide a description of their associated visual alert and audio alarm and all associated capabilities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the ISS-S produces an distinct audio alarm when a Warning is received, a distinct visual alert on the Tactical User Interface defining the Warning signal, and a Warning self-test for training purposes.	69
294	TPS-5481	For every Caution signals, the ISS-S should provide the following characteristics and capabilities: <ul style="list-style-type: none">- The generation of an audio alarm;- The display of a distinct visual alert on the Tactical User Interface defining the respective Caution signal;- The Caution signal is configurable by the ISS-S User; and- A self-test for training purposes.	R	The Bidder should provide a list of all supported Caution signals and provide a description of their associated visual alert and audio alarm and all associated capabilities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the ISS-S produces an distinct audio alarm when a Caution is received, a distinct visual alert on the Tactical User Interface defining the Caution signal, and a Caution self-test for training purposes.	69
295	TPS-5482	For every Advisory signals, the ISS-S should provide the following characteristics and capabilities: <ul style="list-style-type: none">- The display of a distinct visual alert on the Tactical User Interface defining the respective Advisory signals;- The Advisory signal is configurable by the ISS-S User; and- A self-test for training purposes.	R	The Bidder should provide a list of all supported Advisory signals and provide a description of their associated visual alert and audio alarm and all associated capabilities.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the ISS-S produces a distinct visual alert on the Tactical User Interface defining the Advisory signal and a Warning self-test for training purposes.	69
296	TPS-3966	Emergency Alerts						

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1	2	3	4	5	6	7	8	9
297	TPS-3968	The ISS-S should have an Emergency Alert capability which allows the ISS-S User to generate the following Emergency Alerts: <ul style="list-style-type: none">• Imminent Air Attack,• Biological or Chemical attack,• Friendly nuclear strike,• All Clear.	R	The Bidder should describe the Emergency Alert capability of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. The description should prove that the Emergency Alert capability allows the ISS-S User to generate: <ul style="list-style-type: none">• Imminent Air Attack = 30% of the points.• Biological or Chemical Attack = 30% of the points.• Friendly Nuclear Strike = 10% of the points.• All Clear = 30% of the points.	18
298	TPS-4829	When receiving an Emergency Alert message, the ISS-S User should be notified by means of a Warning signal as described in TPS-5480.	R	The Bidder should provide a list of all supported Warning, Caution and Advisory signals and provide a description of their associated visual alert and audio alarm.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the ISS-S produces a Warning signal when receiving an Emergency Alert message. The Bidder should also provide a description of the Warning signal.	18
299	TPS-3969	When generating a Friendly nuclear strike Alert, the ISS-S User should have the option of inputting graphically: <ul style="list-style-type: none">• Location of the strike,• Date-time of the strike,• A circle centred on the entity indicating the Minimum safe distance One, as defined in STANAG 2104,• A circle centred on the entity indicating the Minimum safe distance Two, as defined in STANAG 2104.	R	The Bidder should describe the Emergency Alert capability of their ISS-S, including the generation of a Friendly Nuclear Strike Alert.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the ISS-S User has the option of inputting graphically:<ul style="list-style-type: none">- Location of the strike,- Date-time of the strike,- A circle centred on the entity indicating the Minimum Safe Distance One, as defined in STANAG 2104,- A circle centred on the entity indicating the Minimum Safe Distance Two, as defined in STANAG 2104.	18
300	TPS-3973	When generating a Friendly nuclear strike Alert, the ISS-S User should have the option of attaching text to the Alert.	R	The Bidder should describe the Emergency Alert capability of their ISS-S,			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:	18

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				including the generation of a Friendly Nuclear Strike Alert.			<ul style="list-style-type: none"> 100% of points if the Bidder's description proves that the ISS-S User has the option of attaching text to the Alert when generating a Friendly Nuclear Strike Alert. 	
301	TPS-3971	When generating a Biological or Chemical attack Alert, the ISS-S User should have the option of inputting graphically: <ul style="list-style-type: none"> The location of the entity, Date-Time of the attack, The contour of an area indicating the contaminated zone, The downwind direction. 	R	The Bidder should describe the Emergency Alert capability of their ISS-S, including the generation of a Biological or Chemical Attack Alert.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> 100% of points if the Bidder's description proves that the ISS-S User has the option of inputting graphically: <ul style="list-style-type: none"> The location of the entity, Date-Time of the attack, The contour of an area indicating the contaminated zone, The downwind direction. 	18
302	TPS-3974	When generating a Biological or Chemical attack Alert, the ISS-S User should have the option of attaching text to the Alert.	R	The Bidder should describe the Emergency Alert capability of their ISS-S, including the generation of a Biological or Chemical Attack Alert.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> 100% of points if the Bidder's description proves that the ISS-S User has the option of attaching text to the Alert when generating a Biological or Chemical Attack Alert. 	18
303	TPS-3970	The Imminent Air Attack Alert should consist of a structured message with the following fields: <ul style="list-style-type: none"> Date-time of enemy sighting, Location of observer, Direction of the enemy, Free text. 	R	The Bidder should describe the Emergency Alert capability of their ISS-S, including the generation of an Imminent Air Attack Alert.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> 100% of points if the Bidder's description proves that the Imminent Air Attack Alert consists of a structured message with the specified fields. 	18
304	TPS-3975	When the ISS-S User generates an Imminent Air Attack Alert, the Date-time of enemy sighting and location of observer fields should be automatically generated by the ISS-S.	R	The Bidder should describe the Emergency Alert capability of their ISS-S, including the generation of an Imminent Air Attack Alert.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> 100% of points if the Bidder's description proves that the Date-time of enemy sighting and location of observer fields are automatically generated by the ISS-S when generating an 	18

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1	2	3	4	5	6	7	8	9
							Imminent Air Attack Alert.	
305	TPS-3977	Generation of Emergency Alerts						
306	TPS-3978	The ISS-S should automatically generate an Alert Message upon creation of any Emergency Alert listed in TPS-3968.	R	The Bidder should describe the Emergency Alert capability of their ISS-S, including how the Emergency Alerts are generated.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the ISS-S automatically generates an Alert Message upon creation of the specified Emergency Alert.	15
307	TPS-3980	All Emergency Alert Messages should be broadcasted automatically to all nodes on the ISS-S Network and take precedence over any other data communications.	R	The Bidder should describe the Emergency Alert capability of their ISS-S, including how the Emergency Alerts are generated.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that all Emergency Alert Messages are broadcasted automatically to all nodes on the ISS-S Network.	15
308	TPS-3982	Reception of Emergency Alerts						
309	TPS-3983	When receiving an Emergency Alert Message, the ISS-S should generate a dedicated audio Alarm and visual Alert.	R	The Bidder should describe the Emergency Alert capability of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the ISS-S generates a dedicated Audio Alarm and Visual Alert when receiving an Emergency Alert Message. The Bidder should also provide a description of the audio Alarm and visual Alert.	17
310	TPS-3984	The ISS-S should not allow the ISS-S User to disable the audio alarm and visual alert associated with an Emergency Alert Message.	R	The Bidder should describe the Emergency Alert capability of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the ISS-S User cannot disable the Audio Alarm and Visual Alert associated with an Emergency Alert Message.	16
311	TPS-3987	Reception of an All clear Emergency Alert should remove all Visual Alerts and clear Audio	R	The Bidder should describe the Emergency Alert			The proposal will be evaluated and scored as indicated based on the description provided by	16

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		Alarms.		capability of their ISS-S.			the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that all Visual Alerts and Audio Alarms are removed when receiving an All Clear Emergency Alert.	
312	TPS-4835	Data Exchange Capabilities						
313	TPS-4117	The ISS-S should time-stamp every message being exchanged.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	202
314	TPS-4118	The ISS-S User should be able to display the message time-stamp.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	202
315	TPS-1890	Address Lists						
316	TPS-1891	The ISS-S should have an Address List functionality that provides a list of all ISS-S Users with their ORBAT positions.	R	The Bidder should describe the Address List functionality of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that an Address List functionality is present and that it provides a list of all the Users with their ORBAT positions.	61
317	TPS-1893	The Address List should include only the Nodes detected by the Presence service specified in TPS-2939.	R	The Bidder should describe the Address List functionality of their ISS-S, including how it detects which Nodes are connected to the ISS-S Network.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the list of all the ISS-S Users included in the Address List are only the ones detected by the Presence Service.	61
318	TPS-2943	The Address list should present the ORBAT Position of the detected nodes.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	61
319	TPS-2944	The Address list should group ORBAT positions by platoon, section and detachments.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	61
320	TPS-1894	When the ISS-S User sends a message, file or information other than Blue PA, the Address List functionality should allow him/her to select the individual Users or group of Users to whom the message is to be sent.	R	The Bidder should describe the Address List functionality of their ISS-S, including how it can be used to create a distribution list for any messages other			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the ISS-S User can select from the Address List a distribution list for any messages,	61

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				than Blue PA an ISS-S User wants to send.			files or information other than Blue PA, to whom the message is to be sent.	
321	TPS-2939	Presence service						
322	TPS-2940	The ISS-S should have a Presence Service that detects which nodes are reachable through the ISS-S network.	R	The Bidder should describe the Presence Service of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the ISS-S has a Presence Service that detects which nodes are reachable through the ISS-S network.	61
323	TPS-2941	The Presence Service should automatically update the list of connected nodes every two (2) minutes or faster.	R	The Bidder should describe the Presence Service of their ISS-S.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the Presence Service automatically updates the list of connected nodes every two (2) minutes or faster.	40
324	TPS-94	Audio Display						
325	TPS-4270	General Description						
326	TPS-5358	General						
327	TPS-4299	The ISS-S Audio Display must include: <ul style="list-style-type: none">• a Headset that includes two canalphones that emit the audio signal to the ear, microphone(s) that collect the User's voice signal and microphones to collect the sound from the environment;• a Noise Reduction System (NRS);• a Talk Through Circuit (TTC) to convey safe levels of environmental noise;• Control Circuitry to enable and control the audio signals between the radios and the Headset;• a Wired Push-To-Talk (PTT) to enable transmission of voice communications on two voice COIs (on one or two radios) sequentially;	M	The Bidder must describe the architecture of the ISS-S Audio Display.			The Bidder's proposal will be deemed compliant if each item specified in the requirement is identified and described.	

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328	TPS-5137	Using the ISS-S Audio Display and the ISS-S radio, the ISS-S User must be able to perform sequential voice transmissions to two voice COIs on the ISS-S radio.	M	The Bidder must describe how the ISS-S Audio Display can perform sequential voice transmissions on two voice COIs while using the ISS-S radio.			The Bidder's proposal will be deemed compliant if the description includes how sequential voice transmissions are supported on two voice COIs while using the ISS-S radio.	
329	TPS-3173	Using the ISS-S Audio Display and the ISS-S radio, the ISS-S User must be able to listen to two voice COIs simultaneously, with one net to each ear.	M	The Bidder must describe how the ISS-S Audio Display can be used by the User to listen to two voice COIs, a voice COI to each ear, while using the ISS-S radio.			The Bidder's proposal will be deemed compliant if the description proves that the User can listen to two voice COIs simultaneously, one voice COI to each ear, while using the ISS-S radio.	
330	TPS-3174	The ISS-S Audio Display should display the same or different information to the right and left ear based on ISS-S User preference.	R	The Bidder should describe how the user can configure the ISS-S Audio Display to be able to select which ear a voice net is displayed to.			The following configurations will be evaluated when using one radio, and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 40%: If the description proves that the ISS-S User is able to select which ear each radio net is displayed to; • 20%: If the description proves that the ISS-S User is able to display both voice nets to the left ear; • 20%: If the description proves that the ISS-S User is able to display both voice nets to the right ear; and • 20%: If the description proves the ISS-S User is able to display both voice nets simultaneously to both ears. 	423
331	TPS-4413	Headset and Canalphones						
332	TPS-5169	The canalphones must be replaceable and be available in the following two variations: 1) As universal canalphones; and 2) As custom canalphones.	M	The Bidder must describe how their ISS-S Audio Display solution can support universal canalphones and custom canalphones.			The Bidder's proposal will be deemed compliant if the description includes a data sheet or other similar document that proves that the ISS-S Audio Display supports and can be used with universal canalphones and custom canalphones.	
333	TPS-4340	Talk-Through Circuit (TTC)						

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334	TPS-4341	The TTC must allow the ambient sound to be transmitted to the wearer's ear when the ISS-S Audio Display mode selector switch is set to the Talk-Through Circuit mode.	M	The Bidder must describe how the ambient sound is presented to the User's ear and describe how the sound fidelity is preserved when the TTC function is enabled.			The Bidder's proposal will be deemed compliant if the description includes implementation details that prove how the ambient sound is presented to the User while fidelity is preserved.	
335	TPS-3163	The ISS-S Audio Display TTC should allow the ISS-S User to selectively enhance hearing by 3 dB.	R	The Bidder should describe how the hearing enhancement function is enabled and disabled, what technology is used to perform the hearing enhancement and how sound fidelity is preserved.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description includes implementation details that prove how enhanced hearing to up to 3dB is achieved while preserving sound fidelity.	423
336	TPS-4310	Noise Reduction System						
337	TPS-4998	In the 125Hz to 1kHz frequency range, the ISS-S Audio Display must provide at least 20dB of attenuation at the ear when the external environmental noise is at a level above 107dBA.	M	The Bidder must describe how the ISS-S Audio Display will provide at least 20dB of attenuation at the ear when the external environmental noise is at a level above 107dBA.			The Bidder's proposal will be deemed compliant if the description includes a test report or implementation details that prove that the ISS-S Audio Display provides at least 20dB of attenuation at the ear in the 125Hz to 1kHz frequency range.	
338	TPS-4999	In the 125Hz to 1kHz frequency range, the ISS-S Audio Display should provide more than 20dB of attenuation at the ear when the external environmental noise is at a level above 107dBA.	R	The Bidder should provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. The description should include the attenuation level provided at the ear by the ISS-S Audio Display in the 125Hz to 1kHz frequency range. The claimed attenuation level should be supported by a 3rd party test report to be eligible. The solution will be scored as follows: <ul style="list-style-type: none">• If the test report proves that the ISS-S Audio Display provides more than 20dB up to 25dB of attenuation at the User's ear = 20%• If the test report proves that the ISS-S Audio Display provides more than 25dB up to 30dB of attenuation at the User's ear = 50%	423

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							<ul style="list-style-type: none">If the test report proves that the ISS-S Audio Display provides more than 30dB of attenuation at the User's ear = 100%	
339	TPS-5000	In the 125Hz to 1kHz frequency range, the ISS-S Audio Display must keep the audio level at the ear below 87dBA when the environmental noise level is between 87dBA and 107dBA.	M	The Bidder must describe how the ISS-S Audio Display will keep the audio level to the ear below 87dBA when the environmental noise level is between 87dBA and 107dBA.	-	-	The Bidder's proposal will be deemed compliant if the description includes a test report or implementation details that prove that the ISS-S Audio Display keeps the audio level at the ear to below 87dBA when the environmental noise level is between 87dBA and 107dBA in the 125Hz to 1kHz frequency range.	
340	TPS-5001	In the 1kHz to 4kHz frequency range, the ISS-S Audio Display must provide at least 30dB of attenuation at the ear when the external environmental noise is at a level above 117dBA.	M	The Bidder must describe how the ISS-S Audio Display will provide at least 30dB of attenuation at the ear when the external environmental noise is at a level above 117dBA.			The Bidder's proposal will be deemed compliant if the description includes a test report or implementation details that prove that the ISS-S Audio Display provides at least 30dB of attenuation at the ear in the 1kHz to 4kHz frequency range.	
341	TPS-5002	In the 1kHz to 4kHz frequency range, the ISS-S Audio Display should provide more than 30dB of attenuation at the ear when the external environmental noise is at a level above 117dBA.	R	The Bidder should provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. The description should include the attenuation level provided at the ear by the ISS-S Audio Display in the 1kHz to 4kHz frequency range. The claimed attenuation level should be supported by a 3rd party test report to be eligible. The solution will be scored as follows: <ul style="list-style-type: none">If the test report proves that the ISS-S Audio Display provides more than 30dB up to 35dB of attenuation at the User's ear = 20%If the test report proves that the ISS-S Audio Display provides more than 35dB up to 40dB of attenuation at the User's ear = 50%If the test report proves that the ISS-S Audio Display provides more than 40dB of attenuation at the User's ear = 100%	423
342	TPS-5003	In the 1kHz to 4kHz frequency range, the ISS-S	M	The Bidder must describe	-	-	The Bidder's proposal will be deemed compliant	

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		Audio Display must keep the audio level at the ear below 87dBA when the environmental noise level is between 87dBA and 117dBA.		how the ISS-S Audio Display will keep the audio level to the ear below 87dBA when the environmental noise level is between 87dBA and 117dBA.			if the description includes a test report or implementation details that prove that the ISS-S Audio Display keeps the audio level at the ear to below 87dBA when the environmental noise level is between 87dBA and 117dBA in the 1kHz to 4kHz frequency range.	
343	TPS-5004	While the TTC is ON, the ISS-S Audio Display must not provide any attenuation when the environmental noise is at a level less than 80dBA.	M	The Bidder must describe how the ISS-S Audio Display meets the requirement.	-	-	The Bidder's proposal will be deemed compliant if the description includes a test report or implementation details that prove that when the TTC is ON the ISS-S Audio Display does not provide any attenuation when the environmental noise level is less than 80dBA.	
344	TPS-3161	The ISS-S Audio Display must provide protection from impulse noise above 140dB(C) peak.	M	The Bidder must describe how the ISS-S Audio Display meets the requirement.			The Bidder's proposal will be deemed compliant if the description includes a test report or implementation details that prove that the ISS-S Audio Display provides protection from impulse noise above 140dB(C) peak.	
345	TPS-5333	Human Systems Integration						
346	TPS-3156	When operating the ISS-CS and the ISS-S Audio Display, the end-to-end over-the-air speech intelligibility of the ISS-S must meet a minimum Modified Rhyme Test score of 91% (after correction for guessing factored in), when tested in accordance with section 3 - Speech Intelligibility, of Volume 2, Annex CB, Appendix 5 - Audio Display Test Procedure Requirements.	M	The Bidder must provide an analysis of how the equipment meets the requirement.	-	-	The Bidder's proposal will be deemed compliant if the analysis describes every component that participates in over-the-air voice communications and how the design minimizes distortion and any other effect that may reduce speech intelligibility.	
347	TPS-3157	The ISS-S User's ability to identify sounds while wearing an operational ISS-S Audio Display must not be reduced by more than five (5) percent compared to when not wearing an audio display. Sound identification must be tested in accordance with the test plan in section 5 - Sound Identification, of Volume 2, Annex CB, Appendix 5 - Audio Display Test Procedure Requirements.	M	The Bidder must provide an analysis of how the equipment meets the requirement.	-	-	The Bidder's proposal will be deemed compliant if the analysis describes every component that participates in providing and displaying ambient sounds to the ear and how the design minimizes distortion and any other effect that may reduce sound identification.	

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348	TPS-3158	The ISS-S User's ability to localize sound to within plus or minus 45 degrees in the horizontal plane while wearing an operational ISS-S Audio Display must not be reduced by more than fifteen (15) percent compared to when not wearing an audio display. Sound localization must be tested in accordance with the test plan in section 4—Sound Localization, of Volume 2, Annex CB, Appendix 5—Audio Display Test Procedure Requirements.	M	The Bidder must provide an analysis of how the equipment meets the requirement.	-	-	The Bidder's proposal will be deemed compliant if the analysis describes every component that participates in providing and displaying ambient sounds to the ear and how the design allows for sound localization to within plus or minus 45 degrees of accuracy in the horizontal plane.	
349	TPS-5027	Wireless Push-To-Talk (PTT) Switch						
350	TPS-4276	The ISS-S Audio Display should include a Wireless Push-To-Talk (PTT) to enable transmission of voice communications on two voice COIs (on one or two radios) sequentially, with the following considerations: <ul style="list-style-type: none">If the Wireless PTT battery can provide power lasting at least the 18 months cycle of the MISSION PROFILES AND OPERATIONAL MODE SUMMARY as per table 11 of Volume 2, Annex CB, Appendix 3, then the Wireless PTT battery is not considered a Power Domain.If the Wireless PTT battery can't provide power lasting at least the 18 months cycle of the MISSION PROFILES AND OPERATIONAL MODE SUMMARY as per table 11 of Volume 2, Annex CB, Appendix 3, an extra Power Domain has to be considered, however the requirements in section TPS-5443 ISS Batteries become less restrictive; it is acceptable that the ISS Batteries be either rechargeable “OR” non rechargeable.	R	The Bidder should describe the architecture of the ISS-S Audio Display.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">100% of the points will be given if the Bidder's description proves that a Wireless PTT is provided as per the requirement.	417
351	TPS-5028	The ISS-S Wireless PTT Switch should consist of a wireless PTT switch with a mounting system that allows it to be attached to the weapon.	R	The Bidder should describe the ISS-S Wireless PTT Switch mounting system.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:	100

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							<ul style="list-style-type: none"> 100% of the points will be given if the Bidder's description includes design details of the Wireless PTT Switch mounting system and proves that it can be attached to a weapon. 	
352	TPS-5031	Using an ISS-S radio and a LCSS GFE radio, the ISS-S Wireless PTT Switch should allow sequential voice transmission to two (2) voice COIs of different security domains, one voice COI per radio.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	108
353	TPS-96	Position Generation and Navigation						
354	TPS-4204	The ISS-S must be fitted with an integrated Global Positioning System receiver.	M	The Bidder must provide a detailed description of the Global Positioning System receiver components and the integration details into the ISS-S.			The Bidder's proposal will be deemed compliant if the description details the GPS make and model, specification, integration location, antenna type and in which physical device(s) it is integrated.	
355	TPS-582	The ISS-S must provide the bearing of the direction faced by the User in relation with the True North, while travelling and while standing still, with an accuracy of at least 5 degrees.	M	The Bidder must describe how bearing is calculated while travelling and while standing still. The Bidder must also describe how navigation sensor transition occurs if it does (GPS to Compass and vice-versa), describe the location of the bearing sensor, and describe the accuracy of the bearing sensors.			The Bidder's proposal will be deemed compliant if the description: <ul style="list-style-type: none"> Proves how navigation sensor transition occurs if it does (e.g. GPS to Compass and vice-versa); Describes the location of bearing sensor(s); Proves that the bearing provided is in relation to True North while travelling and while standing still; and Describes how 5 degrees of accuracy is achieved while travelling and while standing still. 	
356	TPS-2436	The ISS-S should provide the bearing of the direction faced by the User in relation with the True North, while travelling and while standing still, with an accuracy of better than 5 degrees.	R	The Bidder should describe how bearing is calculated while travelling and while standing still. The Bidder should also describe how navigation sensor transition occurs if it does (GPS to Compass and vice-versa),			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> If the description proves that the accuracy of the bearing is greater than 3 degrees and less than or equal 5 degrees = 40% of points. If the description proves that the accuracy of the bearing is greater than 1 degrees and less 	404

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				describe the location of the bearing sensor, and describe the accuracy of the bearing sensors.			than or equal 3 degrees = 80% of points. • If the description proves that the accuracy of the bearing is lower than or equal 1 degree = 100% of points.	
357	TPS-4210	GPS Receiver Performance						
358	TPS-4212	The ISS-S integrated GPS receiver must have a minimum position accuracy of 13m horizontal with 95% confidence in unobstructed terrain.	M	The Bidder must describe how the proposed ISS-S will meet this requirement by providing a specification sheet and comparative assessment based on similar components.			The Bidder's proposal will be deemed compliant if the description includes a specification sheet and comparative assessment based on similar components that proves that the horizontal position accuracy meets or exceeds the required horizontal minimum position accuracy.	
359	TPS-4213	The ISS-S integrated GPS receiver should have a minimum position accuracy of 22m vertical with 95% confidence in unobstructed terrain.	R	The Bidder should describe how the proposed ISS-S will meet this requirement by providing a specification sheet and comparative assessment based on similar components.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of the points will be given if the Bidder's description includes a specification sheet and comparative assessment based on similar components that proves that the vertical position accuracy meets or exceeds the requested vertical minimum position accuracy.	430
360	TPS-4217	The ISS-S integrated GPS receiver must not exceed the following Time To First Fix in unobstructed terrain: • 60 seconds for a Warm Start; • 5 second for a Hot Start.	M	The Bidder must confirm that he meets this requirement by providing specification sheet and comparative assessment based on similar components.			The Bidder's proposal will be deemed compliant if the description includes a specification sheet and comparative assessment based on similar components that proves that the Time To First Fix in unobstructed terrain meets or exceeds the required Time To First Fix in unobstructed terrain for both Warm Start and Hot Start.	
361	TPS-4223	Military GPS						
362	TPS-5214	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM); or • Interfacing with a CF in-service DAGR.	M	The Bidder must provide a detailed description of the military GPS mode their proposed ISS-S will include. The description must include design			The Bidder's proposal will be deemed compliant if the description clearly indicates if military GPS mode will be provided via integrating a SAASM-based military grade GPS receiver or via interfacing with the CF in-service DAGR.	

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				characteristics and interfaces that will allow the ISS-S to meet this requirement. The solution must include one of the following 2 solutions: - ISS-S has an integrated SAASM receiver; or - ISS-S has an interface to the CF in-service DAGR.				
363	TPS-5215	To operate in military GPS mode, the ISS-S should have an integrated military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM).	R	The Bidder should provide a detailed description of the integrated military grade GPS. The description should include design characteristics and interfaces that will allow the ISS-S to meet this requirement.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of the points will be given if the Bidder's description proves that the ISS-S includes an integrated military grade GPS receiver capability based on a Selective Availability / Anti-Spoofing Module and provides the GPS make and model, specification, integration location, antenna type and in which physical device(s) it is integrated.	1270
364	TPS-5427	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM); or • Interfacing with a CF in-service DAGR by physically connecting the CF in-service DAGR to the ISS-S, meeting the CF in-service DAGR interface specifications, and operating the CF in-service DAGR.	M	If an integrated military grade GPS receiver is provided, the Bidder must provide a confirmation that an integrated military grade GPS receiver is provided. If an interface with the CF in-service DAGR is provided, the Bidder must describe how the ISS-S will physically connect to the CF in-service DAGR.			If an integrated military grade GPS receiver is provided, the Bidder's description must indicate that an integrated military GPS receiver is provided. If an interface with the CF in-service DAGR is provided, the description must detail the design characteristics of the solution and the interfaces involved to allow the CF in-service DAGR to provide position information to the ISS-S.	
365	TPS-4226	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based	M	If an integrated military grade GPS receiver is provided, the Bidder must			If an integrated military grade GPS receiver is provided, the Bidder's proposal will be deemed compliant if the description includes a	

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		on a Selective Availability / Anti-Spoofing Module (SAASM) which has a minimum position accuracy of 10.5m horizontal radial error with 95% confidence, in unobstructed terrain; or <ul style="list-style-type: none">• Interfacing with a CF in-service DAGR.		describe how the proposed ISS-S will meet this requirement by providing a specification sheet and comparative assessment based on similar components. If an interface with the CF in-service DAGR is provided, the Bidder must provide a confirmation that an interface to the CF in-service DAGR is provided.			specification sheet and comparative assessment based on similar components that proves that the horizontal position accuracy meets or exceeds the required horizontal minimum position accuracy. If an interface with the CF in-service DAGR is provided, the Bidder's description must indicate that an interface to the CF in-service DAGR is provided.	
366	TPS-5413	The ISS-S must operate in military GPS mode by either:<ul style="list-style-type: none">• Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which has a minimum position accuracy of 19.1m vertical error with 95% confidence, in unobstructed terrain; or• Interfacing with a CF in-service DAGR.	M	If an integrated military grade GPS receiver is provided, the Bidder must describe how the proposed ISS-S will meet this requirement by providing a specification sheet and comparative assessment based on similar components. If an interface with the CF in-service DAGR is provided, the Bidder must provide a confirmation that an interface to the CF in-service DAGR is provided.	-	-	If an integrated military grade GPS receiver is provided, the Bidder's proposal will be deemed compliant if the description includes a specification sheet and comparative assessment based on similar components that proves that the vertical position accuracy meets or exceeds the required vertical minimum position accuracy. If an interface with the CF in-service DAGR is provided, the Bidder's description must indicate that an interface to the CF in-service DAGR is provided.	
367	TPS-4230	The ISS-S should operate in military GPS mode by either: <ul style="list-style-type: none">• Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which provides the Estimated	R	If an integrated military grade GPS receiver is provided, the Bidder should provide a description of how the proposed ISS-S will			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if an integrated military grade GPS receiver is provided and the	220

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		Horizontal Error (EHE) every 10 seconds to the BMS; or <ul style="list-style-type: none">• Interfacing with a CF in-service DAGR.		provide EHE message to the soldier through the BMS and display. If an interface with the CF in-service DAGR is provided, the Bidder should provide a confirmation that an interface to the CF in-service DAGR is provided.			Bidder's description proves that military grade GPS receiver provides EHE message to the User through the BMS and display; <ul style="list-style-type: none">• 100% of the points will be given if an interface with the CF in-service DAGR is provided and the Bidder's description proves that the CF in-service DAGR provides EHE message to the User through the BMS and display.	
368	TPS-4232	When operating in military GPS mode, the ISS-S must process the Military grade GPS information in priority over any other GPS device within the ISS-S.	M	The Bidder must provide a description of the prioritization process given to the military GPS mode when there are one or more other functioning GPSs on the ISS-S.			The Bidder's proposal will be deemed compliant if the description includes details of how the prioritization process works when more than one GPS is connected and operational on the ISS-S. The description must prove that when operating in military GPS mode, the military grade GPS position information is used in priority to any other GPS device within the ISS-S.	
369	TPS-4233	The ISS-S must operate in military GPS mode by either: <ul style="list-style-type: none">• Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which allows the User to load Military GPS cryptographic keys and confirm keyed state; or• Interfacing with a CF in-service DAGR.	M	If an integrated military grade GPS receiver is provided, the Bidder must provide a description on the implementation of the interface for performing key loading function using standard key loaders (KYK13, DTD, etc) for GPS key material. If an interface with the CF in-service DAGR is provided, the Bidder must provide a confirmation that an interface to the CF in-service DAGR is provided.			If an integrated military grade GPS receiver is provided, the Bidder's proposal will be deemed compliant if the description includes implementation details of the interface for performing key loading function using standard key loaders (KYK13, DTD, etc) for GPS key material. The bidder must also describe how the user will determine that its military GPS receiver is in a keyed state. If an interface with the CF in-service DAGR is provided, the Bidder's description must indicate that an interface to the CF in-service DAGR is provided.	
370	TPS-4234	The ISS-S should operate in military GPS mode	R	If an integrated military			The proposal will be evaluated and scored as	203

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		by either: <ul style="list-style-type: none">Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which performs direct P(Y)-Code Acquisition while meeting the Time To First Fix requirement of TPS-4217; orInterfacing with a CF in-service DAGR.		grade GPS receiver is provided, the Bidder should describe how the GPS performs direct P(Y)-Code Acquisition, and provide a description of how the Time To First Fix of requirement TPS-4217 is met while performing direct P(Y)-Code Acquisition. If an interface with the CF in-service DAGR is provided, the Bidder should provide a confirmation that an interface to the CF in-service DAGR is provided.			indicated based on the description provided by the Bidder: <ul style="list-style-type: none">100% of the points will be given if an integrated military grade GPS receiver is provided and the Bidder's description proves that the GPS performs direct P(Y)-Code Acquisition, and proves that the Time To First Fix of requirement TPS-4217 is met while performing direct P(Y)-Code Acquisition;100% of the points will be given if an interface with the CF in-service DAGR is provided and the Bidder's description indicates that an interface to the CF in-service DAGR is provided.	
371	TPS-97	Communication						
372	TPS-795	General						
373	TPS-796	The ISS-CS must provide a communications function, device or set of devices that allows the ISS-S User to send and receive digital voice and data concurrently within any allocated COI.	M	The Bidder must provide a detailed description of the ISS-CS functional implementation of voice and data services. The description must show that digital voice and data can be received and transmitted concurrently. These services must be capable of being used within any COI allocated by the system or a system manager.	-	-	The Bidder's proposal will be deemed compliant if the description proves that digital voice and data can be received and transmitted concurrently. These services must be capable of being used within any COI allocated by the system or a system manager.	
374	TPS-800	The ISS-CS must provide an operational communication system for voice and data communications between dismounted soldiers at section and platoon for company level	M	The Bidder must provide a detailed description of voice and data behaviour when being exchanged between			The Bidder's proposal will be deemed compliant if the description and supporting analysis proves the voice and data behaviour when exchanged between dismounted soldiers at section and	

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		operations.		dismounted soldiers at section and platoon levels, including voice and data being exchanged between section and platoon levels. The Bidder must provide an analysis of how their ISS-S solution meets the requirement.			platoon levels, including voice and data being exchanged between section and platoon levels.	
375	TPS-4254	The ISS-S must provide concurrent communication services for a forty-five (45) soldier organization (i.e., platoon with company assets), operationally dispersed over a circular area with two thousand (2000) metre diameter, where the following services are concurrently in use: <ul style="list-style-type: none">• Four (4) concurrent section voice exchanges;• Blue PA exchanges between all stations within ten (10) seconds; and• Data distribution of a twenty (20) kilobyte message from a sender to all stations of a data COI within thirty (30) seconds; While using the following COI configuration: <ul style="list-style-type: none">• Four (4) concurrent section voice exchanges (eight (8) nodes per section voice COI);• One (1) concurrent platoon, with company assets, voice exchange (twenty-one (21) nodes per platoon-cmd voice COI);• One (1) concurrent platoon-wide Blue PA exchange (forty-five (45) nodes per platoon-wide Blue PA COI);• Four (4) concurrent section data exchanges (eight (8) nodes per section data COI); and• One (1) concurrent platoon, with company	M	The Bidder must provide a detailed description of concurrent communications services behaviour for the service sets listed in the requirement. The Bidder must describe how voice exchanges, Blue PA exchanges and large data transfers will be exchanged concurrently at the required scale. Analysis: The Bidder must provide an analysis of how their ISS-S solution meets the requirement at the required scale.			The Bidder's proposal will be deemed compliant if the description and supporting analysis proves how voice exchanges, Blue PA exchanges and large data transfers will be exchanged concurrently at the required scale and area.	

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		assets, data exchange (twenty-one (21) nodes per platoon-cmd data COI).						
376	TPS-5158	The ISS-S should provide concurrent communication services for a forty-five (45) soldier organization (i.e., platoon with company assets), operationally dispersed over a circular area with two thousand (2000) metre diameter, including four (4) concurrent section voice exchanges where three (3) voice COIs automatically utilize any separate dynamically allocated ISS-CS node as a relaying station, using the following COI configuration: <ul style="list-style-type: none">• Four (4) concurrent section voice exchanges (eight (8) nodes per section voice COI);• One (1) concurrent platoon, with company assets, voice exchange (twenty-one (21) nodes per platoon-cmd voice COI);• One (1) concurrent platoon-wide Blue PA exchange (forty-five (45) nodes per platoon-wide Blue PA COI);• Four (4) concurrent section data exchanges (eight (8) nodes per section data COI); and• One (1) concurrent platoon, with company assets, data exchange (twenty-one (21) nodes per platoon-cmd data COI).	R	The Bidder should provide a detailed description of the ISS-S functional implementation of voice services when operating voice COIs concurrently including 3 voice COIs using dynamically allocated relays. Points are awarded to vendors that can provide this technically challenging requirement without operator intervention. Analysis: The Bidder should provide an analysis of how their ISS-S solution meets the requirement.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description and supporting analysis proves the ISS-S functional implementation of voice services when operating voice COIs concurrently including 3 voice COIs using dynamically allocated relays. The description and supporting analysis should show how that this requirement will be met without operator intervention, and at the required scale and area.	768
377	TPS-5159	The ISS-S should provide concurrent communication services for a forty-five (45) soldier organization (i.e., platoon with company assets), operationally dispersed over a circular area with two thousand (2000) metre diameter, for Blue PA exchanges between all stations within ten (10) seconds where a minimum of three (3) ISS-CS nodes as dynamically allocated relaying stations are utilized, using the following COI configuration: <ul style="list-style-type: none">• Four (4) concurrent section voice exchanges	R	The Bidder should provide a detailed description of the ISS-S functional implementation of Blue PA services between 45 ISS-S nodes within 10 seconds, including the use of 3 dynamically allocated relaying ISS-S nodes. Analysis:			The Bidder's proposal will be deemed compliant if the description and supporting analysis proves the ISS-S functional implementation of Blue PA services between 45 ISS-S nodes operating in the required area, within 10 seconds, including the use of 3 dynamically allocated relaying ISS-S nodes.	768

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		(eight (8) nodes per section voice COI); • One (1) concurrent platoon, with company assets, voice exchange (twenty-one (21) nodes per platoon-cmd voice COI); • One (1) concurrent platoon-wide Blue PA exchange (forty-five (45) nodes per platoon-wide Blue PA COI); • Four (4) concurrent section data exchanges (eight (8) nodes per section data COI); and • One (1) concurrent platoon, with company assets, data exchange (twenty-one (21) nodes per platoon-cmd data COI).		The Bidder should provide an analysis of how their ISS-S solution meets the requirement.				
378	TPS-5160	The ISS-S should provide concurrent communication services for a forty-five (45) soldier organization (i.e., platoon with company assets), operationally dispersed over a circular area with two thousand (2000) metre diameter, for data distribution of a twenty (20) kilobyte message from a sender to all stations within thirty (30) seconds where a minimum of three (3) ISS-CS nodes as dynamically allocated relaying stations are utilized, using the following COI configuration: • Four (4) concurrent section voice exchanges (eight (8) nodes per section voice COI); • One (1) concurrent platoon, with company assets, voice exchange (twenty-one (21) nodes per platoon-cmd voice COI); • One (1) concurrent platoon-wide Blue PA exchange (forty-five (45) nodes per platoon-wide Blue PA COI); • Four (4) concurrent section data exchanges (eight (8) nodes per section data COI); and • One (1) concurrent platoon, with company assets, data exchange (twenty-one (21) nodes per platoon-cmd data COI).	R	The Bidder should provide a detailed description of the ISS-S functional implementation of message services between 45 ISS-S nodes within 30 seconds, including the use of 3 dynamically allocated relaying ISS-S nodes. Analysis: The Bidder should provide an analysis of how their ISS-S solution meets the requirement.			The Bidder's proposal will be deemed compliant if the description and supporting analysis proves the ISS-S functional implementation of message services between 45 ISS-S nodes operating in the required area, within 30 seconds, including the use of 3 dynamically allocated relaying ISS-S nodes.	768

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379	TPS-244	Capacity						
380	TPS-1622	The ISS-S communications network must support a minimum of five (5) concurrent, non-overlapping voice COIs located within a circular area with two hundred (200) metre diameter for dismounted close combat operations.	M	The Bidder must provide a detailed description of how the ISS-S can be used to provide multiple concurrent, non-overlapping networks within two hundred (200) metre diameter. The Bidder must provide the channelization plan to meet this requirement. Analysis: The Bidder must provide an analysis of how their ISS-S solution meets the requirement.	-	-	The Bidder's proposal will be deemed compliant if the description and supporting analysis proves how the ISS-S can be used to provide five (5) concurrent, non-overlapping networks within two hundred (200) metre diameter. The Bidder must provide the channelization plan.	
381	TPS-4261	The ISS-CS must perform network synchronization and meet the functional and performance requirements defined in this specification in a GPS-denied environment.	M	The Bidder must provide a detailed description of the ISS-S network synchronization in a GPS-denied environment. The Bidder must describe how the system adapts to changes in the availability of GPS as a time source. Analysis: The Bidder must provide an analysis of how their ISS-S solution meets the requirement.			The Bidder's proposal will be deemed compliant if the description and supporting analysis proves how the ISS-S network performs synchronization in a GPS-denied environment. The Bidder must describe how the system adapts to changes in the availability of GPS as a time source.	
382	TPS-245	Mobility and Movement						
383	TPS-833	Once set up with its initial data fill, the ISS-S communications network must adapt (i.e. no manual interaction for data services) to support	M	The Bidder must provide a detailed description of how their communications			The Bidder's proposal will be deemed compliant if the description and supporting analysis proves how the proposed ISS-S communications	

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		connectivity changes due to mobility, topology, or attrition while maintaining reachability between ISS-S nodes, without requiring human intervention.		network maintains reachability between ISS-S nodes when ISS-CS devices move, change topology or are lost to attrition. Analysis: The Bidder must provide an analysis of how their ISS-S solution meets the requirement.			network maintains reachability between ISS-S nodes when ISS-CS devices move, change topology or are lost to attrition, without requiring human intervention.	
384	TPS-1623	When groups of ISS-S nodes move within radio range of one or more other ISS-S nodes, the ISS-CS must provide voice service with no more than one (1) voice service interruption longer than two hundred and fifty (250) milliseconds over a one (1) hour period when there is no change in voice relays while data is being exchanged on the network.	M	The Bidder must provide a detailed description of how their relay capability functions. The description must include what criteria the network uses to dynamically change relaying devices and what criteria a service uses to dynamically use a different relaying device. The Bidder must describe how large file transfers performed while ISS-S nodes are moving will not affect the voice services that are in use simultaneously.	-	-	The Bidder's proposal will be deemed compliant if the description and supporting analysis proves how the proposed ISS-S communications network maintains reachability between ISS-S nodes when ISS-CS devices move, change topology or are lost to attrition, but there are no changes in voice relays. The description and supporting analysis must prove that if any voice service interruption occurs, there will not be more than one (1) voice service interruption over a one (1) hour period and the voice service interruption will be for less than two hundred and fifty (250) milliseconds.	
385	TPS-2635	When groups of ISS-S nodes move within radio range of one or more other ISS-S nodes, the ISS-CS must provide Blue PA service with the loss of no more than two (2) sequential Blue PA messages per minute per user.	M	The Bidder must provide a detailed description of the ISS-S Blue PA behaviour when groups of ISS-S nodes come into radio	-	-	The Bidder's proposal will be deemed compliant if the description and supporting analysis proves the ISS-S Blue PA behaviour when groups of ISS-S nodes come into radio range of each other, and proves that the Blue PA service will	

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				range of each other. Analysis: The Bidder must provide an analysis of how their ISS-S solution meets the requirement.			not lose more than two (2) sequential messages per minute per User.	
386	TPS-242	Operational Modes						
387	TPS-804	Any group of ISS-CS, once loaded with an initial configuration fill, should establish a dismantled peer network without human intervention as the standard operating mode.	R	The Bidder should provide an analysis of how the network starts and standard operating mode is achieved in the specified condition.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of the points will be given if the Bidder's analysis proves that a group of configured ISS-S nodes can be powered-up and establish a network without requiring human intervention.	576
388	TPS-803	Once a dismantled peer network has been established, the ISS-CS, loaded with its persistent configuration fill, should provide voice and data services without operator intervention other than applying power to the device.	R	The Bidder should provide an analysis of how the rated device starts and joins to an existing dismantled peer network is achieved in the specified condition.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of the points will be given if the Bidder's analysis proves that a group of configured ISS-S nodes can be powered-up and establish pre-configured voice services, Blue PA services and data services without requiring human intervention.	192
389	TPS-2623	Once a dismantled peer network has been established, the ISS-S must exchange Blue PA messages within ninety (90) seconds of applying power to the ISS-CS.	M	The Bidder must provide a detailed description of how their device start-up functions. The Bidder must provide an analysis of how their ISS-S solution meets the requirement.			The Bidder's proposal will be deemed compliant if the description and supporting analysis proves that a pre-configured ISS-CS, within communication range of a group of operating ISS-S nodes, can allow the User to exchange Blue PA messages with the group of operating ISS-S nodes within ninety (90) seconds of being powered-on. The description and supporting analysis must include the sequencing of internal device events (e.g. power-on self test, operating system start, establishment of network link, discovery of neighbours, availability of Blue PA	

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							service, etc).	
390	TPS-246	User Services						
391	TPS-247	Voice						
392	TPS-5359	General						
393	TPS-836	Voice speech inputs and outputs for soldiers must be provided through the ISS-S Audio Display connected to the ISS-CS. The ISS-S Audio Display is defined in TPS-94.	M	The Bidder must provide a detailed description of voice behaviour for the Audio Display and ISS-CS.	-	-	The Bidder's proposal will be deemed compliant if the description proves that all voice speech inputs and outputs are provided through the ISS-S Audio Display while it is connected to the ISS-CS. The description must also describe how the User must operate the ISS-Audio Display and the ISS-CS to achieve voice communications.	
394	TPS-2638	The ISS-CS must provide individual, user-selectable voice COIs for voice exchanges (i.e. listen/speak) between COI members, where the User can enable two (2) voice COIs from at least five (5) programmed voice COIs.	M	The Bidder must provide a detailed description of how their voice COI capability functions. The description must include what criteria the system uses to identify individual voice COIs, how the user is able to enable individual voice COIs and how user is able to differentiate between voice COIs for listening and speaking.			The Bidder's proposal will be deemed compliant if the description proves that the ISS-S User has the ability to enable two (2) voice COIs out of at least five (5) programmed voice COIs. The User process to enable the voice COIs and how the User can differentiate between the two (2) enabled voice COIs must be part of the description.	
395	TPS-249	Voice Service						
396	TPS-837	In the normal configuration, the ISS-S must provide voice service to enable the individual soldier to communicate vocally through the ISS-CS radio while all physical devices that are a part of the ISS-S are operational and worn by the User.	M	The Bidder must provide a detailed description of how their voice service functions.	-	-	The Bidder's proposal will be deemed compliant if the description proves that voice services can be established between voice COI members while the system is configured with the complete ISS-S, where all physical devices that are part of the ISS-S are operational and worn by the User.	
397	TPS-5477	In the simple configuration, the ISS-S must provide voice service to enable the individual soldier to communicate vocally through the ISS-CS radio while only the physical devices hosting	M	The Bidder must provide a detailed description of how their voice service functions in the simple configuration.			The Bidder's proposal will be deemed compliant if the description proves that a simple configuration can be used to perform voice communications, where only the physical	

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		the ISS-CS, the ISS-S Audio Display, and the ISS battery(ies) required to power those physical devices are operational and worn by the User while meeting the following requirements: <ul style="list-style-type: none">• TPS-4112, 1816, 4930, 5376, 5377 and 5378 (Configuration)• All mandatory requirements in section TPS-939 (Functional Security - Data In Transit)• All mandatory requirements in section TPS-988 (Functional Security - EMCON) with the exception of TPS-2678• All mandatory requirements in section TPS-4266 (Functional Security - EMSEC)• All mandatory requirements in section TPS-5443 (Power and Data Infrastructure - Power Sources - ISS Batteries)• All mandatory requirements in section TPS-5446 (Power and Data Infrastructure - Power Sources - ISS-ES Internal Batteries)• TPS-5452 (Power and Data Infrastructure - Power Sources - Power Monitoring)• TPS-3909 and 2120 (Communication - Communications Coverage - Relay)• All mandatory requirements in section TPS-271 (Communication - Radio)		The Bidder must also provide an analysis that includes a normal versus simple configuration comparison using ISS-S architecture details showing that if the TPS requirements identified in this requirement are met using the normal configuration they will also be met when using the simple configuration.			devices hosting the ISS-CS, the ISS-S Audio Display and the ISS battery(ies) required to power those physical devices are operational and worn by the User. Furthermore, the analysis must prove that the TPS requirements identified in this requirement will be met when using the simple configuration.	
398	TPS-840	The ISS CS voice service must be activated by a soldier pressing the ISS S Audio Display's PTT switch, as defined in TPS-94.	M	The Bidder must provide a detailed description of how their voice service activation capability functions. The description must include what criteria the system uses to identify when a voice COI can be used (e.g. voice arbitration) when the soldier presses the PTT switch. The description	-	-	The Bidder's proposal will be deemed compliant if the description proves that the ISS S User can use the PTT switch to activate one (1) of the two (2) enabled voice COIs. The description must include how the ISS-S determines that a voice COI can be used by the User. This description must be provided for all PTT switches provided in the proposal.	

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				must address all PTT switches provided in the system.				
399	TPS-5461	The ISS-S must mutually exchange voice messages between ten (10) ISS-S within sixty (60) seconds from power-on of all ISS-S devices.	M	The Bidder must provide a detailed description of how their ISS-S voice network functions when powered-on when ten (10) ISS-S nodes are powered-on simultaneously. The description must describe how the voice network is formed within the allotted time in the requirement.			The Bidder's proposal will be deemed compliant if the description proves that ten (10) pre-configured ISS-S can allow the User to establish voice communications between each-other within sixty (60) seconds of being powered-on. The description must include the sequencing of internal device events (e.g. power-on self test, operating system start, establishment of network link, discovery of neighbours, availability of voice service, etc).	
400	TPS-250	Voice Communities of Interest						
401	TPS-847	The ISS-CS must present and make available to the User five (5) or more programmed voice COIs, where the User can enable at least two (2) of the programmed voice COIs and assign them to available PTT switches and controls.	M	The Bidder must provide a detailed description of how voice COIs are enabled and assigned to all available PTT switches and controls.	-	-	The Bidder's proposal will be deemed compliant if the description proves that at least five (5) voice COIs can be programmed, that the User can enable at least two (2) voice COIs out of the programmed voice COIs and assign them to PTT switches. The description must include what criteria the system uses to enable and select available voice COIs and what criteria are used to assign voice COIs to available PTT switches and controls. The Bidder must describe the sequence of operator activities required to enable and assign a programmed voice COI to a PTT switch.	
402	TPS-2641	The voice service should cause a speaker to time out when a voice transmission switch remains in the active position for longer than ninety (90) seconds on any voice COI or provide other mechanisms to allow remaining members of a voice COI to continue using the voice COI.	R	The Bidder should provide a detailed description of how their ISS-S voice service functions when a voice transmission switch (PTT) is depressed for longer than ninety (90) seconds. The description should include			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the proposed ISS-S relinquishes transmission when the voice transmission switch (PTT) is depressed for longer than ninety (90) seconds. The description	380

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				what criteria the voice service uses to dynamically allow other ISS-S to be used to assume the speaker role.			should include what criteria the voice service uses to dynamically allow other ISS-S to be used to assume the speaker role.	
403	TPS-253	Voice Encoding						
404	TPS-2133	If voice codecs other than STANAG 4591 are proposed, the base data stream should be less than or equal to sixteen (16) kilobits per second for each voice channel.	R	The Bidder should provide a detailed description that clearly defines the relevant characteristics of the base data stream and codec.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the ISS-CS voice codec uses a base data stream of 16kbps or less. If the voice codec is not a voice codec included in STANAG 4591, the description should include the codec specifications, containing information including but not limited to the codec type, the base data stream bandwidth and the algorithm used.	380
405	TPS-255	Data						
406	TPS-256	Data Exchange						
407	TPS-859	The ISS-S communications network must provide end-to-end data distribution between instances of the Battle Management System.	M	The Bidder must provide a detailed description of how their ISS-S communications network provides communications between the Battle Management System of multiple ISS-S nodes.			The Bidder's proposal will be deemed compliant if the description proves that the Battle Management System running on multiple ISS-S nodes can exchange data via the ISS-S communications network.	
408	TPS-258	Delivery to Communities of Interest						
409	TPS-861	The ISS-S communications network must distribute data and voice to all network-reachable ISS-S nodes subscribed to a defined COI.	M	The Bidder must provide a detailed description of how their ISS-S communications network provides distribution of voice and data to network-reachable			The Bidder's proposal will be deemed compliant if the description includes details on how the ISS-S communications network provides distribution of voice and data to network-reachable ISS-S nodes. The description must include what criteria the network uses to identify	

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				ISS-S nodes.			subscribers to defined COIs and to ensure distribution to all network-reachable subscribers.	
410	TPS-862	Data exchanges sent from an ISS-S to a Community of Interest must be distributed to all Community of Interest instances (one-to-many transfer).	M	The Bidder must provide a detailed description of how their ISS-S solution provides distribution of data to all COI instances.			The Bidder's proposal will be deemed compliant if the description includes details on how an ISS-S distributes data to all COI subscribers. The description must include what criteria the network uses to ensure delivery to all COI instances, including through intermediate ISS-S which may not be COI subscribers.	
411	TPS-864	The ISS-S must permit users to select Communities of Interest for data exchange.	M	The Bidder must provide a detailed description of how their ISS-S solution permits soldiers to select COIs for receipt or distribution of data.			The Bidder's proposal will be deemed compliant if the description describes how a User can select a COI for the reception and distribution of data. The description must include what criteria the ISS-S uses to include or exclude COI membership.	
412	TPS-259	Data Transfer Modes						
413	TPS-865	The ISS-CS must exchange Internet Protocol packets with the BMS Computer, if the ISS-CS and BMS functions are hosted in different physical devices.	M	If the ISS-CS and BMS functions are hosted in different physical devices, the Bidder must provide a detailed description of how their ISS-S solution provides for the exchange of Internet Protocol packets between the ISS-CS and the BMS. If the ISS-CS and BMS functions are hosted in the same physical device, the Bidder must describe how the ISS-CS and the BMS functions communicate.	-	-	If the ISS-CS and BMS functions are hosted in different physical devices, the Bidder's proposal will be deemed compliant if the description proves that IP is used as the data exchange mechanism between the ISS-CS and the BMS. If the ISS-CS and BMS functions are hosted in the same physical device, the Bidder's proposal will be deemed compliant if the description describes the mechanisms used to allow the ISS-CS and the BMS functions to communicate.	
414	TPS-263	Grade of Service						
415	TPS-5360	General						

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416	TPS-876	The ISS-CS must provide resource reservation or prioritization mechanisms within the ISS communications network for low latency services (e.g., voice, Blue PA).	M	The Bidder must provide a detailed description of how their ISS-S solution functions for low-latency services.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the proposed ISS-S provides a communications network with resource reservation or prioritization mechanisms.	
417	TPS-2138	Voice						
418	TPS-2139	The ISS-S voice service must provide end-to-end voice service between two ISS-CS nodes, with one (1) intervening ISS-CS relay node, having a maximum end-to-end one-way voice delay of less than four hundred (400) milliseconds.	M	The Bidder must provide a detailed description of how their ISS-S solution functions to provide end-to-end voice delay within the required limit.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the proposed ISS-S provides end-to-end voice service between two ISS-CS nodes, with one (1) intervening ISS-CS relay node, with a maximum end-to-end one-way voice delay of less than four hundred (400) milliseconds.	
419	TPS-4068	The ISS-S voice service should provide end-to-end voice service between two ISS-CS nodes, with one (1) intervening ISS-CS relay nodes, having a maximum end-to-end one-way voice delay of less than two hundred (200) milliseconds.	R	The Bidder should provide a detailed description of how their ISS-S solution functions to provide end-to-end voice delay within the required limit.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the proposed ISS-S provides end-to-end voice service between two ISS-CS nodes, with one (1) intervening ISS-CS relay node, with a maximum end-to-end one-way voice delay of less than two hundred (200) milliseconds.	194
420	TPS-2142	Blue PA						
421	TPS-2143	The Blue PA service must have a maximum end-to-end one-way delay of less than four (4) seconds between ten (10) ISS-S nodes in the same Blue PA COI and operating within two hundred and fifty (250) metres in open and complex terrain under a network loading consistent with a section. NOTE: A position transmitted by any node will be received by the other nine (9) nodes within four (4) seconds.	M	The Bidder must provide a description of the Blue PA service, including the maximum end-to-end one-way delay in open and complex terrain at the given distance and COI size.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the proposed ISS-S provides end-to-end one-way delay of less than four (4) seconds between ten (10) ISS-S nodes in the same Blue PA COI and operating within two hundred and fifty (250) metres diameter. The description must prove that the position transmitted by any node will be received by the other nine (9) nodes within four (4) seconds.	
422	TPS-2642	The Blue PA service must have a maximum end-	M	The Bidder must provide a			The Bidder's proposal will be deemed compliant	

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		to-end one-way delay of less than ten (10) seconds between thirty (30) ISS-S nodes in the same Blue PA COI and operating within a circle of one thousand (1000) metres diameter in open terrain under a network loading consistent with a platoon and its sections. NOTE: A position transmitted by any node will be received by the other twenty nine (29) nodes within ten (10) seconds.		description of the Blue PA service, including the maximum end-to-end one-way delay in open and complex terrain at the given distance and COI size. Analysis: The Bidder must provide an analysis of how their ISS-S solution meets the requirement.			if the description and supporting analysis proves that the proposed ISS-S provides end-to-end one-way delay of less than ten (10) seconds between thirty (30) ISS-S nodes in the same Blue PA COI and operating within one thousand (1000) metres diameter. The description must prove that the position transmitted by any node will be received by the other twenty nine (29) nodes within ten (10) seconds.	
423	TPS-2643	The Blue PA service should have a maximum end-to-end one-way delay of less than fifteen (15) seconds between forty-five (45) ISS-S nodes in the same Blue PA COI and operating within a circle of two thousand (2000) metres diameter in open terrain under a network loading consistent with a platoon with company assets. NOTE: A position transmitted by any node will be received by the other forty-four (44) nodes within fifteen (15) seconds.	R	The Bidder should provide a description of the Blue PA service, including the maximum end-to-end one-way delay in open and complex terrain at the given distance and COI size. Analysis: The Bidder should provide an analysis of how their ISS-S solution meets the requirement. The analysis should provably show that the system meets the delay, scale, range, relay and capacity components of the requirement.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of the points will be given if the Bidder's description and supporting analysis proves that the proposed ISS-S provides end-to-end one-way delay of less than fifteen (15) seconds between forty-five (45) ISS-S nodes in the same Blue PA COI and operating within two thousand (2000) metres diameter. The description should prove that the position transmitted by any node will be received by the other forty-four (44) nodes within fifteen (15) seconds.	774
424	TPS-243	Communications Coverage						
425	TPS-812	Relay						
426	TPS-3908	A cluster of ISS-CSs forming an ISS-S communications network must have no single point of failure.	M	The Bidder must provide a description of the system which explains the system effects from the loss or			The Bidder's proposal will be deemed compliant if the description proves that the proposed ISS-S provides a communications network with no single point of failure. The description must	

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				failure of any ISS-S node. Systems which require a master station or base station are examples of single points of failure which cause temporary or permanent loss of service to other nodes while the system is reconfigured to have a new master or base station.			include the communications network architecture and the mechanisms used such that if any of the ISS-S nodes fail the ISS-S communications network will remain fully operational except for communications with the failed node.	
427	TPS-5161	Once configured, the ISS-CS should allow for any ISS-CS node to relay data services in response to individual soldier tactical movement without requiring human intervention.	R	The Bidder should provide a detailed description of how any ISS-CS node can relay data services in response to individual soldier tactical movement without requiring human intervention.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that any ISS-CS node can relay data services in response to individual soldier tactical movement without requiring human intervention.	400
428	TPS-4079	Once configured, the ISS-CS should allow for any ISS-CS node to relay voice services in response to individual soldier tactical movement without requiring human intervention.	R	The Bidder should provide a detailed description of how any ISS-CS node can relay voice services in response to individual soldier tactical movement without requiring human intervention.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that any ISS-CS node can relay voice services in response to individual soldier tactical movement without requiring human intervention.	400
429	TPS-4253	The ISS-S communications network must provide data distribution up to a range of at least two thousand (2000) metres in all terrain configurations (i.e. open terrain to complex terrain) either through direct radio link communication or through the use of radio relays.	M	The Bidder must provide a detailed description of how their relaying functions at a distance of 2000 metres in open terrain using either single-hop or multi-hop as terrain conditions permit. A link budget or simulation result with parameter values			The Bidder's proposal will be deemed compliant if the description proves that the ISS-S communications network can provide data distribution to a range of at least two thousand (2000) metres. The description must include the number of hops required to achieve this communications range.	

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				used should be provided.				
430	TPS-3910	The ISS-S communications network should provide data distribution up to a range of at least six thousand (6000) metres in all terrain configurations (i.e. open terrain to complex terrain) either through direct radio link communication or through the use of radio relays.	R	The Bidder should provide a detailed description of how their relaying functions at a distance of 6000 metres in open terrain using either single-hop or multi-hop as terrain conditions permit. <u>A link budget or simulation result with parameter values used should be provided.</u>			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the ISS-S communications network can provide data distribution to a range of at least six thousand (6000) metres. The description should include the number of hops required to achieve this communications range.	400
431	TPS-1620	The ISS-S communications network must relay voice communications a minimum of two (2) radio hops for Voice COI extension.	M	The Bidder must provide a detailed description of how their voice relay functions for a minimum of two (2) radio hops.			The Bidder's proposal will be deemed compliant if the description proves that the ISS-S communications network supports the relay of voice communications using, at a minimum, two (2) radio hops. The description must include what criteria the ISS-S communications uses to determine which ISS-S nodes act as voice relay for other ISS-S nodes.	
432	TPS-2438	The ISS-S communications network should relay voice communications a minimum of four (4) radio hops.	R	The Bidder should provide a detailed description of how their voice relay functions for a minimum of four (4) radio hops.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the ISS-S communications network supports the relay of voice communications using, at a minimum, four (4) radio hops. The description should include what criteria the ISS-S communications uses to determine which ISS-S nodes act as voice relay for other ISS-S nodes.	400
433	TPS-1621	The relay of any single service must not consume all available bandwidth in the relaying ISS-CS.	M	The Bidder must provide a detailed description of how their ISS-S functions to ensure that not all bandwidth is consumed by any single service.	-	-	The Bidder's proposal will be deemed compliant if the description proves that it is not possible for a single relayed service to consume all available bandwidth in the relaying ISS-CS. The description must include what criteria the ISS-S uses to ensure bandwidth is available for	

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							multiple services.	
434	TPS-2120	The ISS-S communications network must switch between known relay points, without human intervention, in less than four (4) seconds, tested as per Volume 2, Annex CB, Appendix 10 - Miscellaneous Test Data and Test Procedure Requirements, Section 2 - Relay Transfer Test Procedure Requirements.	M	The Bidder must provide a detailed description of how their relay switch functions.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the ISS-S communications network is able to switch between known relay points, without human intervention, in less than four (4) seconds. The description must include what criteria are used to determine when to switch between relays and how the required switching time of four (4) seconds is met.	
435	TPS-4255	The ISS-S communications network should switch between known relay points, without human intervention, in less than two (2) seconds, tested as per Volume 2, Annex CB, Appendix 10 - Miscellaneous Test Data and Procedure Requirements, Section 2 - Relay Transfer Test Procedure Requirements.	R	The Bidder should provide a detailed description of how their relay switch functions. The description should include what criteria are used to determine when to switch between relays and how the required switching time of two (2) seconds is met.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the ISS-S communications network is able to switch between known relay points, without human intervention, in less than two (2) seconds. The description should include what criteria are used to determine when to switch between relays and how the required switching time of two (2) seconds is met.	369
436	TPS-816	The ISS-S communications network should configure relay points for data services, without human intervention, within fifteen (15) seconds of beaconing from a new, previously unknown, node.	R	The Bidder should provide a detailed description of how their ISS-S communications network functions to create a relay for a new ISS-S node beaconing or requesting to join the network.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the ISS-S communications network is able to configure relay points for data services, without human intervention, within fifteen (15) seconds of beaconing from a new, previously unknown, node. The description should include what criteria the ISS-S solution uses to signal entry to the network, how the ISS-S solution determines which node will provide relaying, and how data services are established to the newly joined ISS-	369

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							S node; • 100% of the points will be given if the Bidder's description proves that new, previously unknown, node can enter the ISS network and be fully functional within the ISS network without the need for beaconing.	
437	TPS-880	A minimum group of forty-five (45) ISS-CS must operate as a single ISS-S communications network for voice and data where all nodes are within 1 radio hop (i.e. no relay).	M	The Bidder must provide a detailed description of how their ISS-S communications network functions to provide both voice and data services to forty-five ISS-CS within 1 radio hop.	-	-	The Bidder's proposal will be deemed compliant if the description proves that a group of forty-five (45) ISS-CS are capable of operating as a single ISS-S communications network for voice and data where all nodes are within 1 radio hop (i.e. no relay). The description must include what criteria are used to determine the pattern within the radio network for each node to transmit or receive on this communications network. The Bidder must also identify any voice and data service restrictions that are placed on nodes when the communications network is operating at forty-five node scale.	
438	TPS-1650	A minimum group of thirty (30) ISS-CS must operate as a single ISS-S communications network for voice and data where 66% of nodes are separated by two (2) radio hops (e.g., 3 sections separated by distance or terrain with relaying between sections).	M	The Bidder must provide a detailed description of how their ISS-S communications network functions for voice and data when nodes are spread as per the requirement. The description must include what criteria are used to establish voice relays and data relays to ensure service to all ISS-CS nodes.	-	-	The Bidder's proposal will be deemed compliant if the description proves that a group of thirty (30) ISS-CS are capable of operating as a single ISS-S communications network for voice and data where 66% of nodes are separated by 2 radio hops (e.g., 3 sections separated by distance or terrain with relaying between sections). The description must include what criteria are used to establish voice relays and data relays to ensure service to all ISS-CS nodes.	
439	TPS-1658	The ISS-S communications network must operate in open terrain at a range of two thousand (2000) metres between two ground-based ISS-CS devices using an intermediating ground-based ISS-CS relaying node.	M	The Bidder must provide an analysis that describes how their ISS-S communications network solution provides communications between			The Bidder's proposal will be deemed compliant if the analysis proves that the ISS-S communications network can operate in open terrain at a range of two thousand (2000) metres between two ground-based ISS-CS devices	

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				ISS-CS devices at a range of 2000 metres using a relaying node as described in the requirement. <u>A link budget or simulation result with parameter values used should be provided.</u>			using an intermediating ground-based ISS-CS relaying node. The analysis must include the complete link budget (i.e. output power, receive sensitivity, etc ...) for their solution.	
440	TPS-3911	An ISS-S communications network of 10 ISS-CSs must communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster two thousand (2000) metres in diameter and no ISS-S is more than one thousand (1000) metres from another ISS-S.	M	The Bidder must provide a detailed description of how their ISS-S communications network functions under dispersion as described in the requirement. <u>A link budget or simulation result with parameter values used should be provided.</u>			The Bidder's proposal will be deemed compliant if the description proves that the ISS-S communications network of 10 ISS-CSs can communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster two thousand (2000) metres in diameter and no suite is more than one thousand (1000) metres from another suite. The description must include what criteria are used to ensure node reachability for all 10 nodes at the specified range.	
441	TPS-3913	An ISS-S communications network of 10 ISS-CSs should communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster six thousand (6000) metres in diameter and no ISS-S is more than two thousand (2000) metres from another ISS-S.	R	The Bidder should provide a detailed description of how their ISS-S communications network functions under dispersion as described in the requirement. <u>A link budget or simulation result with parameter values used should be provided.</u>			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the ISS-S communications network of 10 ISS-CSs can communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster six thousand (6000) metres in diameter and no suite is more than two thousand (2000) metres from another suite. The description should include what criteria are used to ensure node reachability for all 10 nodes at the specified range.	369
442	TPS-3914	An ISS-S communications network of ten (10) ISS-CSs must communicate voice and data with each other in an urban environment (as defined in Annex CE to Volume 2), where suites are	M	The Bidder must provide a detailed description of how their ISS-S communications network provides reliable			The Bidder's proposal will be deemed compliant if the description includes details on how the proposed ISS-S communications network's RF sensitivity, multi-path signal processing and	

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		deployed in a randomly distributed cluster five hundred (500) metres in diameter.		communications between ten (10) ISS-CSs operating within a cluster five hundred (500) metres in diameter in an urban environment. <u>A link budget or simulation result with parameter values used should be provided.</u>			relaying capabilities, via a link budget analysis, allows for reliable communications under conditions that are typically found in an urban environment. The urban environment must be as per the glossary definition of urban environment found in Annex CE to Volume 2. The description must include voice and data services and must assume that the communication network is of ten (10) ISS-CSs operating within a randomly distributed cluster five hundred (500) metres in diameter. The description must include what criteria are used to ensure node reachability for all ten (10) nodes at the specified range.	
443	TPS-3915	An ISS-S communications network of ten (10) ISS-CSs should communicate voice and data with each other in an urban environment (as defined in Annex CE to Volume 2), where ISS-Ss are deployed in a randomly distributed cluster two thousand (2000) metres in diameter.	R	The Bidder should provide a detailed description of how their ISS-S communications network provides reliable communications between ten (10) ISS-CSs operating within a cluster two thousand (2000) metres in diameter in an urban environment. <u>A link budget or simulation result with parameter values used should be provided.</u>			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the proposed ISS-S communications network's RF sensitivity, multi-path signal processing and relaying capabilities, via a link budget analysis, allows for reliable communications under conditions that is typically found in an urban environment. The urban environment should be as per the glossary definition of urban environment found in Annex CE to Volume 2. The description should include voice and data services and should assume that the communication network is of ten (10) ISS-CSs operating within a randomly distributed cluster two thousand (2000) metres in diameter. The description should include what criteria are used to ensure node reachability for all ten (10) nodes at the specified range.	369
444	TPS-817	Range Extension						
445	TPS-819	The ISS-CS should be configurable to prevent any single communications node from being the	R	The Bidder should provide a detailed description of how			The proposal will be evaluated and scored as indicated based on the description provided by	380

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		preferred relay for more than forty (40) nodes.		their ISS-CS functions to prevent a single ISS-S node from being the preferred relay for more than 40 nodes.			the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the ISS-CS is configurable to prevent any single communications node from being the preferred relay for more than 40 nodes.	
446	TPS-265	Network						
447	TPS-881	Data Network Convergence						
448	TPS-883	When routing is used between ten (10) ISS-CS nodes, the ISS-CS must choose an alternate data network path within ten (10) seconds of an established path being broken.	M	The Bidder must provide a detailed description of how their ISS-S communications network functions when an established data path is broken.	-	-	The Bidder's proposal will be deemed compliant if the description proves that if routing is used, an ISS-CS node within a ten (10) ISS-CS node network can choose an alternate data network path within ten (10) seconds of an established path being broken. The description must describe how the network of 10 ISS-CS nodes reforms alternate data network paths within the required ten (10) seconds.	
449	TPS-5429	When routing is used, the ISS-CS routing update frequency parameter must be configurable.	M	The Bidder must provide a detailed description of how their ISS-S communications network routing update parameter is reconfigurable.	-	-	The Bidder's proposal will be deemed compliant if the description proves that if routing is used, the ISS-CS routing update frequency parameter is configurable.	
450	TPS-269	System Access Time						
451	TPS-884	The ISS-CS must provide voice service within two hundred and fifty (250) milliseconds following a push to talk action by the User.	M	The Bidder must provide a detailed description of how their voice service functions following a push to talk action within the required time allotment.	-	-	The Bidder's proposal will be deemed compliant if the description proves that voice service is provided within two hundred and fifty (250) milliseconds following a push to talk action by the User. The description must describe the timing from push to talk to system readiness for audio input from the User.	
452	TPS-270	Addressing						
453	TPS-826	The ISS-CS must integrate with Internet Protocol version 4 addressing (IETF RFC 791, 1918 and 4632).	M	The Bidder must provide a detailed description of their Internet Protocol implementation.	-	-	The Bidder's proposal will be deemed compliant if the description of the ISS-S Internet Protocol implementation includes the codebase that is used to provide the functionality and any limits	

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							and restrictions in addressing space for the proposed ISS-S.	
454	TPS-2150	The ISS-S must provide mechanisms to prevent assignment of duplicate Internet Protocol addresses.	M	The Bidder must provide a detailed description of how their ISS-S functions to prevent duplicate assignment of IP addresses.	-	-	The Bidder's proposal will be deemed compliant if the description includes the processes that are used in the prevention functionality and must also describe the address assignment process.	
455	TPS-2151	The ISS-CS should detect duplicate Internet Protocol addresses and reconfigure a new non-duplicate Internet Protocol address to any conflicting nodes without human intervention.	R	The Bidder should provide a detailed description of how their duplicate IP address detection functions and how their IP address reconfiguration functions.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description includes how duplicate IP addresses are detected and what criteria are used for the reconfiguration of new non-duplicate IP addresses. Repetition of de-duplication and other limits in the de-duplication process should be described. The description should also prove that the IP address reconfiguration is performed without human intervention.	384
456	TPS-825	The ISS-S must provide unique addresses for a fleet of 16,384 ISS-S kits, including all devices in the ISS-S.	M	The Bidder must provide a detailed description of how their IP address allocation scales.	-	-	The Bidder's proposal will be deemed compliant if the description includes how IP addresses and other addresses are assigned such that a fleet of 16,384 ISS-S kits can have unique addresses. The description must include the criteria used to provide an upper limit to the numbers of assignable IP addresses in the Bidder's ISS-S solution.	
457	TPS-271	Radio						
458	TPS-3896	Transmitted Power						
459	TPS-5163	The ISS-CS must have a primary transmitted output power mode that can support all mandatory requirements found in the following sections: <ul style="list-style-type: none">• TPS-97 - Communication; and	M	The Bidder must provide a detailed description of the primary transmitted output power mode that will be used to meet the TPS			The Bidder's proposal will be deemed compliant if the description details the output power characteristics of the ISS-CS, and defines a primary transmitted output power mode that will be used to support mandatory Communications	

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		• TPS-312 - Electromagnetic Environmental Effects (E3)		requirements.			requirements defined in TPS-97 and the mandatory Electromagnetic Environmental Effects (E3) requirements defined in TPS-312.	
460	TPS-4069	The ISS-CS should provide selectable or adaptive radio transmitted output power levels.	R	The Bidder should provide a detailed description of how their ISS-S radio output power levels are modified.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the ISS-CS provides selectable or adaptive radio output power levels. The description should include what criteria are used for adaption of output power and should include User selectable mechanisms, if any, and the effects on radio output power levels.	370
461	TPS-4070	The ISS-CS should provide a lower transmitted output power mode to reduce power by 6 dB or more.	R	The Bidder should provide a detailed description of how their lower output power mode functions.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description proves that the ISS-CS includes a lower power mode and describes how the Bidder's ISS-S lower power mode meets or exceeds the required reduction in power.	370
462	TPS-272	Transmission range						
463	TPS-890	The ISS-CS must operate at a range of five hundred (500) metres between two ISS-CS devices in an urban canyon within an urban environment as defined in Annex CE to Volume 2, where buildings are located on both sides of the canyon.	M	The Bidder must provide a detailed description of how two ISS-CS can operate at a range of five hundred (500) metres in an urban environment. <u>A link budget or simulation result with parameter values used should be provided.</u>			The Bidder's proposal will be deemed compliant if the description proves how two ISS-CS can operate at a range of five hundred (500) metres in an urban environment. The description must assume an urban canyon where a 500m unobstructed path is available to the two (2) ISS-CS nodes. The description must include any mechanisms that can be employed to improve signal reception and transmission in this environment. The urban environment must be as per the glossary definition of urban environment found in Annex CE to Volume 2, with buildings located on both sides of the canyon.	
464	TPS-1652	The ISS-CS must provide point-to-point	M	The Bidder must provide a			The Bidder's proposal will be deemed compliant	

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		communications between two unobstructed (open space, line of sight) dismounted soldiers separated by a distance of one thousand (1000) metres while sustaining both voice and data at no less than eighty (80) kilobits per second of internet protocol (IP) data throughput after error correction.		detailed description of how their point-to-point communications functions. The description must include measured test results gathered by the Bidder showing that the required IP throughput is met or exceeded at the required range.			if the description includes details of how their point-to-point communications function. The provided test results must prove that an IP data throughput of eighty (80) kbps is achieved at a one thousand (1000) metre range.	
465	TPS-1653	The ISS-CS should provide point-to-point communications between two unobstructed (open space, line of sight) dismounted soldiers separated by a distance of one thousand (1000) metres while sustaining both voice and data at more than eighty (80) kilobits per second of internet protocol (IP) data throughput after error correction.	R	The Bidder should provide a detailed description of how their point-to-point communications functions. The description should include measured test results gathered by the Bidder showing that the requested IP throughput is met or exceeded at the requested range.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 50% of the points will be given if the provided test results shows that an IP data throughput of more than eighty (80) kbps and less than or equal to one hundred and twenty (120) kbps is achieved at one thousand (1000) metre range.• 100% of the points will be given if the provided test results shows that an IP data throughput of more than one hundred and twenty (120) kbps is achieved at one thousand (1000) metre range.	1162
466	TPS-1655	The ISS-CS must sustain all communications (i.e. sufficient link margin) to a receiving ISS-CS through an obstacle producing an attenuation of 15 dB at a range of three hundred (300) metres from the transmitter.	M	The Bidder must provide a detailed description of how their ISS-CS functions to provide sufficient link margin for the requirement. Analysis: The description must provide a detailed analysis based on measurement data <u>or detailed calculations</u> of how this requirement will be met.			The Bidder's proposal will be deemed compliant if the description and supporting analysis proves that the ISS-CS has sufficient link margin to meet the requirement.	
467	TPS-1256	The ISS-CS must sustain all communications to	M	The Bidder must provide a	-	-	The Bidder's proposal will be deemed compliant	

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		a receiving ISS-CS through 2 obstacles producing an attenuation of 8 dB each where the 2 obstacles are separated by five (5) metres and the ISS-CS devices are separated by five point five (5.5) metres.		detailed description of how their ISS-CS functions to provide sufficient link margin for the requirement. Analysis: The description must provide a detailed analysis based on measurement data of how this requirement will be met			if the description and supporting analysis proves that the ISS-CS has sufficient link margin to meet the requirement.	
468	TPS-1657	The ISS-CS must meet all range requirements (i.e. no reduced range performance) when worn by a standing soldier in full combat load, as per the conceptual loads found in Volume 2, Annex CB, Appendix 9—MLCS Conceptual Load.	M	The Bidder must provide a detailed description of how their ISS-S solution meets the specified range requirements when a soldier wears full combat load, as per the conceptual loads found in Volume 2, Annex CB, Appendix 9—MLCS Conceptual Load. Analysis: The description must provide a detailed analysis based on measurement data (i.e. vendor measured test results) of how this requirement will be met including any link losses assigned to the soldier's combat equipment load.	-	-	The Bidder's proposal will be deemed compliant if the description and supporting analysis proves that the ISS-CS will meet all there range requirements while the soldier wears full combat load, as per the conceptual loads found in Volume 2, Annex CB, Appendix 9—MLCS Conceptual Load.	
469	TPS-275	Frequencies / Frequency Planning						
470	TPS-5162	The ISS-CS must meet all TPS performance requirements within the mandatory 225-450 MHz UHF band (i.e. Primary Operating Band) using	M	The Bidder must provide a detailed description of how their ISS-S functions within			The Bidder's proposal will be deemed compliant if the description includes details of how the ISS-S functions within the 225-450MHz UHF band	

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		frequency channels having a fixed channel size.		the 225-450 MHz UHF band. The description must include what criteria are used to determine channel size and the numbers of channels available within this band.			and describes the criteria used to determine channel size and the numbers of channels available within this band.	
471	TPS-893	The ISS-CS must provide a minimum of twenty (20) orthogonal frequency channels within the 225 - 450 MHz band while meeting the user service performance requirements described in section TPS-246.	M	The Bidder must provide a detailed description of how their ISS-S functions to provide twenty (20) orthogonal frequency channels within the 225-450 MHz band.			The Bidder's proposal will be deemed compliant if the description includes details of how the ISS-S functions to provide twenty (20) orthogonal frequency channels within the 225-450 MHz band and describes the channel characteristics, usable frequency, guard channel spacing, any filters applied, etc.	
472	TPS-4071	The ISS-CS should provide a minimum of forty (40) orthogonal frequency channels within the 225 - 450 MHz band while meeting the user service performance requirements described in section TPS-246.	R	The Bidder should provide a detailed description of how their ISS-S functions to provide forty (40) orthogonal frequency channels within the 225-450 MHz band.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of the points will be given if the Bidder's description proves that the ISS-S provides forty (40) orthogonal frequency channels within the 225-450 MHz band and describes the channel characteristics, usable frequency, guard channel spacing, any filters applied, etc. 	767
473	TPS-5500	The ISS-CS should provide a minimum of five (5) orthogonal frequency channels within the 420 - 450 MHz band while meeting the user service performance requirements described in section TPS-246.	R	<p>If the ISS-CS supports this requirement at bid time, the Bidder should provide a detailed description of how their ISS-CS meets the requirement.</p> <p>Otherwise:</p> <p>If the ISS-CS does not support this requirement at bid time, the Bidder should provide a detailed</p>			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of the points will be given if the Bidder's description proves that the ISS-S supports a minimum of five (5) orthogonal frequency channels within the 420 - 450 MHz band at bid time; or • 100% of the points will be given if the Bidder's description proves that the ISS-S can be modified to provide a minimum of five (5) orthogonal frequency channels within the 420 - 450 MHz band before the end of the qualification 	418

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				description explaining the changes required to the ISS-S in order to meet this requirement and how those changes and related qualification testing will be achievable within the bidder's proposed System Qualification Phase schedule.			phase. The description should explain which aspects of the ISS-CS will be modified and how those modifications and related qualification tests can be performed within the timelines specified for the System Qualification Phase as proposed by the bidder.	
474	TPS-894	In addition to the 225 - 450 MHz band, the ISS-CS should operate in the 902 - 928 MHz frequency band (i.e. Secondary Operating Band) without having to change the ISS-CS hardware, while providing the following characteristics: <ul style="list-style-type: none">• provide a minimum of ten (10) orthogonal frequency channels;• provide communications capacity for concurrent reception of two (2) independent voice COI and for transmission on either voice COI when selected;• operate within RADHAZ limits defined in this specification;• support a minimum of five (5) concurrent, non-overlapping voice COIs located within a circular area with two hundred (200) metre diameter for dismounted close combat operations;• distribute data and voice to all network-reachable ISS-S nodes subscribed to a defined COI;• provide single hop (i.e. direct path) or multi-hop (i.e. relay path) capability for data distribution to extend the network range to at least two thousand (2000) metres in open terrain with data throughput equivalent or greater than data throughput measured in the Primary Operating	R	The Bidder should provide a detailed description of how their ISS-S functions to meet all parts of the requirement. The description should include the functionality to be delivered at this frequency band and any limitations on services and functions as described in the requirement. The description should describe the procedure to follow for the ISS-CS to operate in the specified Secondary Operating Band. The description should describe the channel characteristics, usable frequency, guard channel spacing, any filters applied, and any limits or restrictions on services.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: No points will be given if the ISS-CS hardware needs to be modified to operate in the Secondary Operating Band. If the ISS-CS hardware does not need to be modified to operate in the Secondary Operating Band, then: <ul style="list-style-type: none">• 15% of the points will be given if the Bidder's description proves that the ISS-CS supports at least 10 orthogonal frequency channels;• 15% of the points will be given if the Bidder's description proves that the ISS-CS supports concurrent reception of at least two independent voice COI and supports transmission on either voice COI when selected;• 15% of the points will be given if the Bidder's description proves that the ISS-CS can operate within RADHAZ limits defined in this specification;• 15% of the points will be given if the Bidder's description proves that the ISS-CS supports a minimum of five (5) concurrent, non-overlapping voice COIs located within a circular area with two hundred (200) metre diameter for	767

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		<p>Band;</p> <ul style="list-style-type: none"> • using a network of ten (10) ISS-CS, communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster two thousand (2000) metres in diameter and no ISS-S is more than one thousand (1000) metres from another ISS-S; and • using a network of ten (10) ISS-CS, communicate voice and data with each other in an urban environment (as defined in Annex CE to Volume 2) where ISS-Ss are deployed in a randomly distributed cluster five hundred (500) metres in diameter. 					<p>dismounted close combat operations;</p> <ul style="list-style-type: none"> • 15% of the points will be given if the Bidder's description proves that the ISS-CS supports the distribution of data and voice to all network-reachable ISS-S nodes subscribed to a defined COI; • 15% of the points will be given if the Bidder's description proves that the ISS-CS provides single hop (i.e. direct path) or multi-hop (i.e. relay path) capability for data distribution to extend the network range to at least two thousand (2000) metres in open terrain with data throughput equivalent or greater than data throughput measured in the Primary Operating Band; • 5% of the points will be given if the Bidder's description proves that using a network of ten (10) ISS-CS, the ISS-CSs can establish voice and data communications with each other where suites are separated in open terrain as a randomly distributed cluster two thousand (2000) metres in diameter and no ISS-S is more than one thousand (1000) metres from another ISS-S; and • 5% of the points will be given if the Bidder's description proves that using a network of ten (10) ISS-CS, the ISS-CSs can establish voice and data communications with each other in an urban environment where ISS-Ss are deployed in a randomly distributed cluster five hundred (500) metres in diameter. The urban environment should be as per the glossary definition of urban environment found in Annex CE to Volume 2. 	
475	TPS-5199	In addition to the 225 - 450 MHz band, the ISS-CS should operate in the 1210 - 1415 MHz	R	The Bidder should provide a detailed description of how			The proposal will be evaluated and scored as indicated based on the description provided by	767

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		frequency band (i.e. Secondary Operating Band) without having to change the ISS-CS hardware, while providing the following characteristics: <ul style="list-style-type: none">• provide a minimum of ten (10) orthogonal frequency channels;• provide communications capacity for concurrent reception of two (2) independent voice COI and for transmission on either voice COI when selected;• operate within RADHAZ limits defined in this specification;• support a minimum of five (5) concurrent, non-overlapping voice COIs located within a circular area with two hundred (200) metre diameter for dismounted close combat operations;• distribute data and voice to all network-reachable ISS-S nodes subscribed to a defined COI;• provide single hop (i.e. direct path) or multi-hop (i.e. relay path) capability for data distribution to extend the network range to at least two thousand (2000) metres in open terrain with data throughput equivalent or greater than data throughput measured in the Primary Operating Band;• using a network of ten (10) ISS-CS, communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster two thousand (2000) metres in diameter and no ISS-S is more than one thousand (1000) metres from another ISS-S; and• using a network of ten (10) ISS-CS, communicate voice and data with each other in an urban environment (as defined in Annex CE to Volume 2) where ISS-Ss are deployed in a		their ISS-S functions to meet all parts of the requirement. The description should include the functionality to be delivered at this frequency band and any limitations on services and functions as described in the requirement. The description should describe the procedure to follow for the ISS-CS to operate in the specified Secondary Operating Band. The description should describe the channel characteristics, usable frequency, guard channel spacing, any filters applied, and any limits or restrictions on services.			<p>the Bidder:</p> <p>No points will be given if the ISS-CS hardware needs to be modified to operate in the Secondary Operating Band.</p> <p>If the ISS-CS hardware does not need to be modified to operate in the Secondary Operating Band, then:</p> <ul style="list-style-type: none">• 15% of the points will be given if the Bidder's description proves that the ISS-CS supports at least ten (10) orthogonal frequency channels;• 15% of the points will be given if the Bidder's description proves that the ISS-CS supports concurrent reception of at least two independent voice COI and supports transmission on either voice COI when selected;• 15% of the points will be given if the Bidder's description proves that the ISS-CS can operate within RADHAZ limits defined in this specification;• 15% of the points will be given if the Bidder's description proves that the ISS-CS supports a minimum of five (5) concurrent, non-overlapping voice COIs located within a circular area with two hundred (200) metre diameter for dismounted close combat operations;• 15% of the points will be given if the Bidder's description proves that the ISS-CS supports the distribution of data and voice to all network-reachable ISS-S nodes subscribed to a defined COI;• 15% of the points will be given if the Bidder's description proves that the ISS-CS provides single hop (i.e. direct path) or multi-hop (i.e. relay path) capability for data distribution to extend the network range to at least two thousand (2000) metres in open terrain with data	

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		randomly distributed cluster five hundred (500) metres in diameter.					throughput equivalent or greater than data throughput measured in the Primary Operating Band; • 5% of the points will be given if the Bidder's description proves that using a network of ten (10) ISS-CS, the ISS-CSs can establish voice and data communications with each other where suites are separated in open terrain as a randomly distributed cluster two thousand (2000) m in diameter and no ISS-S is more than one thousand (1000) metres from another ISS-S; and • 5% of the points will be given if the Bidder's description proves that using a network of ten (10) ISS-CS, the ISS-CSs can establish voice and data communications with each other in an urban environment where ISS-Ss are deployed in a randomly distributed cluster five hundred (500) metres in diameter. The urban environment should be as per the glossary definition of urban environment found in Annex CE to Volume 2.	
476	TPS-5201	In addition to the 225 - 450 MHz band, the ISS-CS should operate in the 2360 - 2473 MHz frequency band (i.e. Secondary Operating Band) without having to change the ISS-CS hardware, while providing the following characteristics: • provide a minimum of ten (10) orthogonal frequency channels; • provide communications capacity for concurrent reception of two (2) independent voice COI and for transmission on either voice COI when selected; • operate within RADHAZ limits defined in this specification; • support a minimum of five (5) concurrent, non-overlapping voice COIs located within a circular	R	The Bidder should provide a detailed description of how their ISS-S functions to meet all parts of the requirement. The description should include the functionality to be delivered at this frequency band and any limitations on services and functions as described in the requirement. The description should describe the procedure to follow for the ISS-CS to operate in the			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: No points will be given if the ISS-CS hardware needs to be modified to operate in the Secondary Operating Band. If the ISS-CS hardware does not need to be modified to operate in the Secondary Operating Band, then: • 15% of the points will be given if the Bidder's description proves that the ISS-CS supports at least ten (10) orthogonal frequency channels; • 15% of the points will be given if the Bidder's description proves that the ISS-CS supports concurrent reception of at least two independent	767

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		area with two hundred (200) metre diameter for dismounted close combat operations; <ul style="list-style-type: none">• distribute data and voice to all network-reachable ISS-S nodes subscribed to a defined COI;• provide single hop (i.e. direct path) or multi-hop (i.e. relay path) capability for data distribution to extend the network range to at least two thousand (2000) metres in open terrain with data throughput equivalent or greater than data throughput measured in the Primary Operating Band;• using a network of ten (10) ISS-CS, communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster two thousand (2000) metres in diameter and no ISS-S is more than one thousand (1000) metres from another ISS-S; and• using a network of ten (10) ISS-CS, communicate voice and data with each other in an urban environment (as defined in Annex CE to Volume 2)where ISS-Ss are deployed in a randomly distributed cluster five hundred (500) metres in diameter.		specified Secondary Operating Band. The description should describe the channel characteristics, usable frequency, guard channel spacing, any filters applied, and any limits or restrictions on services.			voice COI and supports transmission on either voice COI when selected; <ul style="list-style-type: none">• 15% of the points will be given if the Bidder's description proves that the ISS-CS can operate within RADHAZ limits defined in this specification;• 15% of the points will be given if the Bidder's description proves that the ISS-CS supports a minimum of five (5) concurrent, non-overlapping voice COIs located within a circular area with two hundred (200) metre diameter for dismounted close combat operations;• 15% of the points will be given if the Bidder's description proves that the ISS-CS supports the distribution of data and voice to all network-reachable ISS-S nodes subscribed to a defined COI;• 15% of the points will be given if the Bidder's description proves that the ISS-CS provides single hop (i.e. direct path) or multi-hop (i.e. relay path) capability for data distribution to extend the network range to at least two thousand (2000) metres in open terrain with data throughput equivalent or greater than data throughput measured in the Primary Operating Band;• 5% of the points will be given if the Bidder's description proves that using a network of ten (10) ISS-CS, the ISS-CSs can establish voice and data communications with each other where suites are separated in open terrain as a randomly distributed cluster two thousand (2000) metres in diameter and no ISS-S is more than one thousand (1000) metres from another ISS-S; and• 5% of the points will be given if the Bidder's	

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							description proves that using a network of ten (10) ISS-CS, the ISS-CSs can establish voice and data communications with each other in an urban environment where ISS-Ss are deployed in a randomly distributed cluster five hundred (500) metres in diameter. The urban environment should be as per the glossary definition of urban environment found in Annex CE to Volume 2.	
477	TPS-3923	Spectrum Access Flexibility						
478	TPS-3924	Where spectrum availability is limited within a frequency band, the ISS-CS should have the capability to be programmed to operate with a reduced occupied bandwidth while providing a reduced level of service for five (5) or more voice COIs, one Blue PA COI, and ten (10) kilobits per second on one Data COI (point-to-point).	R	<p>The Bidder should provide a detailed description of how their ISS-S functions using a reduced occupied bandwidth to provide the required voice, Blue PA and data services.</p> <p>Analysis: The Bidder should provide an analysis of how their ISS-S solution meets the requirement.</p>			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none"> 100% of the points will be given if the Bidder's description and supporting analysis proves that the ISS-CS supports a mode of operation with reduced capabilities as per the requirement. The description and supporting analysis should clearly indicate the occupied bandwidth in this mode and should clearly indicate how much bandwidth is saved compared to normal operation. The description should prove that at least five (5) voice COIs, a Blue PA COI and a Data COI with at least ten (10) kbps of throughput. The description should provide any functional limits that are placed on services in this mode of operation as reduced performance is expected when in this mode of operation. 	745
479	TPS-5384	The ISS-CS should permit an ISS-S User to change between Primary Operating Band and Secondary Operating Bands within sixty (60) seconds and without requiring special devices.	R	The Bidder should provide a detailed description of how their ISS-S functions to change between Primary and Secondary Operating Bands within the required timing.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none"> 100% of the points will be given if the Bidder's description proves that the ISS-S can change between the Primary Operating Band and one of the provided Secondary Operating Bands within sixty (60) seconds without requiring any 	397

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							additional devices.	
480	TPS-4073	Occupied Bandwidth						
481	TPS-4075	The ISS-CS maximum occupied bandwidth (as defined in the Glossary in Volume 2, Annex CE) in the 225 - 450 MHz frequency band must be no more than 5 MHz with the following characteristics: - At +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) must be at 20 dB below peak power or less; and - At +/- 5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) must be at 60 dB below peak power or less.	M	The Bidder must provide a detailed description of how their ISS-S solution functions to provide a radio frequency signal that operates within the required maximum occupied bandwidth.			The Bidder's proposal will be deemed compliant if the description proves that the ISS-CS maximum occupied bandwidth in the 225 - 450 MHz frequency band is no more than 5 MHz. The description must include the total integrated power of the transmitted spectrum, the center of the assigned channel frequency, and the upper and lower frequency bounds of the occupied bandwidth. The description must prove that at +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at 20 dB below peak power or less and that at +/- 5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at 60 dB below peak power or less. The description must also identify any changes between the extreme upper and lower limits of the frequency band. The description must prove how all the ISS-CS requirements can be met while meeting this requirement.	
482	TPS-5484	The ISS-CS maximum occupied bandwidth (as defined in the Glossary in Volume 2, Annex CE) the in the 225 - 450 MHz frequency band should be no more than 5 MHz with the following characteristics: - At +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 40 dB below peak power or less; and - At +/- 3.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 60 dB below peak power or less.	R	The Bidder should provide a detailed description of how their ISS-S solution functions to provide a radio frequency signal that operates within the required maximum occupied bandwidth.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. The description should include the occupied bandwidth in the 225 - 450 MHz frequency band. The description should include the total integrated power of the transmitted spectrum, the center of the assigned channel frequency, and the upper and lower frequency bounds of the occupied bandwidth. The description should prove that at +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at 40 dB below peak power or less and that at +/- 3.5	765

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							<p>MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at 60 dB below peak power or less.</p> <p>The description should also identify any changes between the extreme upper and lower limits of the frequency band. The description should prove how all the ISS-CS requirements can be met while meeting the claimed occupied bandwidth.</p> <p>The solution will be scored as follows:</p> <ul style="list-style-type: none">• 100% of the points will be given if:<ul style="list-style-type: none">- The occupied bandwidth is 5 MHz or less;- At +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 40 dB below peak power; and- At +/- 3.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 60 dB below peak power.	
483	TPS-4252	The ISS-CS maximum occupied bandwidth (as defined in the Glossary in Volume 2, Annex CE) in the 225 - 450 MHz frequency band should be no more than 2.5 MHz with the following characteristics: <ul style="list-style-type: none">- At +/- 1.25 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 20 dB below peak power or less; and- At +/- 3 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 60 dB below peak power or less.	R	The Bidder should provide a detailed description of how their ISS-S solution functions to provide a radio frequency signal that operates within the required maximum occupied bandwidth.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. The description should include the occupied bandwidth in the 225 - 450 MHz frequency band. The description should include the total integrated power of the transmitted spectrum, the center of the assigned channel frequency, and the upper and lower frequency bounds of the occupied bandwidth. The description should prove that at +/- 1.25 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at 20 dB below peak power or less and that at +/- 3 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at 60 dB	765

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							<p>below peak power or less.</p> <p>The description should also identify any changes between the extreme upper and lower limits of the frequency band. The description should prove how all the ISS-CS requirements can be met while meeting the claimed occupied bandwidth.</p> <p>The solution will be scored as follows:</p> <ul style="list-style-type: none">• 50% of the points will be given if:<ul style="list-style-type: none">- The occupied bandwidth is 2.5 MHz or less;- At +/- 1.25 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 20 dB below peak power; and- At +/- 3 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 60 dB below peak power.• 100% of the points will be given if:<ul style="list-style-type: none">- The occupied bandwidth is 1.25 MHz or less;- At +/- 625 kHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 20 dB below peak power; and- At +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 60 dB below peak power.	
484	TPS-3926	The ISS-CS maximum occupied bandwidth (as defined in the Glossary in Volume 2, Annex CE) in the 902 - 928 MHz frequency band should be no more than 2.5 MHz with the following characteristics: <ul style="list-style-type: none">- At +/- 1.25 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 20 dB below peak	R	The Bidder should provide a detailed description of how their ISS-S solution functions to provide a radio frequency signal that operates within the required maximum occupied bandwidth in the 902 - 928			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. The description should include the occupied bandwidth in the 902 - 928 MHz frequency band. The description should include the total integrated power of the transmitted spectrum, the center of the assigned channel frequency, and the upper and lower frequency	765

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		power or less; and - At +/- 3 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 60 dB below peak power or less.		MHz frequency band.			<p>bounds of the occupied bandwidth. The description should prove that at +/- 1.25 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at 20 dB below peak power or less and that at +/- 3 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at 60 dB below peak power or less.</p> <p>The description should also identify any changes between the extreme upper and lower limits of the frequency band. The description should prove how all the ISS-CS requirements can be met while meeting the claimed occupied bandwidth.</p> <p>The solution will be scored as follows:</p> <ul style="list-style-type: none">• 75% of the points will be given if:<ul style="list-style-type: none">- The occupied bandwidth is 2.5 MHz or less;- At +/- 1.25 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 20 dB below peak power; and- At +/- 3 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 60 dB below peak power. <p>The solution will be scored as follows:</p> <ul style="list-style-type: none">• 100% of the points will be given if:<ul style="list-style-type: none">- The occupied bandwidth is 2.5 MHz or less;- At +/- 1.25 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 40 dB below peak power; and- At +/- 3 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 60 dB below peak power.	

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1	2	3	4	5	6	7	8	9
485	TPS-3927	The ISS-CS maximum occupied bandwidth (as defined in the Glossary in Volume 2, Annex CE) in the 1210-1415 MHz frequency band should be no more than 2.5 MHz with the following characteristics: - At +/- 1.25 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 20 dB below peak power or less; and - At +/- 3 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 60 dB below peak power or less.	R	The Bidder should provide a detailed description of how their ISS-S solution functions to provide a radio frequency signal that operates within the required maximum occupied bandwidth in the 1210 - 1415 MHz frequency band.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. The description should include the occupied bandwidth in the 1210 - 1415 MHz frequency band. The description should include the total integrated power of the transmitted spectrum, the center of the assigned channel frequency, and the upper and lower frequency bounds of the occupied bandwidth. The description should prove that at +/- 1.25 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at 20 dB below peak power or less and that at +/- 3 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at 60 dB below peak power or less.</p> <p>The description should also identify any changes between the extreme upper and lower limits of the frequency band. The description should prove how all the ISS-CS requirements can be met while meeting the claimed occupied bandwidth.</p> <p>The solution will be scored as follows:</p> <ul style="list-style-type: none">• 75% of the points will be given if:<ul style="list-style-type: none">- The occupied bandwidth is 2.5 MHz or less;- At +/- 1.25 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 20 dB below peak power; and- At +/- 3 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 60 dB below peak power.• 100% of the points will be given if:<ul style="list-style-type: none">- The occupied bandwidth is 2.5 MHz or less;	765

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							<div>- At +/- 1.25 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 40 dB below peak power; and</div> <div>- At +/- 3 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 60 dB below peak power.</div>	
486	TPS-3928	<div>The ISS-CS maximum occupied bandwidth (as defined in the Glossary in Volume 2, Annex CE) in the 2360-2473 MHz frequency band should be no more than 5 MHz with the following characteristics:</div> <div>- At +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 20 dB below peak power or less; and</div> <div>- At +/- 3.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 60 dB below peak power or less.</div>	R	<div>The Bidder should provide a detailed description of how their ISS-S solution functions to provide a radio frequency signal that operates within the required maximum occupied bandwidth in the 2360 - 2473 MHz frequency band.</div>			<div>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. The description should include the occupied bandwidth in the 2360 - 2473 MHz frequency band. The description should include the total integrated power of the transmitted spectrum, the center of the assigned channel frequency, and the upper and lower frequency bounds of the occupied bandwidth. The description should prove that at +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at 20 dB below peak power or less and that at +/- 3.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at 60 dB below peak power or less.</div> <div>The description should also identify any changes between the extreme upper and lower limits of the frequency band. The description should prove how all the ISS-CS requirements can be met while meeting the claimed occupied bandwidth.</div> <div>The solution will be scored as follows:<ul style="list-style-type: none">• 75% of the points will be given if:<ul style="list-style-type: none">- The occupied bandwidth is 5 MHz or less;- At +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band</div>	765

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							emissions) is at least 20 dB below peak power; and - At +/- 3.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 60 dB below peak power. • 100% of the points will be given if: - The occupied bandwidth is 5 MHz or less; - At +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 40 dB below peak power; and - At +/- 3.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 60 dB below peak power.	
487	TPS-278	Configuration Persistence						
488	TPS-879	The ISS-CS must store its radio and network configuration so that its devices can be powered off and restarted without requiring a new configuration.	M	The Bidder must provide a description of how their radio configuration and network configuration is stored.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the ISS-CS can be powered off and restarted without requiring a new configuration. The description must describe how the configuration is stored when the power is cycled and identify any limits on radio or network configurations.	
489	TPS-1649	The ISS-CS must retain its radio and network configuration for a period of at least two (2) minutes or more upon removal of ISS-Batteries.	M	The Bidder must provide a detailed description of how their radio configuration and network configuration functions when ISS-Batteries are removed for two (2) minutes or more.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the ISS-CS radio configuration and network configuration are retained within the ISS-CS when the ISS-Batteries are removed for two (2) minutes or more. The description must include what criteria determine the upper limits for ISS-Battery removal. The Bidder must identify any functional restrictions on ISS-Battery removal.	
490	TPS-280	User Configurable Functions						
491	TPS-4258	The ISS-CS must provide a volume control for adjusting audio output levels presented to the User.	M	The Bidder must provide a detailed description of how their ISS-S solution allows the User to control the	-	-	The Bidder's proposal will be deemed compliant if the description indicates that the ISS-CS includes a volume control for adjusting the audio output level presented to the User. The	

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				volume of received voice communications.			description must include details on the volume control and how the User uses the volume control. The description must include any limits or restrictions placed on this control.	
492	TPS-282	Radio Antennas						
493	TPS-2167	The ISS-CS radio antenna must be interchangeable without requiring special tools.	M	The Bidder must describe how the antenna can be interchanged.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the ISS-CS radio antenna is interchangeable without tools.	
494	TPS-906	Software-Defined Radio						
495	TPS-907	The ISS-CS must use a software-defined radio that permits functional upgrades and technology insertion of the radio without modifying hardware or interfaces to the radio and use existing ISS-CS ports to perform the upgrades.	M	The Bidder must provide a detailed description of the radio software architecture and any supporting hardware modules. The Bidder must also describe how firmware functional upgrades are performed.			The Bidder's proposal will be deemed compliant if the description proves that the ISS-CS uses a software-defined radio (SDR) that allows for introducing new waveforms without requiring hardware changes. The description must describe the radio software and hardware architecture and prove that the architecture allows for changing waveforms without requiring hardware changes. The description must also describe the process that is used to change waveforms and prove that existing ISS-CS ports are used to perform the upgrade.	
496	TPS-832	The ISS-CS must permit replacement, in whole or part, of the entire physical layer software, including layer elements, for enhanced performance without changing the physical device and associated interfaces.	M	The Bidder must provide a detailed description of how functional upgrades are performed which permit the entire PHY (physical software layer) to be replaced. Analysis: The Bidder must provide a detailed analysis of how their ISS-S solution meets the requirement.			The Bidder's proposal will be deemed compliant if the description and supporting analysis proves that the ISS-CS uses a software-defined radio (SDR) implementation permits the replacement of the PHY (physical software layer) without requiring any interface or hardware changes.	
497	TPS-4260	The ISS-CS must permit replacement, in whole	M	The Bidder must provide a			The Bidder's proposal will be deemed compliant	

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		or part, of the entire media access control layer software, including layer elements, for enhanced performance without changing the physical device and associated interfaces.		<p>detailed description of how functional upgrades are performed which permit the entire MAC (media access control layer) to be replaced.</p> <p>Analysis: The Bidder must provide a detailed analysis of how their ISS-S solution meets the requirement.</p>			if the description and supporting analysis proves that the ISS-CS uses a software-defined radio (SDR) implementation permits the replacement of the MAC (media access control layer) without requiring any interface or hardware changes.	
498	TPS-277	Codec						
499	TPS-896	The ISS-CS should permit the replacement of radio voice codec without changing radio hardware and interfaces to the radio.	R	The Bidder should provide a description of how a voice codec is replaced in their ISS-S solution. The description should also state unambiguously that radio hardware and radio interfaces are not required to be changed to support this functional change.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none"> • 100% of the points will be given if the Bidder's description proves that the ISS-CS voice codec can be replaced without requiring and interface or hardware changes. Details on the voice codec implementation should be provided to support the claim. 	211
500	TPS-98	Power and Data Infrastructure						
501	TPS-4446	General						
502	TPS-4509	The ISS-S must complete eight (8) hours of continuous operation without recharge or replacement of any ISS Battery, where the eight (8) hours of operation are as per Section 3.1 Battlefield Day (BD) Profile (dividing all time for each task by three (3)) of Volume 2, Annex CB, Appendix 3 Mission Profile and Operation Mode Summary.	M	The Bidder must perform a test and provide an analysis, as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements, detailing the ISS-S power infrastructure and describing how the ISS-S meets the requirement.			<p>The Bidder's proposal will be deemed compliant if:</p> <ul style="list-style-type: none"> • The Bidder proves that a power consumption test was performed on the proposed ISS-S as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements; • The Bidder provides a test report and an results analysis as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements; and • The above test report and analysis proves that 	

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							the ISS-S can complete eight (8) hours of continuous operation without recharge or replacement of any ISS Battery as per the requirement.	
503	TPS-4510	The ISS-S should complete twenty-four (24) hours of continuous operation without recharge or replacement of any ISS Battery, where the twenty-four (24) hours of operation is as per Section 3.1 Battlefield Day (BD) Profile of Volume 2, Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary.	R	The Bidder should perform a test and provide an analysis, as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements, detailing the ISS-S power infrastructure and describing how the ISS-S meets the requirement.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder.</p> <p>100% of the points will be given if:</p> <ul style="list-style-type: none">• The Bidder proves that a power consumption test was performed on the proposed ISS-S as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements;• The Bidder provides a test report and an results analysis as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements; and• The above test report and analysis proves that the ISS-S can complete twenty-four (24) hours of continuous operation without recharge or replacement of any ISS Battery as per the requirement.	728
504	TPS-4500	Power Sources						
505	TPS-5443	ISS Batteries						
506	TPS-5208	The ISS Non-Rechargeable Batteries must be manufactured and available from at least two different, independent vendors.	M	The Bidder must provide the part number for all ISS Non-Rechargeable Batteries that are required for their bid ISS-S to function and prove that those batteries are manufactured by at least two independent companies. These batteries must be the same ones that are used	-	-	The Bidder's proposal will be deemed compliant if the description includes the part number of all ISS Non-Rechargeable Batteries, and the name and address of at least two independent companies that manufacture the ISS Non-Rechargeable Batteries. A point of contact within each company must also be provided. Canada reserves the right to verify the information with the companies.	

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				throughout the bid, including for TPS-3919, TPS-4509 and TPS-4510.				
507	TPS-5173	The ISS-S should require as few ISS Battery types as possible.	R	The Bidder should provide a count of the different ISS Battery types that are required to operate the ISS-S. The count should be provided within the test report and analysis performed as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder.</p> <p>ISS Non-Rechargeable Batteries:</p> <ul style="list-style-type: none">• 50%: If the description proves that 1 type of ISS Non-Rechargeable Batteries is required to operate the ISS-S;• 25%: If the description proves that 2 types of ISS Non-Rechargeable Batteries are required to operate the ISS-S;• 0%: If the description proves that 3 or more types of ISS Non-Rechargeable Batteries are required to operate the ISS-S. <p>ISS Rechargeable Batteries:</p> <ul style="list-style-type: none">• 50%: If the description proves that 1 type of ISS Rechargeable Batteries is required to operate the ISS-S;• 25%: If the description proves that 2 types of ISS Rechargeable Batteries are required to operate the ISS-S;• 0%: If the description proves that 3 or more types of ISS Rechargeable Batteries are required to operate the ISS-S.	759
508	TPS-4511	After 200 charge/discharge cycles, the ISS Rechargeable Batteries must store a charge of 80% of their rated capacity in amp-Hr.	M	The Bidder must provide a <u>description</u> showing that the ISS Rechargeable Batteries can retain 80% of their capacity after 200 recharge cycles.			<p>The Bidder's proposal will be deemed compliant if the <u>description</u> proves that the ISS Rechargeable Batteries retain 80% of their capacity after 200 recharge cycles. The following conditions are assumed for this <u>scenario</u>:</p> <ul style="list-style-type: none">• Temperature: 25° ± 10°C• Relative humidity: 20 to 80 percent• Atmospheric pressure: Site pressure	

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509	TPS-5446	ISS-ES Internal Batteries						
510	TPS-5447	If ISS-ES Internal Batteries are provided, the ISS-ES Internal Batteries must be included as part of the ISS-ES.	M	If ISS-ES Internal Batteries are provided as part of the ISS-ES, the Bidder must describe their ISS-S power architecture, including where the ISS-ES Internal Batteries are located. If ISS-ES Internal Batteries are not provided, the Bidder does not need to provide a description.	-	-	If ISS-ES Internal Batteries are provided, the Bidder's proposal will be deemed compliant if the description includes the ISS-S power architecture including the location of the ISS-ES Internal Batteries. If ISS-ES Internal Batteries are not provided, the Bidder's proposal will be deemed compliant.	
511	TPS-5448	If ISS-ES Internal Batteries are provided, the ISS-ES Internal Batteries must be rechargeable.	M	If ISS-ES Internal Batteries are provided as part of the ISS-ES, the Bidder must provide a technical data sheet for the ISS-ES Internal Batteries. If ISS-ES Internal Batteries are not provided, the Bidder does not need to provide a description.	-	-	If ISS-ES Internal Batteries are provided, the Bidder's proposal will be deemed compliant if the description proves that the ISS-ES Internal Batteries are rechargeable. If ISS-ES Internal Batteries are not provided, the Bidder's proposal will be deemed compliant.	
512	TPS-5449	If ISS-ES Internal Batteries are provided, the ISS-ES Internal Batteries must be charged using the ISS Batteries without having to remove the ISS-ES Internal Batteries from their operational location, without having to remove the ISS Batteries from their operational location, and without any User impact on the ISS-ES operation.	M	If ISS-ES Internal Batteries are provided as part of the ISS-ES, the Bidder must describe their ISS-S power architecture, and describe how the ISS-ES Internal Batteries get charged. If ISS-ES Internal Batteries are not provided, the Bidder does not need to provide a description.	-	-	If ISS-ES Internal Batteries are provided, the Bidder's proposal will be deemed compliant if the description proves that the ISS-ES Internal Batteries get charged using the ISS Batteries while the User is wearing and operating the ISS-S. If ISS-ES Internal Batteries are not provided, the Bidder's proposal will be deemed compliant.	

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1	2	3	4	5	6	7	8	9
513	TPS-5451	If ISS-ES Internal Batteries are provided, the ISS-ES Internal Batteries must store a charge of 80% of their rated capacity in amp-Hr after 200 charge/discharge cycles.	M	If ISS-ES Internal Batteries are provided as part of the ISS-ES, the Bidder must provide a test report showing that the ISS-ES Internal Batteries can retain 80% of their capacity after 200 recharge cycles. If ISS-ES Internal Batteries are not provided, the Bidder does not need to provide a description.	-	-	If ISS-ES Internal Batteries are provided, the Bidder's proposal will be deemed compliant if the test report proves that the ISS-ES Internal Batteries retain 80% of their capacity after 200 recharge cycles. The following conditions are assumed for this test: ▪ Temperature: 25° ± 10°C ▪ Relative humidity: 20 to 80 percent ▪ Atmospheric pressure: Site pressure If ISS-ES Internal Batteries are not provided, the Bidder's proposal will be deemed compliant.	
514	TPS-367	Power Monitoring						
515	TPS-5452	The ISS Rechargeable Batteries, excluding the Wireless PTT batteries, must include a State of Charge indication on the battery that indicates the ISS Rechargeable Battery's energy level, with the following minimum characteristics: <ul style="list-style-type: none">• Indicate when the battery energy level is low;• Indicate when the battery energy level is between low and high; and• Indicate when the battery energy level is high.	M	The Bidder must describe the State of Charge algorithm and indicator used on the ISS Rechargeable Batteries.			The Bidder's proposal will be deemed compliant if the description includes the following: <ul style="list-style-type: none">• A description of how the ISS Rechargeable Battery's State of Charge is indicated to the User;• A description of the algorithm used to determine the ISS Rechargeable Battery's State of Charge;• A description indicating the energy level range at which the ISS Rechargeable Battery State of Charge provides a low energy level indication;• A description indicating the energy level range at which the ISS Rechargeable Battery State of Charge provides a between low and high energy level indication; and• A description indicating the energy level range at which the ISS Rechargeable Battery State of Charge provides a high energy level indication.	
516	TPS-5453	The ISS Non-Rechargeable Batteries, excluding the Wireless PTT batteries, should include a State of Charge indication on the battery that indicates the ISS Non-Rechargeable Battery's energy level, with the	R	The Bidder should describe the State of Charge algorithm and indicator used on the ISS Non-			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder.	374

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		following minimum characteristics: <ul style="list-style-type: none">• Indicate when the battery energy level is low;• Indicate when the battery energy level is between low and high; and• Indicate when the battery energy level is high.		Rechargeable Batteries.			100% of the points will be given if the description proves the following: <ul style="list-style-type: none">• A description of how the ISS Non-Rechargeable Battery's State of Charge is indicated to the User;• A description of the algorithm used to determine the ISS Non-Rechargeable Battery's State of Charge;• A description indicating the energy level range at which the ISS Non-Rechargeable Battery State of Charge provides a low energy level indication;• A description indicating the energy level range at which the ISS Non-Rechargeable Battery State of Charge provides a between low and high energy level indication; and• A description indicating the energy level range at which the ISS Non-Rechargeable Battery State of Charge provides a high energy level indication.	
517	TPS-1732	For every connected ISS Battery, excluding the Wireless PTT batteries, the ISS S Tactical User Interface must allow the User to see the State of Charge of the connected ISS Battery, indicating the energy level of every connected ISS Battery, with the following minimum characteristics:<ul style="list-style-type: none">• Indicate when the battery energy level is low, in addition to generating an Advisory signal as described in TPS-5482;• Indicate when the battery energy level is between low and high; and• Indicate when the battery energy level is high.	M	The Bidder must describe the ISS Battery State of Charge indicator provided on the Tactical User Interface.	-	-	The Bidder's proposal will be deemed compliant if the description includes the following:<ul style="list-style-type: none">• A description of how the State of Charge of each ISS Battery is indicated to the User via the Tactical User Interface;• A description of the algorithm used to determine every ISS Battery's State of Charge;• A description indicating the energy level range at which the Tactical User Interface indicates that the ISS Battery's State of Charge is low;• A description indicating the energy level range at which the Tactical User Interface indicates that the ISS Battery's State of Charge is between low and high;• A description indicating the energy level range at which the Tactical User Interface indicates	

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1	2	3	4	5	6	7	8	9
							that the ISS Battery's State of Charge is high; and • A description of the Advisory signal that is generated when the ISS Battery's State of Charge is low.	
518	TPS-5454	If ISS-ES Internal Batteries are provided, the User must be able to know the State of Charge of every ISS-ES Internal Battery, indicating the energy level of every ISS-ES Internal Battery, with the following minimum characteristics: • Indicate when the battery energy level is low; • Indicate when the battery energy level is between low and high; and • Indicate when the battery energy level is high.	M	If ISS-ES Internal Batteries are provided as part of the ISS-ES, the Bidder must describe the State of Charge indicator of every ISS-ES Internal Battery that is part of the ISS-ES. If ISS-ES Internal Batteries are not provided, the Bidder does not need to provide a description.	-	-	If ISS-ES Internal Batteries are provided, the Bidder's proposal will be deemed compliant if the description includes the following: • A description of how the State of Charge of every ISS-ES Internal Battery is indicated to the User; • A description of the algorithm used to determine the State of Charge of every ISS-ES Internal Battery; • A description indicating the energy level range at which the ISS-ES Internal Battery State of Charge provides a low energy level indication; • A description indicating the energy level range at which the ISS-ES Internal Battery State of Charge provides a between low and high energy level indication; and • A description indicating the energy level range at which the ISS-ES Internal Battery State of Charge provides a high energy level indication. If ISS-ES Internal Batteries are not provided, the Bidder's proposal will be deemed compliant.	
519	TPS-4748	Connectors and Wired Connectivity						
520	TPS-5337	One common set of ISS-S Connectors and Wired Connectivity Materiel (including all cables and wires) must support all the conceptual loads as defined in Volume 2, Appendix 9 - MLCS Conceptual Load while meeting all ISS-S requirements.	M	The Bidder must describe how their ISS-S Connectors and Wired Connectivity solution can accommodate all the conceptual loads while meeting the requirement.			The Bidder's proposal will be deemed compliant if the description proves that the proposed common set of ISS-S Connectors and Wired Connectivity solution supports all conceptual loads as defined in Volume 2, Appendix 9 - MLCS Conceptual Load.	
524	TPS-5428	The ISS-S must not include any radio frequency	M	The Bidder must describe	-	-	The Bidder's proposal will be deemed compliant	

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		connectivity between ISS-S physical devices except for the Wireless PTT Switch defined in TPS-5027, if provided.		the how the ISS-S physical device achieve data connectivity between each other.			if the description proves that the ISS-S physical devices achieve data connectivity without the use of radio frequencies.	
522	TPS-5176	The ISS-S User must not require any tools to mate and un-mate ISS-S connectors.	M	The Bidder must describe the procedure to be followed by the User to mate and un-mate every ISS-S connector.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the ISS-S connectors can all be mated and unmated without the use of tools.	
523	TPS-4754	The ISS-S connectors, excluding the ISS Non-Rechargeable Battery connector located on the battery, must have a lifetime of at least 2,000 mating cycles without requiring any maintenance.	M	The Bidder must describe the connector types used including the mating cycle specifications for each ISS-S connector.			The Bidder's proposal will be deemed compliant if the description proves that the ISS-S connectors, excluding the ISS Non-Rechargeable Battery connector located on the battery, are designed to support 2,000 mating cycles.	
524	TPS-4755	The ISS-S connectors, excluding the ISS Non-Rechargeable Battery connector located on the battery, should have a lifetime of more than 2,000 mating cycles without requiring maintenance.	R	The Bidder should describe the connector types used including the mating cycle specifications for each ISS-S connector.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder.</p> <p>Scores are based on the number of mating cycles:</p> <ul style="list-style-type: none">• 50%: If the description proves that ISS-S connectors, excluding the ISS Non-Rechargeable Battery connector located on the battery, are designed to support 2,001 mating cycles to 5,000 mating cycles;• 100%: If the description proves that the ISS-S connectors, excluding the ISS Non-Rechargeable Battery connector located on the battery, are designed to support more than 5,001 mating cycles.	728
525	TPS-5177	The ISS-S must provide protection against connecting devices incorrectly.	M	The Bidder must describe the design used to mitigate the risk of causing damage to the ISS-S when mating and un-mating connectors.	-	-	The Bidder's proposal will be deemed compliant if the description proves that, for all ISS-S connectors, the ISS-S is designed such that the ISS-S will not be damaged when: <ul style="list-style-type: none">▪ Attempting to connect an ISS-S connector to	

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1	2	3	4	5	6	7	8	9
							every other ISS-S connector; and • Attempting to connect an ISS-S connector to every other ISS-S connector at an angle where mating is impossible.	
526	TPS-4801	External interfaces						
527	TPS-4909	The ISS-S should include a general purpose USB interface, which is a different physical port than the USB interface referenced in requirement TPS-5419 and not used during ISS-S operation.	R	<p>The Bidder should provide a certificate from a 3rd party test facility (PICS tests) to prove that the ISS-S meets the requirement.</p> <p>If the above certificate cannot be provided, the Bidder should provide a test report <u>showing</u> compliance to USB version 2.0 or later. The Bidder should certify that the device meets the required specifications.</p>			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description or certificate proves that the USB interface complies with the USB standard via the provided test report.	728
528	TPS-4911	The ISS-S should include a general purpose Ethernet interface, which is a different physical port than the Ethernet interface referenced in requirement TPS-5419 and not used during ISS-S operation.	R	<p>The Bidder should provide a certificate from a 3rd party test facility (PICS tests) to prove that the ISS-S meets the requirement.</p> <p>If the above certificate cannot be provided, the Bidder should provide a test report <u>showing</u> compliance to IEEE 802.3. The Bidder should certify that the device meets the required specifications.</p>			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none">• 100% of the points will be given if the Bidder's description or certificate proves that the Ethernet interface complies with the Ethernet standard via the provided test report.	728
529	TPS-99	Sensor						
530	TPS-4970	Digital Camera						

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531	TPS-4795	<p>The ISS-S should import pictures to the ISS-S computer in one of two ways:</p> <ul style="list-style-type: none">• Interface with commercial digital cameras, which allows the ISS-S User to import imagery from at least three (3) commercially available cameras from three (3) different manufacturers; or• Include an integrated digital camera with the below characteristics within the ISS-S:<ul style="list-style-type: none">- Digital zoom of at least x4;- Still imagery resolution of at least 640 pixels by 480 pixels;- A built-in flash;- Allows the ISS-S User to enable and disable the flash;- An automatic picture taking mode (point and shoot);- Allows the ISS-S User to disable all light emissions;- Does not emit any sounds or allows the ISS-S User to disable all emitted sounds; and- An auto off (i.e. shutdown) function.	R	<p>If an interface to commercial digital cameras is provided, the Bidder should provide a detailed description of the interface between the ISS-S and the commercial digital cameras and should provide a list of commercial digital cameras the ISS-S can import imagery from.</p> <p>If an integrated digital camera is provided, the Bidder should provide a detailed description of the integrated camera.</p>			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none">• 100% of the points will be given if an interface to commercial digital cameras is provided and if the Bidder's description proves the ISS-S can import imagery from at least three (3) commercially available cameras from different manufacturers. The description should include the media used to import images, the interface for this media, and a list of commercial digital cameras that the ISS-S can import imagery from. The list of commercial digital cameras should contain at least three (3) commercially available cameras from different manufacturers. A point of contact within each manufacturer should also be provided. <p>Canada reserves the right to verify the information with the manufacturers.</p> <p>Otherwise,</p> <p>If an integrated digital camera is provided:</p> <ul style="list-style-type: none">• 15% of the points will be given if the Bidder's description proves that the integrated digital camera includes a digital zoom of at least x4;• 15% of the points will be given if the Bidder's description proves that the integrated digital camera supports a resolution of at least 640 pixels by 480 pixels;• 15% of the points will be given if the Bidder's description proves that the integrated digital camera includes a built-in flash;• 15% of the points will be given if the Bidder's description proves that the integrated digital camera allows the ISS-S User to enable and	677

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							disable the flash; • 10% of the points will be given if the Bidder's description proves that the integrated digital camera includes an automatic picture taking mode (i.e. point and shoot); • 10% of the points will be given if the Bidder's description proves that the integrated digital camera allows the ISS-S User to disable all light emissions; • 10% of the points will be given if the Bidder's description proves that the integrated digital camera either does not emit any sounds or allows the ISS-S User to disable all emitted sounds; and • 10% of the points will be given if the Bidder's description proves that the integrated digital camera includes an automatic shutdown function.	
532	TPS-4976	CORAL-CR-C						
533	TPS-4486	The ISS-S must physically connect to, operate with and meet the interface specification of the CF in-service AN/PAS-503 CORAL-CR-C HHTI.	M	The Bidder must describe how the ISS-S will connect to the CF in-service AN/PAS-503 CORAL-CR-C HHTI.	-	-	The Bidder's proposal will be deemed compliant if the description details the physical and electrical connectivity and interface that will be provided. The Bidder must also describe what messages will be exchanged, including message formats and protocol.	
534	TPS-5386	The ISS-S should allow the ISS-S User to identify an entity on his/her map display generated by the CORAL-CR-C as one of the following: - A Quick Symbol as specified in TPS-4819; - An Enemy, Friendly, Neutral or Unknown as specified in TPS-1990; - A Tactical Graphic as specified in TPS-2012.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	334
535	TPS-104	System Management						
536	TPS-2962	System Executive and Planning (SEP) Suite						

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537	TPS-3043	The SEP-Suite must be installable and executable on an in-service CF-31 laptop, when operating with Windows XP and when operating with Windows 7, which is its only expected mode of operation.	M	The Bidder must describe the SEP-Suite, including a detailed description of the installation instructions of the SEP-Suite on a CF-31 and the supported applications.			The Bidder's proposal will be deemed compliant if the description proves that the SEP-Suite can be installed and executed on an in-service CF-31 laptop. The description must specify that the SEP-Suite works on an in-service CF-31 laptop operating with Windows XP and Windows 7. The Bidder must also describe the applications of the SEP-Suite.	
538	TPS-5376	The SEP-Suite must be used to plan the configuration of the ISS-S nodes.	M	The Bidder must describe how the SEP-Suite will be used to plan the configuration of the ISS-S nodes.			The Bidder's proposal will be deemed compliant if the description proves that the SEP-Suite is the tool used to configure the ISS-S and the description includes all the parameters that are configured using the SEP-Suite.	
539	TPS-5387	Key Management Planning Tool						
540	TPS-5388	The SEP-Suite must include a Key Management Planning (KMP) tool.	M	The Bidder must describe the SEP-Suite KMP tool.			The Bidder's proposal will be deemed compliant if the description proves that the SEP-Suite includes a Key Management Planning (KMP) tool. The description must include all functionality of the KMP tool.	
541	TPS-2966	Communication Network Planning						
542	TPS-5361	General						
543	TPS-4112	The SEP-Suite must include a Communication Network Planning (CNP) tool that allows the SEP to configure all parameter settings required for proper configuration of the ISS-S nodes.	M	The Bidder must describe the SEP-Suite Communication Network Planning tool. The Bidder must provide a detailed description of the functionality of the CNP tool.			The Bidder's proposal will be deemed compliant if the description proves that the SEP-Suite includes a Communication Network Planning (CNP) tool that allows for the configuration of all parameter settings required for proper configuration of the ISS-S nodes. The description must also indicate all the functionality of the CNP tool including a list of all parameter settings required for configuration.	
544	TPS-1157	The CNP should produce an ISS Network Plan in human readable format that captures all the configuration parameters included in the ISS Network Plan upon request from the SEP.	R	The Bidder should provide a description of the content of an ISS-S Network Plan in human readable format.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the CNP allows the SEP to produce	215

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							an ISS Network Plan in human readable format, including a description of its content.	
545	TPS-2992	Prepare ISS Network Plan						
546	TPS-1132	The SEP must be able to create and save an ISS Network Plan using the ISS Communication Network Planning (CNP) tool.	M	The Bidder must provide a description of how an ISS Network Plan can be created and saved using the ISS CNP.			The Bidder's proposal will be deemed compliant if the description proves that the SEP is able to create and save an ISS Network Plan using the ISS CNP tool.	
547	TPS-3041	The CNP should allow a previous ISS Network Plan to be modified and saved as a new ISS Network Plan.	R	The Bidder should provide a description of how a previous ISS Network Plan can be modified and saved as a new ISS Network Plan.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that it is possible to modify a previous ISS Network Plan and save it as a new ISS Network Plan. 	197
548	TPS-2998	When using the CNP, the SEP must be able to associate a service among the following to each COI: <ul style="list-style-type: none"> • Blue PA; • Data; • Voice. 	M	The Bidder must provide a description of how an ISS Network Plan can be created, including the association of services to specific COIs.			The Bidder's proposal will be deemed compliant if the description proves how the CNP allows the SEP to associate services (Blue PA, Data, Voice) to specific COIs.	
549	TPS-1135	When using the CNP, the SEP must be able to enter Frequencies and IP addresses and other required parameters based on imposed constraints.	M	The Bidder must provide a description of how an ISS Network Plan can be created, including the allocation of Frequencies, IP addresses and any other required parameters.			The Bidder's proposal will be deemed compliant if the description proves how the CNP allows the SEP to enter Frequencies and IP addresses and other required parameters based on imposed constraints. The description must also include a list of all parameters that need to be considered.	
550	TPS-3002	When using the CNP, the SEP must be able to allocate network resources to COIs.	M	The Bidder must provide a description of how an ISS Network Plan can be created, including the allocation of network resources to COIs.	-	-	The Bidder's proposal will be deemed compliant if the description proves how the CNP allows the SEP to allocate network resources to COIs. The description must also specify the network resources that can be allocated to COIs.	
551	TPS-3003	The CNP must allow configuration of spare	M	The Bidder must provide a	-	-	The Bidder's proposal will be deemed compliant	

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		COIs.		description of how an ISS Network Plan can be created, including the configuration of spare COIs.			if the description proves how the CNP allows the SEP to configure spare COIs.	
552	TPS-2999	If the communications network requires configuration of relays, the CNP must allow for planning of relays.	M	The Bidder must provide a description of how an ISS Network Plan can be created, including the configuration of relays.			The Bidder's proposal will be deemed compliant if the description proves how the CNP allows the SEP to plan for relays.	
553	TPS-3008	When using the CNP, the SEP must be able to assign network addresses to the communication devices.	M	The Bidder must provide a description of how an ISS Network Plan can be created, including the assignment of network addresses to the communication devices.	-	-	The Bidder's proposal will be deemed compliant if the description proves how the CNP allows the SEP to assign network addresses to the communication devices.	
554	TPS-4930	The CNP must allow distribution of the ISS Network Plan to the individual ISS-S.	M	The Bidder must provide a description of how an ISS Network Plan can be created, including its distribution to individual ISS-S.			The Bidder's proposal will be deemed compliant if the description proves how the ISS Network Plan is distributed to the individual ISS-S.	
555	TPS-2994	Validation Plan						
556	TPS-3009	The CNP should identify network resource conflicts that are known to prevent the ISS Network to function.	R	The Bidder should describe the Validation Plan functionality of their ISS-S, including all network resources for which conflicts could occur.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves how the CNP provides a method to identify all possible network resource conflicts that could prevent the ISS Network to function.	394
557	TPS-2996	ORBAT						
558	TPS-1162	When using the CNP, the SEP should be able to create an ISS ORBAT based on a predefined list of at least 300 positions that can include the following groups:	R	The Bidder should describe how an ISS ORBAT is created as part of an ISS Network Plan.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description	197

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Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
1	2	3	4	5	6	7	8	9
		<ul style="list-style-type: none"> • Platoon; • Section; • Detachment. <p>Examples of Coy and PI size ORBAT are illustrated in Section 5 of Volume 2, Annex CB, Appendix 10.</p>					proves that the CNP allows the SEP to create an ISS ORBAT based on a predefined list of at least 300 positions including Platoons, Sections and Detachments.	
559	TPS-2997	The ORBAT should be presented in a hierarchical format.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	142
560	TPS-3005	When using the CNP, the SEP should be able to assign ISS-S Users to specific COIs based on the ORBAT.	R	The Bidder should describe how an ISS ORBAT is created and managed as part of an ISS Network Plan.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that ISS-S Users can be assigned to specific COIs based on the ORBAT. 	142
561	TPS-1140	The CNP should provide a way to ensure that all ORBAT positions are included in the ISS Network Plan.	R	The Bidder should describe how an ISS ORBAT is created and managed as part of an ISS Network Plan.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves how the CNP provides a method to ensure all ORBAT positions are included in the ISS Network Plan. 	110
562	TPS-2936	<p>The SEP should be able to use the CNP tool's ORBAT to build multiple platoon-level (i.e. up to 45 nodes) ISS Network Plans.</p> <p>Examples of Coy and PI size ORBAT are illustrated in Section 5 of Volume 2, Annex CB, Appendix 10.</p>	R	The Bidder should describe how multiple platoon-level (i.e. up to 45 nodes) ISS Network Plans are created using the CNP tool's ORBAT.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the SEP is able to build multiple platoon-level ISS Network Plans using the CNP tool's ORBAT. 	197
563	TPS-4929	Alternate ISS Network Plan						
564	TPS-3004	When using the CNP, the SEP should be able to develop an alternate ISS Network Plan using a different part of the frequency spectrum.	R	The Bidder should describe how an alternate ISS Network Plan can be developed using adequate frequencies.			<p>The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:</p> <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves how the SEP can develop an alternate 	67

Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
1	2	3	4	5	6	7	8	9
							ISS Network Plan with adequate frequencies using the CNP.	
565	TPS-4936	When using the CNP, the SEP should be able to distribute the alternate ISS Network Plan using the same mean as for the main ISS Network Plan.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	65
566	TPS-1064	The ISS-S User should be able to select an alternate ISS Network Plan saved on his system without having to restart the system.	R	The Bidder should describe how the ISS-S User can select an alternate ISS Network Plan saved on his system.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves how the ISS-S User can select an alternate ISS Network Plan saved on his system without having to restart the system. 	65
567	TPS-2969	Map Distribution						
568	TPS-5466	If conversion or modification to the maps is required in order to meet TPS-1818, the maps being distributed to individual ISS-S must retain the same level of details and precision as the original maps.	M	The Bidder must describe the complete process defining how the specified maps are imported in the SEP-Suite and distributed to individual ISS-S.			The Bidder's proposal will be deemed compliant if the description proves that the maps being distributed to individual ISS-S retain the same level of details and precision as the original maps even if conversion or modification to the maps is required.	
569	TPS-2968	Battle Management Software Configuration						
570	TPS-1792	Blue PA messages reporting parameters						
571	TPS-1793	When using the SEP-Suite, the SEP should be able to configure the Blue PA reporting in terms of time and distance as specified in TPS-2587 and TPS-4820 with the following settings: 1) Automatic Blue PA reporting based on time = ON/OFF; 2) Time interval value for Blue PA reporting = x seconds.; 3) Automatic Blue PA reporting based on distance = ON/OFF; and 4) Distance interval value for Blue PA reporting = x meters.	R	The Bidder should describe how the Blue PA parameters and settings can be configured.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ol style="list-style-type: none"> 1) The description should prove that the SEP-Suite is able to set the Blue PA reporting to automatic based on time (Time-Based Automation - ON/OFF) = 30% of points. 2) The description should prove that the SEP-Suite is able to set a time value for Blue PA reporting (Time Interval) = 30% of points. 3) The description should prove that the SEP-Suite is able to set the Blue PA reporting to automatic based on distance (Distance-Based 	402

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Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
1	2	3	4	5	6	7	8	9
							Automation - ON/OFF) = 20% of points. 4) The description should prove that the SEP-Suite is able to set a distance value for Blue PA reporting (Distance Interval) = 20% of points.	
572	TPS-1800	The default Time-Based Automation setting should be that Blue PA report messages are sent after the Time interval has passed.	R	The Bidder should describe how the Blue PA parameters and settings can be configured.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the default settings for Time-Based Automation is set to "ON" meaning that Blue PA report messages are sent automatically after the specified time interval has passed.	161
573	TPS-1802	When using the SEP-Suite, the SEP should be able to configure the Blue PA reporting time interval in increments of 5 sec. starting at 5 sec. and up to at least 1 min.	R	The Bidder should describe how the Blue PA parameters and settings can be configured.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the SEP-Suite allows the SEP to configure of the Blue PA reporting time interval in increments of 5 sec. starting at 5 sec. and up to at least 1 min.	40
574	TPS-1806	The default Distance-Based Automation setting should be that Blue PA report messages are sent after the user has travelled passed the Distance interval.	R	The Bidder should describe how the Blue PA parameters and settings can be configured.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the default settings for Distance-Based Automation is set to "ON" meaning that Blue PA report messages are sent automatically after the specified distance interval has passed.	161
575	TPS-1808	When using the SEP-Suite, the SEP should be able to configure the Blue PA reporting distance interval in increments of 5 m starting at 5 m and up to at least 50 m.	R	The Bidder should describe how the Blue PA parameters and settings can be configured.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the SEP-Suite allows the SEP to configure the Blue PA reporting distance interval in increments of 5 m starting at 5 m and up to at least 50 m.	40

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Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
1	2	3	4	5	6	7	8	9
576	TPS-5401	Configuration Application Software						
577	TPS-4034	The ISS-S User should be able to measure and analyze the total message traffic within COIs and provide traffic analysis to determine operational status and isolate operational irregularities.	R	The Bidder should describe the Configuration Application Software applications that run on the ISS-S, including message traffic analysis.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the ISS-S User is able to measure and analyze the total message traffic within COIs including traffic analysis to determine operational status and isolate operational irregularities.	53
578	TPS-1066	The ISS-S User should be able to monitor data transfer progress.	R	The Bidder should describe the Configuration Application Software applications that run on the ISS-S, including the data transfer progress.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the ISS-S User is able to monitor data transfer progress.	53
579	TPS-1109	The ISS-S User should be able to perform an automated network connectivity test on any COI.	R	The Bidder should describe the Configuration Application Software applications that run on the ISS-S, including the network connectivity test application.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the ISS-S User is able to perform an automated network connectivity test on any COI.	151
580	TPS-4938	The Automated network connectivity test should verify that data can be sent and received to and from all ISS-S registered on the COI.	R	The Bidder should describe the Configuration Application Software applications that run on the ISS-S, including the network connectivity test application.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: • 100% of points if the Bidder's description proves that the Automated network connectivity test verifies that data can be sent and received to and from all ISS-S registered on the COI.	151
581	TPS-2963	User Profile						
582	TPS-5468	The ISS-S User should be assigned a specific User Profile based on his/her specific configuration parameters.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	193
583	TPS-5144	The ISS-S access control should store multiple "User Profile" while only allowing a single profile	R	The Bidder should describe how the concept of User			The proposal will be evaluated and scored as indicated based on the description provided by	193

Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
1	2	3	4	5	6	7	8	9
		to be active at any given time.		Profile is managed by their ISS-S and what are the parameters and settings that are associated with a specific User Profile.			the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description proves that the access control mechanism can store multiple "User Profiles" on an ISS-S while only allowing one of these profiles to be active at any given time. The description should also specify how to activate a stored "User Profile", perform some number of user functions, deactivate the currently active "User Profile", activate a new "User Profile" and perform some other functions under the new user profile.	
584	TPS-1055	The ISS-S User must be able to view a list of all COIs he can select.	M	The Bidder must describe the parameters and settings and ISS-S User can select and modify locally.	-	-	The Bidder's proposal will be deemed compliant if the description proves that the ISS-S User is able to view a list of all COIs he can select.	
585	TPS-1058	The ISS-S User must be able to join and leave any COI from the list of COIs.	M	The Bidder must describe the parameters and settings and ISS-S User can select and modify locally.			The Bidder's proposal will be deemed compliant if the description proves that the ISS-S User is able to join and leave any COI from the list of COIs.	
586	TPS-2933	Upon log-in, the ISS-S User should be able to select their ORBAT position based on a predefined list of positions.	R	The Bidder should describe the parameters and settings and how the ISS-S User can select and modify locally.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description describes the parameters and settings related to selecting an ORBAT position and proves that the ISS-S User is able to select his ORBAT position without rebooting the system.	193
587	TPS-4183	The ISS-S User should be able to modify his ORBAT position based on a predefined list of positions without rebooting the system.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	193
588	TPS-4926	Configuration Files						
589	TPS-3015	All parameters configured using the SEP-Suite should be distributed using Configuration Files.	R	The Bidder should describe the concept of Configuration Files as part of the SEP-Suite.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">• 100% of points if the Bidder's description	101

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Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
1	2	3	4	5	6	7	8	9
							proves that all parameters configured using the SEP-Suite are distributed using Configuration files.	
590	TPS-4931	The CNP should allow distribution of the ISS Network Plan to the individual ISS-S by saving it in a Configuration File.	R	The Bidder should describe the concept of Configuration Files as part of the SEP-Suite.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the CNP allows distribution of the ISS Network Plan to the individual ISS-S by saving it in a Configuration File. 	101
591	TPS-4933	When using the SEP-Suite, the SEP should be able to transfer Configuration files to an External Data Storage Device.	R	The Bidder should describe the concept of Configuration Files as part of the SEP-Suite, including how they can be transferred.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the SEP-Suite allows the SEP to transfer Configuration Files to an External Data Storage Device. 	101
592	TPS-1083	The ISS-S User should be able to transfer Configuration Files between the Main and External Data Storage Devices.	R	The Bidder should describe the concept of Configuration Files as part of the ISS-S, including how they can be transferred.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the ISS-S allows the ISS-S User to transfer Configuration Files between the Main and External Data Storage Devices. 	101
593	TPS-2977	The ISS-S User should be able to configure his ISS-S using Configuration Files saved on his Main Data Storage.	R	The Bidder should describe the concept of Configuration Files as part of the SEP-Suite, including the configuration of individual ISS-S using Configuration Files.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the ISS-S User is able to configure his ISS-S using Configuration Files saved on the Main Data storage. 	93
594	TPS-1081	The ISS-S User should be able to view the current Configuration File identifier and time-stamp.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	93
595	TPS-3033	The ISS-S User should be able to transfer	R	The Bidder should confirm			100% of the points will be given if the Bidder is	93

Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
1	2	3	4	5	6	7	8	9
		Configuration Files to other ISS-S over-the-air.		his compliance.			Compliant to this requirement.	
596	TPS-1103	The ISS-S User should be able to review the configuration settings included in Configuration Files, in human readable form, to verify completeness.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	93
597	TPS-5417	LCSS Data Interoperability						
598	TPS-5418	Data Infrastructure						
599	TPS-5419	The ISS-S must include an LCSS interface in the form of an IEEE 802.3 Ethernet port or a USB port for data exchange with the LCSS.	M	The Bidder must describe the standardized testing used to ensure compliance to IEEE 802.3 or USB version 2.0 or later.			The Bidder's proposal will be deemed compliant if the description proves that the interface complies with the Ethernet IEEE 802.3 standard or USB version 2.0 or later via the provided test report.	
600	TPS-1544	Battle Management System						
601	TPS-878	The ISS-S applications using the LCSS interface should support Differentiated Services Code Points in packets (as defined in IETF RFC 2474, 2475 and 3260) for integration with the Land Command Support System (LCSS).	R	The Bidder should describe the implementation of DiffServ in their product.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none">100% of the points will be given if the Bidder's description describes the implementation of DiffServ in their product, including the number of DiffServ levels supported, any queuing mechanisms that are used, and how the DiffServ implementation could be used by an external network. The description should also prove which entity sets the DiffServ bits and what criteria they use to set the bits.	505
602	TPS-2650	Communications						
603	TPS-3929	Networking						
604	TPS-5421	The ISS-S LCSS Interface should allow system management to reconfigure the system to interoperate with other IETF IPv4-compliant network equipment using standard IPv4 unicast address spaces other than those defined in IETF RFC 1918.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	505
605	TPS-5423	The ISS-S LCSS Interface must support the User Datagram Protocol (UDP) as defined in	M	The Bidder must provide a description of the UDP/IP	-	-	The Bidder's proposal will be deemed compliant if the description describes the ISS-S networking	

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Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
1	2	3	4	5	6	7	8	9
		IETF STD 0006 and Internet Protocol as defined in IETF STD 0005.		networking capabilities of their ISS-S solution.			capabilities. The description must include the IETF RFCs and STDs that the proposed ISS-S solution will support. The description must prove evidence that the proposed ISS-S will be able to support UDP/IP networked communications. Any routing or switching schemes and network protocols provided to support UDP/IP networking must be described.	
	TPS Evaluation Score							58529

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APPENDIX 2 TO ANNEX CC TO VOLUME 1

ISS – A Technical Performance Evaluation (TPE) Compliance Matrix

| This Appendix contains the requirements compliance matrix that will be used to assess the Bidder's proposal.

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1 Performance Evaluation (PE) Evaluation Criteria

1.1 The Table 1 will be used by Canada to determine if the Bidders meet the requirements of the RFP article 3.3 to Appendix 2 to Annex CB to Volume 1. If any of the mandatory requirements in article 3.3 are not met, the Contracting Authority (CA) will so inform the Bidder and provide the Bidder forty-eight (48) hours from 8 pm local time on the date of delivery of the Bidder's container(s) to meet all the mandatory requirements. Failure to comply with the request of the CA and meet all mandatory requirements within that time period will render the bid non-responsive.

Deleted: <#>Performance Evaluation (PE) Point Rated Evaluation Criteria¶

<#>The Bidder's proposal "Section II – Technical Bid - Performance Evaluation (PE)" is evaluated on the basis of mandatory requirements only. There are no Point Rated evaluation criteria¶

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Table 1 – Performance Evaluation (PE) Requirements Compliance Matrix

Serial	RFP Reference	Requirement	When Deliverable to be provided	For use by Canada
				Compliance (Compliant / not compliant / not provided)
1	RFP Vol 1 Appendix 2 Annex CB, para 3.3.1.1	The Bidder must deliver 10 proposed ISS-S systems (referred to as the P (Bid) System) excluding the DAGR Interface Cables, the CORAL-CR-C Interface Cables and the LCSS Radio Interface Cable Sets. The P(Bid) Systems delivered <u>should</u> match the Equipment Breakdown Structure (EBS as defined in Volume 2 Annex CC Appendix 2) except for the exclusions noted above.	As per Vol 1 2.6.4	
2	RFP Vol 1 Appendix 2 Annex CB, para 3.3.1.2	The Bidder must deliver 24 MLCS Platforms - twelve (12) of small size and twelve (12) of medium size	As per Vol 1 2.6.4	
3	RFP Vol 1 Appendix 2 Annex CB, para 3.3.1.3	The Bidder must deliver twelve (12) sets of MLCS ISS pouches	As per Vol 1 2.6.4	
4	RFP Vol 1 Appendix 2 Annex CB, para 3.3.1.4	The Bidder <u>should</u> deliver 3 complete inventory list of all equipment supplied containing applicable serial numbers and software versions	As per Vol 1 2.6.4	
5	RFP Vol 1 Appendix 2 Annex CB, para 3.3.1.5	The Bidder must deliver one proposed SEP-Suite software	As per Vol 1 2.6.4	

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Serial	RFP Reference	Requirement	When Deliverable to be provided	For use by Canada
				Compliance (Compliant / not compliant / not provided)
		on a CD/DVD.		
6	RFP Vol 1 Appendix 2 Annex CB, para 3.3.1.6	The Bidder must deliver one laptop with the SEP-Suite software installed, and all hardware that is required by the SEP-Suite to configure the ISS-S.	As per Vol 1 2.6.4	
7	RFP Vol 1 Appendix 2 Annex CB, para 3.3.1.7	The Bidder should deliver one copy of the Equipment Breakdown Structure (EBS), prepared in accordance with DID CM-005 found in Volume 2 Annex CC Appendix 2, which represents the above P(Bid) system.	As per Vol 1 2.6.4	
8	RFP Vol 1 Appendix 2 Annex CB, para 3.3.1.8	The Bidder should deliver the proposed ISS-S systems in a single container or series of lockable containers which should be clearly identified by company name.	As per Vol 1 2.6.4	
9	RFP Vol 1 Appendix 2 Annex CB, para 3.3.1.9	The Bidder must deliver the P(BID) to the designated Canadian Forces Base on the date and location stated in the PE invitation in accordance with article 2.6.4 of Volume 1, Invitations to PE activities.	As per Vol 1 2.6.4	
10	RFP Vol 1 Appendix 2 Annex CB, para 3.3.2	For the purpose of the PE, <ul style="list-style-type: none"> The MLCS' main fabric, binding tapes, webbing and all other MLCS materials must be submitted in monochrome colour Coyote Brown or a close visual match to Coyote Brown; the 1000 denier Cordura must be a commercially available cloth in accordance with Mil-C-43734D Class 3 	As per Vol 1 2.6.4	

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APPENDIX 3 TO ANNEX CC TO VOLUME 1

ISS - A P (Bid) Evaluation Compliance Matrix

This Appendix details how the P (Bid) Evaluation will be conducted and scored.

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1. P (Bid) Evaluation Points Allocation

1.1 Points for the overall Technical Performance Specifications (TPS) are distributed between the TPS Written Evaluation and the P(Bid) Evaluation as illustrated in Figure 1 of Annex CC.

2. Conduct of P (Bid) Evaluation

2.1 Preparation for the P (Bid) Evaluation is specified in RFP Volume 1 Appendix 2 to Annex CB.

2.2 The P (Bid) Evaluation has been designed to evaluate the Bidder's compliance with selected requirements from the Technical Performance Specification that can be verified or evaluated through a practical, hands-on activity: i.e. visual inspection, test or demonstration of function. Column 5 of the Compliance Matrix indicates the evaluation method.

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2.3 For those requirements designated as Visual Inspection, the Evaluation Team will conduct the evaluation. For those designated as Demonstration of Function, the Bidder must perform the activity as specified in Column 6. For those requirements designated as Test of Function, the Bidder or the Evaluation Team will perform the test as specified in Column 6.

3. Scoring Methodology

3.1 The P (Bid) Evaluation Compliance Matrix is made up of requirements extracted from the Technical Performance Specification (TPS) at RFP Appendix 1 to Annex CB to Volume 2 that are best evaluated in a practical manner.

3.2 Evaluation will take the form of a visual inspection by Canada, a demonstration of the function by the Bidder, or the performance of a test of the function by the Bidder or by Canada to ensure a minimum level of compliance of the P (Bid) System with Mandatory requirements and to determine a resulting score for those requirements that are Rated.

3.3 For the P (Bid) Evaluation, failure to pass the Mandatory requirements specified in the Table 1 Compliance Matrix will result in a non-compliant bid.

3.4 The P (Bid) Evaluation point allocation is made up from those requirements that are point Rated. The Evaluation Criteria and Scale are specified in Column 7, with the Maximum possible score indicated in Column 8 (Max Score) of the Table 1 Compliance Matrix.

3.5 The total of all assigned requirement scores will make up the P (Bid) Evaluation portion of the Technical Evaluation. This Total Score will be entered into RFP Volume 1 Annex CJ.

4. P (Bid) Evaluation Compliance Matrix

4.1 The P (Bid) Evaluation Compliance Matrix is attached as Table 1.

TABLE 1 – Section II – ISS-A P (Bid) Evaluation Compliance Matrix

1	2	3	4	5	6	7	8	
Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score	
1	TPS-2483	The ISS-S must include a Tactical User Interface.	M	P(Bid) Visual Inspection	As part of its ISS-S solution, the Bidder must show that a Tactical User Interface is present including display and controls. The ISS-S does not need to be activated at this point (“ON”).	The Bidder's proposed ISS-S will be deemed compliant if the inspection proves that a Tactical User Interface is part of their ISS-S.		Formatted: Strikethrough
2	TPS-2482	The Tactical User Interface must not be head or helmet mounted.	M	P(Bid) Visual Inspection	The Bidder must show where the Tactical User Interface is to be worn including all possible configurations.	The Bidder's proposed ISS-S will be deemed compliant if the inspection proves that the Tactical User Interface is not head or helmet mounted.		Formatted: Strikethrough
3	TPS-4099	If a hard keyboard solution is provided for the Text Entry capability, it must be integrated in the same casing as the display.	M	P(Bid) Visual Inspection	The Bidder must show that the hard keyboard, if provided, is integrated in the same casing as the display.	The Bidder's proposed ISS-S will be deemed compliant if the inspection proves that the hard keyboard is integrated in the same casing as the display. The Bidder's proposal will also be deemed compliant if the inspection proves that the solution provided for the Text Entry capability is a soft keyboard.		Formatted: Strikethrough
4	TPS-4307	Headbands and neckbands must not be part of the ISS-S Audio Display.	M	P(Bid) Visual Inspection	The Bidder must show how the Audio Display is to be worn and that the Audio Display does not require headbands and neckbands to be worn.	The Bidder's proposed ISS-S will be deemed compliant if the inspection proves that the Audio Display does not require headbands and neckbands to be worn.		Formatted: Strikethrough
5	TPS-1816	When using the CNP, the SEP must be able to plan and distribute an ISS Network Plan with all ISS-S devices starting from a blank state (no IP address or User name) and achieving a fully operational network where all ISS-S can exchange voice and data over-the-air.	M	P(Bid) Demonstration of Function	Demonstrations for Serial 5, 6 and 7 are to be performed such that when completed, the 5 x ISS-S are configured according to the ISS Network Plan and are ready to perform Serial 8 to Serial 59 .			Formatted: Highlight
					The Bidder must demonstrate that the ISS-S Nodes, in their current state, are not configured would not be able to perform the demonstrations included in this P(Bid) Evaluation Compliance Matrix unless they get configured.			Formatted: Highlight
					The Bidder must use the Communication Network Planning tool, as part of the SEP Suite. The Bidder must allocate frequencies, IP addresses and any other parameters necessary to configure the ISS-S in order to perform Serial 8 to Serial 59 . The Bidder must specify and demonstrate how all parameters need to	The Bidder's proposed ISS-S will be deemed compliant with TPS-1816, if the Bidder is also compliant with all Mandatory requirements and supported Rated requirements from Serial 38 to Serial 59 inclusively.		Formatted: Highlight
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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
					be entered in the CNP.		
6	TPS-1139	When using the CNP, The SEP must be able to create and give unique names to all COIs in the ISS Network Plan.	M	P(Bid) Demonstration of Function	Using the CNP, the Bidder must create COIs and assign unique names to each COI as part of the ISS Network Plan. COIs to be created are as follows: - Voice COI A: Node 1, Node 2, Node 3 - Voice COI B : Node 1, Node 4, Node 5 - Data COI C : Node 1, Node 2, Node 3, Node 4 - Blue PA COI: Node 1, Node 2, Node 3, Node 4 These COIs are to be used throughout the demonstration.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that the CNP allows the SEP to create and give unique names to all COIs in the ISS Network plan.	
7	TPS-5478	In the simple configuration, the ISS-S must provide voice service to enable the individual soldier to communicate vocally through the ISS-CS radio while only the physical devices hosting the ISS-CS, the ISS-S Audio Display, and the ISS battery(ies) required to power those physical devices are operational and worn by the User while meeting the following requirements: • All mandatory requirements in section TPS-94 (Audio Display) • If a Wireless PTT is provided, all provided requirements in section TPS-5027 (Audio Display - Wireless PTT Switch) • All mandatory requirements in section TPS-247 (Communication - User Services - Voice) with the exception of the following: a) TPS-2638: Only 2 voice COIs must be programmed b) TPS-847: Only 2 voice COIs must be programmed	M	P(Bid) Demonstration of Function	The Bidder must configure Node 5 as per TPS-5478 such that only the physical devices hosting the ISS-CS, the ISS-S Audio Display and the ISS battery(ies) required to power those physical devices are operational and worn by the User. It is then expected that Node 5 will not be able to transmit and receive data including Blue PA messages. It is also expected that Node 5 can only be part of Voice COI B.	The Bidder's proposed ISS-S will be deemed compliant with TPS-5478, if the Bidder is also compliant with all Mandatory requirements and supported Rated requirements from Serial 38 to Serial 59 inclusively.	
8	TPS-2523	The ISS-S computer hosting the BMS application must go from a completely turned off state to a state where BMS applications can	M	P(Bid) Test of Function	In order to perform Serial 8, Node 1 must be shut down at this stage. The Bidder must perform a cold start of Node 1. The Bidder must power on the ISS-S computer of Node 1 hosting the BMS application at which time the Evaluation team starts the test using a digital stop	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that the cold start is completed in 120 seconds or less.	

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
		be accessed (cold start) in 120 seconds or less, excluding the time required by the User to enter his log-in information.			watch: —The stop watch is stopped during the login procedure if a login procedure is provided. —The Bidder must launch an application and use the application. —The Evaluation Team stops the stop watch when the application is launched and operations can be performed using the application. The digital stop watch is provided by DND.		
9	TPS-2507	The Tactical User Interface must have a control to turn off the display without shutting down the ISS-S.	M	P(Bid) Demonstration of Function	Node 1 must turn off the Tactical User Interface display without shutting down the system and indicate how the User can turn off the display. Node 1 must power on the display.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that the Tactical User Interface has a control to turn off the display without shutting down the system.	
10	TPS-1818	When using the SEP Suite, the SEP must be able to import the maps defined in TPS-1921and distribute them to individual ISS-S.	M	P(Bid) Demonstration of Function	The Bidder must import the following maps in the SEP-Suite. - 1 x CADRG Map (DSSPM Data Files - Evaluation Area Maps: TBD ...); - 1 x GeoPDF Map (DSSPM Data Files - Evaluation Area Maps: TBD ...); and - 1 x GeoTiff Map (DSSPM Data Files - Evaluation Area Maps: TBD ...). The Bidder must then distribute the maps to Node 1, Node 2, Node 3 and Node 4 and the maps must be saved on the Main Data Storage of each system. The maps to be distributed to individual ISS-S can have been converted or modified using the SEP Suite.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that the maps have been imported in the SEP Suite and distributed to the specified Nodes.	
11	TPS-3098	The following ISS-S control device(s) should be operable with one hand: <ul style="list-style-type: none">• Voice exchange using the Wired PTT;• Zoom-in and zoom-out of a map;• Generate and transmit a quick symbol;• Local zeroize; and• Adjust Tactical User Interface Display luminance.	R	P(Bid) Demonstration of Function	Node 1 should prove that the luminance of the Tactical User Interface can be adjusted using one hand only. Node 1 should vary the luminance of the Tactical User Interface to its minimum and maximum levels using one hand.	The proposed ISS-S will be evaluated and scored as indicated based on the demonstration provided by the Bidder: 100% of the points will be given if Node 1 was able to vary the luminance of the Tactical User Interface using one hand only.	10
12	TPS-5379	The ISS-S must include an integrated electronic compass.	M	P(Bid) Demonstration of Function	Node 1 must display the ISS-S electronic compass. Node 1 must point the electronic compass to the North. The Bidder must point the electronic compass to the East, South and West. The Evaluation Team is to compare the results for each direction with a magnetic compass.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that the ISS-S electronic compass points approximately in the same direction as a magnetic compass.	

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
					The intent of the Demonstration of TPS-5379 is to ensure that the ISS-S electronic compass is working properly and points approximately in the same direction as a magnetic compass.		
					The magnetic compass is provided by DND.		
13	TPS-731	The Map display capability must support and display, Compressed ARC Digitized Raster Graphics (CADRG), GeoTIFF and GeoPDF, either by: • Supporting and Display the above map formats in their native format; or • Supporting and Displaying a custom map that includes the information from the above formats as described in TPS-5466.	M	P(Bid) Demonstration of Function	<div>The demonstration of Serial 13 can be executed in two different ways.</div> <div><div>1. If modification or conversion of the maps using the SEP Suite is required in order to distribute them to individual ISS-S, then:<ul style="list-style-type: none">- Node 1 must first load and display the custom CADRG map visible on the Tactical User Interface display. An Evaluation Team member is to observe and ensure that the map is visible on the display.- Node 1 must then replace the custom CADRG map by the custom GeoPDF map such that only the custom GeoPDF map is visible on the Tactical User Interface display. An Evaluation Team member is to observe and ensure that the map is visible on the display.- Node 1 must replace the custom GeoPDF map by the custom GeoTIFF map such that only the custom GeoTIFF map is visible on the Tactical User Interface display. An Evaluation Team member is to observe and ensure that the map is visible on the display.</div><div>2. If no modification or conversion is required using the SEP Suite, maps must be distributed as per Serial 10. Hence:<ul style="list-style-type: none">- Node 1 must first load the CADRG map such that it is visible on the Tactical User Interface display. An Evaluation Team member is to observe and ensure that the map is visible on the display.- Node 1 must then replace the CADRG map by the GeoPDF map such that only the GeoPDF map is visible on the Tactical User Interface display. An Evaluation Team member is to observe and ensure that the map is visible on the display.- Node 1 must replace the GeoPDF map by the GeoTIFF map such that only the GeoTIFF map is visible on the Tactical User Interface display. An Evaluation Team member is to observe and ensure that the map is visible on the display.</div></div> <div>The GeoTIFF map (or custom GeoTiFF map) is to be used for the remainder of the Evaluation.</div>	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that the ISS-S Map Display capability supports the following map formats either in their native formats or in formats customized using the SEP Suite: CADRG, GeoPDF and GeoTIFF by being displayed individually on the Tactical User Interface display.	
14	TPS-4109	The Map display capability must support the display of grid lines.	M	P(Bid) Demonstration of Function	Using the GeoTIFF map as per Serial 13, Node 1 must demonstrate that grid lines, both horizontal and vertical, are present on the map.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that the Map display capability	

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
						supports the display of grid lines.	
15	TPS-1343	Based on the calculation to meet requirement TPS-582, the ISS-S User must be able to display an indicator showing the True North whenever the map is displayed.	M	P(Bid) Demonstration of Function	Using the GeoTIFF map as per Serial 13, Node 1 must demonstrate that an indicator showing the true north can be shown. Node 1 must lay the ISS-S on a flat surface (table) with the indicator displayed. An Evaluation Team member is to lay alongside, and no more than 50 cm from the ISS-S, a calibrated magnetic compass. The magnetic compass is provided by DND.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that the ISS-S indicator showing true north is pointing approximately in the same direction as the magnetic compass.	
16	TPS-1463	By default, the Map display functionality must display maps oriented with the North facing up on the screen.	M	P(Bid) Demonstration of Function	Using the GeoTIFF map as per Serial 13, Node 1 must show that the map is oriented such that the North is facing the top of the display when a user operates it. Node 1 must display the indicator on the map display as per the demonstration of TPS-1343 and execute the four following steps: - Node 1 must face North. - Node 1 must turn approximately 90 degrees to the right with the ISS-S facing in the same direction. - Node 1 must turn approximately 90 degrees to the right with the ISS-S facing in the same direction. - Node 1 must turn approximately 90 degrees to the right with the ISS-S facing in the same direction. Node 1 must show the display to an Evaluation Team member for every step.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that for every outlined step, the map is oriented such that the North is facing the top of the display.	
17	TPS-1714	The ISS-S User must be able to display a Graphic Scale on the map that adjusts itself based on the level of zoom.	M	P(Bid) Demonstration of Function	Using the GeoTIFF map as per Serial 13, Node 1 must be able to display the graphic scale. The ISS-S User must zoom in at three different levels.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that for every zoom level, the graphic scale adjusts itself.	
18	TPS-553	The zooming functionality must provide sufficient zooming such that an area of 10000 square meters or less makes maximum use of the map display.	M	P(Bid) Demonstration of Function	Using the GeoTIFF map as per Serial 13, Node 1 must zoom in such that an area of 10000 square meters or less makes maximum use of the map display. Node 1 must use the graphic scale to determine what the size of the visible area on the Tactical User Interface display is.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that the zooming functionality provides sufficient zooming such that an area of 10000 square meters or less makes maximum use of the map display.	
19	TPS-3098	The following ISS-S control device(s) should be operable with one hand: • Voice exchange using the Wired PTT;	R	P(Bid) Demonstration of Function	TPS-3098 is to be evaluated as part of the demonstration of TPS-2692. As such, the Bidder should prove that the procedure of TPS-2692 can be done with one hand while holding a book in the other hand.	The proposed ISS-S will be evaluated and scored as indicated based on the demonstration provided by the Bidder: 100% of the points will be given if the demonstration of TPS-2692 was	10

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
		<ul style="list-style-type: none">• Zoom-in and zoom-out of a map;• Generate and transmit a quick symbol;• Local zeroize; and• Adjust Tactical User Interface Display luminance.				completed using one hand only.	
20	TPS-2692	The zooming functionality must provide sufficient zooming out so that it is possible to display a map area of at least 225 square kilometres.	M	P(Bid) Demonstration of Function	Using the GeoTIFF map as per Serial 13 , Node 1 must zoom out such that an area of at least 225 square kilometres can be displayed. Node 1 must use the graphic scale to determine what the size of the area that is visible on the Tactical User Interface display is.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that the zooming functionality provides sufficient zooming out so that it is possible to display a map area of at least 225 square kilometres.	
21	TPS-750	The map display functionality must have a Pan capability.	M	P(Bid) Demonstration of Function	Using the GeoTIFF map as per Serial 13, Node 1 must zoom in at the maximum level. Node 1 must then use the pan function such that the most western edge of the map is displayed on the Tactical User Interface. Node 1 must also use the pan function such that the most eastern edge of the map is displayed on the Tactical User Interface.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that the map display functionality allows Node 1 to pan to the most western and eastern edges of the map.	
22	TPS-3930	The Tactical User Interface must include a Touch Screen interface.	M	P(Bid) Demonstration of Function	TPS-3930 is to be evaluated as part of the demonstration of TPS-2948. As such, Node 1 must complete the Demonstration of TPS-2948 using the Touchscreen interface.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration of TPS-2948 is successfully executed using the Touchscreen interface.	
23	TPS-2948	The ISS-S User must be able to display the MGRS 10 figure grid reference with UTM map reference of any selected waypoints, entities or points on the map.	M	P(Bid) Demonstration of Function	Using the GeoTIFF map as per Serial 13 , Node 1 must add the following items anywhere on the map with a separation of no more than 1km between each items: <ul style="list-style-type: none">- a waypoint; and- a black triangle (Quick Symbols). Node 1 can delete the two items.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that Node 1 is able to display the MGRS 10 figure grid of the UTM map coordinate system of the two items.	
24	TPS-1691	The ISS-S must include a Route Planning function that allows the ISS-S User to create routes by inputting and linking waypoints together.	M	P(Bid) Demonstration of Function	Node 1 must create a route called "Main Route" by creating 4 different waypoints. Node 1 must display "Main Route" on the map. Node 1 must also save "Main Route" to the Main data storage. Node 1 must create a second route called "Alt Route" by creating 3 different waypoints. Node 1 must display "Alt Route" on the map. Node 1 must also save "Alt Route" to its Main data storage. TPS-1692 is evaluated as part of this procedure.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that Node 1 is able to display both routes "Main Route" and "Alt Route" on the map display.	
25	TPS-2546	The Tactical User Interface must include a Text Entry capability.	M	P(Bid) Demonstration	As part of the demonstration of TPS-1691, Node 1 must use the Text Entry capability in order to assign different names to the two routes created and save	The Bidder's proposed ISS-S will be deemed compliant if the demonstration	

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
				of Function	them to the Main data storage.	proves that Node 1 uses the Text Entry capability to assign different names to the two routes created.	
26	TPS 1692	The ISS-S User must be able to save multiple Routes on the Main Data Storage.	M	P(Bid) Demonstration of Function	The first route is to be saved on the Main data storage and named “Main Route”. The second route is to be saved on the Main data storage and named “Alt Route”.	The Bidder's proposed ISS-S will be deemed compliant if the Bidder is also compliant with the demonstration of TPS-1692 at Serial 26 and at Serial 33 .	
27	TPS-2708	The ISS-S must support Hand Drawing Graphical data types by allowing the ISS-S User to draft tactical sketches, as per Section 4 of Annex CB, Appendix 10, whenever the map is displayed.	M	P(Bid) Demonstration of Function	The Bidder must demonstrate that a Hand Drawing function is present. Node 1 must produce on a map the following two Hand Drawings as per Appendix 10 of Volume 2, Annex CB: - “Right Flanking”; and - “Left Flanking”. The Bidder must demonstrate how to access and operate the Hand Drawing capability.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that Node 1 is able to display both Hand Drawings on the map display.	
28	TPS-2610	The ISS-S User must be able to save multiple Hand Drawings on the Main Data Storage.	M	P(Bid) Demonstration of Function	The first Hand Drawing is to be saved on the Main data storage and named “Right Flanking”. The second Hand Drawing is to be saved on the Main data storage and named “Left Flanking”.	The Bidder's proposed ISS-S will be deemed compliant if the Bidder is also compliant with the demonstration of TPS-2610 at Serial 28 and at Serial 34 .	
29	TPS 3930	The Tactical User Interface must include a Touch Screen interface.	M	P(Bid) Demonstration of Function	TPS 3930 is to be evaluated as part of the demonstration of TPS 4822. As such, Node 1 must generate the symbols using the Touchscreen interface.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration of TPS 4822 is successfully executed using the Touchscreen interface.	
30	TPS 4822	The ISS-S must support Quick Symbols Graphical data types by allowing the ISS-S User to generate, display and manage the following Quick Symbols: • Yellow Circle; • Green Square; • Red Diamond; • Black Triangle; • Blue Rectangle	M	P(Bid) Demonstration of Function	Using the GeoTIFF map as per Serial 13, Node 1 must generate anywhere on the map the five Quick Symbols in the following manner: – Yellow Circle anywhere on the map; – Green Square approx. 200 m North-West of Yellow Circle; – Red Diamond approx. 200 m North-East of Yellow Circle; – Black Triangle approx. 200 m South-East of Yellow Circle; and – Blue Rectangle approx. 200 m South-West of Yellow Circle. The Bidder must demonstrate how to access and operate the Quick Symbols. The symbols must be deleted once the demonstration of this requirement is completed.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that Node 1 must be able to display the five Quick Symbols.	
31	At this stage of the P (Bid) Evaluation, the Bidder is to move outdoor, as instructed by the Evaluation Team, in order to proceed with the P (Bid) Evaluation. All Nodes must shut down their ISS-S before going outside. Once outside, Node 1 must power on his/her ISS-S and display the GeoTIFF map as per Serial 13 . It is expected that Node 1 has kept its configuration and no intervention using the SEP-Suite is required.						

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
32	TPS-5378	Once the ISS-S nodes are configured, the SEP-Suite must not be required to operate the ISS-S.	M	P(Bid) Demonstration of Function	Once Node 1 is powered on, it must be operational and ready to perform the demonstrations of Serial 33 to Serial 59 without the use of the SEP-Suite under any circumstances. Once Node 2, Node 3, Node 4 and Node 5 are powered on, they must be operational and ready to perform the demonstrations of Serial 38 to Serial 59 without the use of the SEP-Suite under any circumstances.	The Bidder's proposed ISS-S will be deemed compliant with TPS-5378, if the Bidder is able to execute all requirements from Serial 33 to Serial 59 inclusively for Node 1 and from Serial 38 to Serial 59 for Node 2, Node 3, Node 4 and Node 5 without the use of the SEP-Suite.	
33	TPS 1692	The ISS-S User must be able to save multiple Routes on the Main Data Storage.	M	P(Bid) Demonstration of Function	In order to prove that "Main Route" and "Alt Route" have been saved on the Main data storage as per the demonstration of TPS-1691, Node 1 must load both routes such that they are visible on the map display. Node 1 must remove both routes from the map display.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that Node 1 has loaded both routes such that they are visible on the map display.	
34	TPS-2610	The ISS-S User must be able to save multiple Hand Drawings on the Main Data Storage.	M	P(Bid) Demonstration of Function	In order to prove that "Right Flanking" and "Left Flanking" have been saved on the Main data storage as per the demonstration of TPS-2708, Node 1 must load both Hand Drawings such that they are visible on the map display. Node 1 must remove both Hand Drawings from the map display.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that Node 1 has loaded both Hand Drawings such that they are visible on the map display.	
35	TPS-2364	The ISS-S User must be able to display the bearing of his/her direction of travel and his/her direction faced while standing still.	M	P(Bid) Demonstration of Function	Node 1 must demonstrate that the bearing of the direction faced by the User is displayed on the Tactical User Interface for each of the following steps: 1) Node 1 must walk twenty steps in a direction as indicated by the Evaluation Team and show the bearing to an Evaluation Team member while walking; 2) After the twenty steps, Node 1 must come to a halt and turn 90 degrees to the right. At this time, Node 1 must show the bearing to an Evaluation Team member; 3) Node 1 must then walk twenty steps. The Bidder must show the bearing to an Evaluation Team member while walking; 4) After the twenty steps, Node 1 must come to a halt and turn 135 degrees to the right. At this time, Node 1 must show the bearing to an Evaluation Team member; and 5) Node 1 must then walk twenty steps. The Bidder must show the bearing to an evaluation Team Member while walking. For every step, an evaluation Team Member is to compare the bearing indicated by the ISS-S to a reference magnetic compass. For every step, the bearing of the direction faced by the User displayed on the Tactical User Interface must be approximately the same as the bearing of the magnetic compass. The magnetic compass is provided by DND.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that for every steps, the bearing of the direction faced by the User displayed on the Tactical User Interface is approximately the same as the bearing of the magnetic compass.	
36	TPS-574	The ISS-S User must be able to	M	P(Bid)	Node 1 must transfer the following data from the Main data storage to the	The Bidder's proposed ISS-S will be	

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
		transfer the following data between the Main Data Storage and External Data Storage Device: <ul style="list-style-type: none">▲ TPS 1921 Map Formats;▲ TPS 399 Routes; and▲ TPS 1721 Hand Drawings.		Demonstration of Function	External storage device: <ul style="list-style-type: none">–The CADRG map as per Serial 13;–The GeoPDF map as per Serial 13;–The route named “Main Route”; and–The Hand Drawing named “Right Flanking” The transferred maps, route and Hand Drawing must be deleted from the Main Data storage device of Node 1. The Bidder must transfer the data from the External storage device to the Main data storage of Node 1. Node 1 must load both maps separately, route and hand drawing on the display.	deemed-compliant if the demonstration proves that Node 1 is able to transfer both maps, the route and the Hand Drawing from the Main data storage to the External storage device by loading the two maps on the Map display of the Tactical User Interface and display the route and the Hand Drawing.	
37	From Serial 38 to Serial 49 , the Evaluation Team members are to operate Node 1 to Node 5 Node 2, Node 3 and Node 5 and execute the outlined demonstrations. The Bidder must operate Node 1 and Node 4 for the demonstration of serial 38 only after which time, an Evaluation Team member will operate Node 1 and Node 4 from Serial 39 to Serial 49. For demonstrations from Serial 38 to Serial 49 , the following topology and configuration must be used. The ISS-S Communication Network must be established with 5 x ISS-S with the following COI configuration: <ul style="list-style-type: none">- Voice COI A: Node 1, Node 2, Node 3- Voice COI B : Node 1, Node 4, Node 5- Data COI C : Node 1, Node 2, Node 3, Node 4- Blue PA COI: Node 1, Node 2, Node 3, Node 4 Node 1, Node 2, Node 3 and Node 4 must be dispersed such that they form a rectangle with a separation of at least 40 meters between every node. Node 5 must be approximately standing in the middle of the rectangle formed by the other four nodes. An Evaluation Team member is to accompany every Node to confirm messages have been sent and received at every Node.						
38	TPS-2622	Once a dismounted peer network has been established between several ISS-S nodes, any new ISS-S node must allow soldiers to exchange voice messages within sixty (60) seconds of applying power to the ISS-CS.	M	P(Bid) Demonstration of Function	Node 2 and Node 3 must power on their ISS-S. Once Node 2 and Node 3 are ready to receive Voice, Node 1 must transmit the following voice message on Voice COI A: <ul style="list-style-type: none">–"All stations, this is Node 1, radio check, over." Execute the following steps if the message from Node 1 has been received by Node 2 and Node 3: <ul style="list-style-type: none">–Node 2 must transmit the following message: "Node 1, this is Node 2, loud and clear, over".–Node 3 must transmit the following message: "Node 1, this is Node 3, loud and clear, over".–Node 1 must transmit the following message: "All stations this is Node 1, loud and clear, out."	The Bidder's proposed ISS-S will be deemed-compliant if the demonstration proves that Node 4 is able to exchange voice messages within sixty (65) seconds of applying power to the ISS-CS.	

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
					<p>Node 5 must power on his/her ISS-S.</p> <p>Once Node 5 is ready to receive Voice, Node 1 must transmit the following voice message on Voice COI B:</p> <p>–"Node 5, this is Node 1, radio check, over."</p> <p>Execute the following steps if the message from Node 1 has been received by Node 5:</p> <p>–Node 5 must transmit the following message: "Node 1, this is Node 5, loud and clear, over".</p> <p>–Node 1 must transmit the following message: "Node 5 this is Node 1, loud and clear, out."</p> <p>Evaluation of TPS 2622 starts at this stage and is done using Node 4.</p> <p>–Node 4 must power on his/her ISS-S at which time an Evaluation Team member starts the DND provided stop watch.</p> <p>–Node 4 must attempt to transmit voice on Voice COI B.</p> <p>–The stop watch will be stopped when Node 1 and Node 5 indicate that they are receiving voice messages from Node 4.</p> <p>–Node 4 must turn off the ISS-CS and repeat the demonstration twice more. Node 4 must be powered off for at least 2 minutes before executing another attempt.</p> <p>Only the best result of the three attempts will be taken as the official result for the evaluation of TPS 2622.</p> <p>Once the demonstration of TPS 2622 is completed, the ISS-S of all 5 Nodes must be powered on and worn by Evaluation Team members.</p>		
39	TPS-4401	The ISS-S Wired PTT Switch must have two (2) PTT switches, one per enabled voice COI.	M	P(Bid) Demonstration of Function	<p>Node 1 must transmit the following voice message to COI A members:</p> <p>“Stations, confirm that you are ready” Node 2 and Node 3 must be the only stations to receive the voice message.</p> <p>Execute the following steps if the message from Node 1 has been received by Node 2 and Node 3:</p> <p>- Node 2 must transmit the following message: "Node 1, this is Node 2, I confirm that I am ready".</p> <p>- Node 3 must transmit the following message: "Node 1, this is Node 3, I confirm that I am ready".</p> <p>Using a separate switch, Node 1 must transmit the following voice message to</p>	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that all six messages have been transmitted and received using a separate PTT switch for each voice COI.	

1	2	3	4	5	6	7	8
Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
					COI B members: "Stations, confirm that you are into position". Node 4 and Node 5 must be the only stations receiving the voice message. Execute the following steps if the message from Node 1 has been received by Node 4 and Node 5: - Node 4 must transmit the following message: "Node 1, this is Node 4, I confirm that I am in position". - Node 5 must transmit the following message: "Node 1, this is Node 5, I confirm that I am in position". This procedure covers both TPS-4401 and TPS-4403.		
40	TPS-4403	Using a single ISS-S radio, the ISS-S Wired PTT Switch must allow sequential voice transmission to two (2) voice COIs.	M	P(Bid) Demonstration of Function	This demonstration is covered as part of the demonstration of TPS-4401.	The Bidder's proposed ISS-S will be deemed compliant if the Bidder is compliant with TPS-4401.	
41	TPS-5029	The ISS-S Wireless PTT Switch should have two (2) PTT switches, one per enabled voice COI.	R	P(Bid) Demonstration of Function	The Bidder should perform the following demonstration using the wireless PTT. Node 1 should transmit the following message to COI A members: "Stations, prepare to receive orders." Node 2 and Node 3 should be the only stations receiving the voice message. Execute the following steps if the message from Node 1 has been received by Node 2 and Node 3: - Node 2 should transmit the following message: "Node 1, this is Node 2, I confirm that I am ready to receive orders". - Node 3 should transmit the following message: "Node 1, this is Node 3, I confirm that I am ready to receive orders". Using a separate switch, Node 1 should transmit the following voice message to COI B: "Stations send me a SITREP now." Node 4 and Node 5 must be the only stations receiving the voice message. Execute the following steps if the message from Node 1 has been received by Node 4 and Node 5: - Node 4 should transmit the following message: "Node 1, this is Node 4, there is nothing significant to report". - Node 5 should transmit the following message: "Node 1, this is Node 5, there is nothing significant to report". This procedure covers both TPS-5029 and TPS-5030.	The proposed ISS-S will be evaluated and scored as indicated based on the demonstration provided by the Bidder: 100% of the points will be given if the demonstration proves that all six messages have been transmitted and received.	100

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
42	TPS-5030	Using a single ISS-S radio, the ISS-S Wireless PTT Switch should allow sequential voice transmission to two (2) voice COIs.	R	P(Bid) Demonstration of Function	This demonstration is covered as part of the demonstration of TPS-5029.	The proposed ISS-S will be evaluated and scored as indicated based on the demonstration provided by the Bidder: 100% of the points will be given if the Bidder is compliant with TPS-5029.	108
43	TPS-3098	The following ISS-S control device(s) should be operable with one hand: <ul style="list-style-type: none">• Voice exchange using the Wired PTT;• Zoom-in and zoom-out of a map;• Generate and transmit a quick symbol;• Local zeroize; and• Adjust Tactical User Interface Display luminance.	R	P(Bid) Demonstration of Function	TPS-3098 is to be evaluated as part of the demonstration of TPS-860. As such, the Bidder should prove that for the procedure of TPS-860, the generation of the Quick Symbols can be done with one hand while holding a book in the other hand.	The proposed ISS-S will be evaluated and scored as indicated based on the demonstration provided by the Bidder: 100% of the points will be given if the generation of the Quick Symbols was executed using one hand only.	20
44	TPS-860	The ISS-S communications network must support the transmission of multiple data types as defined in this specification.	M	P(Bid) Demonstration of Function	<p>Node 1 must manually transmit the route named "Main Route" to Data COI C. Evaluation Team members are to verify that Node 2, Node 3 and Node 4 have received the route "Main Route".</p> <p>Node 1 must manually transmit the Hand Drawing named "Right Flanking" to Data COI C. Evaluation Team members are to verify that Node 2, Node 3 and Node 4 have received the Hand Drawing "Right Flanking".</p> <p>Node 1 must generate the following Quick Symbols on his/her Tactical User Interface display to Data COI C: - A Yellow Circle 50 m to the East of Node 1 position. - A Red Diamond 50 m to the North of Node 1 position.</p> <p>Note that the Quick Symbols must be transmitted automatically. Evaluation Team members are to verify that the two Quick Symbols are displayed on the Tactical User Interface of Node 2, Node 3 and Node 4.</p> <p>The Blue PA functionality must be activated. Evaluation Team members are to verify that the positions of Node 1, Node 2, Node 3 and Node 4 are displayed on the Tactical User Interface displays of Node 1, Node 2, Node 3 and Node 4.</p>	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that "Main Route", "Right Flanking", both Quick Symbols as well as Blue PA icons have been received and are displayed on the Tactical User Interface of Node 2, Node 3 and Node 4.	
45	TPS-2420	The ISS-S should have a Text	R	P(Bid)	Node 1 should send a text message to one or more Node. The text to be sent is	The proposed ISS-S will be	279

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
		Messaging capability that allows the ISS-S User to type free text messages and send them to one or more other Users.		Demonstration of Function	the following: “The eagle has landed”.	evaluated and scored as indicated based on the demonstration provided by the Bidder: 100% of the points will be given if the Bidder is compliant with TPS-2422.	
46	TPS-2422	The ISS-S should have the capability to receive and display Text messages.	R	P(Bid) Demonstration of Function	Node 2, Node 3 and Node 4 should confirm that they have received the message "The eagle has landed". The Nodes that have received the message should display the message on their Tactical User Interface.	The proposed ISS-S will be evaluated and scored as indicated based on the demonstration provided by the Bidder: 100% of the points will be given if there is at least one Node that receives the message "The eagle has landed".	279
47	TPS-2633	<div>Each ISS-CS must provide communications capacity for concurrent reception of two independent voice COI and for transmission on either voice COI when selected.</div>	M	P(Bid) Demonstration of Function	<div>At a given moment specified by the Evaluation Team, Node 3 and Node 5 must transmit the following messages. Both messages are to be sent at the same time.</div> <div>—Node 3 to Voice COI A: “Node 1, this is Node 3, we are in position and awaiting further instructions”.</div> <div>—Node 5 to Voice COI B: “Node 1, this is Node 5, we are in positions and have nothing significant to report”.</div> <div>Node 1 must confirm that both messages were received coming from Node 3 (COI A) and Node 5 (COI B).</div> <div>Node 1 must then transmit the following messages one after the other:</div> <div>—Node 1 to Voice COI A: “Node 3, this is Node 1, message received, expect further instructions in 5 minutes”.</div> <div>—Node 1 to Voice COI B: “Node 5, this is Node 1, message received, no further instructions to transmit at this time”.</div>	<div>The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that all four messages have been transmitted and received.</div>	
48	TPS-3098	<div>The following ISS-S control device(s) should be operable with one hand:</div> <div><ul style="list-style-type: none">• Voice exchange using the Wired PTT;• Zoom-in and zoom-out of a map;• Generate and transmit a quick symbol;</div>	R	P(Bid) Demonstration of Function	TPS-3098 is to be evaluated as part of the demonstration of TPS-2634. As such, the Bidder should prove that for the procedure of TPS-2634, the transmission of the four voice messages can be done with one hand while holding a book in the other hand.	The proposed ISS-S will be evaluated and scored as indicated based on the demonstration provided by the Bidder: 100% of the points will be given if the demonstration of TPS-2634 was completed using one hand only.	40

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
		<ul style="list-style-type: none">• Local zeroize; and• Adjust Tactical User Interface Display luminance.					
49	TPS-2634	Each ISS-CS must provide communications capacity for concurrent transmission and reception of two voice COIs, two data COIs and a Blue PA COI for the exchange of User Services (TPS-246). NOTE: Only one voice COI is selected for outbound transmission at any point in time.	M	P(Bid) Demonstration of Function	<p>Blue PA functionality must be activated such that Node 1, Node 2, Node 3 and Node 4 are generating and reporting their positions to the other Nodes and that on every Node, all positions are displayed.</p> <p>The following messages and data must be transmitted:</p> <ul style="list-style-type: none">- Node 1 to Voice COI A: “All Stations, this is Node 1, we will conduct a left flanking on the enemy”. Node 2 and Node 3 should receive the voice message.- Node 1 to Voice COI B: “All stations, this is Node 1, you will form the fire base for a left flanking attack”. Node 4 and Node 5 should receive the voice message.- Node 2 to Voice COI A: “Node 1, this is Node 2, received, we’ll await your signal”.- Node 4 to Voice COI B: “Node 1, this is Node 4, received, we have plenty of ammo”.- Node 1 to Data COI C: The Hand Drawing named “Left Flanking”. Node2, Node 3 and Node 4 must receive and display the Hand Drawing.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that the four voice messages, the Hand Drawing and Blue PA have been transmitted and received by the specified Nodes.	
50	At this stage of the P (Bid) Evaluation, the Bidder is requested to move back indoors, in the classroom, in order to proceed with the P (Bid) Evaluation.						
51	TPS-3909	When configured to do so, each ISS-CS must act as voice and data relays for other ISS-CSs in the network.	M	P(Bid) Demonstration of Function	This demonstration is to be performed as per Section 3 of Appendix 10, Volume 2, Annex CB.	The Bidder's proposal will be deemed compliant if the demonstration proves that when configured, each ISS-CS can act as a voice and data relay.	
52	TPS-959	The ISS-S should provide a zeroize function with the following characteristics: <ul style="list-style-type: none">- A means to remotely zeroize the ISS-S such that the information stored in the BMS becomes inaccessible and unusable and the ISS-CS becomes unusable in the ISS Network; and- The ISS-S needs to be able to be re-configured after remote	R	P(Bid) Demonstration of Function	<p>TPS-959, TPS-960 and TPS-962 are evaluated as part of this procedure.</p> <p>For this demonstration, Node 2 is to be remotely zeroized by Node 1 and Node 3.</p> <p>The Bidder should prove that a minimum of 2 Nodes are required to complete the remote zeroization (TPS-960).</p> <p>The Bidder should prove that Node 1 and Node 3 receive a confirmation of the deletion request (TPS-962). An Evaluation Team member is to verify that a confirmation message of the deletion request has been provided.</p> <p>The Bidder should describe the steps involved in order to remotely zeroize the</p>	<p>The proposed ISS-S will be evaluated and scored as indicated based on the demonstration provided by the Bidder: 100% of the points will be given if the demonstration has met the following conditions:</p> <ul style="list-style-type: none">- Node 2 is unable to receive a voice message from Node 1;- The Blue PA icon for Node 2 is absent or indicated as unreliable on the display of Node 1.	405

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
		zeroization			<p>stored digital data of Node 2.</p> <p>The Bidder should prove that the digital data stored on Node 2’s Main Data Storage is inaccessible and unusable. Node 1 is to attempt to send the following message to COI A: "All Stations, this is Node 1, test over". Node 2 and Node 3 should indicate if they have received the message from Node 1. Evaluation Team members are to verify if Node 2 and Node 3 have received the message from Node 1. It is expected that Node 2 has not received the message.</p> <p>Node 1 is to verify that the Blue PA icon for Node 2 is unreliable or absent. An Evaluation Team member is to verify that the Blue PA icon of Node 2 is not present, or indicated as unreliable, on the display of Node 1.</p>		
53	TPS-960	The ISS-S remote digital data zeroization function should require a minimum of two (2) ISS-S Users operating two (2) distinct ISS-S, to be effected on a third ISS-S.	R	P(Bid) Demonstration of Function	TPS-960 is evaluated as part of the demonstration of TPS-959.	The proposed ISS-S will be evaluated and scored as indicated based on the demonstration provided by the Bidder: 100% of the points will be given if the demonstration proves that Node 1 and Node 3 were required to remotely zeroize Node 2.	203
54	TPS- 962	The ISS-S remote digital data zeroization function should require the Users performing it to provide confirmation of the deletion request.	R	P(Bid) Demonstration of Function	TPS-962 is evaluated as part of the demonstration of TPS-959.	The proposed ISS-S will be evaluated and scored as indicated based on the demonstration provided by the Bidder: 100% of the points will be given if the demonstration proves that Node 1 and Node 3 have received a confirmation of the deletion request.	97
55	TPS-3098	<p>The following ISS-S control device(s) should be operable with one hand:</p> <ul style="list-style-type: none"> • Voice exchange using the Wired PTT; • Zoom-in and zoom-out of a map; • Generate and transmit a quick symbol; • Local zeroize; and • Adjust Tactical User Interface Display luminance. 	R	P(Bid) Demonstration of Function	TPS-3098 is to be evaluated as part of the demonstration of TPS-954. As such, the Bidder should prove that the procedure of TPS-954 can be done with one hand.	The proposed ISS-S will be evaluated and scored as indicated based on the demonstration provided by the Bidder: 100% of the points will be given if Node 4 has been zeroized using one hand only.	20
56	TPS-954	The ISS-S must provide a zeroize function with the following characteristics:	M	P(Bid) Demonstration of Function	<p>For this demonstration, Node 4 is to be locally zeroized.</p> <p>The Bidder must demonstrate the steps involved to locally zeroize the stored</p>	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that the following conditions	

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
		- A means to zeroize the ISS-S such that the information stored in the BMS becomes inaccessible and unusable and the ISS-CS becomes unusable in the ISS Network; and - The ISS-S needs to be able to be re-configured after zeroization			digital data of Node 4. The Bidder must demonstrate that the digital data stored on Node 4's Main Data Storage is inaccessible and unusable. Node 1 is to attempt to send the following message to COI B: "All Stations, this is Node 1, test over". Node 4 and Node 5 must indicate if they have received the message from Node 1. Evaluation Team members are to verify if Node 4 and Node 5 have received the message from Node 1. It is expected that Node 4 has not received the message. Node 1 is to verify that the Blue PA icon for Node 4 is unreliable or absent. An Evaluation Team member is to verify that the Blue PA icon of Node 4 is not present, or indicated as unreliable, on the display of Node 1.	have been met: - Node 4 cannot receive a voice message from Node 1; - The Blue PA icon of Node 4 is absent or shown as unreliable on the display of Node 1.	
57	TPS-5209	The ISS-S User must not require any tools to replace ISS Batteries.	M	P(Bid) Demonstration of Function	TPS-5209 is to be evaluated as part of the demonstration of TPS-5179. As such, the Bidder must demonstrate that the procedure of TPS-5179 can be done without using any tools.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that ISS-S User does not require any tools to replace ISS Batteries.	
58	TPS-5179	The ISS Batteries must be replaceable by the ISS-S User while meeting the following performance parameters: - Replace the ISS Batteries without the loss of data on any ISS-S device; and - Replace the ISS Batteries and the ISS-S is fully operational within 30 seconds of replacing the ISS Batteries.	M	P(Bid) Demonstration of Function	Node 3 must replace its ISS Batteries without the system losing any data. Note that Node 2 and Node 4 have been zeroized at this point. As such, they should not receive any transmission and generate Blue PA. Once ISS Batteries have been replaced, the following steps must be executed within 30 seconds of completion of ISS Battery replacement: - Node 3 to transmit to Voice COI A: "All Stations, this is Node 3, radio check, over". Evaluation Team members are to verify that only Node 1 has received the voice message. - Node 1 to send to Node 3: "Node 3, this is Node 1, loud and clear, over". - Node 3 must display the Hand Drawing "Right Flanking" on the Tactical user Interface display. - Evaluation Team members are to verify that Node 1 and Node 3 Blue PA icons appear on both Tactical User Interface display.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that the following conditions have been met: - The system did not lose any data during battery replacement; - Within 30 seconds of replacing the ISS Batteries on Node 3, Node 3 was able to transmit a voice message on Voice COI A and to receive a voice message from Node 1; - Within 30 seconds of replacing the ISS Batteries on Node 3, Node 3 was able to display the Hand Drawing "Right Flanking" on its Tactical User Interface Display; - Within 30 seconds of replacing the ISS Batteries on Node 3, Blue PA icons for Node 1 and Node 3 are displayed on both respective displays.	
59	TPS-3919	The ISS-S, including batteries to support a 24 hour mission as per Section 3.1 Battlefield Day (BD) Profile of Annex CB, Appendix 3	R	P(Bid) Test of Function	The Bidder should perform a power consumption test and provide a power consumption test report and a results analysis as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements. The power consumption test report and analysis should provide the number of ISS	The proposed ISS-S will be evaluated and scored as indicated based on the demonstration provided by the Bidder: The lightest bid gets maximum points.	2312

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
		ISS-S Mission Profile and Operation Mode Summary, should be as light as possible.			<p>Rechargeable Battery recharges and the number of ISS Non-Rechargeable Batteries required to complete a twenty-four (24) hour mission as per Section 3.1 Battlefield Day (BD) Profile of Volume 2, Annex CB, Appendix 3 Mission Profile and Operation Mode Summary.</p> <p>The weight test will be performed twice, once to measure the weight of the ISS-S with the ISS Rechargeable Batteries required to complete a twenty-four (24) hour mission without recharging the batteries, and once to measure the weight of the ISS-S with the ISS Non-Rechargeable Batteries required to complete a twenty-four (24) hour mission. The number of ISS Batteries included in each test should be as per the above power consumption test report and analysis.</p> <p>In addition to the ISS Batteries, the measurements should include the ISS-ES, MLCS Platform, the MLCS ISS Pouches, all wired connectivity excluding cables to GFE, and any other equipment required to operate the ISS-S.</p> <p>Both weights (with rechargeable batteries and with non-rechargeable batteries) are added together, and that resulting weight is used for comparison in the evaluation.</p>	Bids that are >= 100% heavier than the lightest bid get 0 points. Linear function for points between lightest bid and 100% heavier than lightest bid.	
60	TPS-5373	The ISS MLCS Platform, including any augmentation required to allow for the ISS-ES installation and cable/wire routing, must be designed and built in accordance with Annex CB, Appendix 7, MLCS Platform TDP.	M	P(Bid) Visual Inspection	The P(Bid) MLCS Platforms provided by the Bidder in support of UAPE will be evaluated by a team of DND SMEs as per the procedure described in Vol 2, Annex CB, Appendix 12.	<p>The Bidder's proposed ISS-S will be deemed compliant if the inspection proves that the MLCS Platform meets the criteria specified in the following sections of Appendix 12 as follow:</p> <p>- Para 2.4 Design Deviation as is;</p> <p>- Para 2.5 Technical Evaluation - Workmanship and Construction applies with the following changes:</p> <p>a. Para 2.5.1, Only 10 samples (selected by DND) will be evaluated;</p> <p>b. Para 2.5.1, for the MLCS Platform to be deemed compliant at least 30% of the evaluated samples must pass the technical evaluation;</p> <p>c. Para 2.5.2, A maximum of ten (10) workmanship and construction infractions will be accepted per sample;</p>	

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
						d. Para 2.5.3, Table 2, Back Yoke section, an elastic with a minimum width of 123 mm will be acceptable; e. Additional +1” of tolerance for the MLCS Chest Rig Front width and length dimensions and the MLCS Back Yoke width and length dimensions.	
61	TPS-5381	The ISS MLCS Pouches must be designed and built in accordance with Annex CB, Appendix 8, ISS Generic Pouches TDP.	M	P(Bid) Visual Inspection	The P(Bid) ISS MLCS Pouches provided by the Bidder in support of UAPE will be evaluated by a team of DND SMEs as per the procedure described in Vol 2, Annex CB, Appendix 12.	The Bidder's proposed ISS-S will be deemed compliant if the inspection proves that the MLCS Pouches meet the criteria specified in the following sections of Appendix 12 as follow: - Para 3.4 Technical Evaluation - Workmanship and Construction applies with the following changes: a. Para 3.4.1, Only 7 ISS MLCS Pouch Set samples (selected by DND) will be evaluated b. Para 3.4.1, for the MLCS ISS Pouch Sets to be deemed compliant, at least 30% of the individual pouch samples evaluated must pass the technical evaluation; c. Para 3.4.2, A maximum of ten (10) workmanship and construction infractions will be accepted per individual pouch sample; d. Para 3.4.3, Table 5, only the PALS Attachment Straps and the Pouch Back-PALS webbing will be evaluated (i.e. Volume 2, Annex CB, Appendix 8, Attachment 1, paragraphs 3.1-3.4 and 4.2, 4.3 and 4.5).	
P(Bid) Evaluation Score							3883

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NEW CONTENT!!

APPENDIX 4 TO ANNEX CC TO VOLUME 1

ISS – A User Acceptance Performance Evaluation (UAPE) Compliance Matrix

This Appendix details how the User Acceptance Performance Evaluation (UAPE) will be conducted and scored.

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This attachment has been modified considerably as a result of a new delivery approach to the UAPE taking into account past lessons learned and feedback. Some highlights:

- **UAPE predominantly based on a rated requirements approach. No change to the definition of acceptability for the remaining mandatory requirements.**
- **Removal of the exponential factor in the UAPE score calculations for tighter competition, yet contractor selection methodology remains**

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ANNEX CD TO VOLUME 1

Section III – ISS - A Management Bid Preparation Instructions

This Annex provides Bidders with instructions on how to prepare their proposal “Section III – Management Bid”.

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1. General

1.1 In their Section III – ISS-A Management Bid, Bidders should demonstrate their understanding of the requirements contained in the RFP Volume 2 Module C and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

1.2 The Section III – ISS-A Management Bid submission should address clearly and in sufficient depth the managerial requirements that are subject to evaluation. Simply addressing a requirement by retyping it as a response is not sufficient. To avoid duplication, Bidders may refer to different portions of their bid by identifying the specific document, paragraph and page number where the subject topic has already been addressed.

1.3 In order to assist the Bidders in the preparation of their Section III – ISS-A Management Bid, Canada is providing a set of Compliance Matrices. Bidders must use the Compliance Matrices to confirm their compliance with all the Management Mandatory requirements and to demonstrate their compliance with the rated requirements met by the Bidder's proposed solution. Bidders must include the matrices in their Section III – ISS-A Management Bid.

1.4 The information required is grouped under the following topics as described in each section below:

1.4.1 Corporate and Managerial Capabilities:

- 1.4.1.1 Risk Profile;
- 1.4.1.2 Corporate Capabilities;
- 1.4.1.3 Managerial Capabilities:
 - 1.4.1.3.1 Project Management;
 - 1.4.1.3.2 Engineering Management; and
 - 1.4.1.3.3 Integrated Logistics Support Management.

1.4.2 Environmental Health and Safety Management;

- 1.4.2.1 Environmental Health and Safety Assessment (EHSA); and
- 1.4.2.2 Corporate Environmental Health and Safety Performance Survey

1.4.3 Master Project Schedule (MPS) and Work Breakdown Structure (WBS) Management.

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2. Managerial Compliance Matrices

2.1 To assist the Bidders in completing their response, a set of Managerial Compliance Matrices is provided. Bidders must include the matrices in their Section III – ISS-A Management Bid. Completion of the compliance matrices is a mandatory requirement.

2.2 There are five Management Compliance Matrices provided, which are found at RFP Volume 1 Appendix 1 to Annex CE. The Matrices are:

- 2.2.1 Table 1 – Risk Profile Compliance Matrix
- 2.2.2 Table 2 – Corporate Capabilities Compliance Matrix
- 2.2.3 Table 3 – Managerial Capabilities Compliance Matrix
- 2.2.4 Table 4 - Environmental Health and Safety (EHS) Compliance Matrix
- 2.2.5 Table 5 – MPS and WBS Management.

2.3 The Compliance Matrices have the following columns:

2.3.1 Information provided by DND:

- 2.3.1.1 Column 1: ID. This section provides sequential numbering.
- 2.3.1.2 Column 2: Requirement Reference: This column provides the requirement reference section of paragraph number from Volume 1 Annex CD.
- 2.3.1.3 Column 3: Requirement. This is the Managerial Requirement statement from either Volume 1 - Annex CD or, in the case of the System Qualification Risk Assessment, Appendix 1 to Annex CB of Volume 2.
- 2.3.1.4 Column 4: Requirement Category. This column specifies if the requirement is a Mandatory requirement with the designation “M”, or a Point Rated requirement with the designation “R”.
 - 2.3.1.4.1 M: when the requirement category is indicated as “M”, the Mandatory requirement is evaluated based on the Bidders response. Failure to meet a mandatory requirement will make the bid non-compliant. Bids not meeting the mandatory requirement will be given no further consideration.
 - 2.3.1.4.2 R: when the requirement category is indicated as “R”, the Rated requirement is evaluated based on the Bidders response and is assigned a score based on the established Rating Criteria and Scale. For any Point Rated requirement for which there is a minimum pass mark, failure to reach the passing mark will make the bid non-compliant. Bids not meeting the passing mark will be given no further consideration. A score will be given for each rated requirement and will be used to determine the Bidder’s total Managerial score.

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2.3.1.5 Column 5: Instructions to Bidder. This column specifies the information to be provided by the Bidder.

2.3.1.6 Column 8: Rating Criteria and Scale. This column describes the details of how the Bidder's response will be evaluated to determine the Bidder's level of Compliance to the requirements. This column specifies the scoring method and the range of scores that will be used to assess each rated evaluation criterion.

2.3.1.7 Column 9: Score. This column specifies the allocation of points. Column 9a is the maximum score that can be awarded for meeting the requirement (Max Score). Column 9b is the minimum score that must be achieved (Min Score), where applicable, associated with each rated evaluation requirement or group of requirements. Where a Min Score is associated with a group of requirements, it will be specified in the sub-total or total score row.

2.3.2 Information provided by the Bidder:

2.3.2.1 Column 6: Bidder's compliance. In this column the Bidders must specify that their Proposal is compliant or non-compliant to the Mandatory requirements; or compliant, non-compliant or not-provided to the Rated requirements. The Bidders can describe their compliance to these requirements as stated above by using the words "COMPLIANT", "NON-COMPLIANT" or "NOT PROVIDED". The aforementioned terms have the following meaning:

2.3.2.1.1 COMPLIANT indicates that the Bidder claims that his proposal complies totally with the mandatory managerial requirement, or achieves the rated managerial requirements passing mark, and that the Bidder has submitted all information and supporting documentation requested.

2.3.2.1.2 NON-COMPLIANT indicates that the Bidder claims that his proposal cannot meet the mandatory managerial requirement or reach the rated managerial requirements passing mark. It automatically makes a Bidder's proposal non-compliant.

2.3.2.1.3 NOT PROVIDED indicates that the Bidder's proposal does not provide a response to this rated requirement; no points will be awarded.

2.3.2.2 Column 7: Bidder's response. In this column the Bidders must, when requested in column 5 titled "Instructions To Bidders", provide a description of compliance to mandatory or rated requirements. This is done by providing a statement which clearly supports/justifies the response provided in column 6, titled "Bidder's Compliance". The statement may demonstrate compliance to mandatory or rated requirements by pointing specifically to the appropriate section of a Plan, Survey and/or Report that is included in the managerial proposal for that purpose. When referring to other portions of their proposal, the Bidder must include clear directions regarding where the relevant information can be

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found. References to Web pages are forbidden. The Bidder's proposal must be complete in itself. The information provided will be used by Canada to evaluate the Bidder's response.

2.3.3 Note that the Corporate Environmental Health and Safety Performance Survey portion of the EHS Compliance Matrix has a format that differs slightly from the layout detailed above. The requirements presented in this section of the EHS Matrix, in Volume 1 Annex CE Table 4, are self-explanatory and straightforward.

2.4 The Managerial Compliance Matrices can be found at RFP Volume 1 Annex CE Appendix 1. They are a carbon copy of the content of the Microsoft Excel[®] Matrix of Compliance Module (MCM) file "ISS_A_ManagementMCM_V1.XLS (See RFP Volume 1 article 2.7).

2.5 Completion of the Compliance Matrices

2.5.1 It is recommended that the Bidders prepare their managerial proposal using the electronic version in the Microsoft Excel[®] MCM RFP package referred to in section 2.7 of Volume 1, and then prepare the soft and hard copies as requested at RFP article 3.2 to Volume 1.

3. Corporate and Managerial Capabilities

3.1 Risk Profile Compliance Matrices

3.1.1 The Risk Profile Compliance Matrix is divided into two sections. The first section is the Programmatic Risk Assessment and the second section is the System Qualification Risk Assessment.

3.1.2 General. DND considers that certain elements of this Project could potentially present HIGH risks to the successful outcome while some others may present opportunities.

3.1.3 Programmatic Risk Assessment:

3.1.3.1 There is a risk that the scope of the project exceeds the design, development and manufacturing capabilities of the successful Bidder; and

3.1.3.2 There is a risk that the proportion of integration work and/or hardware and software customization associated with the winning solution could be too significant and not achievable within the qualification phase budget and 9-month schedule proposed by DND.

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3.1.3.3 The Bidder should provide a detailed explanation/rationale as to why the stated risks should not be considered as risks; or, if they are considered risks, provide an explanation as to what risk response strategy the Bidder will use to deal with the stated risks

3.1.4 System Qualification Risk Assessment. There is a possibility that the Bidder offers a system, or components thereof, that have already passed formal qualification tests and verification standards imposed for the Technical Performance Specification. Establishing the degree of compliance at bid time reduces the risk that the qualification program may not be completed on budget and on schedule

3.1.5 The evaluation of the System Qualification risk elements will be based on selected requirements from the Technical Performance Specifications (TPS) found in Volume 2, annex CB, Appendix 1.

3.1.6 The System Qualification Risk Assessment is based on Technical Performance Indicators (TPIs) that are associated with the verification and qualification of environmental requirements, and the data used to derive the reliability of the Physical Devices Hosting Functions (PDHF) for the following functions:

- 3.1.6.1 Communications,
- 3.1.6.2 Computing,
- 3.1.6.3 Tactical User Interface, and
- 3.1.6.4 Audio-Display.

3.1.7 PDHF is defined as the physical device that host one or a number of the four functions listed above. It is possible that the same physical device may be hosting more than one function; in this case and for purpose of evaluation only, this device would count as the number of functions it would host: for a device hosting two functions, it would count as two devices and accumulate scores as such.

3.1.8 Bidders who can provide objective evidence that the TPI associated with the verification and qualification of each listed Environmental requirement has already been met to some degree at Bid time for each PDHF identified above will be rewarded.

3.1.9 The Bidder must submit Table 1 - Risk Profile Compliance Matrix, which can be found in Appendix 1 to Annex CE of Volume 1.

3.2 Corporate Capabilities Compliance Matrix

3.2.1 The Bidder's Corporate Capabilities will be evaluated using the following areas:

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3.2.1.1 Experience in playing a leadership role in the management and delivery of Soldier System Projects;

3.2.1.2 Experience in the provision of Command, Control, Communications, Computer and Intelligence (C4I) Systems for the military environment;

3.2.1.3 Competence and experience in integrating Type 1 equipment and high assurance Cross Domain Solution (CDS); and

3.2.1.4 Experienced Project team with a Human Factors Engineering capability and familiarity with DND policies and procedures related to Project Management, Quality Assurance, Security Engineering, Integrated Logistics Support, Training, Supply Management and Configuration and Data Management.

3.2.2 The Bidder must submit Table 2 - Corporate Capabilities Compliance Matrix, which can be found in Appendix 1 to Annex CE of Volume 1.

3.3 Managerial Capabilities Compliance Matrix

3.3.1 General. The information provided by the Bidder in the areas of Project Management, Engineering Management and Integrated Logistic Support Management is required in the form of draft documents structured in accordance with the DIDs described in RFP Volume 2 Annex CC Appendix 2.

3.3.2 Project Management. The Bidder must submit a draft Project Management Plan (PMP), completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-001. The Bidder must prepare the PMP in sufficient detail so as to clearly demonstrate the ability to manage a project with the complexity of the ISSP. The Bidder must complete the requirements on Project Management in Table 3 – Managerial Capabilities Compliance Matrix, which can be found in Appendix 1 to Annex CE of Volume 1.

3.3.3 Engineering Management. The Bidder must submit a draft System Engineering Management Plan (SEMP) and a draft Verification and Qualification Plan (VQP) completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID SE-001 and SE-004 respectively. The Bidder should prepare these Plans in sufficient detail so as to clearly demonstrate the ability to manage all engineering aspects of a project with the complexity of the ISSP. The Bidder must complete the requirements on Engineering Management in Table 3 – Managerial Capabilities Compliance Matrix, which can be found in Appendix 1 to Annex CE of Volume 1.

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3.3.4 **Integrated Logistics Support Management.** The Bidder must submit a draft Integrated Logistic Support Plan (ILSP), a draft Maintenance Plan and a draft Training Program Plan completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DIDs LS-001, LS-005 and LS-004 respectively. The Bidder should prepare all these Plans in sufficient detail so as to clearly demonstrate the ability to manage all ILS aspects of a project with the complexity of the ISSP. The Bidder must complete the requirement on Integrated Logistics Support Management in Table 3 – Managerial Capabilities Compliance Matrix, which can be found in Appendix 1 to Annex CE of Volume 1.

3.3.5 By making reference to the above management submissions (Project Management, Engineering Management and Integrated Logistic Support Management), the Bidder must complete the full Table 3 – Management Plans Compliance Matrix, which can be found in Appendix 1 to Annex CE of Volume 1.

4. Environmental Health and Safety

4.1 **General.** The Environmental Health and Safety Compliance Matrix is divided into two sections. The first section is the Environmental Health and Safety Assessment (EHSA) and the second section is the Corporate Environmental Health and Safety Performance Survey.

4.2 Part 1 - Environmental Health and Safety Assessment (EHSA)

4.2.1 The Bidder must submit a partial draft EHSA completed in the format specified by RFP Vol2, Appendix 2 to annex CC DID PM-008. The following information from DID PM-008 will be required for Evaluation:

- 4.2.1.1 Part II, para 10.2.2.0-2 (Major Sub System Assessment);
- 4.2.1.2 Part II, para 10.2.2.0-2.0-1 (EHS aspects and associated hazards for each major sub system and component for each life cycle phase)
- 4.2.1.3 Part II, para 10.2.2.0-2.0-2 (EHS hazards for each major component and its consumables)
- 4.2.1.4 Part II, para 10.2.2.0-2.0-10 (Reference to each applicable Material Safety Data Sheet (MSDS))
- 4.2.1.5 Part III, para 10.2.4.0-5 (Figure 5 - MSDS)

4.2.2 The Bidder's EHSA will undergo a Hazardous Products evaluation. The Department of National Defence is committed to reducing the use of hazardous products

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in equipment and materiel as mandated by legal, sustainable development strategy, policy and due diligence requirements

4.2.3 The Hazardous Products evaluation will be completed by evaluating the products as reported on the MSDSs.

4.2.4 For assessment purposes, the MSDS should disclose the chemical ingredient information along with its Chemical Abstract Service Number (CAS number), % composition (the Bidder may provide confidential information in a separate document), and Volatile Organic Compound (VOC) content where applicable. Note: Proprietary information will be treated with confidentiality;

4.2.5 No controlled products will be accepted, should a technically feasible and less hazardous alternative be available. Submissions should include a statement as to why a controlled product is being offered, and why a less hazardous product is not suitable. Controlled products are defined herein as products containing substances:

- 4.2.5.1 Regulated and proposed to be affected by legislation or regulation;
- 4.2.5.2 Listed in Schedule 1 Toxic Substances List under the Canadian Environmental Protection Act (CEPA);
- 4.2.5.3 Targeted chemicals subject to the National Pollutant Release Inventory;
- 4.2.5.4 Targeted by the Chemicals Management Plan - List of Challenge Substances; and/or
- 4.2.5.5 Targeted under the Accelerated Reduction/Elimination of Toxic Substances Program.

4.2.6 The Bidder must complete Table 4 – Environmental Health and Safety Compliance Matrix, Part 4.1 – Environmental Health and Safety Assessment (EHSA) by making reference to the information provided in the draft EHSA submission. The table can be found in Appendix 1 to Annex CE of Volume 1.

4.3 Corporate Environmental Health and Safety Performance Survey Compliance Matrix

4.3.1 The Bidder must complete and submit the Corporate Environmental Health and Safety Performance Survey included in Table 4 – Environmental Health and Safety Compliance Matrix, which can be found in Appendix 1 to Annex CE of Volume 1.

4.4 The Bidder must submit Table 4 - Environmental Health and Safety Compliance Matrix, which can be found in Appendix 1 to Annex CE of Volume 1.

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5. Master Project Schedule and Work Breakdown Structure Management

- 5.1 The Bidder must submit a draft MPS and WBS, in an electronic MS Project compatible file, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-003. The MPS and WBS should give particular emphasis on the following:

5.1.1 The Bidder must perform the System Qualification phase work in a maximum duration of nine months.

5.1.2 Bidder's description of the number, scope and duration of activities during The System Qualification Phase starting from the System Requirements Allocation Review (SRAR) and leading up to the Formal Qualification review (FQR) and Physical Configuration Audit (PCA);

5.1.3 Bidders estimated time for the completion of the Initial Delivery of ISSP Systems at the FOB destination, in working days after issuing a contract amendment authorizing the Production Phase (Initial Delivery is defined here as Task Force 1 equipment delivered); and,

Deleted: weeks

5.1.4 Depiction of Work Breakdown Structure, Activities, Interdependencies, Critical Path, Milestones and Deliverables.

- 5.2 The Bidder must submit Table 5 - Master Project Schedule and Work Breakdown Structure Management Compliance Matrix, which can be found in Appendix 1 to Annex CE of Volume 1.

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ANNEX CE TO VOLUME 1

ISS – A Management Evaluation

This Annex provides Bidders with details on how their proposal “Section III – ISS–A Management Bid” will be evaluated.

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1. General

1.1 The overall Management Bid evaluation consists of the following parts:

- 1.1.1 Part 1 - The Corporate and Managerial Capabilities Evaluation;
- 1.1.2 Part 2 - The Environmental, Health and Safety (EHS) Evaluation;
- 1.1.3 Part 3 - The Master Project Schedule (MPS) and Work Breakdown Structure (WBS) Management Evaluation; and
- 1.1.4 Part 4 - The Management Mandatory Criteria Evaluation.

1.2 Instructions to Bidders for each part can be found at RFP Annex CD to Volume 1.

2. Conduct of the Management Evaluation

2.1 The Management Evaluation will be completed as follows:

2.1.1 Part 1: The Corporate and Managerial Capabilities: Evaluation will be based on the Bidder's response in the Risk Profile Compliance Matrix, the Corporate Capabilities Compliance Matrix, the Management Plans Compliance Matrix and compliance with the Minimum Mandatory Scores;

2.1.2 Part 2: The EHS Evaluation: Evaluation will be based on the Bidder's responses to the EHS Assessment (EHSA) and the Corporate Environmental Health and Safety Performance Survey (CEHSPS) and compliance with the Minimum Mandatory Scores;

2.1.3 Part 3: The MPS and WBS Management Evaluation: Evaluation will be based on the Bidder's responses in the MPS and WBS Management Compliance Matrix and compliance with the Minimum Mandatory Score; and

2.1.4 Part 4: The Management Mandatory Criteria Evaluation: Evaluation will be based on verification of the Mandatory submissions as detailed in Annex CD to Volume 1.

3. Management Evaluation Topology

3.1 The ISS-A Management Evaluation contributes 22% to the Acquisition Evaluation overall score. Within this, the three parts: Corporate and Managerial Capabilities, EHS, and MPS and WBS, each contribute to the evaluation as illustrated in Figure 1:

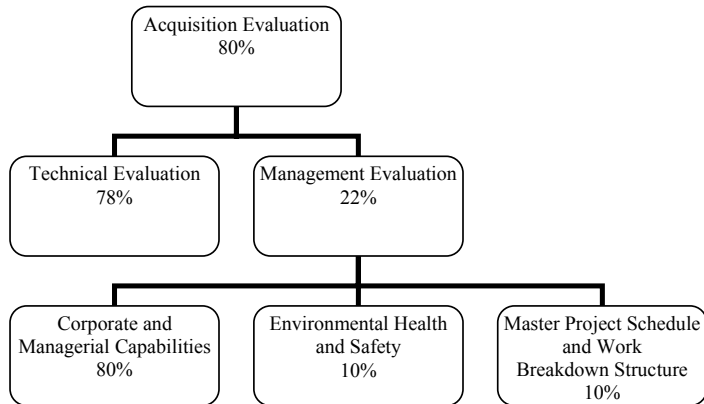


Figure 1 – Management Evaluation Topology and Weightings

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4. Part 1 - Corporate and Managerial Capabilities Evaluation

4.1 Corporate and Managerial Capabilities Evaluation Objective.

4.1.1 Corporate and Managerial Capabilities will be evaluated in order to assess the Bidder's ability to manage and execute the ISSP Acquisition contract. The Corporate and Managerial Capabilities Evaluation consists of the following components:

4.1.1.1 Risk Profile. This section will evaluate the Bidder's responses to the Canada identified project risks;

4.1.1.2 Corporate Capabilities: This section will evaluate the Bidder's responses on their corporate experience; and

4.1.1.3 Managerial Capabilities: This section will evaluate the Bidder's responses on their approach to: Project Management, Engineering Management and Integrated Logistics Support.

4.1.2 Figure 2 is a pictorial representation of the high-level evaluation topology for the Corporate and Managerial Capabilities Requirements for ISSP Acquisition.

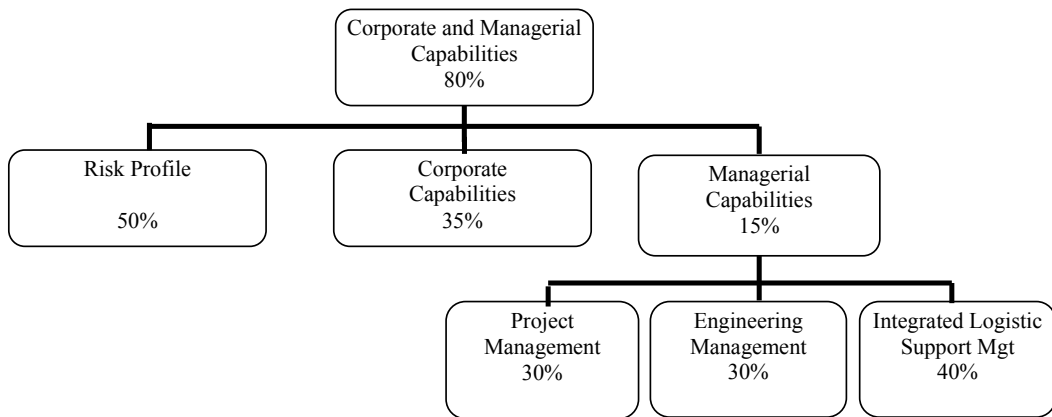


Figure 2 – Corporate and Managerial Capabilities Evaluation Topology and Weightings

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4.2 Evaluation of the Risk Profile

4.2.1 The Table 1 - Risk Profile Compliance Matrix consists of two parts: the Programmatic Risk Assessment and the System Qualification Risk Assessment. Table 1 - Risk Profile Compliance Matrix is included in appendix 1 to this Annex.

4.2.2 The Evaluation will be based on the Bidder's response to the risk as indicated in the Compliance Matrix. Each response will be rated based on the Rating Criteria and Scale in column 8 of the matrix. The assigned scores for each requirement will be totalled. The sum of all scores obtain for each requirement will give the total score for Table 1.

4.2.3 Minimum Mandatory Score.

4.2.3.1 Part 1 – Each requirement included in the Programmatic Risk Assessment has a Minimum Mandatory Score of 50%. Failure to achieve the Minimum will make the Bid non-compliant.

4.3 Evaluation of Corporate Capabilities

4.3.1 The Table 2 - Corporate Capabilities Compliance Matrix is included in appendix 1 to this Annex.

4.3.2 The Evaluation will be based on the Bidder's response to the requirements as indicated in the Compliance Matrix. Each response will be rated based on the Rating Criteria and Scale in column 8 of the matrix. The assigned scores for each requirement will be totalled. The sum of all scores obtained for the requirement will give the total score for Table 2.

4.3.3 Minimum Mandatory Score. The Corporate Capabilities Compliance Matrix has a Minimum Mandatory Score of 60% on the aggregate of all requirements in Table 2. Failure to achieve the Minimum Mandatory Score will make the Bid non-compliant.

Deleted: 70

4.4 Evaluation of Managerial Capabilities

4.4.1 Table 3 – Managerial Capabilities Compliance Matrix is included in appendix 1 to this Annex. The Table has three sections:

- 4.4.1.1 Section 1 - Project Management;
- 4.4.1.2 Section 2 - Engineering Management; and
- 4.4.1.3 Section 3 - Integrated Logistics Support Management (ILS).

4.4.2 The Evaluation will be based on the Bidder's response to each statement in the Compliance Matrix. Each response will be scored based on the Scoring Scale Chart, Figure 3, as applied to the associated maximum score in column 9a of the matrix. The

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final score for each section of the Table will be based on the total of the assigned scores for that section. The sum of all scores obtained for the requirement will give the total score for Table 3.

4.4.3 Minimum Mandatory Scores. The Managerial Capabilities Compliance Matrix has Minimum Mandatory Scores associated with each section as follows:

4.4.3.1 Project Management: Bidders must achieve a minimum score of 70% on the aggregate of all requirements in the Section. Failure to achieve the Minimum Mandatory Score will make the Bid non-compliant.

4.4.3.2 Engineering Management: Bidders must achieve a minimum score of 70% on the aggregate of all requirements in the Section. Failure to achieve the Minimum Mandatory Score will make the Bid non-compliant.

4.4.3.3 Integrated Logistics Support Management (ILS): Bidders must achieve a minimum score of 70% on the aggregate of all requirements in the Section. Failure to achieve the Minimum Mandatory Score will make the Bid non-compliant.

4.4.4 Scoring Scale Chart. The following Chart will be used to evaluate the degree to which a Bidder's response complies with the Requirement.

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Percentage of Points allocated	Assessment Word Pictures
100%	EXCELLENT Fully demonstrates that all of the objectives of the Question are met in a suitable and documented manner. The proposed solution very clearly demonstrates that all of the objectives will be fully met.
80%	GOOD Reasonably demonstrates that all of the objectives of the Question are met in a suitable and documented manner. The proposed solution is comprehensive, but it does not demonstrate that all of the objectives will be fully met.
60%	AVERAGE Demonstrates that most of the objectives of the Question are met in a suitable and documented manner. The proposed solution has substance, but it does not demonstrate that all of the objectives will be met.
40%	POOR Demonstrates that some of the objectives of the Question are met in a suitable and documented manner. The proposed solution does not meet all of the objectives in any significant manner, but it does demonstrate some associated merit and utility.
20%	VERY WEAK Demonstrates that few of the objectives of the Question are met in a suitable and documented manner. The proposed solution does not address all of the objectives in any significant manner, and it demonstrates little associated merit or utility.
0%	UNACCEPTABLE No information provided, or the proposed solution does not address any of the objectives of the Question in a suitable and documented manner.

Figure 3 - Scoring Scale Chart

5. Part 2 - Environmental Health and Safety (EHS) Evaluation

5.1 The EHS Evaluation will be based on two components as outlined at Figure 4.

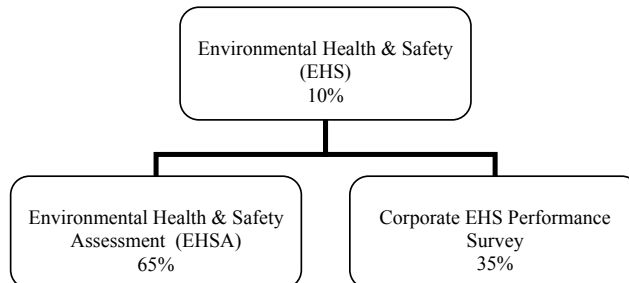


Figure 4 – EHS Evaluation Topology and Weightings

5.2 The EHS submissions will be evaluated based on the Bidder's responses to the Environmental Health and Safety Compliance Matrix.

5.3 EHSA Evaluation. The EHSA will be evaluated based on the Bidder's responses to the Part 4.1 -Environmental Health and Safety Assessment (EHSA) portion of the Compliance Matrix, which is Table 4 in appendix 1 to this annex. The evaluation includes a detailed assessment of the Bidder's Hazardous Products.

5.4 Hazardous Products Evaluation Overview. Each product captured under the Hazardous Products Act, for each life cycle will be scored based upon the presence of controlled substances within a product and identified in the product's MSDS. The sum of all scores obtained by phase will be a Bidder's Hazardous Products Score. A comparative assessment of the Bidder's Hazardous Products Score against the Bidder with the lowest score will be done to obtain a final score allocation (the lowest score being highest rated);

5.5 Controlled substances are defined for this purpose as:

- any product/substance that is affected by legislation or regulation;
- any product containing a substance listed in the Canadian Environmental Protection Act (CEPA) Schedule 1, Toxic Substances List;
- any product containing substances targeted by the Accelerated Reduction/Elimination of Toxics program;
- any product containing substances targeted by the National Pollutant Release Inventory (NPRI, http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm); and/or
- any product containing substances targeted by the List of Challenge Substances (http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list_e.html).

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5.6 Phase 1 – The assessment of a product will consist of three parts

5.6.1 Part I, Product Score: Points are awarded to the hazardous product based on controlled substances contained in the product as follows (points awarded based upon the highest rated substance present and is not accumulative):

5.6.1.1 Product containing any legislated/regulated substances = 10 pts;

5.6.1.2 Product containing substances in Schedule 1 of the CEPA and any proposed to be regulated substance = 8 pts;

5.6.1.3 Product containing any targeted substances = 5 pts;

5.6.1.4 Product containing no controlled substances = 0 pts.

5.6.2 Part II, Life Cycle Phase Score: All product scores within a life cycle phase are summed to provide a life cycle phase score.

5.6.3 Part III, Total Hazardous Product Bid Score: All life cycle phase scores are summed to provide a total bid score. Preference will be accorded to the bidder with the lowest total hazard score. The Bidder with lowest Bidder's Hazardous Products Score (obtained from Part II) will be awarded 100% of points assigned at ID #4.1.2 of Table 4 – EHS Compliance Matrix, in appendix 1 to this annex. All other Bidders will receive a final score allocation based on a comparative assessment with the Bidder that achieved the lowest Bidder's Hazardous Products Score. The Bidder's final score allocation will be calculated as follows:

$$\frac{(\text{Lowest Bidder's Hazardous Products Score})}{(\text{Bidder's Hazardous Products Score})} * \text{Maximum points (800 pts)}$$

5.6.3.1 For example, if the Lowest Bidder's Hazardous Products Score is 10 pts and Bidder C has received a Bidder's Hazardous Products Score of 20 pts, then Bidder C has a final point allocation of $10/20 * 800 = 400$ pts.

5.6.4 Phase 2 – Determining Penalties

5.6.4.1 Any bid stating that it has no hazardous products at all shall be assigned a final Bidder's Hazardous Products Score of zero (0) points.

5.6.4.2 Bids with a number of products equal or less than the standard deviation will be penalized with a deduction of 55% of the maximum points (440) from their final score allocation. An example of such penalty calculations can be summarized as follows:

$$\sigma = \sqrt{\frac{\sum (X - \bar{X})^2}{N}}$$

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Where

σ = standard deviation

x = the total number of products in a bid

\bar{x} = the mean of products in a bid

N = the total number of bids

5.6.4.3 Consider Bids (B) identifying the following number of products: B1=4, B2=2, B3=5, B4=8, B5=6;

5.6.4.4 These five data points have the mean of 5: $(4+2+5+8+6)/5 = 5$;

5.6.4.5 To calculate the population standard deviation, first compute the difference of each data point from the mean, and square the result of each:

$$(B1 - \text{mean}) = 4 - 5 = (-1)^2 = 1;$$

$$(B2 - \text{mean}) = 2 - 5 = (-3)^2 = 9;$$

$$(B3 - \text{mean}) = 5 - 5 = (0)^2 = 0;$$

$$(B4 - \text{mean}) = 8 - 5 = (3)^2 = 9;$$

$$(B5 - \text{mean}) = 6 - 5 = (1)^2 = 1.$$

5.6.4.6 Next compute the average of these values, and take the square root. Therefore the standard deviation is the square root of $(20/5)$, in other words, the square root of 4, which is 2.

5.6.4.7 Next subtract the standard deviation from the mean. In this case mean of 5 minus standard deviation of 2 is equal to 3. This means that all bids identifying 3 products or fewer would be penalized.

5.6.4.8 In the case illustrated above Bid 2, which has reported only two hazardous products would be penalized by a deduction of 440 pts from his score obtained at Part III: Bidder's final score allocation, since it contained fewer than the mean minus the standard deviation of 3 products.

5.6.5 After applying penalty points to the bids with a number of products less than the mean minus the standard deviation, the bids will be comparatively re-scored based upon the non-penalized bid with the lowest Bidder's Hazardous Products Score.

5.7 Phase 3 – Record the Final Hazardous Product Score

5.7.1 The final Hazardous Product Score consists of the Bidder's pro-rated score calculated in Phase 1 and adjusted as a result of any penalty applied to any of the Bidders as explained in Phase 2. The end result is reported against Table 4 – EHS Compliance Matrix ID#4.1.2.

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5.8 Corporate Environment Health and Safety Performance Survey

5.8.1 The evaluation of the Corporate Environment Health and Safety Performance Survey will be based on the Bidder's response to each statement in the Compliance Matrix. The final score for the Section will be the total of the assigned scores for each requirement.

5.9 The Score for the Environmental, Health and Safety Evaluation will be the total of the scores in the Compliance Matrix.

6. **Part 3 – The MPS and WBS Management Evaluation**

6.1 The Table 5 – MPS and WBS Management Compliance Matrix is included in appendix 1 to this annex.

6.2 The MPS and WBS Management Evaluation will be based on the Bidder's response to each statement in the Compliance Matrix. Each response will be scored based on the Rating Criteria and Scale in Column 8 of the matrix. The final score will be based on the sum of all scores obtained for the requirement in Table 5.

6.3 Minimum Mandatory Scores:

6.3.1 The MPS and WBS Management Compliance Matrix have a Minimum Mandatory Score of 60% on the aggregate of all requirements in Table 5. Failing to achieve the Minimum Mandatory Score will make the Bid non-compliant.

Deleted: 70

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7. **Part 4 - Management Mandatory Criteria Evaluation**

7.1 The Table 6 - Management Evaluation Mandatory Evaluation Criteria Compliance Matrix will be used by Canada to determine if the Bidders proposal meets all the mandatory requirements of the RFP Volume 1 Annexes CD "Section III – Management Bid – Preparation Instructions" and CE "Section III – ISS-A Management Evaluation". Any missing Mandatory deliverable, Mandatory requirement or Minimum Mandatory Score not met as stipulated in the associated Compliance Matrices will render the bid non-responsive.

8. **ISS-A Management Evaluation Final Score**

8.1 Bidder's who are deemed compliant with all the requirements of the Table 6 – Management Evaluation Criteria Evaluation, will have a final management score calculated as follows:

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Compliance Matrix	Total Score	Final Score
Table 1 - Risk Profile Compliance Matrix (as per ID # 1.3)		
Table 2 - Corporate Capabilities Compliance Matrix (as per ID # 2.5)		
Table 3 - Managerial Capabilities Compliance Matrix (as per ID # 3.4)		
Corporate and Managerial Capabilities (SUM of Tables 1 to 3 total scores)		
Table 4 - Environmental Health and Safety Compliance Matrix (as per ID # 4.3)		
Table 5 - Master Project Schedule and Work Breakdown Structure Management Compliance Matrix (as per ID # 5.5)		
ISS-A Management Evaluation (Corporate and Managerial Capabilities Final Score + (SUM of Tables 4 to 5 final scores)		

Figure 6 – ISS-A Management Evaluation Final Score Calculations

8.2 The ISS-A Management Evaluation Final Score will be entered in RFP Volume 2 Annex CJ.

9. ASOW Management Compliance Matrices

9.1 The ASOW Managerial Compliance Matrices can also be found in electronic format in the Microsoft Excel[®] MCM RFP package referred to in section 2.7 of Volume 1. The ASOW Management requirements Matrix of Compliance formatted for Microsoft Excel[®] is found in the file called "ISS_A_ManagementMCM_V1.XLS".

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APPENDIX 1 TO ANNEX CE TO VOLUME 1

Managerial Compliance Matrices

This Appendix to Annex CE to Volume 1 provides the Managerial Compliance Matrices used to evaluate the Acquisition Management Bid requirements.

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Table 1 – Risk Profile Compliance Matrix

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
1.1	Programmatic Risk Assessment								
1.1.1	3.1.3.1	There is a risk that the scope of the project exceeds the design, development, and manufacturing capabilities of the successful Bidder.	R	<p>Bidders should clearly explain how this risk is addressed in their risk management plan and provide their risk response strategy. A risk response plan showing the steps to be taken to maintain the risk at a low level or avoid the risk entirely will be described.</p> <p>Bidders are encouraged to use Chapter 11 of ‘A Guide to the Project Management Body of Knowledge’ (PMBOK® Guide) – Fourth Edition in demonstrating their Risk Management strategy.</p>			<p>The Bidder’s risk analysis clearly indicates an unlikely probability of occurrence and negligible impact (if any) on the project. Confidence is High. High probability of success. A comprehensive risk response strategy has been articulated. Proper planning including mitigation strategies and contingency options are in place to deal with long lead time items issues such as availability of the 32 Systems for SAT. Overall Assessment of the Bidder’s response substantiates a LOW level of risk = 100%</p> <p>The Bidder’s risk analysis indicates a likely probability of occurrence and moderate impact on the project. Confidence is Good. Moderate probability of success. A sound risk response strategy has been articulated. Issues surrounding delivery of long lead time items to meet critical milestones seem to have been covered. Overall Assessment of the Bidder’s response substantiates a MEDIUM level of risk = 50%</p> <p>The Bidder’s risk analysis indicates an almost certain probability of occurrence and major to severe impact on the project. Confidence is</p>	704	50%

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1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
							Low. Low probability of success. A risk response strategy has been articulated but its effectiveness is doubtful. Overall Assessment of the Bidder's response substantiates a HIGH level of risk = 0%		
1.1.2	3.1.3.2	There is a risk that the proportion of integration work and/or hardware and software customization associated with the winning solution could be too significant and not achievable within the System Qualification Phase budget and 9-month schedule proposed by DND.	R	<p>Bidders should clearly explain how this risk is addressed in their risk management plan and provide their risk response strategy. A risk response plan showing the steps to be taken to maintain the risk at a low level or avoid the risk entirely will be described.</p> <p>Bidders are encouraged to use Chapter 11 of 'A Guide to the Project Management Body of Knowledge' (PMBOK® Guide) – Fourth Edition in demonstrating their Risk Management strategy.</p>			<p>The Bidder's risk analysis clearly indicates an unlikely probability of occurrence and negligible impact (if any) on the project. Confidence is High. High probability of success. A comprehensive risk response strategy has been articulated. Proper planning including mitigation strategies and contingency options are in place to deal with long lead time items issues such as availability of the 32 Systems for SAT. Overall Assessment of the Bidder's response substantiates a LOW level of risk = 100%</p> <p>The Bidder's risk analysis indicates a likely probability of occurrence and moderate impact on the project. Confidence is Good. Moderate probability of success. A sound risk response strategy has been articulated. Issues surrounding delivery of long lead time items to meet critical milestones seem to have been covered. Overall Assessment of the Bidder's response substantiates a MEDIUM level of risk = 50%</p> <p>The Bidder's risk analysis indicates an almost certain probability of occurrence and major to severe impact on the project. Confidence is Low. Low probability of success. A risk</p>	704	50%

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1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
							response strategy has been articulated but its effectiveness is doubtful. Overall Assessment of the Bidder's response substantiates a HIGH level of risk = 0%		
1.1.3	Programmatic Risk Assessment Score							1408	
1.2	System Qualification Risk Assessment								
1.2.1	Environmental Technical Performance Indicators (TPIs)								
1.2.1.1	Climatic / Natural								
1.2.1.1.1	TPS-317	To minimize the risk of schedule delays during the system qualification phase, the ISS-S should be already qualified to the following requirement: "The ISS-S must operate within normal performance limits at temperatures up to 49°C tested according to MIL-STD-810G, Method 501.5, Procedure II (using cycling as for the A1 Climatic category) or MIL-STD-810F, Method 501.4, Procedure II (using cycling as for the A1 Climatic category)."	R	<p>For each of the Physical Device Hosting Function (PDHF) that follows:</p> <ul style="list-style-type: none"> a. Communication. b. Computing. c. Tactical User Interface. d. Audio-Display. <p>The Bidder should identify the Device and Function hosted, for which the Bidder claims to have qualified the device against the requirement.</p> <p>To be rewarded, the Bidder should include in its bid, objective evidence by provision of test report signed by Bidder QA or third party lab certificate that the</p>			<p>For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits up to 49°C and tested according to MIL-STD-810G, Method 501.5, Procedure II (using cycling as for the A1 Climatic category) or MIL-STD-810F, Method 501.4, Procedure II (using cycling as for the A1 Climatic category) = 25%</p> <p>For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits up to 49°C using a similar procedure to MIL-STD-810G, Method 501.5, Procedure II (using cycling as for the A1 Climatic category) = 15%.</p> <p>For each PDHF not qualified yet = 0%.</p>	422	0%

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1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
				identified PDHF operates within normal performance limits up to 49°C.					
1.2.1.1.2	TPS-323	To minimize the risk of schedule delays during the system qualification phase, the ISS-S should be already qualified to the following requirement: “The ISS-S must operate within normal performance limits at temperatures down to -30°C tested according to MIL-STD-810G, Method 502.5, Procedure II or MIL-STD-810F, Method 502.4, Procedure II.”	R	<p>For each of the Physical Device Hosting Function (PDHF) that follows:</p> <ul style="list-style-type: none"> a. Communication. b. Computing. c. Tactical User Interface. d. Audio-Display. <p>The Bidder should identify the Device and Function hosted, for which the Bidder claims to have qualified the device against the requirement.</p> <p>To be rewarded, the Bidder should include in its bid, objective evidence by provision of test report signed by Bidder QA or third party lab certificate that the identified PDHF operates within normal performance limits down to -30°C.</p>			<p>For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits down to -30°C and tested according to MIL-STD-810G, Method 502.5, Procedure II or MIL-STD-810F, Method 502.4, Procedure II = 25%</p> <p>For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits down to -30°C using a similar procedure to MIL-STD-810G, Method 502.5, Procedure II = 15%.</p> <p>For each PDHF not qualified yet = 0%.</p>	422	0%
1.2.1.1.3	TPS-1020	To minimize the risk of schedule delays during the system qualification phase, the ISS-S should be already qualified to the following requirement: “The ISS-S must operate within	R	<p>For each of the Physical Device Hosting Function (PDHF) that follows:</p> <ul style="list-style-type: none"> a. Communication. b. Computing. 			For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits during sudden changes in temperature (thermal shock) due to transitioning through temperature changes from 24°C to 49°C and 21°C to -30°C tested	422	0%

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1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		normal performance limits during sudden changes in temperature (thermal shock) due to transitioning through temperature changes from 24°C to 49°C and 21°C to -30°C tested according to MIL-STD-810G, Method 503.5, Procedure I D (Shocks to or from controlled ambient temperature) or MIL-STD-810F, Method 503.4, Procedure I.”		<p>c. Tactical User Interface. d. Audio-Display.</p> <p>The Bidder should identify the Device and Function hosted, for which the Bidder claims to have qualified the device against the requirement.</p> <p>To be rewarded, the Bidder should include in its bid , objective evidence by provision of test report signed by Bidder QA or third party lab certificate that the PDHF operates within normal performance limits during a thermal shock due to transitioning through temperature changes from 24°C to 49°C and 21°C to -30°C.</p>			<p>according to MIL-STD-810G, Method 503.5, Procedure I D (Shocks to or from controlled ambient temperature) or MIL-STD-810F, Method 503.4, Procedure I = 25%</p> <p>For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits during sudden changes in temperature (thermal shock) due to transitioning through temperature changes from 24°C to 49°C and 21°C to -30°C using a similar procedure to MIL-STD-810G, Method 503.5, Procedure I D (Shocks to or from controlled ambient temperature) = 15%.</p> <p>For each PDHF not qualified yet = 0%.</p>		
1.2.1.1.4	TPS-2201	To minimize the risk of schedule delays during the system qualification phase, the ISS-S should be already qualified to the following requirement: “The ISS-S must operate within normal performance limits in a sand and dust environment as follows: Dust particles smaller than 150 µm at a wind speed of 8.9 m/s, and Sand particles between 150 µm	R	<p>For each of the Physical Device Hosting Function (PDHF) that follows:</p> <p>a. Communication. b. Computing. c. Tactical User Interface. d. Audio-Display.</p> <p>The Bidder should identify the Device and Function hosted, for which the Bidder claims to have qualified the device against the</p>			<p>For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits in a sand and dust environment as follows: Dust particles smaller than 150 µm at a wind speed of 8.9 m/s, and Sand particles between 150 µm to 850 µm in size at wind speeds up to 29 m/s. Tested according to MIL-STD-810G, Method 510.5 (or MIL-STD-810F, Method 510.4) Procedure I for Dust and Procedure II for Sand, both at an ambient temperature of 49°C = 25%</p>	422	0%

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1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		to 850 µm in size at wind speeds up to 29 m/s. Test according to MIL-STD-810G, Method 510.5 (or MIL-STD-810F, Method 510.4) Procedure I for Dust and Procedure II for Sand, both at an ambient temperature of 49°C.”		requirement. To be rewarded, the Bidder should include in its bid , objective evidence by provision of test report signed by Bidder QA or third party lab certificate that the PDHF operates within normal performance limits in a sand and dust environment as follows: Dust particles smaller than 150 µm at a wind speed of 8.9 m/s, and Sand particles between 150 µm to 850 µm in size at wind speeds up to 29 m/s.			For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits in a sand and dust environment as follows: Dust particles smaller than 150 µm at a wind speed of 8.9 m/s, and Sand particles between 150 µm to 850 µm in size at wind speeds up to 29 m/s using a similar procedure to MIL-STD-810G, Method 510.5 Procedure I for Dust and Procedure II for Sand, both at an ambient temperature of 49°C = 15%. For each PDHF not qualified yet = 0%.		
1.2.1.2	Induced Environments								
1.2.1.2.1	TPS-2218	To minimize the risk of schedule delays during the system qualification phase, the ISS-S should be already qualified to the following requirement: “The ISS-S must operate within normal performance limits following the shocks associated with dismounted soldier operations while in an operational mode tested according to MIL-STD-810G, Method 516.6 Procedure I or MIL-STD-810F, Method 516.5 Procedure I.”	R	For each of the Physical Device Hosting Function (PDHF) that follows: a. Communication. b. Computing. c. Tactical User Interface. d. Audio-Display. The Bidder should identify the Device and Function hosted, for which the Bidder claims to have qualified the device against the requirement. To be rewarded, the Bidder should			For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits following the shocks associated with dismounted soldier operations while in an operational mode tested according to MIL-STD-810G, Method 516.6 Procedure I or MIL-STD-810F, Method 516.5 Procedure I= 25% For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits following the shocks associated with dismounted soldier operations while in an operational mode using a similar procedure to MIL-STD-810G, Method 516.6 Procedure I = 15%.	338	0%

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1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
				include in its bid, objective evidence by provision of test report signed by Bidder QA or third party lab certificate that the PDHF operates within normal performance limits following the shocks associated with dismounted soldier operations while in an operational mode.			For each PDHF not qualified yet = 0%.		
1.2.1.2.2	TPS-2219	To minimize the risk of schedule delays during the system qualification phase, the ISS-S should be already qualified to the following requirement: “The ISS-S must operate within normal performance limits following a 1.22 metre drop tested according to MIL-STD-810G, Method 516.6 Procedure IV or MIL-STD-810F, Method 516.5 Procedure IV.”	R	<p>For each of the Physical Device Hosting Function (PDHF) that follows:</p> <ul style="list-style-type: none"> a. Communication. b. Computing. c. Tactical User Interface. d. Audio-Display. <p>The Bidder should identify the Device and Function hosted, for which the Bidder claims to have qualified the device against the requirement.</p> <p>To be rewarded, the Bidder should include in its bid, objective evidence by provision of test report signed by Bidder QA or third party lab certificate that the PDHF operates within normal performance limits following a 1.22 metre drop.</p>			<p>For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits following a 1.22 metre drop tested according to MIL-STD-810G, Method 516.6 Procedure IV or MIL-STD-810F, Method 516.5 Procedure IV = 25%</p> <p>For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits following a 1.22 metre drop using a similar procedure to MIL-STD-810G, Method 516.6 Procedure IV = 15%.</p> <p>For each PDHF not qualified yet = 0%.</p>	338	0%
1.2.1.2.3	TPS-2217	To minimize the risk of	R	For each of the Physical Device			For each PDHF for which objective evidence	338	0%

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1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		schedule delays during the system qualification phase, the ISS-S should be already qualified to the following requirement: “The ISS-S must operate within normal performance limits following exposure to the vibrations associated with transport in Ground Vehicles while in a non-operating (power-off) state. Tested according to MIL-STD-810G, Method 514.6 Procedure I, Category 4 (or MIL-STD-810F, Method 514.5 Procedure I, Category 4) using the Two-wheeled Trailer vibration exposure profile.”		<p>Hosting Function (PDHF) that follows:</p> <ul style="list-style-type: none"> a. Communication. b. Computing. c. Tactical User Interface. d. Audio-Display. <p>The Bidder should identify the Device and Function hosted, for which the Bidder claims to have qualified the device against the requirement.</p> <p>To be rewarded, the Bidder should include in its bid, objective evidence by provision of test report signed by Bidder QA or third party lab certificate that the PDHF operates within normal performance limits following exposure to the vibrations associated with transport in Ground Vehicles while in a non-operating (power-off) state.</p>			<p>demonstrates that the PDHF operates within normal performance limits following exposure to the vibrations associated with transport in Ground Vehicles while in a non-operating (power-off) state. Tested according to MIL-STD-810G, Method 514.6 Procedure I, Category 4 (or MIL-STD-810F, Method 514.5 Procedure I, Category 4) using the Two-wheeled Trailer vibration exposure profile= 25%</p> <p>For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits following exposure to the vibrations associated with transport in Ground Vehicles while in a non-operating (power-off) state using a similar procedure to MIL-STD-810G, Method 514.6 Procedure I, Category 4 using a vibration exposure profile similar to the Two-wheeled Trailer vibration exposure profile = 15%.</p> <p>For each PDHF not qualified yet = 0%.</p>		
1.2.1.2.4	TPS- 2205	To minimize the risk of schedule delays during the system qualification phase, the ISS-S should be already qualified to the following requirement: “The ISS-S must operate within normal performance limits after immersion in fresh water in an	R	<p>For each of the Physical Device Hosting Function (PDHF) that follows:</p> <ul style="list-style-type: none"> a. Communication. b. Computing. c. Tactical User Interface. d. Audio-Display. 			<p>For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits after immersion in fresh water in an operational state (power on), without preparation, for a period of 30 minutes at a depth of 1 metre tested according to MIL-STD-810G, Method 512.5 Procedure I (Immersion) or MIL-STD-810F, Method 512.4</p>	338	0%

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ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		operational state (power on), without preparation, for a period of 30 minutes at a depth of 1 metre tested according to MIL-STD-810G, Method 512.5 Procedure I (Immersion) or MIL-STD-810F, Method 512.4 Procedure I (Immersion).”		<p>The Bidder should identify the Device and Function hosted, for which the Bidder claims to have qualified the device against the requirement.</p> <p>To be rewarded, the Bidder should include in its bid , objective evidence by provision of test report signed by Bidder QA or third party lab certificate that the PDHF operates within normal performance limits after immersion in fresh water in an operational state (power on), without preparation, for a period of 30 minutes at a depth of 1 metre.</p>			<p>Procedure I (Immersion)= 25%</p> <p>For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits after immersion in fresh water in an operational state (power on), without preparation, for a period of 30 minutes at a depth of 1 metre using a similar procedure to MIL-STD-810G, Method 512.5 Procedure I (Immersion) = 15%.</p> <p>For each PDHF not qualified yet = 0%.</p>		
1.2.1.2.5	TPS-2207	To minimize the risk of schedule delays during the system qualification phase, the ISS-S should be already qualified to the following requirement: “The ISS-S must operate within normal performance limits at an atmospheric pressure of 57.2 kPa (corresponding to a standard altitude of 4,572 metre) tested according to MIL-STD-810G, Method 500.5 Procedure II (Operation) or MIL-STD-810F, Method 500.4 Procedure II	R	<p>For each of the Physical Device Hosting Function (PDHF) that follows:</p> <ul style="list-style-type: none">a. Communication.b. Computing.c. Tactical User Interface.d. Audio-Display. <p>The Bidder should identify the device and Function hosted, for which the Bidder claims to have qualified the device against the requirement.</p>			<p>For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits at an atmospheric pressure of 57.2 kPa (corresponding to a standard altitude of 4,572 metre) tested according to MIL-STD-810G, Method 500.5 Procedure II (Operation) or MIL-STD-810F, Method 500.4 Procedure II (Operation)= 25%</p> <p>For each PDHF for which objective evidence demonstrates that the PDHF operates within normal performance limits at an atmospheric pressure of 57.2 kPa (corresponding to a standard altitude of 4,572 metre) using a</p>	338	0%

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ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		(Operation).”		To be rewarded, the Bidder should include in its bid, objective evidence by provision of test report signed by Bidder QA or third party lab certificate that the PDHF operates within normal performance limits at an atmospheric pressure of 57.2 kPa (corresponding to a standard altitude of 4,572 metre).			similar procedure to MIL-STD-810G, Method 500.5 Procedure II (Operation) = 15%. For each PDHF not qualified yet = 0%.		
1.2.2	Reliability TPI								
1.2.2.1	TPS-2049	To minimize the risk of schedule delays during the system qualification phase, the ISS-S should be already qualified to the following requirement: “The ISS-S must have a Mean Time Between Failure (MTBF) of at least 500 hours (minimum acceptable value), when used as per Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary. A failure is defined as the inability of the ISS-S to perform within previously specified limits or an intended function. In the determination of the MTBF it includes Critical Failures, Essential Function Failures and	R	For each of the Physical Device Hosting Function (PDHF) that follows : a. Communication. b. Computing. c. Tactical User Interface. d. Audio-Display. The Bidder should identify the Device and Function hosted, for which the Bidder claims to have qualified the device against the requirement. To be rewarded, the Bidder should include in its bid, objective evidence through the provision of MTBF analysis results signed by Bidder QA or third party lab			For each PDHF for which the MTBF analysis figures are based on ‘field measures’ data = 25% For each PDHF for which the MTBF analysis figures are based on ‘lab measures’ data = 15% For each PDHF for which MTBF is based on predictive analysis data = 0%	2253	0%

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		Non-Essential Function Failures as defined in the Annex CB, Appendix 4 - Failure Definition and Scoring Criteria.”		certificate, of an MTBF of at least 500 hours (minimum acceptable value) resulting from “field measures” or, from “lab measures” of the PDHF operating as per Appendix 3 ISS-S Mission Profile and Operation Mode Summary.					
1.2.3	Part 2 – System Qualification Risk Assessment Score							5632	
1.3	Table 1 – Risk Profile Score							7040	

Table 2 – Corporate Capabilities Compliance Matrix

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
2.1	3.2.1.1	The Bidder should be experienced in playing a leadership role in the management and delivery of Soldier System Projects, similar to the ISSP, with a total project value in excess of \$5M Cdn.	R	Bidders should provide a description of projects of similar nature completed in the past 10 years. The description should include sufficient details to permit an assessment of its relevance, including but not limited to: the project scope, project budget, project schedule, level of integration, capability outcomes, client satisfaction and confirm whether the project was delivered on time and within budget. The References used for the client satisfaction evidence should include a Customer Name, Phone Number, and Point of Contact. DND reserves the right to contact the company or organization identified by the Bidder.			<p>The number of qualifying projects will form the basis for the awarding of points. To be considered a qualifying project, the Bidder’s response must be sufficiently detailed to permit an assessment of its relevance against the requirement. Playing a leadership role signifies acting as a Prime, Integrator and/or lead partner in a project team.</p> <p><u>Qualifying Project(s) = Score:</u></p> <p>0 Project = 0% 1 Project = 15% 2 Projects = 40% More than 2 Projects = 60% + 40% bonus if any of the qualifying projects have fielded their systems in an operational theatre of operation in the last three years</p>	1626	0%
2.2	3.2.1.2	The Bidder must be experienced in the provision of Command, Control, Communications, Computer and Intelligence (C4I) Systems for the military	M	Bidders must provide a description of at least two C4I technology projects of similar nature completed in the past 10 years. The description should include			<p>Pass: Clear evidence is demonstrated in the submission of the Bidder’s experience in the field of C4I technologies for military applications. Bidder provided a description</p>		

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		environment.		sufficient details to permit an assessment of its relevance, including but not limited to: the project scope, project budget, project schedule, level of integration, capability outcomes, client satisfaction and confirm whether the project was delivered on time and within budget. The References used for the client satisfaction evidence should include a Customer Name, Phone Number, and Point of Contact. DND reserves the right to contact the company or organization identified by the Bidder.			of at least two C4I projects involved in during the past 10 years and possibly fulfilling different roles (Prime, Integrator, Partner, Technical/Engineer lead and/or member of a Team/Venture). References have been provided so that the information can be verified if required. Fail: The information requested was either not submitted or did not allow confirmation of the Bidder’s experience in the field of C4I technologies in support of military requirements.		
2.3	3.2.1.3	The Bidder should demonstrate competence and experience in integrating Type 1 equipment and high assurance Cross Domain Solution (CDS)	R	<p>The Bidder should describe projects within the last 10 years in which he has performed some of the following seven (7) activities:</p> <ul style="list-style-type: none"> Security testing to confirm isolation between INFOSEC boundaries; Integrating Type 1 cryptographic products in a Military Tactical environment and achieving National Security Authority certification of the overall system; Integrating Type 1 CDS products in a Military Tactical environment and achieving National Security Authority certification of the overall system; 			<p>The number of qualifying activities will form the basis for the awarding of points. To be considered a qualifying activity, the Bidder’s response must be sufficiently detailed to permit an assessment of its relevance against the requirement and the Bidder must have provided a customer reference that can confirm the activity performed within a given project.</p> <p>Scoring Scale:</p> <ul style="list-style-type: none"> 1 Qualifying activity = 10% 2 Qualifying activities = 20% 3 Qualifying activities = 30% 4 Qualifying activities = 45% 	1676	0%

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
				<ul style="list-style-type: none"> Developing and certifying format, content and connection filters to control the exchange of VMF messages and VoIP packets through CDS; Implementing an integrated system management solution that included a cryptographic key management capability; Conducting comprehensive information flow analysis in a multi-security domain environment to identify appropriate security architecture, select technical safeguards and achieve National Security Authority certification; and Completing information technology integration in a Military Tactical environment while maintaining system TEMPEST integrity <p>The Bidder must provide, for each activity, a customer reference who is familiar with the project in which the stated activity was performed by the Bidder.</p>			<ul style="list-style-type: none"> 5 Qualifying activities = 60% 6 Qualifying activities = 80% 7 Qualifying activities = 100% 		
2.4	3.2.1.4	The Bidder should propose a project team that is experienced in the management of projects of similar scope and value, has a Human Factors Engineering capability and is familiar with DND policies and procedures	R	The Bidder should propose a project team that will be responsible to execute, monitor and control the work in accordance with its proposed PMP. The Bidder must submit a list of the Project Team members along with their respective resume demonstrating their			The experience demonstrated by the respective project team members resume will be the basis for the awarding of points. Only resumes of the Project Team members listed in the draft PMP will be considered. To be considered qualified, the resume must be sufficiently detailed to permit an	1626	0%

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		related to Project Management, Quality Assurance, Security Engineering, Integrated Logistics Support, Training, Supply Management and Configuration Management/Data Management.		specific experience on the following basis: <ul style="list-style-type: none">• Management and/or member of a Project Team dedicated to project (s) similar in scope to the ISS.• Five years experience, in the last eight years, in a position similar to the one proposed for the ISS requirement;• Experience with projects for military customers;• Has been with the Bidder for at least two years;• Past experience in Human Factors Engineering program specifically applied to a soldier system project; and• The Project Team members are familiar with DND policies and procedures related to Project management, Quality Assurance, Security Engineering, Integrated Logistics Support, Training, Supply Management and Configuration Management/Data Management.			assessment of its team members experience as follows: <ul style="list-style-type: none">• Managed/supported project (s) similar in scope; (up to 10% max)• Manage/supported project(s) for military customers; (up to 10% max)• 5 years experience, in the last 8 years, fulfilling duties similar to the ones expected to execute in support of ISSP requirements; (up to 20% max)• Has been working for the Bidder for at least two years; (up to 10% max)• Past experience in Human Factors Engineering program specifically applied to a soldier system project; and (up to 20% max)• Is familiar with the DND policies and procedures related to his/her area of expertise and assignment in support of the ISSP requirement. (up to 30% max)		
2.5	Table 2 – Corporate Capabilities Score							4928	60%

Deleted: 70

Table 3 – Managerial Capabilities Compliance Matrix

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
3.1	Project Management – Project Management Plan (PMP)								
3.1.1	3.3.2	Does the draft PMP describe how the proposed Project Management system addresses and integrates Organization and Control, Data Management, Change Control, Sub-Contractors and Risk Management?	R	IAW the draft PMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	76	0%
3.1.2	3.3.2	Does the draft PMP describe the Project Management Organization that the Bidder will use to manage the contract supported by organization charts, which depict the organizational structure and breakdown and its relationship with the ISS OWSS Contract (including relationships amongst the members of the joint venture or consortium, if applicable)?	R	IAW the draft PMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	51	0%
3.1.3	3.3.2	Does the draft PMP describe how the Work Breakdown	R	IAW the draft PMP, completed in the format specified by RFP Volume 2,			Use Annex CE, Figure 3 – Scoring Scale Chart	51	0%

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		Structure will be applied to reflect a family tree breakdown of all work scope to be accomplished?		Appendix 2 to Annex CC, DID PM-001.			Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%		
3.1.4	3.3.2	Does the draft PMP identify management or leadership positions assigned responsibility for work scope in relation to sections of the WBS, which are at a level for management control?	R	IAW the draft PMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	51	0%
3.1.5	3.3.2	Does the draft PMP describe how the work and organizational breakdown will facilitate visibility for likely problem or risk areas and major subcontracting effort?	R	IAW the draft PMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	38	0%
3.1.6	3.3.2	Does the draft PMP describe the Bidder’s scheduling management and control system?	R	IAW the draft PMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20%	51	0%

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1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
							Unacceptable = 0%		
3.1.7	3.3.2	Does the draft PMP describe how budget control will be exercised to ensure unidentified or unexpected work content that is later found to be required to meet the total project scope is dealt with effectively?	R	IAW the draft PMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	38	0%
3.1.8	3.3.2	Does the draft PMP describe the policies and procedures, which will be, applied to the Data Management activities of the contract, including the activities of the subcontractors and members of a joint venture or consortium, if applicable?	R	IAW the draft PMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	38	0%
3.1.9	3.3.2	Does the draft PMP describe the Risk Management process that the Bidder will use to manage this effort, including the responsibility, authority and the relationship to the PM Organization?	R	IAW the draft PMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	76	0%
3.1.10	3.3.2	Does the draft PMP describe the parameters, indicators and benchmarks that will be used for Performance Monitoring and Reporting?	R	IAW the draft PMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80%	51	0%

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ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
							Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%		
3.1.11	3.3.2	Does the draft PMP describe the internal processes and oversight to ensure the transition from the acquisition to the in-service support contract is executed efficiently?	R	IAW the draft PMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	51	0%
3.1.12	3.3.2	Does the draft PMP describe the Quality Management System that the Bidder intends to use for the ISS requirement and the processes/control measures proposed with subcontractors and the members of the joint venture or consortium, if applicable?	R	IAW the draft PMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	63	0%
3.1.13	Total Project Management Score							634	70%
3.2	Engineering Management								
3.2.1	System Engineering Management Plan (SEMP)								
3.2.1.1	3.3.3	Is the draft SEMF structured in accordance with the format of Volume 2, Annex CC, Appendix	R	IAW the draft SEMF, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID SE-001.			Use Annex CE, Figure 3 – Scoring Scale Chart	19	0%

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ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		2, DID SE-001					Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%		
3.2.1.2	3.3.3	Does the draft SEMP, demonstrate the Bidder’s ability to manage all Engineering aspects of the ISS project consistent with the activity requirements of Volume 2, Annex CA sections 3 and 5?	R	IAW the draft SEMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID SE-001			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	29	0%
3.2.1.3	3.3.3	Does the draft SEMP provide a summary description of the Bidder’s ISSP engineering organization, including any integration of engineering teams with sub-contractors for ISS work?	R	IAW the draft SEMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID SE-001			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	19	0%
3.2.1.4	3.3.3	Does the draft SEMP provide a summary description of its decision management for Engineering Changes in support of the ECP process?	R	IAW the draft SEMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID SE-001			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	19	0%

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
3.2.1.5	3.3.3	Does the draft SEMP provide a summary description of its requirements definition, analysis and requirements management processes?	R	IAW the draft SEMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID SE-001			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	29	0%
3.2.1.6	3.3.3	Does the draft SEMP provide a summary description of the Bidder’s product integration strategy at the Configuration Items (CI), sub-system and system level?	R	IAW the draft SEMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID SE-001			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	29	0%
3.2.1.7	3.3.3	Does the draft SEMP describe the Contractor’s RAM Program for ISS, including the process to achieve the ISS Reliability, Availability and Maintainability performance requirements specified in the Performance Specifications (Volume 2, Annex CB)?	R	IAW the draft SEMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID SE-001			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	19	0%
3.2.1.8	3.3.3	Does the draft SEMP provide a description of the technical reviews the Bidder plans to conduct in support of the work of the SOW in sufficient detail (including review	R	IAW the draft SEMP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID SE-001			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60%	29	0%

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ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		methodologies, entry criteria, review tasks and exit criteria, for each specific review)?					Poor = 40% Very weak = 20% Unacceptable = 0%		
3.2.2	Verification and Qualification Plan (VQP)								
3.2.2.1	3.3.3	Is the draft VQP structured in accordance with the format of Volume 2, Annex CC, Appendix 2, DID SE-004?	R	IAW the draft VQP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID SE-004.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	18	0%
3.2.2.2	3.3.3	Does the draft VQP demonstrate how the Bidder is going to manage all Verification and Qualification aspects of ISSP?	R	IAW the draft VQP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID SE-004.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	27	0%
3.2.2.3	3.3.3	Does the draft VQP provide a summary of the ISS verification strategy and how the verification process will be conducted to address unit, sub-system and system level verification and qualification activities, including dry-runs verification activities?	R	IAW the draft VQP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID SE-004.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	67	0%
3.2.2.4	3.3.3	Does the draft VQP provide a	R	IAW the draft VQP, completed in the			Use Annex CE, Figure 3 – Scoring Scale		0%

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		description of the resources and schedule of the verification activities required to address all TPS (Appendix 1 to Annex CB of Volume 2) requirements in order to fully achieve the Verification and Qualification of the ISS?		format specified by RFP Volume 2, Appendix 2 to Annex CC, DID SE-004.			Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	67	
3.2.2.5	3.3.3	Does the draft VQP verification strategy address the activities required to verify the requirements contained in the following sections from the TPS (Volume 2, Annex CB, Appendix 1): a. General Characteristics; b. EHS, Environmental; c. Security; d. RAM; e. MLCS; f. BMS; g. Audio Display; h. Position Generation and Navigation; i. Communication; j. Power and Data Infrastructure; k. Sensor; l. System Management; and m. LCSS Data Interoperability.	R	IAW the draft VQP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID SE-004.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0% (each sub-requirement (section of the TPS) is worth 1/13 of the Max Score or 7.7% each)	200	0%
3.2.2.6	3.3.3	Is the draft VQP schedule	R	IAW the draft VQP, completed in the			Use Annex CE, Figure 3 – Scoring Scale	67	0%

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1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		consistent (free of inconsistency) with the draft Master Project Schedule (MPS) and the Proposal response to the Technical Performance Indicators (TPIs) evaluation (Volume 1, Annex CE, Appendix 1, Part 2)?		format specified by RFP Volume 2, Appendix 2 to Annex CC, DID SE-004.			Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%		
3.2.3	Total Engineering Management Score							634	70%
3.3	Integrated Logistics Support Management								
3.3.1	Integrated Logistics Support Plan (ILSP)								
3.3.1.1	3.3.4	Is the draft ILSP in accordance with the format of Volume 2, Annex CC, Appendix 2, DID LS-001?	R	IAW the draft ILSP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID LS-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	17	0%
3.3.1.2	3.3.4	Does the draft ILSP describe the Bidder’s ILS organization and its relationships, including management procedures and reporting/tracking system, with subcontractors and members of a joint venture or consortium, if	R	IAW the draft ILSP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID LS-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40%	34	0%

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		applicable?					Very weak = 20% Unacceptable = 0%		
3.3.1.3	3.3.4	Does the draft ILSP describe the relationships between the ILS and other disciplines involved in the ISS project (Engineering, Configuration Management, Quality Assurance and others)?	R	IAW the draft ILSP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID LS-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	34	0%
3.3.1.4	3.3.4	Does the draft ILSP, demonstrate the Bidder’s ability to manage all ILS aspects of the ISS project consistent with the activity requirements of Volume 2, Annex CA, sections 3 and 6 as well as all associated CDRLs?	R	IAW the draft ILSP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID LS-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	42	0%
3.3.1.5	3.3.4	Does the draft ILSP identify the number and frequency of ILS reviews and the general concept of operation for ILS Coordination?	R	IAW the draft ILSP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID LS-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	17	0%
3.3.1.6	3.3.4	Does the draft ILSP identify the main ILS activities and milestones consistent with the Master Project Schedule and	R	IAW the draft ILSP, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID LS-001.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100%	25	0%

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1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		Work Breakdown Structure submitted in DID PM-003?					Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%		
3.3.2	Maintenance Plan								
3.3.2.1	3.3.4	Is the draft Maintenance Plan in accordance with the format of Volume 2, Annex CC, Appendix 2, DID LS-005?	R	IAW the draft Maintenance Plan, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID LS-005.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	51	0%
3.3.2.2	3.3.4	Is the draft Maintenance Plan consistent with the Support Concept of Appendix 2 to Annex CA to Volume 2?	R	IAW the draft Maintenance Plan, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID LS-005.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	76	0%
3.3.2.3	3.3.4	Does the draft Maintenance Plan describe the maintenance actions and associated tasks by type of maintenance (corrective, preventive) and line of maintenance (where the maintenance action is done)?	R	IAW the draft Maintenance Plan, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID LS-005.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40%	101	0%

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1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
							Very weak = 20% Unacceptable = 0%		
3.3.2.4	3.3.4	Does the draft Maintenance Plan provide the labour time to perform the maintenance actions and confirm whether this is an actual measure or estimated value?	R	IAW the draft Maintenance Plan, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID LS-005.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	101	0%
3.3.2.5	3.3.4	Does the draft Maintenance Plan provide the frequency of maintenance actions and whether this is an actual measure or estimated value?	R	IAW the draft Maintenance Plan, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID LS-005.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	101	0%
3.3.2.6	3.3.4	Does the draft Maintenance Plan identify the most common parts/material involved in the maintenance actions and tasks articulated?	R	IAW the draft Maintenance Plan, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID LS-005.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	76	0%
3.3.3	Training Program Plan								
3.3.3.1	3.3.4	Is the draft ILS Management -	R	IAW the draft Training Program Plan,			Use Annex CE, Figure 3 – Scoring Scale	17	0%

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Min Score
		Training Program Plan in accordance with the format of Vol 2, Annex CC, Appendix 2, DID LS-004 Training Program Plan?		completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID LS-004.			Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%		
3.3.3.2	3.3.4	Does the draft Training Program Plan conform with CFITES (i.e. Analysis, Design, Conduct and Evaluation) in terms of process, format, and procedures?	R	IAW the draft Training Program Plan, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID LS-004.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	110	0%
3.3.3.3	3.3.4	Does the draft Training Program Plan identify the numbers, types, and sequence of course training serials?	R	IAW the draft Training Program Plan, completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID LS-004.			Use Annex CE, Figure 3 – Scoring Scale Chart Excellent = 100% Good = 80% Average = 60% Poor = 40% Very weak = 20% Unacceptable = 0%	42	0%
3.3.4	Total Integrated Logistics Support Management							845	70%
3.4	Table 3 - Managerial Capabilities Score						SUM(Total score for Project Mgt, Engineering Mgt, ILS Mgt)	2112	

Table 4 – Environmental Health and Safety Compliance Matrix

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Rating Criteria and Scale	Max Score	Min Score
4.1	Environmental Health and Safety Assessment (EHSA)								
4.1.1	4.2.1	Partial Draft EHSA	R	The Bidder should provide the required information IAW reference to DID PM-008 – Environmental Health and Safety Assessment (EHSA). This includes all portions of the Major Sub-system/Activity Table and MSDS Table specified in Vol 1 Ann CD para 4.2.1. Each MSDS referenced in the tables must be provided.			Completed Tables and all MSDS required are provided – 229 pts Completed Tables and all MSDS required are not provided – 0 pts	229	
4.1.2	4.2.2 4.2.3 4.2.4 4.2.4 4.2.5	Hazardous Product Evaluation of Draft EHSA	R	The partial draft EHSA from section 4.1.1 of this table will be used for this evaluation.			See amplifying notes at section 5.6 of Annex CE for scoring of each hazardous product. A Bidder’s hazardous product score will be obtained by the total summation of all hazardous product scores obtained for all life cycle phases. The hazardous product score is based on the presence of controlled substances identified on the product’s Material Safety Data Sheet. The Bidder’s final hazardous product score will be obtained by the total summation of each product score for all life cycle phases.	915	

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Rating Criteria and Scale	Max Score	Min Score
							<p>Provided verification on the number of products submitted by a Bidder meets a standard deviation requirement, the final score awarded to a Bidder for this requirement will consist of a comparative assessment of the Bidder’s final hazardous product score against the Bidder with the lowest final hazardous product score.</p> <p>The number of hazardous products identified within each Bid will be used to obtain an average number of products associated with a Bid submission. Bids with a number of products equal to or less than the average number of products in all bid submissions, minus the standard deviation, will be penalized with a deduction of 55% of the Max Score from their respective final score. Any resulting negative score from this penalty will be adjusted to zero (0.0) points.</p> <p>After penalties have been applied, the submissions with a number of products greater than the average number of products in all bid submissions minus the standard deviation will be score corrected by comparatively assessing them against the non-penalized Bidder with the lowest final hazardous product score.</p>		

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Rating Criteria and Scale	Max Score	Min Score
4.1.3	EHSA Score							1144	
4.2	Corporate Environmental Health and Safety Performance Survey (CEHSPS)								
4.2.1	4.3	This survey is required to assess a Bidder’s environment health and safety performance.		All questions should be completed. Additional comments may be provided in attachments to the survey. All information will be used solely by PMO ISSP. Supplier: Address: Contact Name: Position: Telephone: Fax: Completed by: Date:			This section is not evaluated		
4.2.2	4.3	The Bidder/Contractor has not been charged or convicted with an offence under Environmental laws in any jurisdiction in the last 3 years?	R	<ul style="list-style-type: none">Bidders should respond by YES or NO as applicable.			Yes: 100% No/Blank: 0%	148	
4.2.3	4.3	The Bidder/Contractor has not been charged or convicted with an offence under Occupational Health and Safety (OHS) laws in any jurisdiction in the last 3 years?	R	<ul style="list-style-type: none">Bidders should respond by YES or NO as applicable.			Yes: 100% No/Blank: 0%	148	

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Rating Criteria and Scale	Max Score	Min Score
4.2.4	4.3	<p>Does the Bidder/Contractor EMS have an ISO 14001 certification?</p> <p>If Yes, a copy of the ISO 14001 certificate obtained within the last 3 years by an accredited body is to be submitted with this survey.</p> <p>If No, please answer the questions below:</p> <p>1. Does your organization have an environmental policy?</p> <p>If Yes, a copy of the policy is to be submitted with this survey.</p> <p>The policy must include a statement of commitment for:</p> <ul style="list-style-type: none"> - Compliance with applicable laws and regulations, - Continual improvement of environmental performance, and - Pollution prevention. 	R	<ul style="list-style-type: none"> • Bidders should respond by YES, NO or N/A as applicable. • Bidders should provide Remarks/Comments as required. • Bidders should provide additional information/ documents as requested in the requirement statement. 			<p>If a copy of the ISO 14001 certificate obtained within the last 3 years by an accredited body is provided, then full points are awarded (100%).</p> <p>If No, a total maximum points of 65% of total pts (104pts) are available as follows:</p> <p>1. Submitted policy will be assessed to the following requirements (total available points is 12pts):</p> <p>The policy must</p> <ul style="list-style-type: none"> - be signed by top management – 3 pts - include a statement of commitment for - Compliance with applicable laws and regulations – 3 pts - Continual improvement of environmental performance – 3 pts - Pollution prevention – 3 pts <p>If not provided – 0pts.</p> <p>2. List identifying the significant environmental aspects of the activities, products and services of your organization provided.</p> <p>List provided - 16 pts</p> <p>If Not provided– 0 pts</p> <p>3. List of legal requirements that apply to the significant environmental aspects identified at question 2</p>	160	

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Rating Criteria and Scale	Max Score	Min Score
		<p>2. Provide a copy of the list identifying the significant environmental aspects of the activities, products and services of your organization.</p> <p>3. Provide a copy of the list of legal requirements that apply to the significant environmental aspects identified in the list required at question number 2.</p> <p>4. Provide a copy of a report (conducted within the last 3 years) that evaluated the compliance of the activities, products and services of your organization with relevant environmental legislation and regulations.</p> <p>5. Provide a copy of the list of environmental objectives and targets which are consistent with the environmental policy of your organization.</p>					<p>List provided – 16 pts If not provided – 0 pts</p> <p>4. Report (conducted within the last 3 years) that evaluated the compliance of the activities, products and services of your organization with relevant environmental legislation and regulations Report provided – 16 pts If not provided – 0 pts</p> <p>5. List of copy of the list of environmental objectives and targets which are consistent with the environmental policy of your organization. List provided – 16 pts If not provided – 0 pts</p> <p>6. Yes- 4 pt No – 0 pts</p> <p>7. Yes- 4 pt No – 0 pts</p> <p>8. Emergency preparedness and Response Plan provided - 16 pt If not provided – 0 pts</p> <p>9. Yes- 4 pt No – 0 pts</p>		

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Rating Criteria and Scale	Max Score	Min Score
		6. Has your organization established, implemented and maintained an environmental management program to achieve its objectives and targets? 7. Has your organization’s management team ensured the availability and training of resources required for an effective environmental management? 8. Provide a copy of your Emergency preparedness and Response Plan. 9. Has your organization developed preventive and protective measures, such as the use of engineering controls, to mitigate environmental risks?							
4.2.5	4.3	Does the Bidder/Contractor organization have an Occupational Health and Safety Management	R	<ul style="list-style-type: none">• Bidders should respond by YES, NO or N/A as applicable.• Bidders should provide Remarks/Comments as required.• Bidders should provide additional			If a copy of the OSHAS 18001 or Z1000-06 CSA certificate obtained within the last 3 years by an accredited body is provided, then full points are awarded (100%).	160	

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Rating Criteria and Scale	Max Score	Min Score
		<p>System (OHSMS) certified OSHAS 18001 or Z1000-06 CSA?</p> <p>If Yes, a copy of the OSHAS 18001 or Z1000-06 CSA certificate obtained within the last 3 years by an accredited body is to be submitted with this survey.</p> <p>If No, please answer the questions below:</p> <p>1. Does your organization have an OHS policy signed by top management?</p> <p>If Yes, a copy of the formal OHS policy is to be submitted with this survey. The policy must include a statement of commitment for:</p> <ul style="list-style-type: none"> - Compliance with applicable laws and regulations, -To prevent injury and ill health, and -To continual 		<p>information/ documents as requested in the requirement statement.</p>			<p>If No, a total maximum points of 104 pts are available (65%) as follows:</p> <p>1. Submitted OHS policy is s assessed to the following requirements (total number of points is 24 pts):</p> <p>The policy must be</p> <ul style="list-style-type: none"> - signed by top management. – 6 pt - include a statement of commitment for: <ul style="list-style-type: none"> - compliance with applicable laws and regulations – 6 pt - to prevent injury and ill health – 6 pt - to continual improvement in OHS management – 6 pt <p>2. Yes – 10 pt No – 0 pt</p> <p>3. Copy of the Hazardous materials management program will be evaluated based on the following (total number of points is 40 pts):</p> <p>The Hazardous materials management program must contain information on the:</p> <ul style="list-style-type: none"> - Receipt – 10 pts - Storage – 10 pts - Use – 10 pts - Disposal – 10 pts <p>4. Yes – 10 pt No – 0 pt</p>		

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Rating Criteria and Scale	Max Score	Min Score
		improvement in OHS management. 2. Has your organization developed preventive and protective measures, such as use of personal protective equipment, to mitigate the OHS risks? 3.Does your organization have a hazardous material inventory system in place? 4. Does your organization have a hazardous material management program in place for their receipt, storage, use and disposal? If Yes a copy of the Hazardous material management program is to be submitted with this survey. 5. Are the Bidder/Contractor employees currently trained on WHMIS (Workplace Hazardous					5. Yes – 10 pt No – 0 pt 6. Yes – 10 pt No – 0 pt		

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Rating Criteria and Scale	Max Score	Min Score
		Materials Information System)? 6. Have the Bidder/Contractor identified other OHS training requirements for workers in their organization?							
4.2.6	CEHSPS score							616	
4.3	Table 4 - EHS Evaluation Score						EHSA score + CEHSPS score	1760	

Table 5 – Master Project Schedule and Work Breakdown Structure Management Compliance Matrix

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Rating Criteria and Scale	Max Score	Min Score
5.1	5.1.1	The Bidder must perform the System Qualification Phase work in a maximum duration of nine (9) months.	M	IAW the draft MPS & WBS , completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-003. The MPS & WBS must be in sufficient detail so as to clearly demonstrate the Bidder’s ability to perform the System Qualification Phase work within a nine (9) month duration.			Pass: The draft MPS & WBS submitted demonstrates that the Bidder has all the System Qualification work logically planned within a nine (9) month period between the Kick-off mtg and the closure of the Formal Qualification Review (FQR). Fail: The draft MPS & WBS submitted does not demonstrate that the Bidder has all the System Qualification work planned within a nine (9) month period between the Kick-off mtg and the closure of the Formal Qualification Review (FQR). There are significant weaknesses in the way this Phase is planned.		
5.2	5.1.2	Bidder’s description of the number, scope and duration of activities during the System Qualification Phase starting from the System Requirements Allocation Review (SRAR) and leading up to the Formal Qualification Review (FQR) / Physical Configuration Audit (PCA).	R	IAW the draft MPS & WBS , completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-003. Bidders should provide, as a minimum, a summary Schedule that incorporates the Bidder’s Work Breakdown Structure (WBS) to a level of detail that reflects the main activities consistent			Work packages, associated level of effort and planning activities involved in the System Qualification Phase are detailed in a comprehensive fashion and estimated logically. The MPS and WBS presented are fully supported by the responses to the System Qualification Risk Assessment in Table 1 – Part 2. Long –lead time items required for SAT (32 systems) are well identified and logically planned in the	616	0%

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Rating Criteria and Scale	Max Score	Min Score
				<div>with RFP Volume 2 Annex CC DID PM-003. In particular:<ul style="list-style-type: none">The Project Schedule should include all proposed activities, deliverables and milestones as well as activities necessary to achieve them;Each activity should include at least a planned start and expected finish dates, identified resources, and be linked to all dependencies;Bidders will include an <u>electronic</u> MS Project compatible file (project schedule) with their submission; andThe Bidder is to assume a contract start date of 01 <u>October 2014</u></div>			<div>sequence of events. The proposal supports a High level of confidence that the Project’s nine (9) month target timeframe for the completion of the System Qualification Phase can be satisfied and possibly shorten = 100%. Work packages, associated level of effort and planning activities involved in the System Qualification Phase are detailed in a clear fashion and support by credible estimates. The MPS and WBS presented correspond to the responses provided in the System Qualification Risk Assessment in Table 1 – Part 2. Long –lead time items required for SAT (32 systems) are identified and planned adequately in the sequence of events. The proposal supports a Very Good level of confidence that the Project’s nine (9) month target timeframe for the completion of the System Qualification Phase can be satisfied including limited contingency = 75%. Work packages, associated level of effort and planning activities involved in the System Qualification Phase are detailed in a reasonable fashion and estimated fairly. The MPS and WBS presented are somewhat supported by the responses to the System Qualification Risk Assessment in Table 1 – Part 2. Delivery of the long –lead time items required for SAT (32 systems) may</div>		

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1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Rating Criteria and Scale	Max Score	Min Score
							cause some issues. The proposal supports a Good level of confidence that the Project’s nine (9) month target timeframe for the completion of the System Qualification Phase can be satisfied = 50% Work packages, associated level of effort and planning activities involved in the System Qualification Phase are not detailed adequately and the estimates are doubtful. The MPS and WBS presented are not supported by the responses to the System Qualification Risk Assessment in Table 1 – Part 2. No planning is demonstrated on the issue of 32 system required for SAT or when it is mentioned, it is not supported by the required level of details. The proposal supports a Low level of confidence that the Project’s nine (9) month target timeframe for the completion of the System Qualification Phase can be satisfied. = 0%.		
5.3	5.1.3	Bidders estimated duration for the completion of the Initial Delivery of ISSP Systems at the FOB destination, in <u>working days</u> after a contract amendment authorizing the Production Phase (Initial Delivery is defined here as Task Force #1 equipment delivered).	R	IAW the draft MPS & WBS , completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-003. Bidders should provide, as a minimum, a summary Schedule that incorporates the Bidder’s Work Breakdown Structure (WBS) to a level of detail that reflects the main activities consistent with RFP Volume 2 Annex CC DID PM-003. In particular:			<u>Delivery < 176 WDs = 100%</u> <u>176 WDs < Delivery < 220 WDs = 50%</u> <u>220 WDs < Delivery < 250 WDs = 20%</u> <u>Delivery > 250 WDs = 0%</u>	440	0%

Deleted: 240 WD or more = 0%¶
210-239 WD = 20%¶
190-209 WD = 50%¶
170-189 WD = 100%¶
150-169 WD = 50%¶
149 WD or less = 20%

Deleted: weeks

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Rating Criteria and Scale	Max Score	Min Score
				<ul style="list-style-type: none">The Project Schedule should include all proposed activities, deliverables and milestones as well as activities necessary to achieve them;Each activity should include at least a planned start and expected finish dates, identified resources, and be linked to all dependencies;Bidders will include an <u>electronic</u> MS Project compatible file (project schedule) with their submission; andThe Bidder is to assume a contract start date of 01 <u>October 2014</u>.					
5.4	5.1.4	Depiction of WBS, Activities, Interdependencies, Critical Path, Milestones and Deliverables.	R	<p>IAW the draft MPS & WBS , completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DID PM-003.</p> <p>Bidders should provide, as a minimum, a summary Schedule that incorporates the Bidder’s Work Breakdown Structure (WBS) to a level of detail that reflects the main activities consistent with RFP Volume 2 Annex CC DID PM-003. In particular:</p> <ul style="list-style-type: none">The Project Schedule should include all proposed activities, deliverables and milestones as well as activities necessary to achieve			<ul style="list-style-type: none">Completeness = 10%Clarity, Logic, Readability = 40%Achievability = Low probability = 0% Medium probability = 10% High Probability = 50%	704	0%

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1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Rating Criteria and Scale	Max Score	Min Score
				them; <ul style="list-style-type: none">Each activity should include at least a planned start and expected finish dates, identified resources, and be linked to all dependencies;Bidders will include an <u>electronic</u> MS Project compatible file (project schedule) with their submission; andThe Bidder is to assume a contract start date of 01 <u>October 2014</u>					
5.5	Total MPS & WBS Management Score							1760	60 %

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Table 6 – Acquisition Managerial Mandatory Evaluation Criteria Compliance Matrix

ID	Requirement	RFP Reference	Compliance Matrix Reference	For use by Canada
				Compliant (Yes/No)
6.1	The Bidder must submit Table 1 - Risk Profile Compliance Matrix.	RFP Vol 1 Annex CD, Para 3.1.9	RFP Vol 1, Annex CE, Appendix 1, Table 1	
6.2	The Bidder must achieve a minimum score of 50% of 704 points on the following requirement: There is a risk that the scope of the project exceeds the design, development, and manufacturing capabilities of the successful Bidder.	RFP, Vol 1 Annex CD, Para 3.1.3.1	RFP Vol 1, Annex CE, Appendix 1, Table 1 (ID #1.1.1)	
6.3	The Bidder must achieve a minimum score of 50% of 704 points on the following requirement: There is a risk that the proportion of integration work and/or hardware and software customization associated with the winning solution could be too significant and not achievable within the System Qualification Phase budget and 9-month schedule proposed by DND.	RFP, Vol 1 Annex CD, Para 3.1.3.2	RFP Vol 1, Annex CE, Appendix 1, Table 1 (ID #1.1.2)	
6.4	The Bidder must submit Table 2 - Corporate Capabilities Compliance Matrix	RFP Vol 1 Annex CD, para 3.2.2	RFP Vol 1, Annex CE, Appendix 1, Table 2	
6.5	The Bidder must be experienced in the provision of Command, Control, Communications, Computer and Intelligence (C4I) Systems for the military environment.	RFP Vol 1 Annex CD, para 3.2.1.2	RFP Vol 1, Annex CE, Appendix 1, Table 2 (ID #2.2)	
6.6	The Bidder must achieve the Minimum Mandatory Score of <u>60%</u> out of 4,928	RFP Vol1 Annex CE, para 4.3.3	RFP Vol 1, Annex CE,	

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ID	Requirement	RFP Reference	Compliance Matrix Reference	For use by Canada
				Compliant (Yes/No)
	points on the Corporate Capabilities evaluation.		Appendix 1, Table 2 (ID #2.5)	
6.7	The Bidder must submit a draft Project Management Plan (PMP)	RFP Vol 1 Annex CD, para 3.3.2	RFP Vol 1, Annex CE, Appendix 1, Table 3 (ID #3.1)	
6.8	The Bidder must achieve the Minimum Mandatory Score of 70% out of 634 points on the evaluation of their PMP.	RFP Vol 1 Annex CE, para 4.4.3.1	RFP Vol 1, Annex CE, Appendix 1, Table 3 (ID #3.1.13)	
6.9	The Bidder must submit a draft SEMP System Engineering Management Plan (SEMP)	RFP Vol 1 Annex CD, para 3.3.3	RFP Vol 1, Annex CE, Appendix 1, Table 3 (ID #3.2.1)	
6.10	The Bidder must submit a draft Verification and Qualification Plan (VQP)	RFP Vol 1 Annex CD, para 3.3.3	RFP Vol 1, Annex CE, Appendix 1, Table 3 (ID #3.2.2)	
6.11	The Bidder must achieve the Minimum Mandatory Score of 70% out of 634 points on the evaluation of their SEMP and VQP.	RFP Vol 1 Annex CE, para 4.4.3.2	RFP Vol 1, Annex CE, Appendix 1, Table 3 (ID #3.2.3)	
6.12	The Bidder must submit Integrated Logistic Support (ILS) Plan	RFP Vol 1 Annex CD, para 3.3.4	RFP Vol 1, Annex CE, Appendix 1, Table 3 (ID #3.3.1)	
6.13	The Bidder must submit a draft Maintenance Plan	RFP Vol 1 Annex CD, para 3.3.4	RFP Vol 1, Annex CE, Appendix 1, Table 3 (ID #3.3.2)	
6.14	The Bidder must submit a draft Training Program Plan	RFP Vol 1 Annex CD, para 3.3.4	RFP Vol 1, Annex CE, Appendix 1,	

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ID	Requirement	RFP Reference	Compliance Matrix Reference	For use by Canada
				Compliant (Yes/No)
			Table 3 (ID #3.3.3)	
6.15	The Bidder must achieve the Minimum Mandatory Score of 70% out of 845 points on the evaluation of their ILSP, Maintenance Plan and Training Program Plan.	RFP Vol 1 Annex CE, para 4.4.3.3	RFP Vol 1, Annex CE, Appendix 1, Table 3 (ID #3.3.4)	
6.16	The Bidder must submit Table 3 - Management Plans Compliance Matrix	RFP Vol 1 Annex CD, para 3.3.5	RFP Vol 1, Annex CE, Appendix 1, Table 3	
6.17	The Bidder must submit the Table 4 – Environmental Health and Safety Compliance Matrix	RFP Vol 1 Annex CD, para 4.4	RFP Vol 1, Annex CE, Appendix 1, Table 4	
6.18	The Bidder must submit a partial draft EHSA.	RFP Vol 1 Annex CD, para 4.2.1	RFP Vol 1, Annex CE, Appendix 1, Table 4 (ID #4.1)	
6.19	The Bidder must submit the draft Master Project Schedule and Work Breakdown Structure (in MS Project compatible file).	RFP Vol 1 Annex CD, para 5.1	RFP Vol 1, Annex CE, Appendix 1, Table 5	
6.20	The Bidder must submit Table 5 – Master Project Schedule and Work Breakdown Structure Management Compliance Matrix	RFP Vol 1 Annex CD, para 5.2	RFP Vol 1, Annex CE, Appendix 1, Table 5	
6.21	The Bidder must perform the System Qualification Phase work within a nine (9) month duration.	RFP Vol 1 Annex CD, para 5.1.1	RFP Vol 1, Annex CE, Appendix 1, Table 5 (ID #5.1)	
<u>6.22</u>	<u>The Bidder must achieve the minimum mandatory score of 60% of 1760 points on the evaluation of the MPS and WBS Management Compliance Matrix</u>	<u>RFP Vol 1 Annex CE, para 6.3.1</u>	<u>RFP Vol 1, Annex CE, Appendix 1, Table 5 (ID #5.5)</u>	

ANNEX CF TO VOLUME 1

Section VI – ISS – OWSS Technical Bid Preparation Instructions

This annex details how the OWSS Technical Bid will be prepared.

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1 General

1.1 In their Technical Bid for in-service support, Bidders must demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders must demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

1.2 The Technical Bid for in-service support must address clearly and in sufficient depth the requirements against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. To avoid duplication, Bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

1.3 Evaluation will be based on the Bidder's response on how he proposes to meet the in-service performance requirements post contract award.

1.4 The technical performance levels proposed by the successful Bidder will form the basis for technical performance review post contract award.

1.5 The information required is grouped under the following topics as described in each section below:

1.5.1 Technical Performance Requirements including:

- 1.5.1.1 Program Management Performance;
- 1.5.1.2 Supply Support Performance;
- 1.5.1.3 Technical Support Performance; and
- 1.5.1.4 Engineering Support Performance;

1.5.2 Life Cycle Costs (LCC).

2 Technical Compliance Matrices

2.1 The Technical Compliance Matrices (Appendix 1 to Annex CG to Volume 1) are provided to assist the Bidders in completing their response to the technical requirements of the RFP for the OWSS contract.

2.2 In order to establish full and unreserved compliance with all technical requirements of the RFP for OWSS, the Bidder must demonstrate compliance by providing statements as requested under columns 6 and 7.

2.3 The matrix has the following columns:

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2.3.1 Information provided by DND:

- 2.3.1.1 Column 1: ID. This section provides sequential item numbering.
- 2.3.1.2 Column 2: Requirement Reference. In Table 1, this column provides the requirement reference section or para number from Volume 1 Annex CF; in Table 2, this column provides the requirement reference section or para number from Volume 1 Annex CF Appendix 1.
- 2.3.1.3 Column 3: Requirement Statement. This is the OWSS Technical Requirement statement against which Bidders will be assessed.
- 2.3.1.4 Column 4: Requirement Category. This column specifies if the requirement is a Mandatory requirement with designation “M”, or a Point Rated requirement with the designation “R”.
 - 2.3.1.4.1 M: when the requirement category is indicated as “M”, the Mandatory requirement is evaluated based on the Bidders response. Failure to meet a Mandatory requirement will make the bid non-compliant. Bids not meeting the Mandatory requirement will be given no further consideration.
 - 2.3.1.4.2 R: when the requirement category is indicated as “R”, the Rated requirement is evaluated based on the Bidders response; the credibility of the capability offered and potential for success will be rated; the requirement is assigned a score based on the established Evaluation Criteria and Scale. For any Rated requirement for which there is a minimum pass mark, failure to reach the passing mark will make the bid non-compliant. Bids not meeting the passing mark will be given no further consideration. A score will be given for each Rated requirement and will be used to determine the Bidder’s total Technical score.
- 2.3.1.5 Column 5: Instructions to Bidder. This column specifies the information to be provided by the Bidder.
- 2.3.1.6 Column 8: Evaluation Criteria and Scale. This column describes the details of how the Bidder’s response will be evaluated to determine the Bidder’s level of Compliance to the requirements. This column specifies the scoring method and the range of scores that will be used to assess each rated evaluation criterion.
- 2.3.1.7 Column 9: Score. This column specifies the maximum allocation of points, establishes any Minimum Pass Mark, where applicable, associated with each rated evaluation criterion.

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2.3.2 Information provided by the Bidder:

- 2.3.2.1 Column 6: Bidder's Compliance. In this column the Bidders must specify that their Proposal is compliant or non-compliant by using the words "COMPLIANT" or "NON-COMPLIANT". The aforementioned compliance terms have the following meaning:
- 2.3.2.1.1 COMPLIANT indicates that the Bidder claims that his proposal complies totally with the Mandatory requirement, or achieves the Rated requirements passing mark (if and when applicable), and that the Bidder has submitted all information and supporting documentation requested.
- 2.3.2.1.2 NON-COMPLIANT indicates that the Bidder cannot claim that his proposal meets the Mandatory requirement or reach the Rated requirements passing mark. It automatically makes a Bidder's proposal non-compliant
- 2.3.2.2 Column 7: Bidder's Response. In this column the Bidders must, when requested in column 5 titled "Instructions To Bidders", provide a description of compliance to Mandatory or Rated requirements by providing a statement which clearly supports/justifies the response provided as requested under the column "Instructions To Bidders"; and/or demonstrate compliance to Mandatory or Rated requirements by pointing specifically to the appropriate section of a Plan, Survey and/or Report that is included in the proposal for that purpose. When referring to other portions of their proposal, the Bidder must include clear directions regarding where the relevant information required for evaluation can be found. References to Web pages are forbidden. The Bidder's proposal must be complete by itself.

3 Technical Performance Requirements

3.1 Program Management Performance

- 3.1.1 The Bidder should submit description of process as well as confirmation of response time for the following aspects:
- 3.1.1.1 Submission of Task Proposals on receipt of Task Requests;
- 3.1.1.2 Provision of access to technical data including product engineering drawings, data list and references documents (TDP); and;
- 3.1.1.3 Technical Problem Management process that will address the requirement for a range of priority levels.
- 3.1.2 The Bidder's response to Rated requirements will be evaluated in accordance with RFP Volume 1 Annex CG Appendix 1 – Part 1 of Table 1.

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3.2 Supply Support Performance

- 3.2.1 The Bidder should submit description of process as well as confirmation of response time for the following aspects:
 - 3.2.1.1 Provision of a complete Spare Parts Proposal; and
 - 3.2.1.2 Provision of Repair & Overhaul services in accordance with agreed TAT.
- 3.2.2 The Bidder's response to Rated requirements will be evaluated in accordance with RFP Volume 1 Annex CG Appendix 1 – Part 2 of Table 1.

3.3 Technical Support Performance

- 3.3.1 The Bidder should submit description of process as well as confirmation of response time for some of the following aspects:
 - 3.3.1.1 ISS Reconstitution service in accordance with agreed TAT; and
 - 3.3.1.2 FSR services to respond to Canada's needs upon request.
- 3.3.2 The Bidder's response to Rated requirements will be evaluated in accordance with RFP Volume 1 Annex CG Appendix 1 – Part 3 of Table 1.

3.4 Engineering Support Performance

- 3.4.1 The Bidder should submit description of process as well as confirmation of response time to address requests for technical information (other than TDP data) and clarification on the delivered product.
- 3.4.2 The Bidder's response to Rated requirements will be evaluated in accordance with RFP Volume 1 Annex CG Appendix 1 – Part 4 of Table 1.

- 3.5 The Bidder must submit completed Table 1 – Technical Performance Compliance Matrix, Parts 1 to 4, which can be found in Appendix 1 to Annex CG to Volume 1.

4 **Life Cycle Costs (LCC)**

- 4.1 Life Cycle Costs (LCC) are important in determining the total cost of ownership. For ISSP, a comparative LCC analysis will be included in the bid evaluation of proposed ISS.

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- 4.2 The Bidder should submit the completed Data Templates found in Appendix 1 to this Annex. The Appendix includes the Preparation Instructions for completion of the Data Templates.
- 4.3 The Bidder's completed Data Templates, and associated costing information from RFP Volume 1 Section VIII ISS-OWSS Financial Bid, will be used to determine the LCC of their proposed ISS system. The analysis will use selected operational parameters that are consistent with the mission profile at RFP Volume 2 Annex CB Appendix 3 and determine a life cycle cost to DND of the proposed ISS System over an eight (8) year projected service life.
- 4.4 In completing the analysis, DND will use its Supportability Analysis software, Omega PS Analyzer Release R4.3, available from Pennant Canada Limited, to determine the LCC from the submitted data.
- 4.5 Bidders should ensure that all LCC data provided in response to this RFP is accurate and complete.
- 4.6 The Bidder's response to Rated requirements will be evaluated in accordance with RFP Volume 1 Annex CG Appendix 1 Table 2.

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APPENDIX 1 TO ANNEX CF TO VOLUME 1

LCC DATA REQUIREMENTS PREPARATION INSTRUCTIONS

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[2 . MISSION SCENARIO . 2¶](#)
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1 GENERAL

1.1 The Bidder must submit data and costing information to determine an evaluated Life Cycle Cost (LCC) to DND over the eight (8) year service life of the equipment being proposed.

1.2 The cost factors to be used in determining a Bidder's LCC are the following:

- Preventive and Corrective Maintenance Costs (labour and parts);
- Contractor Repair & Overhaul Costs;
- Spare Parts Costs;
- Special Tools and Test Equipment (STTE) (acquisition, set-up and maintenance) Costs; and
- Power Consumption (battery) Costs.

2 MISSION SCENARIO

2.1 LCC costs will be based on sustaining a Mission Specific Task Force (MSTF) deployment, consisting of two 'Task Forces' each outfitted with 628 ISS-S systems. Systems will operate through a standard Battlefield Day (BD) on a continuous basis as defined in RFP Volume 2, Appendix 3 to Annex CB, for the eight (8) year life of the system. The support pipeline to sustain these systems at a 90% steady state operational availability is to be modeled using the OmegaPS Analyzer software.

2.2 The support plan envisions up to 3 Lines of Maintenance (LOM), being:

- 1st Line - DND provided integral support within operational units,
- 2nd Line - DND provided formation support, and
- 3rd Line - Contractor R&O.

2.3 The inclusion of the DND 1st and/or 2nd line is dependent upon the Bidder's proposed Maintenance Plan. For example if a Bidder's maintenance plan does not include any 2nd line repair, this line of repair will not be included in the LCC support model.

3 DATA TEMPLATES

3.1 A fully completed set of LCC Data Templates, included in the RFP Data Submission CD that contains the Microsoft Excel Matrix of Compliance Module (MCM) file "ISS-LCC_Templates_V1.XLS" (see RFP article 2.7 of Volume 1), must be submitted by Bidders.

3.2 There are six Data Templates that must be completed. Refer to Appendix 2 to Annex CG for a description of where and how this data is to be used in OmegaPS Analyzer software:

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3.2.1 Template 1 - Generic System Data Template. This template details the composition of the Bidder's proposed system to the LRU level and associated reliability and cost data.

3.2.2 Template 2 - Corrective Maintenance Data Template. This template, based on the Bidder's Maintenance Plan, provides details on equipment repair and LRU removal/replacement corrective action costs.

3.2.3 Template 3 - Preventive Maintenance Data Template. This template, based on the Bidder's Maintenance Plan, provides details on equipment preventive maintenance action costs.

3.2.4 Template 4 - STTE Data Template. This template, based on the Bidder's Maintenance Plan, details any Special Tools and Test Equipment (STTE) required by DND for its 1st or 2nd line maintenance.

3.2.5 Template 5 – ISS Non-Rechargeable Battery Cost Template. This template details battery usage costs for the Bidder proposed system when using non-rechargeable power sources.

3.2.6 Template 6 – ISS Rechargeable Battery Cost Template. This template details battery usage costs for the Bidder proposed system when using rechargeable power sources.

3.3 All template data fields must have a value entered unless specifically stated otherwise. If the value is zero, then ensure a zero (0) is entered in the cell. Any blank or empty cells will be interpreted to have a value of zero (0) if it is a number field or as a null value if it is a text field.

4 TEMPLATE 1 - GENERIC SYSTEM DATA

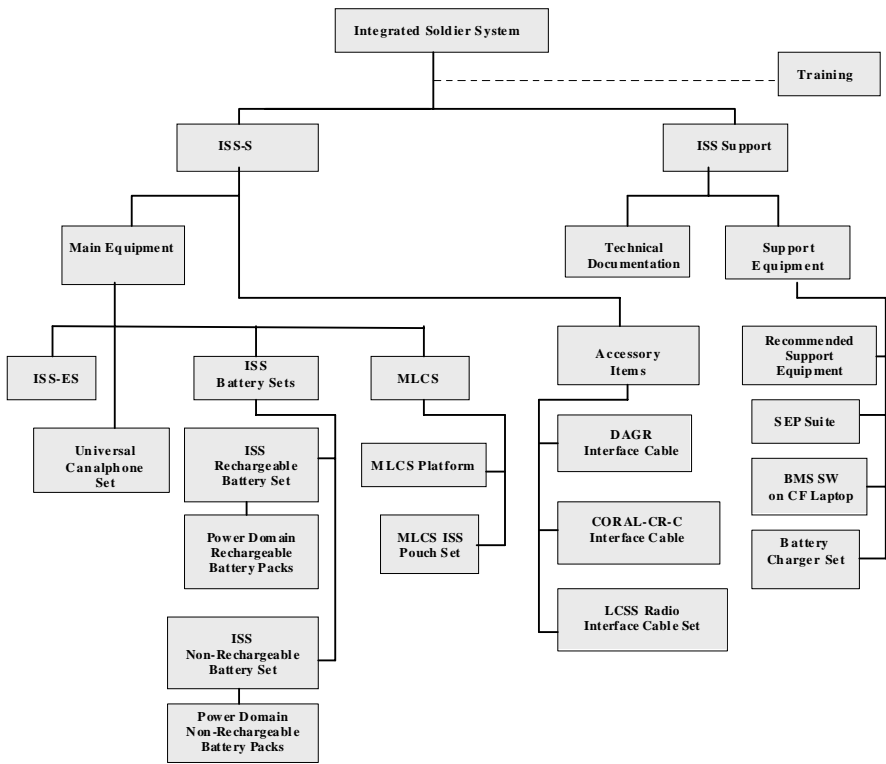
4.1 The Generic System Data template is to reflect the Equipment Breakdown Structure (EBS as defined in Volume 2 Annex CC Appendix 2) of the Bidder's proposed system to the Line Replaceable Unit (LRU) level and defines all the physical devices and components that are the LRUs that make up the ISS-S Main Equipment. These LRUs are established by the Bidder based on his P (Bid) System design and EBS being delivered as specified in Appendix 2 to Annex CB to Volume 1.

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4.2 The Bidder's solution must be categorized into applicable LRUs that must completely encompass all of the requirements of the ISS-S Main Equipment as depicted in Figure 1 below and specified in the TPS of Appendix 1 to Annex CB to Volume 2. The ISS-S Accessory Items are not to be included in this template. All the LRUs of the ISS-S Main Equipment, with the

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exceptions noted below, are to be listed in this template and will be validated against the proposed EBS of DID CM-005 found in Volume 2 Annex CC Appendix 2.



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Figure 1 - ISS Equipment Deliverables Illustration

4.3 The Modular Load Carriage System (MLCS) Platform and ISS Pouch Set, and the Universal Canalphone Set, although deliverable pieces of equipment in this RFP, are not to be considered as part of the ISS-S for this LCC evaluation.

4.4 Bidders must complete Template 1 - Generic System Data Template included in the RFP Data Submission CD. Figure 2 below shows this template filled in with sample data. The sample data provided is intended to show format only and in no way implies any type of real data or expected values. A description of the information required for each column of the template is provided below:

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4.4.1 LRU Item Name. This is the LRU. Its proper nomenclature should be entered. Enter the LRUs as detailed in the EBS provided in Appendix 2 to Annex CB to Volume 1. All LRUs of the ISS-S Main Equipment must be included, with the exceptions noted below, and encompass all of the requirements of the ISS-S as detailed in the TPS of Appendix 1 to Annex CB to Volume 2. The resultant list of LRUs must be the same as those provided in the EBS in Appendix 2 to Annex CB to Volume 1 and will define the ISS-S to the LRU level. The example in Figure 2 has been populated with a sample listing of LRUs for ease of understanding.

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4.4.2 ISS Batteries are not to be included in this template as they will be dealt with in the ISS Battery Cost Templates section, however any other power infrastructure components associated with the ISS Battery Sets, such as battery loading/storage devices, cabling, etc. are to be included.

4.4.3 The MLCS Platform, and ISS pouches, although deliverable pieces of equipment in this RFP, are not to be considered as part of the ISS-S system for LCC evaluation and, thus are not to be entered as an LRU in this template.

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4.4.4 The Universal Canalphones, although a deliverable piece of equipment in this RFP, are considered to be consumables and not to be included in this LCC evaluation and, thus are not to be entered in this template. Canalphones are defined in Annex CA to Volume 2 and are considered as a separate consumable item to any Audio Display headset or earphone they may be connected to. Audio Display excluding canalphones is a LRU.

4.4.5 Cabling is to be itemized by applicable LRU. In specific, if the whole cabling harness (all cables) is replaced upon a failure, then only one line item is required with Qty per System marked as 1. If cables are replaced independently upon failure, then include each cable separately in the template with Qty per System marked as 1, or if all cables are identical (i.e. the same part number), then include as one line item in the template, but mark Qty per System with the number of cables.

4.4.6 Description. Provide a brief description of the LRU.

4.4.7 Qty per System. This is the number of identical LRUs (i.e. the same part number) that exist within the parent ISS-S. A number must be entered in this field.

4.4.8 MTBF (hrs). This is the Mean Time Between Failures (MTBF) in operating hours of the LRU. Enter the MTBF of the LRU as provided in response to Technical Performance Specification TPS 2049 of Appendix 1 to Annex CB to Volume 2. Acceptable substantiation of these measured or estimated values must also be provided as part of that Technical Performance Specification.

4.4.9 MTBF Determination Method (Measured, Lab, Prediction). The Bidder must select the appropriate method as per the definitions in paragraph 4.7 to Annex CG and

Deleted: <#>The MLCS ISS Pouch Set is to be itemized by applicable LRU. In specific, if the whole set (all pouches) are replaced upon one failing, then only one line item is required for the ISS Pouch Set with Qty per System marked as 1. If each pouch is replaced independently upon failure, then include each pouch as a separate line item in the template with Qty per System marked as 1, or if all pouches are identical (i.e. the same part number), then include as one line item in the template, but mark Qty per System with the number of pouches.¶

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enter the appropriate acronym (M, L, or P). The selected method must correspond with the substantiation provided in response to Technical Performance Specification TPS-2049 of Appendix 1 to Annex CB to Volume 2.

4.4.10 Procurement Lead Time (months). This is the time, in months, to acquire a new LRU from the contractor / manufacturer, when an LRU is beyond repair and discarded. By definition, this value is the length of time that the LRU is not in the supply pipeline.

4.4.11 LRU Spares Replacement Cost. The cost will be filled in by Canada and will be from the Bidders Financial Proposal.

4.4.12 Help on the definition of each data item is provided by placing the cursor over the column header in the template.

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LRU Item Name	Description	Qty per System	MTBF (hrs)	MTBF Determination Method (Measured, Lab, Prediction)	Procurement Lead Time (months)	LRU Spares Replacement Cost (Unit Price)
ISS-S System	Prime Equipment. Full System	Do not use	Do not use	Do not use	Do not use	Do not use
Communication Suite	Includes Radio & Antenna	1	7,600	L	2	Do not use
Computer	Includes Battle Management Hardware & Software, and System Management functionality	1	2,000	L	2	Do not use
Tactical UI	Includes Tactical Display, Text Entry and Touch Screen	1	7,500	P	2	Do not use
Audio Display	Headset with Hearing Protection. Excludes canalphones.	1	13,333	L	2	Do not use
Wired PTT	Press to Talk device	1	13,333	L	2	Do not use
Integrated GPS	Includes integrated SAASM capable GPS or commercial GPS with interface to DAGR	1	8,000	M	2	Do not use
Bearing Indicator	Digital compass & relative bearing indicator	1	10,000	M	2	Do not use
Cabling	Includes necessary cables/wiring harness with end connectors.	1	2,400	L	2	Do not use
External Data Storage	Removable mass storage device.	1	10,000	P	2	Do not use

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Figure 2: Template 1 – Generic System Data Template with Sample Data

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5 TEMPLATE 2 - CORRECTIVE MAINTENANCE DATA

5.1 Corrective Maintenance Tasks are those tasks that result in the repair or replacement of a non-functioning LRU. Both equipment repair and LRU removal/replacement are considered Corrective Maintenance actions. These tasks must be consistent with those in the Bidder's proposed Maintenance Plan of DID LS-005.

5.2 Corrective Maintenance Data must be based on the Bidder's proposed LRUs as defined in Template 1 above. This data will be used to determine the sparing required to achieve the availability target as well as to complete the LCC calculations. It is provided for each LRU and includes the labour times for the removal/replacement of the LRU as well as for repairs at 1st and 2nd line maintenance.

5.3 For LRU removal/replacement and DND 1st and 2nd line maintenance, DND labour rates will be used to determine labour costs. The DND labour rates are provided by Canada.

5.4 The Bidder must complete Template 2 - Corrective Maintenance Data Template included in the RFP Data Submission CD. Figure 3 below shows this template filled in with sample data. The sample data provided is intended to show format only and in no way implies any type of real data or expected values. A description of the information required for each column of the template is provided below:

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5.4.1 LRU Item Name. The Corrective Maintenance Data is to be provided by LRU as defined in Template 1.

5.4.2 LRU Remove/Replace Time (hrs). This is the mean labour time (in person-hours) required to perform removal of the failed LRU, replace it with a functioning LRU and restore service. (For example if it takes two people 15 minutes then the value to input is 0.5 hours).. It includes fault detection and isolation, replacement and reconfiguration of the faulty LRU, adjustment, calibration, checks and restoring full service. The data provided is to be actual times and not target values. These times will be validated against those provided in the Bidder's draft Maintenance Plan of Vol 2, Annex CC, App 2, DID LS-005. These values are used with the DND labour rate to determine DND labour costs.

5.4.3 Repair Capability (%) at DND 1st Line. This is an estimate of the percentage of LRU repairs at 1st line that are completed on the LRU itself by testing, correcting faults, repairing or replacing parts and/or adjustment of an item. These values must be consistent with the Bidder's proposed Maintenance Plan of DID LS-005. If no repair of the LRU is planned at this LOM, then enter 0 in this field.

5.4.4 Labour Time (hrs) at DND 1st Line. This is the mean number of person-hours at the 1st LOM required to repair the LRU and restore it as a fully functional item. (For example if it takes three people 4 hours then the value to input is 12 hours). The data

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provided is to be actual times and not target values. These times will be validated against those provided in the Bidder's draft Maintenance Plan. These values are used with the DND labour rate to determine DND labour costs. If no repair of the LRU is planned at this LOM, then enter 0 in this field.

5.4.5 Repair Capability (%) at DND 2nd Line. This is the percentage of LRU repairs at 2nd line that are completed by testing, correcting faults, repairing or replacing parts and/or adjustment of an item. These values must be consistent with the Bidder's draft Maintenance Plan. If no repair of the LRU is planned at this LOM, then enter 0 in this field.

Note - each LOM value is supplemental, that is, it is assumed that a LOM can conduct all maintenance of the lower LOMs, plus its own stated capability. For example, if the Repair Capability is 25%, 25%, 30% over the first three LOMs, then LOM 2 can do 50% and LOM 3 80%.

5.4.6 Labour Time (hrs) at DND 2nd Line. This is the mean number of person-hours at the 2nd LOM, required to repair the LRU and restore it as a fully functional item. The data provided is to be actual times and not target values. These times will be validated against those provided in the Bidder's draft Maintenance Plan. These values are used with the DND labour rate to determine DND labour costs. If no repair of the LRU is planned at this LOM, then enter 0 in this field.

5.4.7 Average Repair Material Cost (%). This is the average cost per repair of the materials and parts used to repair the LRUs at 1st and/or 2nd line, expressed as a percentage of the LRUs cost. The value represents the cost of such materials as gaskets, sealant, fasteners, LoRUs or other parts not included as an LRU in the equipment breakdown structure. These values must be consistent with the Bidder's draft Maintenance Plan and the LRU Spares Replacement Unit Price, LoRU Spares Replacement Unit Price, and CBIL materials ceiling unit prices provided in the Financial Proposal. If no repair of the LRU is planned at either 1st or 2nd line, then enter 0 in this field.

5.4.8 Repair Capability (%) at Contractor. This is the percentage of LRU repairs conducted by the Contractor that are completed by testing, correcting faults, repairing or replacing parts and/or adjustment of an item. These values must be consistent with the Bidder's draft Maintenance Plan. If no repair or overhaul of the LRU is planned at this, then enter 0 in this field.

Note - each LOM value is supplemental, that is, it is assumed that a LOM can conduct all maintenance of the lower LOMs, plus its own the stated capability. For example, if the Repair Capability is 25%, 25%, 30% over the first three Lines of Maintenance, then LOM 2 can do 50% and LOM 3 (Contractor) 80%. The remaining repair capability after Contractor repair (i.e. 100 – sum of all LOMs %) is considered the discard rate at Contractor.

5.4.9 Turn Around Time (Days) at Contractor. This is the time required for the Contractor to effect the repair or overhaul of the LRU. It is measured in working days from the time the Contractor receives a faulty LRU until a working LRU is ready for shipping from the Contractor's facility. This value is used in Sparing in the computation of expected re-supply delays for each LRU at the Contractor (time waiting for a spare on backorder). This time must be the same as the Bidder's working days TAT response provided in Table 1 Part 2 to Appendix 1 to Annex CG to Volume 1 OWSS Technical Performance Evaluation Criteria on Supply Support Performance (R&O Turnaround Time).

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5.4.10 Contractor Repair Cost (%). This is the average cost per LRU, expressed as a percentage of the LRUs cost, for repairs or overhaul performed by the Contractor. These costs must be consistent with the LRU Spares Replacement Cost, the Repair Capability (%) at Contractor and the R&O rates provided in the Financial Proposal. The basis of estimation for the value provided must be described in the Justification of Contractor Repair Cost field and be consistent with the draft Maintenance Plan. If no repair or overhaul of the LRU is planned at the Contractor LOM, then enter 0 in this field.

5.4.11 Justification of Contractor Repair Cost. Provide a brief description detailing the basis for the Contractor Repair Cost (%) provided in paragraph 5.4.10. This should consider the typical repair and overhaul tasks of the LRU and include parts, labour and materials used on average. Express in terms of average repair time including test and administration time, typical LoRUs repaired or replaced and materials used. This description must substantiate the value provided in the Contractor Repair Cost (%) field and must be consistent with the draft Maintenance Plan. If no repair or overhaul of the LRU is planned at the Contractor LOM, then leave this field blank. Example responses are provided;

"5 hrs labour. Screen, board, connectors replaced."

"10 hrs labour. All LoRUs rebuilt. Plus shop materials"

"6 hrs labour. All internal components replaced".

5.4.12 Help on the definition of each data item is provided by placing the cursor over the column header in the template.

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LRU Item Name	LRU Remove/Replace Time (hrs)	Repair Capability (%) @ DND 1st Line	Labour Time (hrs) @ DND 1st Line	Repair Capability (%) @ DND 2nd Line	Labour Time (hrs) @ DND 2nd Line	Average Repair Material Cost (%)	Repair Capability (%) @ Contractor	Turn Around Time (Working Days) @ Contractor	Contractor Repair Cost (%)	Justification of Contractor Repair Cost
ISS-S System	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use
Communication Suite	0.40	10	0.30	10	0.75	5	50	120	50	6 hrs labour. All internal components replaced
Computer	0.35	10	0.40	10	0.90	5	50	120	50	10 hrs labour. All LoRUs rebuilt. Plus shop materials
Tactical UI	0.15	0	0.00	0	0.00	0	30	120	35	5 hrs labour. Screen, board, connectors replaced
Audio Display	0.10	10	0.35	10	0.75	5	50	120	35	6 hrs labour. All internal components replaced
Wired PTT	0.10	10	0.30	10	0.65	5	50	120	35	10 hrs labour. All LoRUs rebuilt. Plus shop materials
Integrated GPS	0.08	0	0.00	0	0.00	0	50	120	35	6 hrs labour. All internal components replaced
Bearing Indicator	0.08	0	0.00	0	0.00	0	50	120	35	10 hrs labour. All LoRUs rebuilt. Plus shop materials
Cabling	0.17	20	0.45	30	0.75	50	0	0	0	
Battery Loading/Storage Device	0.17	10	0.45	10	0.85	5	50	120	35	6 hrs labour. All internal components replaced
External Data Storage	0.01	0	0.00	0	0.00	0	0	0	0	

LRU Item Name	Repair Capability (%) @ Contractor
ISS-S System	Do not use
Communication Suite	
Computer	
Tactical UI	
Audio Display	
Wired PTT	
Integrated GPS	
Bearing Indicator	
Cabling	
Battery Loading/Storage Device	
MLCS ISS Pouch Set	
External Data Storage	

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Figure 3: Template 2 – Corrective Maintenance Data Template with Sample Data

6 TEMPLATE 3 - PREVENTIVE MAINTENANCE DATA

6.1 Should any Preventive Maintenance beyond operator maintenance, such as checks, inspections, cleaning, and canalphone replacement be required, the Bidder must identify and define these tasks. Preventive Maintenance (PM) Tasks are all tasks that are scheduled events, incurring technician labour, parts and/or materials costs, based upon usage or calendar time (e.g. inspections, adjustments, calibration, etc.). These must be consistent with those in the Bidder's proposed Maintenance Plan of DID LS-005.

Deleted: All identified PM tasks must also be traceable to tasks or repair time schedules in any provided technical manuals (e.g. User Manual; Technical Manual; Standard Repair Time (SRT) Tables; etc.).

6.2 Preventive Maintenance Data must be based on the Bidder's proposed LRUs as defined in Template 1 above. This data will be used to determine the cost for PM labour, parts and materials throughout the life of the system.

6.3 The Bidder's servicing intervals are to be based on the usage patterns of the Battlefield Day as outlined in the MSTF Mission Profile of Appendix 3 to Annex CB to Volume 2. The PM parts are those items that are replaced during a PM task. The PM materials are those consumable items used during a PM task. The PM labour hours are those labour hours associated with the performance of the specific task.

6.4 DND labour rates will be used to determine PM labour costs. The DND labour rates are provided by Canada.

6.5 The Bidder must complete Template 3 - Preventive Maintenance Data Template included in the RFP Data Submission CD if PM is required as part of the Bidder's draft Maintenance Plan. All technician performed PM tasks must be entered and will be validated against those in the draft Maintenance Plan. Figure 4 below shows this template filled in with sample data. The sample data provided is intended to show format only and in no way implies any type of real data or expected values. A description of the information required for each column of the template is provided below:

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6.5.1. LRU Item Name. The PM Data is to be provided by LRU as defined in Template 1.

6.5.2.If no technician performed PM is required for a particular LRU, then enter "N/A" in the "Task Description" and do not enter any other data fields.

6.5.3.If more than one PM task is required per LRU and at a different frequency, then enter the LRU again at the bottom of the list and provide the additional "Task Description", MTBPM, labour time and cost data. In this case, the separate tasks will be rolled up by Canada into one PM task per LRU for entry into the OmegaPS Analyzer model. This will be done as follows:

6.5.3.1 The rolled up MTBPM is the inverse of the sum of the individual frequencies, or the inverse of the sum of the inverses of the individual MTBPMs. For the Computer sample data below this equates to 103 hours.

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6.5.3.2 The rolled up Average PM Labour Time is calculated as the weighted average of the individual Average PM Labour Times, weighted by the frequency of the individual PM tasks. For the Computer sample data below this equates to 0.28 hours.

6.5.3.3 The rolled up Average PM Material Cost is calculated as the weighted average of the individual PM Material Costs, weighted by the frequency of the individual PM tasks. For the Computer sample data below this equates to 1.5%.

6.5.4. Task Description. Provide a brief description of the PM Task. If no PM is required for a particular LRU, then enter "N/A" and do not enter any other data fields.

6.5.5. MTBPM (hrs). This is the Mean Time Between Preventive Maintenance for the LRU and associated task, measured in operating hours. This provides the frequency of the PM and should correspond to the BD usage pattern. If the frequency is calendar based (i.e. weekly, monthly, etc) use the BD usage of 22 hrs per BD to translate into operating hours. This frequency will be validated against those provided in the Bidder's draft Maintenance Plan.

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6.5.6. Average PM Labour Time (hrs). This is the mean number of person-hours required to perform this PM task. The times provided are to be actual times and not target values. These times will be validated against those provided in the Bidder's draft Maintenance Plan. These values are used with the DND labour rate to determine PM labour costs.

6.5.7. Average PM Material Cost (%). This is the average cost of the materials and parts used in the PM task, expressed as a percentage of the LRUs cost. The value represents the cost of such materials as gaskets, sealant, fasteners or other low cost parts not included as an LRU in the equipment breakdown structure. These values must be consistent with the Bidder's draft Maintenance Plan and the LRU Spares Replacement Unit Price, LoRU Spares Replacement Unit Price, and CBIL materials ceiling unit prices provided in the Financial Proposal.

6.5.8. Help on the definition of each data item is provided by placing the cursor over the column header in the template

LRU Item Name	Task Description	MTBPM (hrs)	Average PM Labour Time (hrs)	Average PM Material Cost (%)
ISS-S System	N/A			
Communication Suite	System check and calibration	154	0.33	1.0%
Computer	System check and calibration	154	0.33	2.0%
Tactical UI	N/A			
Audio Display	N/A			
Wired PTT	N/A			
Integrated GPS	N/A			
Bearing Indicator	N/A			
Cabling	N/A			
Battery Loading/Storage Device	N/A			
External Data Storage	N/A			
Computer	Other sample PM task for Computer	308	0.17	0.5%

Figure 4: Template 3 - Preventive Maintenance Data Template with Sample Data

LRU Item Name
ISS-S System
Communication Suite
Computer
Tactical UI
Audio Display
Wired PTT
Integrated GPS
Bearing Indicator
Cabling
Battery Loading/Storage Device
MLCS ISS Pouch Set
External Data Storage
Computer

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7 TEMPLATE 4 - SPECIAL TOOLS AND TEST EQUIPMENT (STTE)

7.1 Should any Special Tools and Test Equipment (STTE) be required for DND 1st or 2nd line maintenance, the Bidder must identify and define this equipment. For the purposes of this analysis, STTE are those tools and test equipment required to support the ISS-S that are outside of the SEP-Suite or Built-In Test (BIT), and that are not standard tools typical of an electronics repair shop. This includes maintenance equipment, tools, metrology and calibration equipment, test equipment and the computer software associated with this equipment. This support equipment must be consistent with those in the Bidder's proposed Maintenance Plan of DID LS-005.

7.2 STTE acquisition, set-up and annual maintenance costs will be used to determine the total STTE cost throughout the life of the system.

7.3 The Bidder must complete Template 4 - STTE Data Template included in the RFP Data Submission CD if any STTE is recommended in the proposed Maintenance Plan for DND 1st or 2nd line maintenance. This data will be validated against that provided in the proposed Maintenance

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Plan of DID LS-005. Figure 5 below shows this template filled in with sample data. The sample data provided is intended to show format only and in no way implies any type of real data or expected values. A description of the information required for each column of the template is provided below:

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7.3.1 STTE Name. This is the STTE item. The proper nomenclature should be entered. If there are no STTE required, leave the template blank and submit.

7.3.2 STTE Description. Provide a brief description of the STTE.

7.3.3 STTE Reference Number. The reference or part number of the STTE item.

7.3.4 For 1st Line Repair Sites. If the STTE is required to support the DND 1st Line Maintenance, enter "Yes". Otherwise, enter "No".

7.3.5 For 2nd Line Repair Sites. If the STTE is required to support the DND 2nd Line of Maintenance enter "Yes". Otherwise, enter "No".

7.3.6 STTE Acquisition Cost. This is the Fixed Acquisition Cost of the STTE. The cost will be filled in by Canada and will be from the Bidders Financial Proposal.

7.3.7 STTE Set-Up Cost. Should there be any initial set-up cost associated with the delivery of the STTE, enter this as a fixed fee. If there is no set-up cost outside of DND labour, then enter \$0.

7.3.8 STTE Annual Maintenance Cost. Should the STTE require any annual maintenance or calibration, include the cost of this as a fixed fee. If there is no annual maintenance, then enter \$0.

STTE Name	STTE Description	STTE Reference Number	For 1st Line Repair Sites	For 2nd Line Repair Sites	STTE Acquisition Cost	STTE Set-Up Cost	STTE Annual Maintenance Cost
ISS-S Test Set	Radio & Computer checks and calibration	12116	Yes	Yes	Do not use	\$1,500.00	\$550.00
					Do not use		
					Do not use		
					Do not use		

Figure 5: Template 4– STTE Data Template with Sample Data

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7.4 Help on the definition of each data item is provided by placing the cursor over the column header in the template.

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8 TEMPLATES 5 & 6 – ISS BATTERY COST TEMPLATES

8.1 As specified in the TPS of Appendix 1 to Annex CB to Volume 2, the Bidders proposed ISS-S must be capable of operating with both a non-rechargeable battery and a rechargeable battery solution. The LCC will take into account both ISS Rechargeable and ISS Non-Rechargeable Batteries. For the purposes of this comparative analysis, the LCC for ISS Batteries will be calculated on the equal usage of ISS Rechargeable Batteries and ISS Non-Rechargeable Batteries over the eight-year service life of the equipment.

8.2 Shipping, transportation, ordering, administration or disposal costs will not be considered. For ISS Rechargeable Batteries, the life cycle cost of the battery charger and provision of electrical power will not be considered.

8.3 The Bidder must complete the ISS Battery Cost Templates for both the ISS Rechargeable Batteries and ISS Non-Rechargeable Batteries in accordance with the following instructions:

8.3.1 For a battery to be included in these ISS Battery Cost Templates, it must be able to be replaced as part of standard ISS-S User Maintenance IAW Technical Performance Specification TPS-5209 and TPS-2070 of Appendix 1 to Annex CB to Volume 2. In this case, ISS-ES Internal Batteries may not be applicable. In specific, if an LRU needs to be removed / replaced and sent to 1st line, 2nd line or the contractor to effect replacement of the internal battery, it is to be considered a corrective maintenance action and its costs are to be included in Template 2 - Corrective Maintenance Data and not the ISS Battery Cost Templates below. If the internal battery replacement is beyond User Maintenance, but can be accomplished without the LRU being removed / replaced, and without significant downtime incurred, then it is to be considered a preventive maintenance task with costs included in Template 3 - Preventive Maintenance Data and not the ISS Battery Cost Templates below

8.3.2 A Power Domain is defined as the interconnection of a Battery Pack and one or more devices through cables and connectors for the purpose of supplying power.

8.3.3 The Power Domain Non-Rechargeable Battery Pack consists of all the ISS Non-Rechargeable Batteries, of the same type, required to operate a power domain at any one time.

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8.3.4 The Power Domain Rechargeable Battery Pack consists of the ISS Rechargeable Batteries, of the same type, within the pack per power domain.

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8.3.5 Depending on the power infrastructure configuration, power may be provided through several different power domains that may consist of different battery types with different energy usages. Here the data by Power Domain Battery Pack is to be provided. For the example of one centralized power pack with a common battery type, only the data for Power Domain Battery Pack 1 would need to be filled in and this would include the

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total complement of ISS Batteries within that Battery Pack with their subsequent number of recharge or replacement cycles.

8.3.6 In determining the number of ISS Non-Rechargeable Batteries or ISS Rechargeable Battery recharges required per BD, the following definitions apply:

8.3.6.1 Quantity of Power Domain Non-Rechargeable Battery Pack is the number of Non-Rechargeable Battery Packs required for the system to operate a full BD, by power domain, following the usage profile of a BD as described in Section 3.1 Battlefield Day (BD) Profile of Appendix 3 to Annex CB to Volume 2 - Mission Profile and Operation Mode Summary.

8.3.6.2 Quantity of Power Domain Rechargeable Battery Pack is the number of Rechargeable Battery Packs required for the system to operate a full BD without having to recharge any batteries, by power domain, following the usage profile of a BD as described in Section 3.1 Battlefield Day (BD) Profile of Appendix 3 to Annex CB to Volume 2 - Mission Profile and Operation Mode Summary.

8.3.7 For each Power Domain Battery Pack, the full complement of ISS Batteries must be replaced (or recharged) at the same time and not just a portion of them. This particularly applies at the end of a BD should a partial pack use be determined. In this case, the full complement of ISS Batteries must be replaced or recharged to ensure the ISS Batteries are fully topped-up for the start of the next BD. Thus, for determining the Quantity of Power Domain Battery Pack, any partial pack use at the end of the BD must be rounded up and deemed a full pack used.

8.3.8 For ISS Rechargeable Batteries, the life expectancy is the number of charge/discharge cycles until the ISS Rechargeable Battery is no longer able to store a charge of 80% of its rated capacity in amp-hours at standard ambient conditions.

8.3.9 The data entered in the ISS Battery Cost Templates must come directly from the analysis and report required by Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements. The data provided will be validated against this analysis.

8.4 **Template 5 – ISS Non-Rechargeable Battery Cost Template.** The Bidder must complete Template 5 – ISS Non-Rechargeable Battery Cost Template included in the RFP Data Submission CD. Figure 6 below shows this template filled with sample data. The sample data provided is intended to show format only and in no way implies any type of real data or expected values. A description of the information required for this template is provided below:

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8.4.1 Power Domain Battery Pack Description. Provide a brief description to identify the power domain battery pack. This must be consistent with those descriptions provided in the analysis and report required by Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirement.

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8.4.2 ISS Non-Rechargeable Battery Type in Power Domain Battery Pack. Provide the ISS Non-Rechargeable Battery model type or part name and number for this Power Domain Battery Pack. By definition each Power Domain Battery Pack must consist of the same type of battery. This data will be validated against that provided in the analysis and report required by Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirement.

8.4.3 No. of ISS Non-Rechargeable Batteries in Power Domain Battery Pack. This is the number of individual ISS Non-Rechargeable Batteries in the Power Domain Battery Pack. This data will be validated against that provided in the analysis and report required by Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirement.

8.4.4 Quantity of Power Domain Non-Rechargeable Battery Packs. This is the number of Non-Rechargeable Battery Packs required for the system to operate a full BD, for each Power Domain Battery Pack, following the usage profile of a BD, as determined by the analysis required by Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements. The number of Battery Packs must include the initial Battery Pack at the start of the BD. This value must be rounded up to the nearest whole number to incorporate the requirement of paragraph 8.3.7. This data will be validated against that provided in the analysis and report required by Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirement.

8.4.5 Cost per ISS Non-Rechargeable Battery. This is the cost per ISS Non-Rechargeable Battery, per Power Domain Battery Pack. The cost will be filled in by Canada and will be from the Bidders Financial Proposal. Sample costs have been shown in Figure 6 strictly for the purposes of illustrating the battery cost calculations.

Deleted: 5

8.4.6 Battery Cost Calculations. Based on the previous data inputs, the template calculates the number of ISS Non-Rechargeable Batteries required per BD per soldier by Power Domain Battery Pack and the subsequent costs per BD per soldier, the annual cost per soldier utilizing these batteries 50% of the time, and finally the total annual cost for ISS Non-Rechargeable Batteries for the full complement of systems in the scenario. The formulae for these calculations can be seen as comments to the header cells in the template. The annual cost per soldier will be input into OmegaPS Analyzer software for LCC calculation. This cost is flagged in Figure 6.

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8.4.7 If there are more than 4 Power Domain Non-Rechargeable Battery Packs, add extra columns to the template as required.

8.4.8 Help on the definition of each data item is provided by placing the cursor over the column header in the template.

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8.5 Template 6 – ISS Rechargeable Battery Cost Template. The Bidder must complete Template 6 – ISS Rechargeable Battery Cost Template included in the RFP Data Submission CD.

Figure 7 below shows this template filled in with sample data. The sample data provided is intended to show format only and in no way implies any type of real data or expected values. A description of the information required for this template is provided below:

Deleted: 6

8.5.1 Power Domain Battery Pack Description. Provide a brief description to identify the power domain battery pack. This must be consistent with those descriptions provided in the analysis and report required by Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements.

8.5.2 ISS Rechargeable Battery Type in Power Domain Battery Pack. Provide the ISS Rechargeable Battery model type or part name and number for this Power Domain Battery Pack. By definition each Power Domain Battery Pack must consist of the same type of battery. This data will be validated against that provided in the analysis and report required by Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirement.

8.5.3 No. of ISS Rechargeable Batteries in Power Domain Battery Pack. This is the number of individual ISS Rechargeable Batteries in the Power Domain Battery Pack. This data will be validated against that provided in the analysis and report required by Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirement.

8.5.4 Quantity of Power Domain Rechargeable Battery Packs. This is the number of Rechargeable Battery Packs required for the system to operate a full BD without having to recharge any batteries, for each Power Domain Battery Pack, following the usage profile of a BD, as determined by the analysis required by Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements. This value must be rounded up to the nearest whole number to incorporate the requirement of paragraph 8.3.7. This data will be validated against that provided in the analysis and report required by Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirement.

8.5.5 ISS Rechargeable Battery Life Expectancy (# Charge/Discharge Cycles). This is the average expected life of the ISS Rechargeable Battery in number of charge/discharge cycles until the ISS Rechargeable Battery is no longer able to store a charge of 80% of its rated capacity in amp-hours at standard ambient conditions. This data will be validated against that provided in the analysis and report required by Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirement.

8.5.6 Cost per ISS Rechargeable Battery. This is the cost per ISS Rechargeable Battery, per Power Domain Battery Pack. The cost will be filled in by Canada and will be from the Bidders Financial Proposal. Sample costs have been shown in Figure 7 strictly for the purposes of illustrating the battery cost calculations.

Deleted: 6

8.5.7 **Battery Cost Calculations.** Based on the previous data inputs, the template calculates the life of an ISS Rechargeable Battery in batteries per BD and then the subsequent number of ISS Rechargeable Batteries required annually per soldier utilizing these batteries 50% of the time. It then calculates the costs per BD per soldier, the annual cost per soldier utilizing these batteries 50% of the time, and finally the total annual cost for ISS Rechargeable Batteries for the full complement of systems in the scenario. The formulae for these calculations can be seen as comments to the header cells in the template. The annual cost per soldier will be input into the OmegaPS Analyzer software for LCC calculation. This cost is flagged in Figure 7.

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8.5.8 If there are more than 4 Power Domain Rechargeable Battery Packs, add extra columns to the template as required.

8.5.9 Help on the definition of each data item is provided by placing the cursor over the column header in the template.

Template 5 - ISS Non-Rechargeable Battery Cost Template				
	Power Domain Battery Pack 1	Power Domain Battery Pack 2	Power Domain Battery Pack 3	Power Domain Battery Pack 4
Power Domain Battery Pack Description	Centralized Power Pack	Communications system power domain		
ISS Non-Rechargeable Battery Type in Power Domain Battery Pack	AA Lithium (ANSI 15-LF, IEC-FR6)	AA alkaline (ANSI 15A, IEC-LR6)		
No. of ISS Non-Rechargeable Batteries in Power Domain Battery Pack	8	10		
Quantity of Power Domain Non-Rechargeable Battery Packs	3	3		
Cost per ISS Non-Rechargeable Battery	\$2.50	\$0.50		

Battery Cost Calculations

No. of ISS Non-Rechargeable Batteries / BD / Soldier	24	30	0	0	Totals
Cost / BD / Soldier	\$60.00	\$15.00	\$0.00	\$0.00	\$75.00
Cost / Soldier / Year for 50% Use	\$10,950	\$2,738	\$0	\$0	\$13,688
Annual Cost for ISS Non-Rechargeable Batteries for the Scenario					\$17,191,500

Input to OmegaPS Analyzer

DND Provided Data

Number of BDs in a Service Year	365
Number of ISS-S Systems in MSTFs	1,256

Figure 6: Template 5 – ISS Non-Rechargeable Battery Cost Template with Sample Data

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	Power Domain Battery Pack 1	Power Domain Battery Pack 2	Power Domain Battery Pack 3	Power Domain Battery Pack 4
Power Domain Battery Pack Description	Centralized Power Pack	Communications system power domain		
ISS Rechargeable Battery Type in Power Domain Battery Pack	3.7V Li ion (18650) generic	AA cell (NiMH) generic		
No. of ISS Rechargeable Batteries in Power Domain Battery Pack	8	10		
Quantity of Power Domain Rechargeable Battery Packs	2	3		
ISS Rechargeable Battery Life Expectancy (# Charge/Discharge Cycles)	200	200		
Cost per ISS Rechargeable Battery	\$8.31	\$2.55		

Battery Cost Calculations

No ISS Rechargeable Batteries / Soldier / 8 Year Period at 50% Use	120	220	0	0	
No ISS Rechargeable Batteries / Soldier / Year for 50% Use	15.0	27.5	0.0	0.0	Totals
Cost / Soldier / Year for 50% Use	\$125	\$70	\$0	\$0	\$195
Cost / BD / Soldier	\$0.68	\$0.38	\$0.00	\$0.00	\$1.07
Annual Cost for Rechargeable Batteries for the Scenario					\$244,637

Input to OmegaPS Analyzer

DND Provided Data

Number of BDs in a Service Year	365
Number of ISS-S Systems in MSTFs	1,256

Template 6
Power Domain Battery Pack Description
ISS Rechargeable Battery Type in Power Domain Battery Pack
No. of ISS Rechargeable Batteries in Power Domain Battery Pack
Quantity of Power Domain Rechargeable Battery Packs
ISS Rechargeable Battery Life Expectancy (# Charge/Discharge Cycles)
Cost per ISS Rechargeable Battery

Battery Cost Calculations

No ISS Rechargeable Batteries / Soldier / Year for 50% Use
Cost / Soldier / Year for 50% Use
Cost / BD / Soldier

DND Provided Data

Number of BDs in a Service Year
Number of ISS-S Systems in MSTFs

Deleted:

Figure 7: Template 6– ISS Rechargeable Battery Cost Template with sample Data

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ANNEX CG TO VOLUME 1

ISS – OWSS TECHNICAL EVALUATION

This annex details how the OWSS Technical Performance Bid will be evaluated.

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1. General

- 1.1 The OWSS Technical Bid Evaluation contributes 60% to the Overall OWSS Bid Evaluation score (Figure 1).

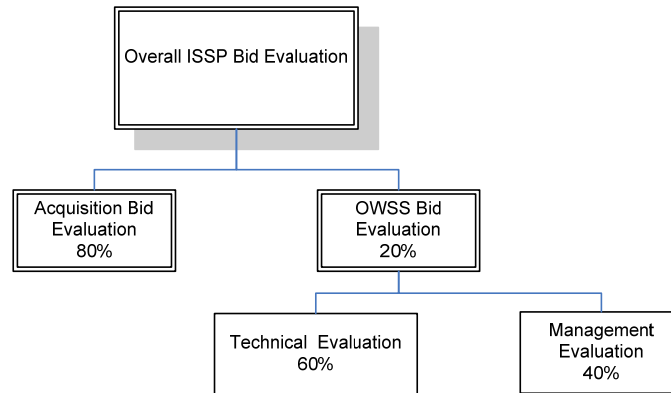


Figure 1 – OWSS Bid Evaluation Topology

- 1.2 Rated portions of the Technical Bid Proposal will be evaluated in five main categories as shown in Figure 2 below:

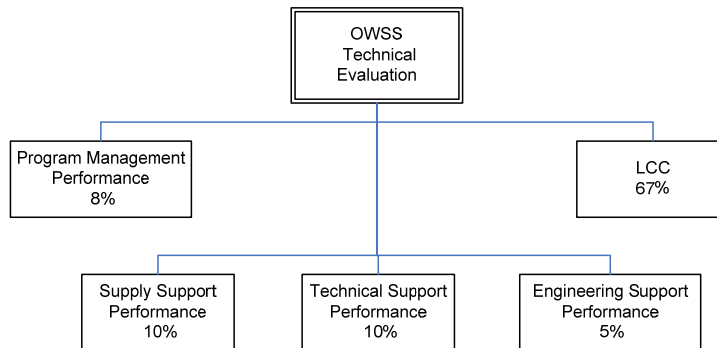


Figure 2 – OWSS Technical Bid Evaluation Topology

- 1.3 Technical Bid Preparation Instructions can be found at Annex CF to Volume 1.
- 1.4 The Technical Bid will be evaluated using the compliance matrices as follows:

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- 1.4.1 The Technical Performance Evaluation will be based on the Bidder's response in the Technical Performance Compliance Matrix (Table 1 to Appendix 1 to this Annex), and compliance with the Minimum Mandatory Score (Table 3 to Appendix 1 to this Annex);
- 1.4.2 The LCC Evaluation will be based on the Bidder's response to the Set of Data Templates for LCC (MCM RFP CD and Appendix 2 to this Annex), which will include analysis of data using DND's Supportability Analysis software "OmegaPS Analyzer" (Table 2 to Appendix 1 to this Annex); and
- 1.4.3 The Technical Bid Mandatory Criteria Evaluation will be based on the verification of the Mandatory submissions as detailed in Annex CF to Volume 1 and Table 3 to Appendix 1 of this Annex.

2. Technical Performance Compliance Matrix

- 2.1 Responses to technical performance requirements will be evaluated in two steps:
 - 2.1.1 Step 1: the response is assigned a score based on the established Evaluation Criteria and Scale.
 - 2.1.2 Step 2: If a comprehensive description of the supportive process was requested for in the column Instructions to Bidder, the assigned score in step 1 will be adjusted by a factor commensurate with the level of justification of the process described, whether it clearly and completely support the response time proposed and its potential for success. Adjustment factors are as follows:
 - 2.1.2.1 The Bidder will get 100% of the score assigned in step 1 if a comprehensive plan or description of the process is presented; and
 - 2.1.2.2 The Bidder will get 50% of the score assigned in step 1 if a partial plan or description of the process is presented.
- 2.2 Minimum Mandatory Performance. The Bidders must achieve a minimum performance for each performance requirement as indicated in Table 1 of Appendix 1 to this Annex. Failure to achieve this minimum will make the Bid non-compliant.

3. OWSS Technical Performance Evaluation

- 3.1 Program Management Performance
 - 3.1.1 The following aspects of program management performance will be evaluated from the bidder's proposal:

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3.1.1.1 Submission of Task Proposals on receipt of Task Requests;

3.1.1.2 Provision of access to technical data including product engineering drawings, data list and references documents (TDP); and

3.1.1.3 Technical Problem Management process that will address the requirement for a range of priority levels.

3.1.2 The evaluation compliance matrix used for the program management technical performance evaluation can be found in Part 1 of Table 1 in Appendix 1 to this Annex.

3.2 Supply Support Performance

3.2.1 The following aspects of Supply Support Performance will be evaluated from the Bidder's proposal:

3.2.1.1 Provision of a complete Spare Parts Proposal; and

3.2.1.2 Provision of Repair & Overhaul services in accordance with agreed TAT.

3.2.2 The evaluation compliance matrix used for the supply support technical performance evaluation can be found in Part 2 of Table 1 in Appendix 1 to this Annex.

3.3 Technical Support Performance

3.3.1 The following aspects of Technical Support Performance will be evaluated from the bidder's proposal:

3.3.1.1 ISS Reconstitution service in accordance with agreed TAT; and

3.3.1.2 FSR service to respond to Canada's needs upon request.

3.3.2 The evaluation compliance matrix used for the technical support performance evaluation can be found in Part 3 of Table 1 in Appendix 1 to this Annex.

3.4 Engineering Support Performance

3.4.1 The Bidder's proposed response time to address requests for technical information (other than TDP data) and clarification on the delivered product will be evaluated.

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3.4.2 The evaluation compliance matrix used for the Engineering Support Performance evaluation can be found in Part 4 of Table 1 in Appendix 1 to this Annex.

4. Life Cycle Costing (LCC) Evaluation

4.1 The LCC evaluation will be completed in two parts as follows:

4.1.1 Part 1 of Table 2 in Appendix 1 to this Annex – LCC Data Templates Submission Compliance Matrix will evaluate the completion of the LCC Data Templates and any associated substantiating material. The evaluation will be based on the criteria associated with the data element as detailed in the Table. The score for this section will be the total of the scores assigned to each requirement;

4.1.2 Part 2 of Table 2 in Appendix 1 to this Annex - LCC Analysis Results Compliance Matrix will evaluate the life cycle cost of the Bidder's proposed ISS System. The evaluation will be based on the analysis of the LCC data submitted in Part 1. This analysis will use DND's Supportability Analysis software, OmegaPS Analyzer Release R4.3. The detailed evaluation and scoring is described in Part 2 of Table 2.

Deleted: 2

4.2 Should a data template be received that has incomplete data or data that is not consistent with other sources as detailed in the Evaluation Criteria, the LCC analysis will not be conducted in the OmegaPS Analyzer software for that bidder as it will lead to an erroneous result. This will result in no points being awarded for the Part 2 LCC Analysis Results of Table 2.

4.3 OmegaPS Analyzer. DND will use the OmegaPS Analyzer software to calculate the LCC of the Bidder's proposed System for Part 2 of Table 2 in Appendix 1 to this Annex..

4.4 The OmegaPS Analyzer Release R4.3 software, is available from Pennant Canada Limited should Bidder's wish to validate the integrity of their data prior to submission.

Deleted: 2

4.5 Appendix 2 to this Annex provides guidance on how the data in the LCC Data Templates will be used to calculate the LCC value that will be evaluated IAW Part 2 of Table 2 of Appendix 1 to this Annex. Should further detail be required, Canada has included the "OMEGAPS_Analyzer-R4.3_URG.PDF" for OmegaPS Analyzer in the CD that contains the Microsoft Excel® file "ISS-LCC_Templates_V1.XLS" (see RFP article 2.7 of Volume 1).

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4.6 Mission Scenario

4.6.1 LCC costs will be based on sustaining a Mission Specific Task Force (MSTF) deployment, consisting of two 'Task Forces' each outfitted with 628 ISS-S systems. Systems will operate through a standard Battlefield Day (BD) on a continuous basis

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as defined in RFP Volume 2, Appendix 3 to Annex CB, for the 8 year life of the system.

- 4.6.2 The analysis of LCC data will model the support pipeline required to sustain these systems at a 90% steady state operational availability using the OmegaPS Analyzer software.

4.7 LRU MTBF Data Reliability Risk Assessment

- 4.7.1 A critical component in determining the LCC for a proposed system is the source of the data used in the analysis. Since the LRU mean time between failures (MTBF) has significant impacts on the LCC due to the uncertainty in its measurement, Canada will apply confidence limits to the LCC based on the data supplied and substantiation provided by the Bidder. The method used to determine the confidence limits will be based on a three-point approximation of the MTBF as described below.
- 4.7.2 In this LCC evaluation, Bidder's have been asked to identify the MTBF data source as follows:
- 4.7.2.1 Measured (M) - data obtained from sources such as real-world usage, field data, or LRU reliability demonstration testing;
 - 4.7.2.2 Lab (L) - data derived from component-level testing in a lab environment (controlled environment, test-stand testing); or
 - 4.7.2.3 Predicted (P): data generated from models, best engineering judgment, or comparison with analogous systems.
- 4.7.3 Based on the data source, each MTBF is assigned three values, being:
- 4.7.3.1 The most likely value which is the median (probability that the true value is lower than this value is 50%),
 - 4.7.3.2 a low value L which is the 10% fractile (probability that the true value is lower than L is 10%), and
 - 4.7.3.3 a high value H which is the 90% fractile (probability that the true value is lower than H is 90%).
- 4.7.4 This produces a three point estimate of the MTBF that allows the determination of a probability distribution for the parameter. From this the cumulative distribution function of the LCC can be calculated producing an upper confidence limit of the LCC, thus providing a probability that this LCC value will not be exceeded.

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- 4.7.5 For the purposes of this analysis the 90% upper confidence level on the LCC will be used for comparison.
- 4.7.6 In determining the values of the MTBF, the most likely value will be taken as the Bidder supplied MTBF while the low (L) and the high (H) values will be determined through the process described below.
- 4.7.6.1 Three levels of risk have been defined being: high risk to characterize the worst case, medium risk to describe some uncertainty, and low risk essentially means that the value of the parameter is accepted as representative of future performance. These levels of risk correspond to the three categories of data sources defined above where high risk is categorized as Predicted (P) data, medium risk Lab (L) data, and low risk Measured (M) MTBFs.
- 4.7.6.2 In order to determine the 10% and 90% fractiles for each of these risk levels, estimates were developed and reviewed by a panel of engineers, ILS managers and technicians, with significant background experience with electronic systems. The low side (10%) values for Measured (M) data were based on a standard test confidence level, while for Predicted (P) data the operational parameter translation model of MIL-HDBK-338B was used as the basis. As the MTBF is a low side risk, where lower values mean increased costs, the high side 90% fractile was set to a nominal value of 105% of the bidder's provided MTBF all risk levels. These high side values are required to complete a distribution but generally don't have much impact on the tails of the distribution that contribute to the negative impacts.
- 4.7.6.3 The resultant assessments are found at Figure 3 below and are all expressed as percentage factors to be applied to the estimated LRU MTBF values provided by the bidders.

Class of MTBF Data	Low Value (10% Fractile)	High Value (90% Fractile)
Measured (M)	95%	105%
Lab (L)	65%	105%
Predicted (P)	25%	105%

Figure 3 – LRU MTBF Data Reliability Risk Values

4.8 Spare Parts Costs

- 4.8.1 A significant cost factor in determining the LCC for a proposed system is the Spare Parts Costs. Canada will use the Sparing Model within OmegaPS Analyzer to determine the optimal sparing allocation for the scenario support organization to achieve a 90% steady state operational availability.
- 4.8.2 The OmegaPS Analyzer provides a sparing solution whereby the optimal allocation and quantity of spares within the support organization at minimum cost is determined. OmegaPS Analyzer contains a multi-indenture, multi-echelon model that uses a marginal analysis technique to choose the next spare and the location where it will cause the largest increase in availability at the least cost.
- 4.8.3 The sparing model provides the cost of an initial optimal sparing allocation and then, based on the calculated discard rate, determines the annual recurring cost to replace these spares.
- 4.8.4 The sparing model uses the following data elements in determining a solution:
- 4.8.4.1 Operational Activity including the number and distribution of the systems, operating hours and failure rates;
 - 4.8.4.2 LRU Costs;
 - 4.8.4.3 Response Times including Remove/Replace Cycle Times and Repair Cycle Times; and
 - 4.8.4.4 Resupply Times including Order and Ship Times, Contractor Turn Around Times, and Procurement Lead Times.
- 4.8.5 These data elements are provided in the Bidder completed LCC Data Templates or are included in the DND Provided Data Elements section below.

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4.9 DND Provided Data Elements

4.9.1 In order to determine the LCC using the OmegaPS Analyzer software, additional information elements need to be specified. These data references are provided here and are meant to fully define the MSTF mission scenario and support organization for the purposes of calculating all of the LCC elements. This additional data is described below and is added to the Bidder's submitted data within OmegaPS Analyser to run the LCC model. Refer to Appendix 2 to this Annex for a description of where this data is used in the software.

4.9.2 Support Organization

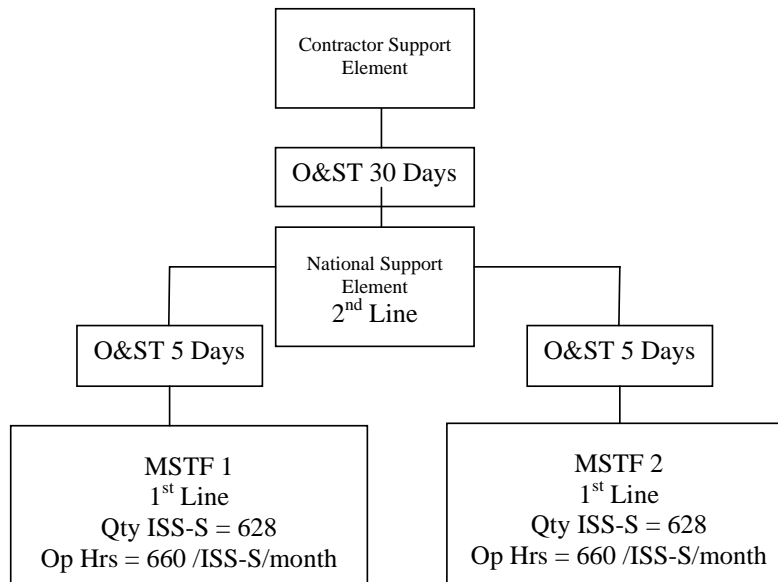


Figure 4 – Support Organization

4.9.3 O&ST – Order and Ship Time is the time, in days, between placing a parts order with the Support Site and its arrival at the specified Site.

4.9.4 Op Hrs – The usage on the system in operating hours per month. Based on the continuous BDs, this was calculated using 22 operational hours per BD multiplied by 30 days per month.

4.9.5 Qty ISS-S – The quantity of complete systems in use per MSTF. In this scenario there are 628 systems in use per MSTF.

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- 4.9.6 Remove/Replace Cycle Time (Days) – This is the total expected cycle time in days required from removal of an LRU to its replacement within the ISS-S including the fault detection, isolation, removal, waiting parts/labour, administrative delays, replacement and confirming serviceability. Its value represents a maintenance delay used to determine the sparing required to achieve the availability target. This differs from the actual LRU Remove/Replace labour time in that the LRU Remove/Replace labour time assumes the replacement part and labour is immediately available. This value has been established to be 1 day based on the 24 hour resupply cycle to the unit.
- 4.9.7 Repair Cycle Time (Days) – This only applies if LRU repairs are to be done at 1st or 2nd line and is defined as the total expected cycle time, including administrative delays, to repair an LRU at the designated line of maintenance and return it to stock. Its value is used to determine the sparing required to achieve the availability target. It includes all repair time, administrative waiting time, waiting parts/labour, and return to stock. This differs from the actual LRU Repair labour time in that the LRU Repair labour time consists of only the man-hours associated with the actual repair. This value has been established to be 2 days at 1st line and 5 days at 2nd line based on that typically expected on a MSTF deployment.
- 4.9.8 Supportability Targets
- 4.9.8.1 Acquisition Year – 2012
- 4.9.8.2 Operational Availability – 90%
- 4.9.8.3 Number of Years In Service – 8 years
- 4.9.8.4 Number of BDs in Service Life – 2,920.
- 4.9.9 Cost Data
- 4.9.9.1 DND Labour Rates - \$85 / hr
- 4.9.9.2 Inflation Rates – not to be used for this comparative analysis.

5. Technical Bid Mandatory Criteria Evaluation

- 5.1 The Table 3 - Technical Bid Mandatory Criteria Evaluation Compliance Matrix from Appendix 1 to this Annex will be used by Canada to determine if the Bidder's proposal meets all the mandatory requirements of the RFP Annex CF "Section VI – Technical Bid Preparation Instructions" to Volume 1. Any missing Mandatory deliverable from the

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components described in Paragraph 1.4, or Minimum Mandatory Score not met as stipulated in the associated Compliance Matrices will render the bid non-responsive.

6 OWSS Technical Bid Evaluation Final Score

- 6.1 Bidders who are deemed compliant with all the requirements of the Table 3 – Technical Bid Mandatory Criteria Evaluation Compliance Matrix from Appendix 1 to this Annex, will have a final Technical Bid score calculated as follows:

Compliance Matrix	Total Score	Final Score
Table 1 – Technical Performance Compliance Matrix (as per ID # 1.5)		
Table 2 - Life Cycle Costing Compliance Matrix (as per ID # 2.3)		
Total Score - OWSS Technical Bid Evaluation		

- 6.2 This score will be entered into RFP Volume 1 Annex CJ.

7 OWSS Technical Bid Compliance Matrices

- 7.1 The OWSS Technical Bid Compliance Matrices can also be found in electronic format in the Microsoft Excel[®] MCM RFP package referred to in section 2.7 of Volume 1. The OWSS Technical requirements Matrix of Compliance formatted for Microsoft Excel[®] is found in the file called "ISS_OWSS_TechnicalMCM_V1.XLS".

APPENDIX 1 TO ANNEX CG TO VOLUME 1

TECHNICAL COMPLIANCE MATRICES

This Appendix to Annex CG to Volume 1 provides the Technical Compliance Matrices used to evaluate the OWSS Technical Bid requirements.

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Table 1 – OWSS Technical Performance Compliance Matrix									
1	2	3	4	5	6	7	8	9.a	9.b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
Part 1 - Program Management Performance									
1.1.1	3.1.1.1	Submission of Task Proposals on receipt of Task Requests	R	<p>The Bidder should confirm in his proposal the Turn Around Time (TAT) to prepare and submit a complete task proposal to Canada upon receipt of a task request. In support of the TAT proposed, the Bidder should provide a clear description of the supportive process used to produce and submit task proposals to Canada.</p> <p>For the purpose of Bid Evaluation, the Bidder is to use a priority that is the normal business level for implementation of product upgrade or improvement as defined in section 4.1.3 of the OWSS SOW.</p>			<p>TAT proposed:</p> <p style="text-align: center;">TAT ≤ 10 wds: 100% 10 wds < TAT ≤ 15 wds: 75% 15 wds < TAT ≤ 20 wds: 50% 20 wds < TAT ≤ 25 wds: 25%</p> <p>Process Description: Comprehensive description: 100% Partial description: 50% No description: 0%</p>	198	25%
1.1.2	3.1.1.2	Provision of access to technical data including product engineering drawings, data list and references documents (TDP)	R	<p>The Bidder should indicate in his proposal the time he will require for making the required technical data available to DND. In support of the TAT proposed the Bidder should provide a clear description of the supportive process used to research, collect, produce and submit the technical data to DND.</p> <p>For the purpose of Bid Evaluation, the Bidder is to estimate his response time to make available on the EIE the required product engineering drawings, data list and reference documents.</p>			<p>Response time:</p> <p style="text-align: center;">t ≤ 12 hrs: 100% 12 hrs < t ≤ 24 hrs: 80% 24 hrs < t ≤ 3 wds: 60% 3 wds < t ≤ 4 wds: 50% 4wds < t ≤ 5 wds: 20%</p> <p>Process Description: Comprehensive description: 100% Partial description: 50% No description: 0%</p>	149	20%

RFP - N° de la DP W8476-112965/B	Amendement No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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Table 1 – OWSS Technical Performance Compliance Matrix									
1	2	3	4	5	6	7	8	9.a	9.b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
1.1.3	3.1.1.3	Response Time for Priorities							
1.1.3.1	3.1.1.3	Technical Problem Management process that will address the requirement for a range of priority levels – Priority 1	R	The Bidder should indicate his proposed response time for this priority level defined in para 4.1.9.1.6 of the SOW and describe clearly the supportive process to ensure the indicated response time is met for this priority level.			Response time for Priority 1 (P1): $t \leq 12$ hrs: 100% 12 hrs < $t \leq 24$ hrs: 80% 24 hrs < $t \leq 2$ wds: 40% 2 wds < $t \leq 4$ wds: 10% Process Description: Comprehensive description: 100% Partial description: 50% No description:0%	161	10%
1.1.3.2	3.1.1.3	Technical Problem Management process that will address the requirement for a range of priority levels – Priority 2	R	The Bidder should indicate his proposed response time for this priority level defined in para 4.1.9.1.6 of the SOW and describe clearly the supportive process to ensure the indicated response time is met for this priority level.			Response time for Priority 2 (P2): $t \leq 24$ hrs: 100% 24 hrs < $t \leq 2$ wds: 80% 2 wds < $t \leq 5$ wds: 40% 5 wds < $t \leq 10$ wds: 10% Process Description: Comprehensive description: 100% Partial description: 50% No description: 0%	161	10%
1.1.3.3	3.1.1.3	Technical Problem Management process that will address the requirement for a range of priority levels – Priority 3	R	The Bidder should indicate his proposed response time for this priority level defined in para 4.1.9.1.6 of the SOW and describe clearly the supportive process to ensure the indicated response time is met for this priority level.			Response time for Priority 3 (P3): $t \leq 5$ wds: 100% 5 wds < $t \leq 10$ wds: 80% 10 wds < $t \leq 15$ wds: 40% 15 wds < $t \leq 20$ wds: 10%	161	10%

RFP - N° de la DP W8476-112965/B	Amendement No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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Table 1 – OWSS Technical Performance Compliance Matrix									
1	2	3	4	5	6	7	8	9.a	9.b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
							Process Description: Comprehensive description: 100% Partial description: 50% No description: 0%		
1.1.3.4	3.1.1.3	Technical Problem Management process that will address the requirement for a range of priority levels – Priority 4	R	The Bidder should indicate his proposed response time for this priority level defined in para 4.1.9.1.6 of the SOW and describe clearly the supportive process to ensure the indicated response time is met for this priority level.			Response time for Priority 4 (P4): $t \leq 15$ wds: 100% 15 wds < $t \leq 20$ wds: 80% 20 wds < $t \leq 30$ wds: 40% 30 wds < $t \leq 60$ wds: 10% Process Description: Comprehensive description: 100% Partial description: 50% No description: 0%	161	10%
1.1.4	Total Score – Part 1 – Program Management Performance:							990	N/A
Part 2 - Supply Support Performance									
1.2.1	3.2.1.1	Provision of complete Spare Parts Proposal	R	The Bidder should confirm in his proposal the time required to prepare and submit a proposal for spares procurement in response to a request for spare parts. In support of the response time proposed, the Bidder should provide a clear description the supportive process used to prepare and submit the proposal for spares procurement to Canada.			Response time proposed: $t \leq 5$ wds: 100% 5 wds < $t \leq 10$ wds: 80% 10 wds < $t \leq 15$ wds: 60% 15 wds < $t \leq 20$ wds: 30% Process Description: Comprehensive description: 100% Partial description: 50%	594	30%

RFP - N° de la DP W8476-112965/B	Amendement No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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Table 1 – OWSS Technical Performance Compliance Matrix									
1	2	3	4	5	6	7	8	9.a	9.b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
							No description: 0%		
1.2.2	3.2.1.2	Provision of Repair & Overhaul services in accordance with agreed TAT	R	The Bidder should confirm in his proposal the TAT that will be required for R&O services on R&O candidates in order to meet Canada’s operational needs. In support of the TAT proposed, the Bidder should provide a clear description of the supportive process used to return R&O candidates in time to Canada. The Bidder should describe the flow for repairable candidates from the time they are received to the time they are shipped back to Canada. The Bidder should identify the level of visibility and control over the items as they go through the repair process and how segregation, configuration and cost control will be maintained. Requirements for urgent returns of R&O candidates should also be addressed.			TAT proposed: TAT ≤ 45 wds: 100% 45 wds < TAT ≤ 60 wds: 80% 60 wds < TAT ≤ 75 wds: 40% 75 wds < TAT ≤ 90 wds: 10% Process Description: Comprehensive description: 100% Partial description: 50% No description: 0%	594	10%
1.2.3	Total Score – Part 2 – Supply Support Performance:							1188	N/A
Part 3 - Technical Support Performance									
1.3.1	3.3.1.1	ISS Reconstitution service in accordance with agreed TAT	R	The Bidder should confirm in his proposal the TAT required to perform reconstitution services. The Bidder should clearly describe and explain the supportive process and procedures that will be in place to ensure a complete holding of 2 task forces (QTY 2 X 628) of ISS-S are received, cleaned, inspected for serviceability and configuration status, categorised and stored while a report on repair, upgrade and/or replacements requirements is prepared for Canada’s approval, authorized repairs			Reconstitution TAT TAT ≤ 45 wds: 100% 45 wds < TAT ≤ 65 wds: 80% 65 wds < TAT ≤ 85 wds: 40% Process Description: Comprehensive description: 100% Partial description: 50%	594	40%

RFP - N° de la DP W8476-112965/B	Amendement No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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Table 1 – OWSS Technical Performance Compliance Matrix									
1	2	3	4	5	6	7	8	9.a	9.b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
				completed, prepared for shipment and shipped back to DND. For the purpose of Bid Evaluation, the Bidder is to use 48 hrs as the time DND will require to evaluate and grant approval for reconstitution repair requests.			No description: 0%		
1.3.2	3.3.1.2	FSR services to respond to Canada’s needs upon request	R	The Bidder should confirm in his proposal the response time required to respond to Canada’s requirement for qualified FSR support. The Bidder should describe clearly the supportive process by which he will be able to provide qualified FSR when required for deployment, in order to meet Canada’s operational needs, including when in up-tempo conditions.			Deployment in D ≤ 10 wds: 100% 10 wds < D ≤ 20 wds: 80% 20 wds < D ≤ 25 wds: 60% 25 wds < D ≤ 30 wds: 30% Process Description: Comprehensive description: 100% Partial description: 50% No description: 0%	594	30%
1.3.3	Total Score – Part 3 – Technical Support Performance:							1188	N/A
Part 4 - Engineering Support Performance									
1.4.1	3.4.1	Address requests for technical information (other than TDP data) and clarification on the delivered product.	R	The Bidder should indicate in his proposal the time he will require addressing the TA technical queries/clarifications. The Bidder should describe how it will ensure the proposed TAT level will be achieved and maintained.			Response time: t ≤24 hrs: 100% 24 hrs < t ≤ 2 wds: 80% 2 wds < t ≤ 3 wds: 40% 3 wds < t ≤ 4 wds: 10% Process Description: Comprehensive description: 100% Partial description: 50%	594	10%

Table 1 – OWSS Technical Performance Compliance Matrix									
1	2	3	4	5	6	7	8	9.a	9.b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
							No description: 0%		
1.4.2	Total Score – Part 4 – Engineering Support Performance:							594	
1.5	Total Score – Table 1 – OWSS Technical Performance:							3960	

Table 2 – Life Cycle Costing Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Score
Part 1 – LCC Data Templates Submission				The submitted LCC Data Templates will be evaluated individually for completeness and accuracy. All data templates should be provided and completed in their entirety IAW the instructions of Appendix 1 to Annex CF. The contents of each template will be validated against the substantiating materials described in this table.					
2.1.1	4.4	Template 1- Generic System Data Template	R	Template should be fully completed and validated IAW the following: <ul style="list-style-type: none">All of the LRUs of the ISS-S Main Equipment, based on the P(Bid) system, as detailed in the EBS delivered			Yes – 100% Partial completion or some data not valid – 50% No submission or Blank – 0%	482	

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Table 2 – Life Cycle Costing Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Score
				<p>IAW Volume 1 Annex CB Appendix 2 are included, with the exception of the MLCS Platform, MLCS ISS Pouch Set, Universal Canalphones and ISS Batteries;</p> <ul style="list-style-type: none">• The listed LRUs encompass all of the TPS requirements provided for with this ISS-S Main Equipment P(Bid) solution, i.e. if any rated requirements for the Main Equipment are provided with the solution, such as a Wireless PTT, the applicable LRUs are included;• All data items are properly filled in IAW the instructions of Appendix 1 to Annex CF to Volume 1;• Qty per System values the same as in the EBS delivered IAW Volume 1 Annex CB Appendix 2;• LRU MTBF values are the same as those values provided in response to Performance Specification TPS-2049 of Appendix 1 to Annex CB to Volume 2;• MTBF Determination Method is indicated and consistent with the substantiation in Performance Specification TPS-2049 of Appendix 1 to Annex CB to Volume 2.					
2.1.2	5.4	Template 2 - Corrective Maintenance Data Template	R	<p>Template should be fully completed and validated IAW the following:</p> <ul style="list-style-type: none">• All of the LRUs are included as per Template 1 - Generic System Data Template;• All data items are properly filled in IAW the instructions of Appendix 1 to Annex CF to Volume 1;• LRU Remove/Replace Time values the same as those			Yes – 100% Partial completion or some data not valid – 50% No submission or Blank – 0%	482	

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Table 2 – Life Cycle Costing Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Score
				<div>in the Bidder’s draft Maintenance Plan;<ul style="list-style-type: none">Labour Time (hrs) at DND 1st Line and 2nd Line values the same as those in the Bidder’s draft Maintenance Plan (DID LS-005) and consistent with the Repair Capability (%) at DND 1st Line and 2nd Line;Repair Capability (%) at DND 1st Line and 2nd Line values consistent with the frequency of each repair task in the Bidder’s draft Maintenance Plan;Average Repair Material Cost (%) values consistent with the Bidder’s draft Maintenance Plan and the LRU Spares Replacement Unit Price, LoRU Spares Replacement Unit Price, CBIL materials ceiling unit prices provided in the Financial Proposal.Repair Capability (%) at Contractor values consistent with the frequency of each repair task in the Bidder’s draft Maintenance Plan less any discard rate;Sum of Repair Capability (%) at DND 1st Line and 2nd Line plus Repair Capability (%) at Contractor is not greater than 100%;Turn Around Time (Working Days) at Contractor values are in working days and must be the same as the Bidder’s working days response provided in Table 1 Part 2 to Annex CG to Volume 1 OWSS Technical Performance Evaluation Criteria on Supply Support Performance (R&O Turnaround Time).Contractor Repair Cost (%) values consistent with the LRU Spares Replacement Cost and the R&O rates provided in the Bidder’s Financial Proposal and the</div>					

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Table 2 – Life Cycle Costing Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Score
				Repair Capability (%) at Contractor.					
2.1.3	6.5	Template 3- Preventive Maintenance Data Template	R	Template should be fully completed and validated IAW the following: <ul style="list-style-type: none">• All of the LRUs are included as per Template 1 - Generic System Data Template;• All data items properly filled in IAW the instructions of Appendix 1 to Annex CF to Volume 1;• All <u>technician performed</u> PM Tasks are entered and are consistent with the Bidder’s draft Maintenance Plan (DID LS-005); Note – if the Bidder specifies no PM is required, the LRU Task Descriptions should be annotated with N/A and the remainder of the template left blank and is to receive full points in this case;• MTBPM (hrs) values are in system operating hours and equivalent to those provided in the Bidder’s draft Maintenance Plan;• Average PM Labour Time (hrs) values the same as those in the Bidder’s draft Maintenance Plan (DID LS-005);• Average PM Material Cost (%) values consistent with the Bidder’s draft Maintenance Plan and the LRU Spares Replacement Unit Price, LoRU Spares Replacement Unit Price, and CBIL materials ceiling unit prices provided in the Financial Proposal..			Yes – 100% Partial completion or some data not valid – 50% Not submitted – 0%	241	
2.1.4	7.3	Template 4 - STTE Data Template	R	Template should be fully completed and validated IAW the following: <ul style="list-style-type: none">• All data items properly filled in IAW the instructions			Yes – 100% Partial completion or some data not valid – 50% Not submitted – 0%	482	

Table 2 – Life Cycle Costing Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Score
				of Appendix 1 to Annex CF to Volume 1; <ul style="list-style-type: none">All DND 1st and/or 2nd line maintenance related STTE are entered and are <u>the same as</u> those identified in the Bidder’s draft Maintenance Plan. Note – if the Bidder specifies no STTE is required, this template will be left blank and is to receive full points in this case.For 1st and 2nd Line Repair Sites values are a “Yes” or “No” entry that corresponds to the Maintenance Plan.					
2.1.5	8.4	Template 5 – Non-Rechargeable Battery Cost Template	R	Template should be fully completed and validated IAW the following: <ul style="list-style-type: none">Batteries included meet definition of para 8.3.1 of Appendix 1 to Annex CF to Volume 1 based on description in the analysis and report provided in response to Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements;All data items properly filled in IAW the instructions of Appendix 1 to Annex CF to Volume 1;All Power Domain Non-Rechargeable Battery Packs are included and <u>the same as</u> those in the analysis and report provided in response to Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements.Each Power Domain Non-Rechargeable Battery Pack consists of the same type of battery.No. of ISS Non-Rechargeable Batteries in Power Domain Battery Pack is <u>the same as</u> provided in the analysis and report provided in response to Appendix 11 to Annex CB to Volume 2 - Power Consumption			Yes – 100% Partial completion or some data not valid – 50% No submission or Blank – 0%	241	

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Table 2 – Life Cycle Costing Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Score
				Test Procedure Requirements. <ul style="list-style-type: none">Quantity of Power Domain Non-Rechargeable Battery Packs values same as those values determined in the analysis and report provided in response to Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements rounded up to nearest whole number.					
2.1.6	8.5	Template 6 - Rechargeable Battery Cost Template	R	Template should be fully completed and validated IAW the following: <ul style="list-style-type: none">Batteries included meet definition of para 8.3.1 of Appendix 1 to Annex CF to Volume 1 based on description in the analysis and report provided in response to Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements.;All data items properly filled in IAW the instructions of Appendix 1 to Annex CF to Volume 1;All Power Domain Rechargeable Battery Packs are included and the same as those in the analysis and report provided in response to Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements;Each Power Domain Rechargeable Battery Pack consists of the same type of battery;No. of ISS Rechargeable Batteries in Power Domain Battery Pack is the same as provided in the analysis and report provided in response to Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements.			Yes – 100% Partial completion or some data not valid – 50% No-submission or Blank – 0%	482	

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Table 2 – Life Cycle Costing Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Score
				<ul style="list-style-type: none">Quantity of Power Domain Rechargeable Battery Packs values same as those values determined in the analysis and report provided in response to Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements rounded up to nearest whole number..ISS Rechargeable Battery Life Expectancy (# Charge/Discharge Cycles) values same as those values determined in the analysis and report provided in response to Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements.					
2.1.7	Total Score - Part 1 – LCC Data Templates							2412	
Part 2 – LCC Analysis Results									
2.2.1		LCC Analysis Results	R	<p>If the Data Templates have been submitted completely and correctly as determined in Part 1 and maximum points achieved, the Bidder’s submitted data will be entered into the OmegaPS Analyzer software and the LCC analysis conducted. The software will provide the results as shown in Appendix 2 to Annex CG to Volume 1.</p> <p>For the purposes of this comparative analysis, the Bidder’s LCC value will be the 90% upper confidence level on the LCC calculated using the OmegaPS Analyzer Release R4.3 software as shown in Figure 20 of Appendix 2 to Annex CG to Volume 1.</p>			<p>To qualify for Part 2 evaluation, <u>Part 1 must be fully completed and maximum points achieved.</u></p> <p>The LCC Analysis Results Score will be determined as follows:</p> <ol style="list-style-type: none">The bid with the lowest calculated LCC (90% upper confidence level) will receive a Score of 100% of points;All other bids will be assigned a Score by calculating the ratio	5628	

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Table 2 – Life Cycle Costing Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions To Bidders	Bidders Compliance	Bidders Response	Evaluation Criteria and Scale	Max Score	Score
							<p>between the lowest LCC bid (of paragraph 1) and the LCC of the subject bid multiplied by 100% of points as described below:</p> <p><u>Low LCC bid (of para 1)</u> LCC of subject bid x 100% of pts</p> <p>3. If the LCC analysis is not run the Bidder will receive a Score of 0.</p>		
2.2.2	Total Score - Part 2 – LCC Analysis Results							5628	
2.3	Total Score – Table 2 - LCC Evaluation						Part 1 Score + Part 2 Score	8040	

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Table 3 – Technical Minimum Mandatory Criteria Evaluation Compliance Matrix				
ID	Requirement	RFP Reference	Compliance Matrix Reference	For use by Canada
				Compliant (Yes/No)
3.1	The Bidder must submit completed Table 1, Parts 1 to 4.	RFP Volume 1 Annex CF para 3.5	RFP Volume 1, Annex CG, Appendix 1, Table 1	
3.2	The Bidder must achieve a minimum performance requirement for submission of Task Proposals	RFP Volume 1, Annex CG, para 2.2	RFP Volume 1, Annex CG, Appendix 1, Table 1, Part 1, ID # 1.1.1	
3.3	The Bidder must achieve a minimum performance requirement for provision of access to technical data	RFP Volume 1, Annex CG, para 2.2	RFP Volume 1, Annex CG, Appendix 1, Table 1, Part 1, ID # 1.1.2	
3.4	The Bidder must achieve a minimum performance requirement for Technical Problem Management process – Priority 1	RFP Volume 1, Annex CG, para 2.2	RFP Volume 1, Annex CG, Appendix 1, Table 1, Part 1, ID # 1.1.3.1	
3.5	The Bidder must achieve a minimum performance requirement for Technical Problem Management process – Priority 2	RFP Volume 1, Annex CG, para 2.2	RFP Volume 1, Annex CG, Appendix 1, Table 1, Part 1, ID # 1.1.3.2	
3.6	The Bidder must achieve a minimum performance requirement for Technical Problem Management process – Priority 3	RFP Volume 1, Annex CG, para 2.2	RFP Volume 1, Annex CG, Appendix 1, Table 1, Part 1, ID # 1.1.3.3	
3.7	The Bidder must achieve a minimum performance requirement for Technical Problem Management process – Priority 4	RFP Volume 1, Annex CG, para 2.2	RFP Volume 1, Annex CG, Appendix 1, Table 1, Part 1, ID # 1.1.3.4	
3.8	The Bidder must achieve a minimum performance requirement for provision of a complete Spare Parts Proposal	RFP Volume 1, Annex CG, para 2.2	RFP Volume 1, Annex CG, Appendix 1, Table 1, Part 2, ID # 1.2.1	
3.9	The Bidder must achieve a minimum performance requirement for provision of Repair & Overhaul services	RFP Volume 1, Annex CG, para 2.2	RFP Volume 1, Annex CG, Appendix 1, Table 1, Part 2, ID # 1.2.2	
3.10	The Bidder must achieve a minimum performance requirement for ISS Reconstitution service	RFP Volume 1, Annex CG, para 2.2	RFP Volume 1, Annex CG, Appendix 1, Table 1, Part 3, ID # 1.3.1	

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Table 3 – Technical Minimum Mandatory Criteria Evaluation Compliance Matrix				
ID	Requirement	RFP Reference	Compliance Matrix Reference	For use by Canada
				Compliant (Yes/No)
3.11	The Bidder must achieve a minimum performance requirement for FSR services	RFP Volume 1, Annex CG, para 2.2	RFP Volume 1, Annex CG, Appendix 1, Table 1, Part 3 ID # 1.3.2	
3.12	The Bidder must achieve a minimum performance requirement to address requests for technical information and clarification	RFP Volume 1, Annex CG, para 2.2	RFP Volume 1, Annex CG, Appendix 1, Table 1, Part 4, ID # 1.4.1	

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APPENDIX 2 TO ANNEX CG TO VOLUME 1

LCC ANALYSIS USING OMEGAPS ANALYZER

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1. GENERAL

1.1. DND will use its Supportability Analysis software, the OmegaPS Analyzer, to calculate the LCC of the Bidder's proposed ISS-S system from the data submitted in the LCC Data Templates. This calculated LCC value will be evaluated IAW Part 2 of Table 2 in Appendix 1 to Annex CG to Volume 1.

1.2. The OmegaPS Analyzer is a logistic supportability analysis modeling tool that consists of an integrated set of logistics support models including a Sparing model, a LCC model, and a Level of Repair Analysis (LORA) model. The Analyzer models use a hierarchical breakdown of the equipment and can model various maintenance and re-supply responsibilities.

1.3. This appendix has been prepared to assist the Bidder in understanding how the OmegaPS Analyzer software tool will be applied to calculate the LCC and where the data from the completed LCC Data Templates will be used. It is not meant to be a detailed description of the supportability models or use of the tool. Should further detail be required, refer to the OmegaPS Analyzer Users Reference Guide in the CD that contains the Microsoft Excel Matrix of Compliance Module (MCM) files.

2. EQUIPMENT BREAKDOWN STRUCTURE

2.1. The equipment breakdown structure to the LRU level of the Bidder's proposed ISS-S system is entered in the System Details window shown in Figure 1. This structure is created from the LRU Item Names list provided in Template 1 - Generic System Data Template from Appendix 1 of Annex CF to Volume 1. The Replacement Cost, Description, Qty in Parent and MTBR (Mean Time Between Removals) are also populated from the data in Template 1. Note that for the purposes of this LCC analysis the MTBR is equal to the MTBF submitted by the Bidder as no induced or damage failures are considered. Qty in Parent in Figure 1 is equivalent to Qty per System in Template 1.

2.2. The Duty Cycle (%) field, shown in Figure 1, is the percentage of time that the LRU will be in an operating mode compared with the overall system operating time. For the purposes of this analysis, this will be set to 100% for all LRUs, indicating all LRUs have the same operating time equivalent to that of the ISS-S system, based on the MSTF Mission Profile of Appendix 3 to Annex CB to Volume 2.

Communication Suite Details

Configuration Name: Mandatory Baseline

EQP ISS-S System

- LRU Communication Suite
- LRU Computer
- LRU Tactical UI
- LRU Audio Display
- LRU Wired PTT
- LRU Integrated GPS
- LRU Bearing Indicator
- LRU Cabling
- LRU Power Infrastructure
- LRU External Data Storage

Additional Descriptions | Parts Catalogue | Scheduled Maintenance Data

Part Data | Maintenance Plan | Maintenance Cost Factors | Test Equipment

Indenture Level

- None
- EQP --- LRU --- SRU --- MOD --- Sub SRU --- Sub-Sub SRU
- CON --- CON --- CON --- CON --- CON

Replacement Cost (\$) 5790 Qty in Parent: 1

Duty Cycle %: 100 Weight (kg) 0

MTBR (hours): 7600 Volume (m³) 0

LCN:

Description: Includes Radio & Antenna

Stock Levels Grid View

Detach Part Data Manager Show Refnum Save

EQPs 1 LRU 10 SRUs 0 MODs 0 SUBs 0 CONs 11 Total

Communication Suite Details

Configuration Name: Mandatory Baseline

EQP ISS-S System

- LRU Communication Suite
- LRU Computer
- LRU Tactical UI
- LRU Audio Display
- LRU Wired PTT
- LRU Integrated GPS
- LRU Bearing Indicator
- LRU Cabling
- LRU Power Infrastructure
- LRU ISS-S Pouches
- LRU External Data Storage

Detach Part Data Manager

Deleted:

Figure 1 – ISS-S Equipment Breakdown Structure to LRU Level

3. LRU MAINTENANCE DATA

3.1 Figures 2 and 3 show the Maintenance Plan data by LRU used within OmegaPS Analyzer. The data elements for this screen are provided from Template 1 - Generic System Data Template (for Procurement Lead Times) from Appendix 1 of Annex CF to Volume 1, DND Provided Data (for Repair Cycle Times) and the Corrective Maintenance Data Template for the remaining data elements. The Initial LOM field, shown in Figure 2, is defaulted to 1st Line as by definition the LRUs are to be removed and replaced in the operational environment. As training costs are not included in the analysis, the Training Times have been zeroed out in Figure 3.

Additional Descriptions | Parts Catalogue | Scheduled Maintenance Data

Part Data | Maintenance Plan | Maintenance Cost Factors | Test Equipment

FIRST LOM Initial LOM

2 Procurement Lead Time (Months):

Corrective Repair Data

Type 2 repair %: 100.00

Type 2 discards %: 30.00

Type 2 Repair Capability (%): 10 10 50

1st Line 2nd Line Contractor

Sparing LORA/LCC

Repair Cycle Time (Days): 2 5

Contractor Turn Around Time (TAT): 120

R/R Cycle Time (days): 1

Type 1 repair percentage: 0.00

MTBR (hours): 7,600.00

Lora Results

Figure 2 – Maintenance Plan Data with Repair Cycle Times

Sparing			LORA/LCC		
Repair Labour (hrs):	0.3	0.75			
Training Time (hrs):	0	0			
Use LOM (LORA only):	1st <input checked="" type="checkbox"/>	2nd <input checked="" type="checkbox"/>	4th <input checked="" type="checkbox"/>		
R/R Labour Time (hrs):	0.4	R/R Training (hrs):	0		

Figure 3 – Maintenance Plan Data with Repair Labour Times

3.2 The additional Maintenance Cost Factors in Figure 4 are provided from Template 2 - Corrective Maintenance Data Template from Appendix 1 of Annex CF to Volume 1. As documentation costs and software maintenance costs are not included in the analysis, these have been zeroed out. The Transportation Route is set to Default which establishes that the LRU will be sent directly to the next LOM IAW with the Maintenance Plan for that LRU (shown in Figure 2) rather than indirectly through an intermediary LOM. Mission Sparing and Undistributed Stock features will not be used in this analysis and, thus left at their default values.

Additional Descriptions	Parts Catalogue	Scheduled Maintenance Data
Part Data	Maintenance Plan	Maintenance Cost Factors
Test Equipment		

Information for LORA and LCC analysis:

Repair Material Cost %:	<input type="text" value="5"/>	New item in inventory	<input type="checkbox"/>
Maintenance Documentation (pages):	<input type="text" value="0"/>		
Contractor Repair Cost %:	<input type="text" value="50"/>		
Lines of Maintenance Software:	<input type="text" value="0"/>		
Transportation Route:	<input type="text" value="Default"/>		

Sparing Data

Mission Impact (%):	<input type="text" value="100"/>	Undistributed Stock:	<input type="text" value="0"/>
---------------------	----------------------------------	----------------------	--------------------------------

LSAR Information

SMR Code:	<input type="text"/>
LRU Indicator:	<input type="text"/>

Figure 4 – Maintenance Cost Factors

3.3 The data from Template 3 - Preventive Maintenance Data Template, from Appendix 1 of Annex CF to Volume 1, is required in the Scheduled Maintenance Data screen, shown in Figure 5, by LRU to define the preventive maintenance requirements and costs.

The screenshot displays a software interface for 'Scheduled Maintenance Data'. At the top, there are several tabs: 'Part Data', 'Maintenance Plan', 'Maintenance Cost Factors', 'Test Equipment', 'Additional Descriptions', 'Parts Catalogue', and 'Scheduled Maintenance Data'. The 'Scheduled Maintenance Data' tab is currently selected. Below the tabs, there is a section titled 'Scheduled Maintenance Data' containing five input fields with their respective values:

Field	Value
MTBSM (Hrs)	154
SM Training Time (Hrs)	0
Scheduled Maintenance Labour (Hrs)	0.33
Sched. Maint. Cost %	1
SM Cycle Time	0

Figure 5 – Preventive Maintenance Data

3.4 The Stock Levels by LRU are shown in Figure 6. The Maximum Stock Level is the maximum number of spares for a given LRU that can be distributed to the Support Organization. This value is used to limit the number of spare LRUs purchased. The Minimum Stock Level is the minimum number of spares that must be purchased. No values have been entered in these fields so as not to restrict the number of spares purchased or to force any purchase.

ISS-S System

Site/Item Global Spare Stock Levels			
Site Name	Previously Distributed Stock	Maximum Stock	Minimum Stock
CONSTRUCTOR			
National Support Element			
MSTF 1			
MSTF 2			

Site/Item Specific Stock Totals:

OK Cancel

Figure 6 – Stock Levels

4 SUPPORT ORGANIZATION

4.1 The Support Organization as given in the DND Provided Data is depicted in Figures 7 and 8 with the appropriate Order and Ship Times. It should be noted that Transportation costs have been negated by including a \$0 shipping cost.

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004RA

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W8476-112965

File No. - N° du dossier
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Volume 1 Annex CG Appendix 2

Support Organization

Config Name: **SUPPORT ORGANIZATION**

ISS-S Rescope Basic V2

- CONTRACTOR
 - 2< National Support Element
 - 1< MSTF 1
 - ISS-S Basic Core
 - 1< MSTF 2
 - ISS-S Basic Core

Site Details

Site Name: **National Support Element**

Order and Ship Time (Days): **30** Training Ratio: **0***

Avg Work hrs/Mo/Tech: **0*** Operating Months/Year: **0***

Maintenance Turnover (%/Yr): **0*** Labour Rate: **0***

* - 0 values default to Global Echelon Settings

Shipping Info

	Distance (km)	Cost (\$)	Fixed Cost?
...to Contractor	5000	0	<input checked="" type="checkbox"/>

Notes

Totals

2nd	1st	Total
1	2	6

Number of Sites

Buttons: Add Peer, Add Child, Delete, Save, PE Buildup, Global Settings, Update, Close

Figure 7 – Support Organization with 2nd Line Data

Support Organization

Config Name: **SUPPORT ORGANIZATION**

ISS-S Rescope Basic V2

- CONTRACTOR
 - 2< National Support Element
 - 1< MSTF 1
 - ISS-S Basic Core
 - 1< MSTF 2
 - ISS-S Basic Core

Site Details

Site Name: **MSTF 1** Ao Target: **0**

Order and Ship Time (Days): **5** Training Ratio: **0***

Avg Work hrs/Mo/Tech: **0*** Operating Months/Year: **0***

Maintenance Turnover (%/Yr): **0*** Labour Rate: **0***

* - 0 values default to Global Echelon Settings

Shipping Info

	Distance (km)	Cost (\$)	Fixed Cost?
...to Contractor	5000	0	<input checked="" type="checkbox"/>
...to National Support Element	200	0	<input checked="" type="checkbox"/>

Notes

Totals

2nd	1st	Total
1	2	6

Number of Sites

Figure 8 – Support Organization with 1st Line Data

4.2 Figure 9 shows the ISS-S quantity and usage by MSTF as given in the DND Provided Data of Annex CG to Volume 1 paragraph 4.9.

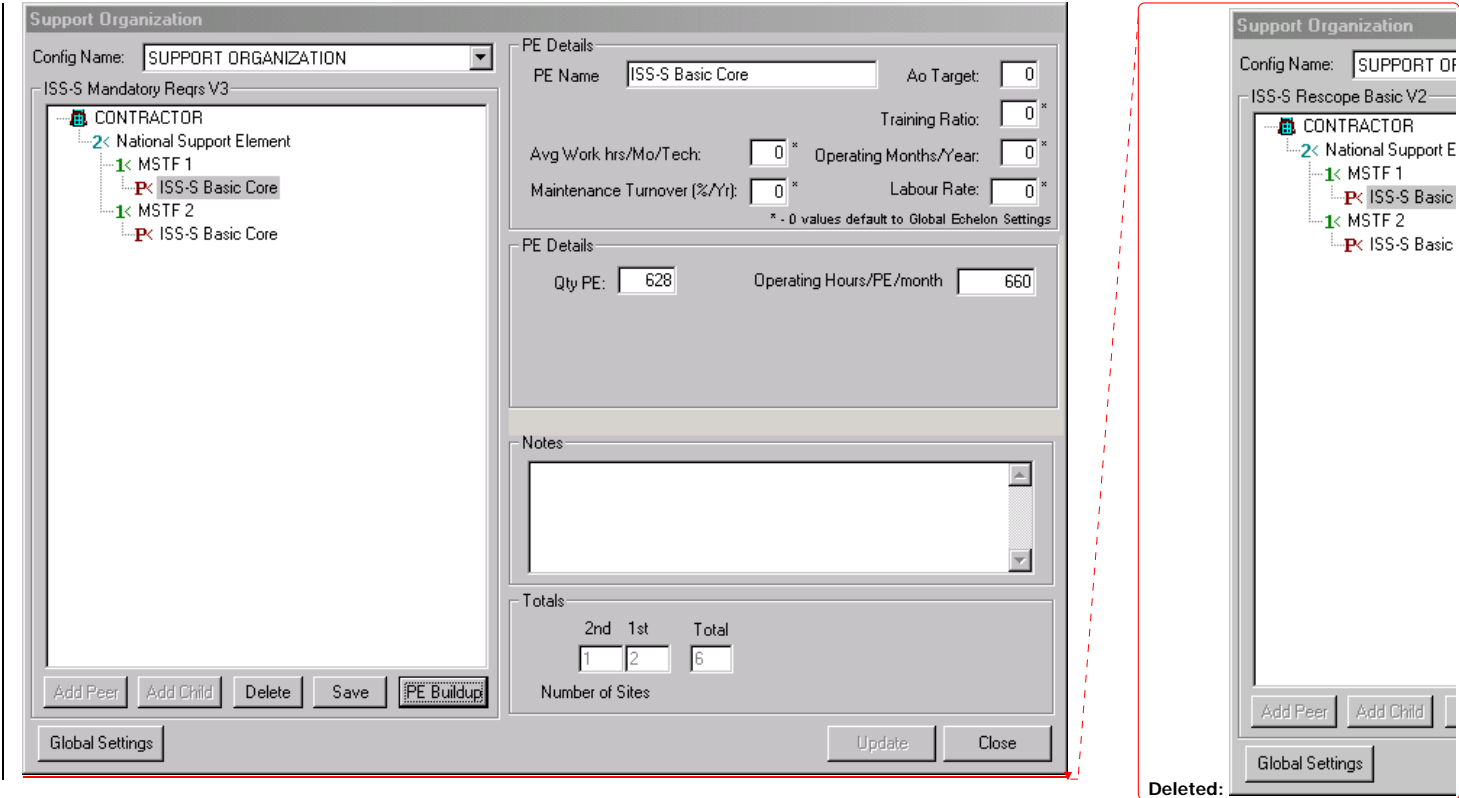


Figure 9 – Support Organization with System Usage Data

5 OTHER SETTINGS

5.1 Other Analyzer system settings required for this LCC analysis scenario are shown in Figures 10 to 14.

5.2 In the Costs and Rates screen of Figure 10, as administration costs, documentation costs and inflation rates are not included in the analysis, all factors have been zeroed out. The labour rates included are from the DND Provided Data of Annex CG to Volume 1 paragraph 4.9.

Administration and Support Costs (\$)		Inflation Rates	
Initial Supply Admin Cost:	0	Consumables:	0
Recurring Supply Admin Cost:	0	Manpower:	0
Training Cost (\$/person/day)	0	Maintenance:	0
		Transport:	0
		Administration:	0

Maintenance Documentation Cost (\$)		Labour Rates (\$)	
Cost Per Page For Original Documentation:	0	Scheduled Maintenance Labour Rate:	85
Cost Per Page For Translation:	0	Labour Rate at PE Site:	85
Cost Per Line For Maintenance Software:	0	Labour Rate at First Lines:	85
Cost Per Page For Doc Update:	0	Labour Rate at Second Lines:	85
Document Update Rate %:	0		
Cost Per Page For Doc Reprinting:	0		

Figure 10 – Miscellaneous Costs and Rates

5.3 The System Default Settings shown in Figure 11 establish the measurement conventions and parameters for the analysis and these are the ones that will be used for the Evaluation.

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Default Settings:

Operating Units expressed in:

☒ Time:

☐ Distance

☐ Other:

Equipment components are listed by:

☒ Name

☐ Reference Number

☐ Logistic Control Number

Contractor is resupply only:

☐ True ☒ False

Transportation Route:

☒ Direct ☐ Indirect

Backup Interval:

Interval between project backups.
(0 = disabled)

0 mins.

Contractor Costs:

Ordering cost per item: 0

Holding cost per item: 0

Analyzer Settings:

Maximum number of equipment indentures: 18

Number of support echelons: 3

Number of working hours in a calendar day: 8

Unit Symbols:

Currency: \$

Weight: kg

Distance: km

Volume: m³

OK Cancel

Figure 11 – System Default Settings

5.4 In Figure 12 the system Global Echelon Settings are shown. As training costs, turnover rate and spares ordering and holding costs are not included in this analysis, they have been zeroed out. The Work Hours per Month per Technician is the average number of hours in a month that a maintenance technician is available at the specified line of maintenance to perform maintenance tasks. The settings for 1st and 2nd line are based on the technicians being available 8 hours per day, while that for On PE is based on the ISS-S Battlefield Day usage of 22 hours per day. The Fill Rate is used for the costing of consumables where no MTBF is supplied. The system default is set at 92%. These will be the settings used for the Evaluation.

2nd	1st	On PE	
240	240	660	Average Work Hours/Month/Tech
0	0	0	Maintenance Turnover (%/Yr)
0	0	0	Training Ratio
0	0	0	Ordering Cost of Spares (\$)
0	0	0	Holding Cost of spares (%)
92	92	0	Fill Rates (%)

Figure 12 – Global Echelon Settings

5.5 The Prime Equipment Settings of Figure 13 establish the ISS-S system acquisition and life expectancy over which to calculate the LCC. In this analysis, the acquisition year is 2012 with an 8 year life expectancy. No PE Test Time is included in this analysis outside of the testing required to detect and isolate a failed LRU, which is included in the LRU Remove/Replace Times.

Part Data	Maintenance Plan	Maintenance Cost Factors	Test Equipment
Additional Descriptions	Parts Catalogue	PE Constants	Scheduled Maintenance Data

Constants:

Base Year: Year of Acquisition: System Life:

	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
Default Acquisition Profile:	<input type="text" value="100"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="100"/>

PE Maintenance Constants:

PE Test Time (Hrs)

Figure 13 – Prime Equipment Settings

5.6 The MTBF Risk Factors in Figure 14 incorporate the uncertainty in the determination of the MTBF estimates provided by the Bidder. The Low and High Values for each LRU in the Risk Analysis Factors screen correspond to those in Figure 3 of Annex CG to Volume 1 according to the MTBF Determination Method provided in the Generic System Data Template.

Risk Analysis Factors

Project Constants

First Factors

Item Costs

Support Equipment

Second Factors

Unit MTBF's

Inflation Rates

Removal Times

Defined Costs

Name of unit	Expected MTBF	Low Value (%)	High Value (%)
Communication Suite	7600	65	105
Computer	2000	65	105
Tactical UI	7500	25	105
Audio Display	13333	65	105
Wired PTT	13333	65	105
Integrated GPS	8000	95	105
Bearing Indicator	10000	95	105
Cabling	2400	65	105
Power Infrastructure	11111	65	105
▶ External Data Storage	10000	25	105

Figure 14 – MTBF Risk Factors

Risk Analysis Factors	
Project Constants	
First Factors	
Item Costs	
Name of unit	
Communication Suite	
Computer	
Tactical UI	
Audio Display	
Wired PTT	
Integrated GPS	
Bearing Indicator	
Cabling	
Power Infrastructure	
ISS-S Pouches	
External Data Storage	

Deleted:

6 SPECIAL TOOLS AND TEST EQUIPMENT (STTE) COSTS

6.1 The costs for STTE will be included in the Custom Cost feature of OmegaPS Analyzer. Figure 15 shows the Custom Cost entry screen for the STTE acquisition and set-up for the 1st Line Repair Sites. The Unit Cost is the STTE Acquisition Cost plus the STTE Set-Up Cost from Template 4 – STTE Data Template from Appendix 1 of Annex CF to Volume 1. Both of these costs are one time only costs to purchase the equipment. Setting the Cost Type to Fixed (Percent) and the Cost Measure to 1st Line Sites will multiply the Unit Cost by the number of 1st Line Sites in the scenario to obtain the total LCC for the STTE required at 1st Line. A similar entry will be made for the 2nd Line sites.

Cost Profile (%)										
2012	2013	2014	2015	2016	2017	2018	2019	2020	Total	
100	0	0	0	0	0	0	0	0	100	

Figure 15 – STTE Acquisition and Set-Up Cost Entry Screen

6.2 The STTE Annual Maintenance Costs will also be included in the Custom Cost feature of OmegaPS Analyzer. Figure 16 shows the Custom Cost entry screen for these costs for the 1st Line Repair Sites. The Unit Cost is the STTE Annual Maintenance Cost from Template 4 – STTE Data Template in Appendix 1 of Annex CF to Volume 1. Setting the Cost Type to Recurring and the Cost Measure to 1st Line Sites will multiply the Unit Cost by the number of 1st Line Sites in the scenario on an annual basis for the 8 year life span to obtain the total LCC for the maintenance of the STTE required at 1st Line. A similar entry will be made for the 2nd Line sites.

Define Cost

Cost Definition

Prime Equipment: ISS-S Basic Core

Cost name: STTE ANNUAL MAINT 1ST LINE

Cost type: RECURRING

Cost measure: 1ST LINE SITES

Cost class: MAINTENANCE Sub class:

Inflation Rate: (none)

Unit cost : 550 (\$)

Cost start year: 2010 Duration (years): 0

Comment:

Cost profile

2013	2014	2015	2016	2017	2018	2019	2020
100	0	0	0	0	0	0	100

Cost Factors

Use?	Factor One Name	Factor
<input type="checkbox"/>		0
<input type="checkbox"/>	Factor Two Name	0

OK Cancel

Figure 16 – STTE Annual Maintenance Cost Entry Screen

7 ISS BATTERY COSTS

7.1 The costs for ISS Rechargeable and ISS Non-Rechargeable Batteries will be included in the Custom Cost feature of OmegaPS Analyzer. Figure 17 shows the Custom Cost entry screen using the ISS Non-Rechargeable Battery cost as an example. The Unit Cost is the Cost / Soldier / Year for 50% Use from Template 5 - Non-Rechargeable Battery Cost Template in Appendix 1 of Annex CF to Volume 1. Setting the Cost Type to Recurring and the Cost Measure to Prime Equipment will multiply the Unit Cost by the number of ISS-S in the scenario on an annual basis for the 8 year life span to obtain the total LCC for this battery type. The same set-up will apply for the ISS Rechargeable Battery cost.

Define Cost

Cost Definition

Prime Equipment: ISS-S Basic Core

Cost name: NON-RECHARGEABLE BATTERIES

Cost type: RECURRING

Cost measure: PRIME EQUIPMENT

Cost class: OPERATING Sub class:

Inflation Rate: (none)

Unit cost : 13688 (\$)

Cost start year: 2012 Duration (years): 0

Comment:

Cost profile

2013	2014	2015	2016	2017	2018	2019	2020
100	0	0	0	0	0	0	100

Cost Factors

Use?	Factor One Name	Factor
<input type="checkbox"/>		0
Use?	Factor Two Name	Factor
<input type="checkbox"/>		0

OK Cancel

Figure 17 – ISS Battery Cost Data Entry Screen

8 LCC ANALYSIS AND RESULTS

8.1 For this analysis the LCC model with the software calculated spares cost of an optimal allocation will be run. This will utilize both the OmegaPS Analyzer LCC model and Sparing model. The LORA model will not be used.

8.2 The settings to run this analysis are shown in Figure 18. Note, under the LCC Sparing Options, the Calculate Spares Cost option is selected with an Operational Availability target of 90% entered. This will invoke the running of the Sparing model, in conjunction with the LCC model, to achieve the optimal spares allocation at minimum cost.

The screenshot shows the 'System Analysis' dialog box with the following settings:

- Select Scenario:** A table with two columns: 'Description' and 'Support Org.'. The first row is 'Mandatory Baseline' and 'SUPPORT ORGANIZATION'.
- Options:**
 - ☐ Use sensitivity factors
 - ☐ Use UDS
 - ☐ Use PDS
 - ☐ Use site/item minimum stock levels
 - ☐ Use site/item maximum stock levels
 - ☐ Export LSAR LOM quantities
 - ☐ Phased Buy
- Measure of Effectiveness:**
 - ☒ Operational Availability (with a dropdown menu set to 'System Average')
 - ☐ Delay Time
 - ☐ Backorders
 - ☐ Probability of Mission Accomplishment
- LCC Sparing options:**
 - ☒ Calculate Spares Cost (with 'LCC MOE Target: 90' entered in a text box)
 - ☐ Fixed Spares Cost (with an 'Enter Spares Costs' button)
 - ☐ No Spares
- Logistics Cost:**
 - ☒ Replacement Cost
 - ☐ Shipping Volume
 - ☐ Shipping Weight
- Buttons:** 'New', 'Edit', 'Delete' (under Select Scenario); 'Sparing', 'LCC', 'LORA', 'Cancel' (at the bottom).

Figure 18 – LCC Analysis Settings

8.3 The LCC analysis results are shown in Figures 19 and 20. The LCC Summary Report of Figure 19 provides the total expected LCC for the analysis scenario with this broken down into some of its major categories, such as fixed, recurring and maintenance costs. . In this example the expected total LCC is \$416,959,747.

LCC Summary Report

Life Cycle Cost Summary

ISS-S Mandatory Reqs V3 - Mandatory Baseline

Parameters					
Analysis: Full Sparing		System Life:		8	
Base Year: 2012		Year of Acquisition:		2012	
Inflation Rates					
Administration		0.00%	Maintenance		0.00%
Consumables		0.00%	Manpower		0.00%
Transport		0.00%			
Total Life Cycle Cost (w/ inflation)				\$416,959,747	
Total Fixed Costs				\$11,578,318	
Total Recurring Costs				\$405,381,432	
Maintenance Costs					
Total Cost for Recurring Maintenance				\$19,843,541	
Total of Cost per Item Failure (\$/yr)				\$9,076	
Fixed Costs				\$11,578,318	
Annual Costs				\$50,672,679	
Other Costs				\$17,748,540	
Labour Hours (Required)				6,226.7 hrs	

Figure 19 – LCC Summary Report

8.4 The 90% upper confidence level on the LCC, used in the comparative evaluation in Part 2 of Table 2, from Appendix 1 of Annex CG to Volume 1, is determined from the cumulative distribution function of the LCC shown in Figure 20. In this example \$437,285,000 is the 90% upper confidence level on the LCC and would be the LCC used for the comparative Evaluation of Part 2 of Table 2 from Appendix 1 of Annex CG to Volume 1.

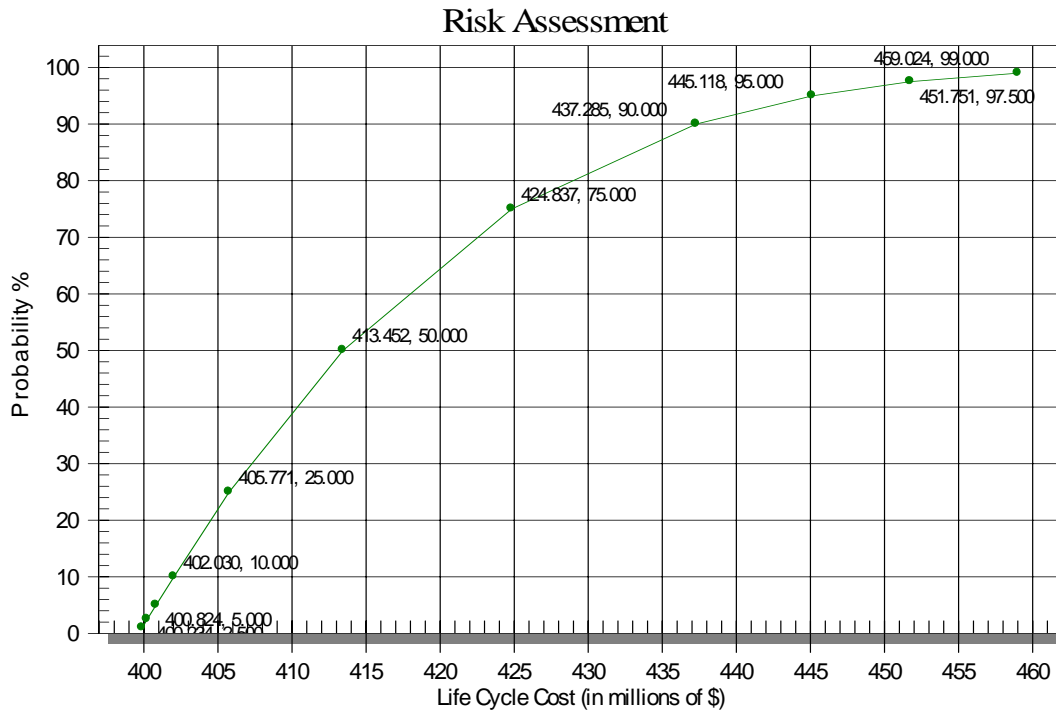


Figure 20 – Cumulative Distribution of the LCC

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ANNEX CH TO VOLUME 1

Section VII – ISS – OWSS Management Bid Preparation Instructions

This annex details how the OWSS Management Bid will be prepared.

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1 General

1.1 In their management bid for in-service support, Bidders must demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders must demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

1.2 The management bid for in-service support must address clearly and in sufficient depth the requirements against which the bid will be evaluated. Simply repeating the requirement statement contained in the bid solicitation is not sufficient. To avoid duplication, Bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

1.3 Evaluation will be based on the Bidder's response on how he proposes to meet the in-service management requirements post contract award.

1.4 The Bidder should provide the information grouped under the following topics and as described in each section below:

1.4.1 Program Management Services capability, including:

- Risk Profile;
- Corporate Capabilities;
- Program Management; and
- Configuration Management;

1.4.2 Supply Support Management Services capability, including:

- Spare Parts Management; and
- Repair and Overhaul Management.

1.4.3 Technical Support Management Services capability, including:

- Technical Training management;
- Technical Support management; and
- Disposal management.

1.4.4 Engineering Support Management Services capability, including:

- System Engineering management;
- System and Design Engineering support management;
- Logistics Engineering management; and
- Technical Publications management.

RFP - N° de la DP W8476-112965/B	Amendement No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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1.5 In all cases bidders should provide the information requested in a complete and precise fashion and should note how Canada will evaluate responses as detailed in the section covering ISS – OWSS Management Evaluation (RFP Volume 1 Annex CI) for each Management area.

2 Management Compliance Matrices

2.1 The Management Compliance Matrices are provided to assist bidders in completing and presenting their responses to management requirements included in this Annex. Bidders are responsible for ensuring that all requirements are addressed. Matrices can be found in Appendix 1 to Annex CI to Volume 1.

2.2 The information provided by the Bidder in the areas of Program Management and Configuration Management Services is requested in the form of draft plans structured in accordance with the DIDs described in RFP Volume 3 Annex CC Appendix 2 and this information must be incorporated into the Bidder's Management Proposal. For the Risk Profile and Corporate Capabilities, as well as for Supply Support, Technical Support and Engineering Support Management areas, the Bidder must complete and submit the applicable Management Compliance Matrix.

2.3 The matrices have the following columns::

2.3.1 Information provided by DND:

2.3.1.1 Column 1: ID. This section provides sequential item numbering.

2.3.1.2 Column 2: Requirement Reference. This column provides the requirement reference section or para number from Volume 1 Annex CH.

2.3.1.3 Column 3: Requirement. This is the Managerial Requirement statement from Vol. 1 - Annex CH.

2.3.1.4 Column 4: Requirement Category. This column specifies if the requirement is a Mandatory requirement with designation "M", or a Point Rated requirement with the designation "R".

2.3.1.4.1 M: when the requirement category is indicated as "M", the Mandatory requirement is evaluated based on the Bidder's response. Failure to meet a mandatory requirement will make the bid non-compliant. Bids not meeting the mandatory requirement will be given no further consideration.

2.3.1.4.2 R: when the requirement category is indicated as "R", the Rated requirement is evaluated based on the Bidder's response and is assigned a score based on the established Evaluation Criteria and Scale. For any Rated requirement for which there is a minimum pass mark, failure to reach the passing mark will make

the bid non-compliant. Bids not meeting the passing mark will be given no further consideration. A score will be given for each rated requirement and will be used to determine the Bidder's total Management score

2.3.1.5 Column 5: Instructions to Bidder. This column specifies the information to be provided by the Bidder.

2.3.1.6 Column 8: Evaluation Criteria and Scale. This column describes the details of how the bidder's response will be evaluated to determine the Bidder's level of Compliance to the requirements. This column specifies the scoring method and the range of scores that will be used to assess each rated evaluation criterion.

2.3.1.7 Column 9: Score. This column specifies the maximum allocation of points, establishes any Minimum Pass Mark, where applicable, associated with each rated evaluation criterion.

2.3.2 Information provided by the Bidder:

2.3.2.1 Column 6: Bidder's compliance. In this column the Bidder must specify that its Proposal is compliant or non-compliant to those requirements associated with the word "must" which are Mandatory; or compliant, non-compliant or not-provided to those requirements that are rated which are point rated. The Bidder can describe its compliance to these requirements as stated above by using the words "COMPLIANT", "NON-COMPLIANT" or "NOT PROVIDED". The aforementioned compliance terms have the following meaning:

2.3.2.1.1 COMPLIANT indicates that the Bidder claims that his proposal complies totally with the mandatory managerial requirement, or achieves the rated managerial requirements passing mark, and that the Bidder has submitted all information and supporting documentation requested.

2.3.2.1.2 NON-COMPLIANT indicates that the Bidder cannot claim that his proposal meets the mandatory managerial requirement or reach the rated managerial requirements passing mark. It automatically makes a Bidder's proposal non-compliant.

2.3.2.1.3 NOT PROVIDED indicates that the Bidder's proposal does not provide a response to this rated requirement; no point will be awarded.

2.3.2.2 Column 7: Bidder's response. In this column the Bidder must, when requested in column 5 titled "Instructions To Bidders", provide a description of compliance to mandatory or rated requirements by providing a statement which clearly supports/justifies the response provided as requested

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under the column “Instructions To Bidders”; and/or demonstrate compliance to mandatory or rated requirements by pointing specifically to the appropriate section of a Plan, Survey and/or Report that is included in the management proposal for that purpose. When referring to other portions of their proposal, the Bidder must include clear directions regarding where the relevant information required for evaluation can be found. References to Web pages are forbidden. The Bidder’s proposal must be complete by itself.

3 Program Management Services Capability

3.1 Risk Profile

3.1.1 This section outlines bid requirements with respect to a company’s ability to provide in-service support for the ISS. DND considers that the following issues could potentially present HIGH risks to the successful outcome of the OWSS Program. The Bidder must respond to the following risks identified by DND:

3.1.1.1 Technical Risk – The scope of the ISS OWSS Program exceeds the program management, supply, technical and engineering support capabilities of the successful bidder;

3.1.1.2 Support Risk - The Prime Contractor / Integrator may not be successful in keeping effective business relationships with unique partners, sub-contractors and/or parts suppliers and that the continuing availability of critical/sole source support items may not be guaranteed during the in-service support phase of the Project; and

3.1.1.3 Programmatic Risk – The Bidder has limited engineering expertise or no experience in weapon system in-service support programs which could negatively affect the service level and response time requested by DND.

3.1.2 The Bidder should provide a detailed explanation/rationale as to why the stated items above should not be considered as risks; or, if they are considered risks, provide an explanation as to what risk response strategy is envisaged to deal with the stated risks.

3.1.3 The Bidder must complete the Risk Profile section of the Program Management Services Capability Compliance Matrix – found in Part 1 of Table 1, in Appendix 1 to Annex CI of RFP Volume 1.

3.2 Corporate Capabilities

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3.2.1 The Bidder's Corporate Capabilities will be evaluated using the following areas:

3.2.1.1 Experienced in playing a leadership role in the management and provision of in-service support programs similar to the ISS OWSS Program.

3.2.1.2 The Bidder should propose a project team that should be experienced in the management of program(s) of similar scope and value, and be familiar with DND policies and procedures related to Project Management, Quality Assurance, Integrated Logistics Support, Supply Management, Repair and Overhaul, Security Engineering, provision of Technical Investigation and Engineering Services, and Configuration Management/Data Management.

3.2.2 The Bidder must complete the Corporate Capabilities section of the Program Management Services Capability Compliance Matrix – found in Part 2 of Table 1, in Appendix 1 to Annex CI of RFP Volume 1.

3.3 Program Management

3.3.1 The Bidder must submit a draft OWSS Program Management Plan (PMP), completed in the format specified by RFP Volume 3 Annex CC Appendix 2, DID PM-101. The Bidder must prepare the PMP in sufficient detail so as to clearly demonstrate the ability to manage a project with the complexity of the ISSP.

3.3.2 The Bidder must complete the Program Management Plan section of the Program Management Services Capability Compliance Matrix found in Part 3 of Table 1, in Appendix 1 to Annex CI of RFP Volume 1.

3.4 Configuration Management

3.4.1 The Bidder must submit a draft OWSS Configuration Management Plan, completed in the format specified by RFP Volume 3 Annex CC Appendix 2, DID CM-101. The Bidder must prepare the CMP in sufficient detail so as to clearly demonstrate the ability to manage all configuration management aspects of a project with the complexity of the ISSP.

3.4.2 The Bidder must complete the Configuration Management Plan section of the Program Management Services Capability Compliance Matrix found in Part 4 of Table 1, in Appendix 1 to Annex CI of RFP Volume 1.

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4 Supply Support Management Services Capability

4.1 Spare Parts Management Services

4.1.1 The Bidder should describe the process that will ensure spares orders are processed efficiently:

4.1.1.1 The Bidder has a Supply Support Management Service that satisfies Canada's needs

4.1.1.2 The Bidder has a spare parts provision service that is convenient and allow easy selection and identification of spares; and

4.1.1.3 The Bidder has a spares provision service that is responsive to Canada's needs;

4.1.2 The Bidder must complete the Spare Parts Management Services section of the Supply Support Management Services Capability Compliance Matrix found in Part 1 of Table 2, in Appendix 1 to Annex CI of RFP Volume 1.

4.2 Repair and Overhaul Management Services

4.2.1 The Bidder should describe the process that will ensure R&O is processed efficiently:

4.2.1.1 The Bidder has the necessary R&O business processes to provide the services requested under this RFP to meet the ISS OWSS requirements;

4.2.1.2 The Bidder has the necessary business relationships with other entities, such as entities for shipping and transportation of R&O candidates as well as suppliers of parts and consumables, to support the successful conduct of the R&O services requested under this RFP and to meet the ISS OWSS requirements;

4.2.1.3 The bidder has the necessary resources to conduct the R&O services offered.

4.2.2 The Bidder must complete the R&O Management Services section of the Supply Support Management Services Capability Compliance Matrix found in Part 2 of Table 2, in Appendix 1 to Annex CI of RFP Volume 1.

5 Technical Support Management Services Capability

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5.1 The Bidder should describe the process by which he will manage and provide the technical support management services capability for the following:

5.1.1 The Bidder is capable of providing training support services to DND on an “if, as and when required” basis.

5.1.2 The Bidder ensures appropriate resources are available to provide technical support services “if, as and when required” by the TA.

5.1.3 The Bidder proposed disposal services comply with the instructions provided under A-LM-007-014/AG=001 and A-LM-184-001/JS-001..

5.2 The Bidder must complete the Technical Support Management Services Capability Compliance Matrix found in Table 3, in Appendix 1 to Annex CI of RFP Volume 1.

6 Engineering Support Management Services Capability

6.1 The Bidder should describe the process by which he will manage and provide the engineering support management services capability for the following:

6.1.1 The Bidder ensures a smooth transition of the Engineering Program established during the Acquisition Contract to the OWSS Contract.

6.1.2 The system and design engineering support management services is responsive to the requirements of the TA for system engineering investigation support, as well as the conduct of system design reviews as and when required.

6.1.3 The Bidder has the capability of providing logistics engineering services to the TA on an as and when required basis.

6.1.4 The Bidder has the capability of providing technical publications management services to ensure the ISS technical publications are monitored and maintained up-to-date.

6.2 The Bidder must complete the Engineering Support Management Services Capability Compliance Matrix found in Table 4, in Appendix 1 to Annex CI of RFP Volume 1.

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ANNEX CI TO VOLUME 1

ISS – OWSS Management Evaluation

This annex details how the OWSS Management Bids will be evaluated.

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1. General

- 1.1. The OWSS Management Evaluation contributes 40% to the Overall OWSS Bid Evaluation score.

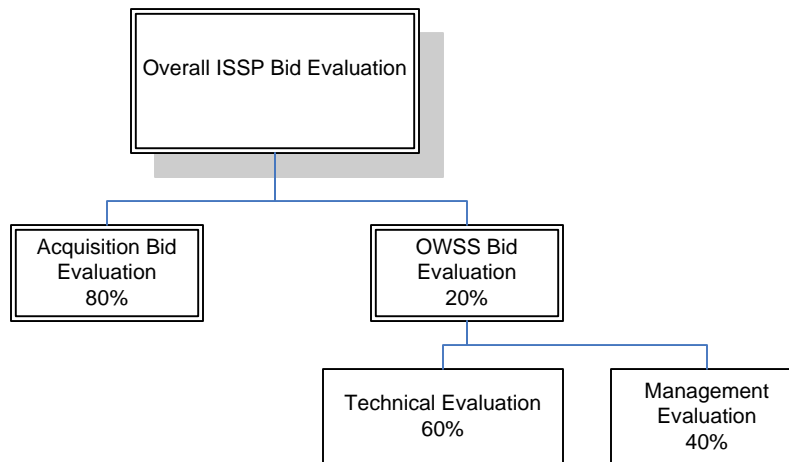


Figure 1 – OWSS Bid Evaluation Topology

- 1.2. Proposals will be evaluated in four main categories as shown in figure 2 below.

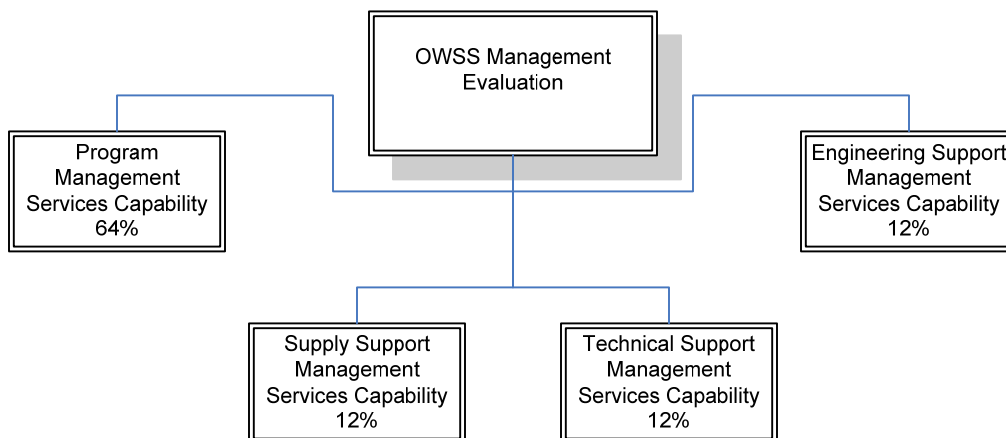


Figure 2 – OWSS Management Evaluation Topology

- 1.3. Management Bid Preparation Instructions can be found at **Annex CH to Volume 1**.

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1.4. The Management Bid will be evaluated using the compliance matrices as follows:

- 1.4.1. The Program Management Services Capabilities evaluation will be based on the Bidder's response in the Program Management Services Compliance matrices (Annex CI, Appendix 1, Table 1) , and compliance with minimum mandatory scores (Annex CI, Appendix 1, Table 5);
- 1.4.2. The Supply Support Management Services Capabilities evaluation will be based on the Bidder's response in the Supply Support Management Services Compliance matrices (Annex CI, Appendix 1, Table 2), and compliance with minimum mandatory scores (Annex CI, Appendix 1, Table 5);
- 1.4.3. The Technical Support Management Services Capabilities evaluation will be based on the Bidder's response in the Technical Support Management Services Compliance matrix (Annex CI, Appendix 1, Table 3), and compliance with minimum mandatory score (Annex CI, Appendix 1, Table 5);
- 1.4.4. The Engineering Support Management Services Capabilities evaluation will be based on the Bidder's response in the Engineering Support Management Services Compliance matrix (Annex CI, Appendix 1, Table 4), and compliance with minimum mandatory score (Annex CI, Appendix 1, Table 5); and
- 1.4.5. The Management Bid Mandatory Criteria Evaluation will be based on verification of the mandatory submissions as detailed in Volume 1, Annex CH to Volume 1 and Annex CI, Appendix 1, Table 5.

2. Program Management Services Capability

- 2.1. Corporate Experience will be used by Canada to confirm the capability and commitment of the Bidder as it relates to delivering the in-service support for the ISS. The Bidder's Corporate Experience will be assessed using experience claimed in delivering service of the scope and size of the ISS OWSS, the Bidder's assessment of project risk and their monitoring capabilities.
- 2.2. The managerial capability of each Bidder will be assessed on their ability to manage and deliver the ISS OWSS. The Bidder's Program Management and Configuration Management plans will be evaluated to ensure a full understanding of the requirements.
- 2.3. The Bidder's Program Management Services Capability will be assessed as detailed in Table 1 of Appendix 1 to this Annex.
- 2.4. Figure 3 is a pictorial representation of the high-level evaluation topology for Program Management Services Requirements for ISS OWSS.

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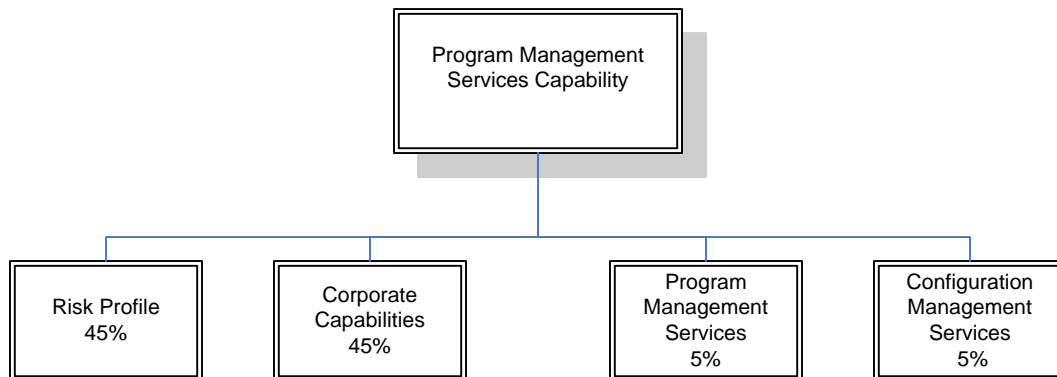


Figure 3 – Program Management Services Capability Evaluation Topology

2.5. Evaluation of the Risk Profile.

2.5.1. The compliance matrix for Risk Profile is found in Part 1 of Table 1 in Appendix 1 to this Annex.

2.5.2. The evaluation will be based on the Bidder's response to the risk and indicated in the compliance matrix. Each response will be rated based on the Evaluation Criteria and Scale in column 8 of the matrix. The assigned score for each requirement will be totalled; the total obtained will give the total score for Part 1 of Table 1.

2.5.3. Minimum Mandatory Score. The sum of the scores of this part of the table must achieve a minimum mandatory score. Failure to achieve it will make the Bid non-compliant.

2.6. Evaluation of Corporate Capabilities.

2.6.1. The compliance matrix for Corporate Capabilities is found in Part 2 of Table 1 in Appendix 1 to this Annex.

2.6.2. The evaluation will be based on the Bidder's response to the requirements as indicated in the compliance matrix. Each response will be rated based on the Evaluation Criteria and Scale in column 8 of the matrix. The assigned score for each requirement will be totalled; the total obtained will give the total score for Part 2 of Table 1.

2.6.3. Minimum Mandatory Score. The sum of the scores of this part of the table must achieve a minimum mandatory score. Failure to achieve it will make the Bid non-compliant.

2.7. Evaluation of Program Management Services.

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2.7.1. The compliance matrix for Program Management Services is found in Part 3 of Table 1 in Appendix 1 to this Annex.

2.7.2. The Evaluation will be based on the Bidder's response to each statement in the compliance matrix. Each response will be scored based on the Scoring Scale Chart, Figure 4, as applied to the associated maximum score in column 9a of the matrix. The sum of all scores obtained for each response will give the total score for Part 3 of Table 1.

2.7.3. Minimum Mandatory Score. The sum of the scores of this part of the table must achieve a minimum mandatory score. Failure to achieve it will make the Bid non-compliant.

2.8. Evaluation of Configuration Management Services.

2.8.1. The compliance matrix for Configuration Management Services is found in Part 4 of Table 1 in Appendix 1 to this Annex.

2.8.2. The Evaluation will be based on the Bidder's response to each statement in the compliance matrix. Each response will be scored based on the Scoring Scale Chart, Figure 4, as applied to the associated maximum score in column 9a of the matrix. The sum of all scores obtained for each response will give the total score for Part 4 of Table 1.

2.8.3. Minimum Mandatory Score. The sum of the scores of this part of the table must achieve a minimum mandatory score. Failure to achieve it will make the Bid non-compliant.

2.9. Scoring Scale Chart for Program Management. The following Chart (Figure 4) will be used to evaluate the degree to which a Bidder's response complies with the Program Management Requirements.

Percentage of Points allocated	Assessment Word Pictures
100%	EXCELLENT Fully demonstrates that all of the objectives of the Question are met in a suitable and documented manner. The proposed solution very clearly demonstrates that all of the objectives will be fully met.
80%	GOOD Reasonably demonstrates that all of the objectives of the Question are met in a suitable and documented manner. The proposed solution is comprehensive, but it does not demonstrate that all of the objectives will be fully met.

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Percentage of Points allocated	Assessment Word Pictures
60%	AVERAGE Demonstrates that most of the objectives of the Question are met in a suitable and documented manner. The proposed solution has substance, but it does not demonstrate that all of the objectives will be met.
40%	POOR Demonstrates that some of the objectives of the Question are met in a suitable and documented manner. The proposed solution does not meet all of the objectives in any significant manner, but it does demonstrate some associated merit and utility.
20%	VERY WEAK Demonstrates that few of the objectives of the Question are met in a suitable and documented manner. The proposed solution does not address all of the objectives in any significant manner, and it demonstrates little associated merit or utility.
0%	UNACCEPTABLE No information provided, or the proposed solution does not address any of the objectives of the Question in a suitable and documented manner.

Figure 4 - Scoring Scale Chart for Program Management

3. Supply Support Management Services Capability

- 3.1. In order to assist Canada's task in assessing Bidder's capability to provide Supply Support Management Services, the Bidder's must provide descriptions of processes on how they will achieve the objectives, of how they are compliant to the requirements, and descriptions of their capabilities. Using the Scoring Scale Chart at figure 5, each requirement will be scored based on the overall understanding of the requirement by the Bidder and the credibility of the descriptions offered and potential for success.

Percentage of Points Allocated	Assessment Word Pictures
100%	EXCELLENT This description clearly demonstrates that the Bidder fully understands the requirement. The Bidder possesses the necessary corporate capability, knowledge and experience to provide the services requested in this RFP. The potential for a successful execution is rated high.

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Percentage of Points Allocated	Assessment Word Pictures
75%	GOOD Most of the description provided demonstrates that the Bidder has a sound understanding of the requirement. The Bidder seems to possess the necessary corporate capability, knowledge and experience to provide the services requested in this RFP. The potential for success is rated as high however minor adjustments and clarifications will be required in order to optimise a successful execution.
50%	AVERAGE The description provided demonstrates that the Bidder generally understands the requirements. There are a number of areas in the description that require clarifications to confirm if the Bidder really possesses the corporate capability, knowledge and experience to provide the services requested in this RFP. The potential for success is rated as good, but a number of adjustments and clarifications will be required in order to assure or improve potential for a successful execution.
0%	UNACCEPTABLE The Bidder does not understand the requirements. It is doubtful that the Bidder possesses the corporate capability, knowledge and experience to provide the services requested in this RFP. The potential for success is assessed as low and significant adjustments and clarifications are required.

Figure 5 – Scoring Scale Chart for Services Process Descriptions

- 3.2. Details of the Supply Support Management Services capability evaluation criteria are described in Table 2 of Appendix 1 to this Annex.
- 3.3. Minimum Mandatory Score. The evaluation of this capability is divided into two parts: Spare Parts and Repair & Overhaul Management Services capabilities. Each evaluation has a minimum mandatory score required for its related total score. Failure to achieve either minimum mandatory score will make the Bid non-compliant.
- 4. Technical Support Management Services Capability**
 - 4.1. In order to assist Canada's task in assessing Bidder's capability to provide Technical Support Management Services, the Bidder's must provide descriptions of processes on how they will achieve the objectives, of how they are compliant to the requirements, and descriptions of their capabilities. Using the Scoring Scale Chart at figure 5, each requirement will be scored based on the overall understanding of the requirement by the Bidder and the credibility of the descriptions offered and potential for success.

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- 4.2. Details of the Technical Support Management Services capability evaluation criteria are described in Table 3 of Appendix 1 to this Annex.
- 4.3. Minimum Mandatory Score. The sum of the scores of this table must achieve a minimum mandatory score. Failure to achieve it will make the Bid non-compliant.

5. Engineering Support Management Services Capability

- 5.1. In order to assist Canada's task in assessing Bidder's capability to provide Engineering Support Management Services, the Bidder's must provide descriptions of processes on how they will achieve the objectives, of how they are compliant to the requirements, and description of their capabilities. Using the Scoring Scale Chart at figure 5, each requirement will be scored based on the overall understanding of the requirement by the Bidder and the credibility of the description offered and potential for success.
- 5.2. Details of the Engineering Support Management Services capability evaluation criteria are described in Table 4 of Appendix 1 to this Annex.
- 5.3. Minimum Mandatory Score. The sum of the scores of this table must achieve a minimum mandatory score. Failure to achieve it will make the Bid non-compliant.

6. Management Bid Mandatory Criteria Evaluation

- 6.1. The Table 5 - Management Bid Mandatory Criteria Evaluation Compliance Matrix will be used by Canada to determine if the Bidder's proposal meets all the mandatory requirements of the RFP Annex CH "Section VII – Management Bid Preparation Instructions" to Volume 1. Any missing Mandatory deliverable from the components described in Paragraph 1.4, or Minimum Mandatory Score not met as stipulated in the associated Compliance Matrices will render the bid non-responsive.

7. Management Bid Final Score

- 7.1. The OWSS Management Final Score is calculated as follows:

Compliance Matrix	Score
Table 1 -Program Management Services Capability Rated Score	
Table 2 - Supply Support Management Services Capability Rated Score	
Table 3 - Technical Support Management Services Capability Rated Score	
Table 4 - Engineering Support Management Services Capability Rated Score	
Total Score - OWSS Management Bid Evaluation	

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7.2. The OWSS Managerial Final Score will be entered in RFP Volume 1, Annex CJ.

8. OWSS Management Bid Compliance Matrices

8.1. The OWSS Management Bid Compliance Matrices can also be found in electronic format in the Microsoft Excel[®] MCM RFP package referred to in section 2.7 of Volume 1. The OWSS Management requirements Matrix of Compliance formatted for Microsoft Excel[®] is found in the file called "ISS_OWSS_ManagementMCM_V1.XLS".

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APPENDIX 1 TO ANNEX CI TO VOLUME 1

MANAGERIAL COMPLIANCE MATRICES

This Appendix to Annex CI to Volume 1 provides the OWSS Managerial Compliance Matrices used to evaluate the OWSS Management Bid requirements.

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Table 1 – Program Management Services Capability Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
Part 1 - Risk Profile									
1.1.1	3.1.1.1	Technical Risk – The scope of the ISS-S OWSS Program exceeds the program management, supply, technical and engineering support capabilities of the successful Bidder;	R	<p>Bidders should clearly explain how this risk is addressed in their risk management plan and provide their risk response strategy. A risk response plan showing the measures planed to avoid, transfer, mitigate and/or accept the risk to maintain its probability and impact at a low level will be described.</p> <p>Bidders are encouraged to use Chapter 11 of ‘A Guide to the Project Management Body of Knowledge’ (PMBOK® Guide) – Fourth Edition in demonstrating their Risk Management strategy.</p>			<p>The Bidder’s risk analysis clearly indicates an unlikely probability of occurrence and negligible impact (if any) on the project. Confidence is High. High probability of success. A comprehensive risk response strategy has been articulated. Overall Assessment of the Bidder’s response substantiates a LOW level of risk = 100% of points.</p> <p>The Bidder’s risk analysis indicates a likely probability of occurrence and moderate impact on the project. Confidence is Good. Moderate probability of success. A sound risk response strategy has been articulated. Overall Assessment of the Bidder’s response substantiates a MEDIUM level of risk = 50% of points.</p> <p>The Bidder’s risk analysis indicates an almost certain probability of occurrence and major to severe impact on the project. Confidence is Low. Low probability of success. A risk response strategy has been articulated but its effectiveness is doubtful. Overall Assessment of the Bidder’s response substantiates a HIGH level of risk</p>	760	N/A

Table 1 – Program Management Services Capability Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
							= 0% of points.		
1.1.2	3.1.1.2	Support Risk - The Integrator may not be successful in keeping effective business relationships with unique partners, sub-contractors and/or parts suppliers and that the continuing availability of critical/sole source support items may not be guaranteed during the in-service support phase of the Project;	R	<p>Bidders should clearly explain how this risk is addressed in their risk management plan and provide their risk response strategy. A risk response plan showing the measures planed to avoid, transfer, mitigate and/or accept the risk to maintain its probability and impact at a low level will be described.</p> <p>Bidders are encouraged to use Chapter 11 of ‘A Guide to the Project Management Body of Knowledge’ (PMBOK® Guide) – Fourth Edition in demonstrating their Risk Management strategy.</p>			<p>The Bidder’s risk analysis clearly indicates an unlikely probability of occurrence and negligible impact (if any) on the project. Confidence is High. High probability of success. A comprehensive risk response strategy has been articulated. Overall Assessment of the Bidder’s response substantiates a LOW level of risk = 100% of points.</p> <p>The Bidder’s risk analysis indicates a likely probability of occurrence and moderate impact on the project. Confidence is Good. Moderate probability of success. A sound risk response strategy has been articulated. Overall Assessment of the Bidder’s response substantiates a MEDIUM level of risk = 50% of points.</p> <p>The Bidder’s risk analysis indicates an almost certain probability of occurrence and major to severe impact on the project. Confidence is Low. Low probability of success. A risk response strategy has been articulated but its effectiveness is doubtful. Overall Assessment of the Bidder’s response substantiates a HIGH level of risk = 0% of points.</p>	760	N/A

Table 1 – Program Management Services Capability Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
1.1.3	3.1.1.3	Programmatic Risk – The Bidder has limited engineering expertise or no experience in weapon system in-service support programs which could negatively affect the service level and response time requested by DND.	R	<p>Bidders should clearly explain how this risk is addressed in their risk management plan and provide their risk response strategy. A risk response plan showing measures planed to avoid, transfer, mitigate and/or accept the risk to maintain its probability and impact at a low level or avoid the risk entirely will be described.</p> <p>Bidders are encouraged to use Chapter 11 of ‘A Guide to the Project Management Body of Knowledge’ (PMBOK® Guide) – Fourth Edition in demonstrating their Risk Management strategy.</p>			<p>The Bidder’s risk analysis clearly indicates an unlikely probability of occurrence and negligible impact (if any) on the project. Confidence is High. High probability of success. A comprehensive risk response strategy has been articulated. Overall Assessment of the Bidder’s response substantiates a LOW level of risk = 100% of points.</p> <p>The Bidder’s risk analysis indicates a likely probability of occurrence and moderate impact on the project. Confidence is Good. Moderate probability of success. A sound risk response strategy has been articulated. Overall Assessment of the Bidder’s response substantiates a MEDIUM level of risk = 50% of points.</p> <p>The Bidder’s risk analysis indicates an almost certain probability of occurrence and major to severe impact on the project. Confidence is Low. Low probability of success. A risk response strategy has been articulated but its effectiveness is doubtful. Overall Assessment of the Bidder’s response substantiates a HIGH level of risk = 0% of points.</p>	783	N/A
1.1.4	Total Part 1 – Risk Profile							2304	70%

Table 1 – Program Management Services Capability Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
Part 2 – Corporate Capabilities									
1.2.1	3.2.1.1	The Bidder should be experienced in playing a leadership role in the management and provision of in-service support programs similar to the ISS-S OWSS Program.	R	The Bidders should provide a description of programs of similar nature completed in the past 10 years. The description should include sufficient details to permit an assessment of its relevance, including but not limited to: the program scope, program budget, range of services offered, expected response time for critical services, capability outcomes, and client satisfaction. The References should include a Company Name, Phone Number, and Point of Contact. DND reserves the right to contact the company or organization identified by the Bidder.			<p>The number of qualifying projects will form the basis for the awarding of points. To be considered a qualifying project, the Bidder’s response must be sufficiently detailed to permit an assessment of its relevance against the requirement. For X Qualifying Projects, the Score is:</p> <p>0 Projects = 0 % 1 Project = 25% 2 Projects = 50% > 2 Projects = 100%</p>	783	N/A
1.2.2	3.2.1.2	The Bidder should propose a project team that is experienced in the management of program(s) of similar scope and value, and be familiar with DND policies and procedures related to Project Management, Quality Assurance, Integrated Logistics Support, Supply Management, Repair and Overhaul, Security Engineering, provision of Technical Investigation and Engineering	R	<p>The Bidder should propose a project team that will be responsible to execute, monitor and control the work in accordance with its proposed PMP. The Bidder should submit a list of Project Team members along with respective resume demonstrating their specific experience on the following basis:</p> <ul style="list-style-type: none"> Management and/or member of a Project Team dedicated to 			<p>The experience demonstrated by the respective project team members resume will be the basis for the awarding of points. To be considered qualified, the resumes must be sufficiently detailed to permit an assessment of its team members experience as follows:</p> <ul style="list-style-type: none"> Managed/supported project (s) similar in scope (up to 20% max); Managed/supported project(s) for military customers (up to 10% 	1521	N/A

Table 1 – Program Management Services Capability Compliance Matrix

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
		Services, and Configuration Management/Data Management		project(s) similar in scope than the ISS; and <ul style="list-style-type: none">The Project Team members are familiar with DND policies and procedures related to Project Management, Quality Assurance, Integrated Logistics Support, Supply Management, Repair and Overhaul, Security Engineering, provision of Technical Investigation and Engineering Services, and Configuration Management/Data.			max); <ul style="list-style-type: none">5 years experience in the last 8 years; fulfilling duties similar to the ones expected to execute in support of ISSP requirements (up to 20% max);Has been working for the bidder for at least two years (up 10% max);Is familiar with the DND policies and procedures related to his/her area of expertise and assignment in support of the ISSP requirement (up to 40% max).		
1.2.3	Total Part 2 – Corporate Capabilities							2304	60%
Part 3 – Program Management Plan (PMP)									
1.3.1	3.3.2	Does the OWSS PMP define the management processes, administrative procedures and organizational structure used to manage the OWSS Contract?	R	IAW the draft PMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2 , DID PM-001.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%	51	N/A
1.3.2	3.3.2	Does the PMP Overview contain, as a minimum, Purpose, Background, Scope and Objectives,	R	IAW the draft PMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2 , DID PM-001.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management.	26	N/A

Deleted: 70

Table 1 – Program Management Services Capability Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
		Assumptions, Constraints and Risks, Deliverables, and Organization Summary?					Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%		
1.3.3	3.3.2	Does the OWSS PMP contain a Program Organizational chart including internal and external organizations pertaining to this Contract, roles and responsibilities, escalating line of communications, detailed résumés with relevant experience for each of the activities managers?	R	IAW the draft PMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2 , DID PM-001.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%	38	N/A
1.3.4	3.3.2	Does the OWSS PMP describe the Management process used for Subcontractor Management including description of relationship and responsibilities?	R	IAW the draft PMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2 , DID PM-001.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%	13	N/A
1.3.5	3.3.2	Does the OWSS PMP describe the Management process for schedule management and control to track and maintain the schedule including, at minimum, tracking of tasks progress to identify slippage,	R	IAW the draft PMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2 , DID PM-001.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60%	26	N/A

Table 1 – Program Management Services Capability Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
		critical path items, schedule changes and schedule impact of new tasks?					Poor = 40% Very Weak = 20% Unacceptable = 0%		
1.3.6	3.3.2	Does the OWSS PMP describe the management process for resource and budget allocation to support the work of the OWSS Contract?	R	IAW the draft PMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2 , DID PM-001.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%	13	N/A
1.3.7	3.3.2	Does the OWSS PMP describe the management process for Progress and Performance reviews for the OWSS Contract?	R	IAW the draft PMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2 , DID PM-001.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%	13	N/A
1.3.8	3.3.2	Does the OWSS PMP describe how the Technical Problem Management Process will be conducted?	R	IAW the draft PMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2 , DID PM-001.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%	26	N/A

Table 1 – Program Management Services Capability Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
1.3.9	3.3.2	Does the OWSS PMP describe how the Quality Management System will be planned, implemented, evaluated, improved and reported to support the OWSS Contract?	R	IAW the draft PMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2 , DID PM-001.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%	13	N/A
1.3.10	3.3.2	Does the OWSS PMP describe how Continuous Improvement will be planned, implemented, evaluated and reported for the OWSS Contract?	R	IAW the draft PMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2 , DID PM-001.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%	26	N/A
1.3.11	3.3.2	Does the OWSS PMP describe how the Contractor owned EIE will support contract data for the OWSS Contract?	R	IAW the draft PMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2 , DID PM-001.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%	13	N/A
1.3.12	Total Part 3 – Program Management Plan (PMP)							256	70%

Table 1 – Program Management Services Capability Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
Part 4 – Configuration Management Plan (CMP)									
1.4.1	3.4.2	Does the Draft CMP describe the Bidder's CM management, recording and traceability processes and procedures, and describe how they will be applied to achieve the requirements specified in MIL-STD-973, paragraph 5.2.1 and in DID CM-101?	R	IAW the Draft OWSS CMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2, DID CM-101.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%	77	N/A
1.4.2	3.4.2	Does the Draft CMP contain a description of how the Bidder will coordinate activities of the OWSS Contract with respect to management and maintenance of configuration and technical data, including hardware and software modifications process?	R	IAW the Draft OWSS CMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2, DID CM-101.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%	26	N/A
1.4.3	3.4.2	Are the organization structure, roles, responsibilities and lines of communication for the CM organization described?	R	IAW the Draft OWSS CMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2, DID CM-101.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%	26	N/A

Table 1 – Program Management Services Capability Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
1.4.4	3.4.2	Is the process to be used for configuration control of CIs and for processing changes to those CIs defined and consistent with the CM requirements in section 4.1.4 of the OWSS SOW?	R	IAW the Draft OWSS CMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2, DID CM-101.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%	51	N/A
1.4.5	3.4.2	Does the CMP describe the mechanisms for transferring CM data generated by the ISS Acquisition Contract into the OWSS CM Program, including digital data, data from multiple/superseded baselines and configurations?	R	IAW the Draft OWSS CMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2, DID CM-101.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%	51	N/A
1.4.6	3.4.2	Does the Draft CMP describe the Bidder's approach for meeting the configuration management technical data requirements through the Contractor Electronic Information Environment (EIE) in accordance with the requirements detailed in the OWSS SOW?	R	IAW the Draft OWSS CMP, completed in the format specified by RFP Volume 3, Annex CC, Appendix 2, DID CM-101.			Use Annex CI, Figure 4 – Scoring Scale Chart for Program Management. Excellent = 100% Good = 80% Average = 60% Poor = 40% Very Weak = 20% Unacceptable = 0%	26	N/A
1.4.7	Total Part 4 – Configuration Management Plan (CMP)							256	70%
1.5	Total Score Table 1 – Program Management Services Capability							5120	N/A

Table 2 – Supply Support Management Services Capability Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
Part 1 – Spare Parts Management Services									
2.1.1	4.1.1.1	The Bidder has a Supply Support Management Service that satisfies Canada’s needs	R	The Bidder should provide a detailed description of the plan it intends to use to ensure a sufficient amount of spares are readily available to respond to Canada’s requests on time including support to the R&O services.			Use Annex CI, Figure 5 – Scoring Scale for Services Process Description. Excellent = 100% Good = 75% Average = 50% Unacceptable = 0%	158	N/A
2.1.2	4.1.1.2	The Bidder has a spare parts provision service that is convenient and allows easy selection and identification of spares	R	The Bidder should describe how it intends to create, set-up and maintain a spare parts catalogue and provide access to Canada to facilitate the selection and procurement of spares.			Use Annex CI, Figure 5 – Scoring Scale for Services Process Description. Excellent = 100% Good = 75% Average = 50% Unacceptable = 0%	158	N/A
2.1.3	4.1.1.3	The Bidder has a spares provision service that is responsive to Canada’s needs	R	The Bidder should describe the plan and supportive processes that it plans to use to handle urgent parts demands and delivery.			Use Annex CI, Figure 5 – Scoring Scale for Services Process Description. Excellent = 100% Good = 75% Average = 50% Unacceptable = 0%	163	N/A
2.1.4		Total Part 1 – Spare Parts Management Services						480	70%

Table 2 – Supply Support Management Services Capability Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
Part 2 – Repair & Overhaul Management Services									
2.2.1	4.2.1.1	The Bidder has the necessary R&O business processes to provide the services requested under this RFP to meet the ISS OWSS requirements	R	The Bidder should detail a plan outlining how the overhaul, repair and testing of the requirements will be met. This plan should clearly indicate the interrelationships between engineering, inspection, reworks, part procurement etc.. that are required to ensure smooth passage of the components through R&O.			Use Annex CI, Figure 5 – Scoring Scale for Services Process Description. Excellent = 100% Good = 75% Average = 50% Unacceptable = 0%	158	N/A
2.2.2	4.2.1.2	The Bidder has the necessary business relationships with other entities to support the successful conduct of the R&O services requested under this RFP to meet the ISS OWSS requirements	R	The Bidder should specify details of any proposed subcontractors or business partners or any plan to carry out R&O and test of any ISS item in other than the Bidder’s premises. The names of the proposed subcontractors or business partners and the products or services to be provided are to be fully identified.			Use Annex CI, Figure 5 – Scoring Scale for Services Process Description. Excellent = 100% Good = 75% Average = 50% Unacceptable = 0%	158	N/A
2.2.3	4.2.1.3	The Bidder has the necessary resources to conduct the R&O services offered	R	The Bidder should provide a detailed description of the facility or proposed facility where R&O will be conducted. The description should include details on the facility (floor area, test cell, equipment & tooling required) and personnel requirements to do the work specified in the RFP.			Use Annex CI, Figure 5 – Scoring Scale for Services Process Description. Excellent = 100% Good = 75% Average = 50% Unacceptable = 0%	163	N/A
2.2.4		Total Part 2 – R&O Management Services						480	70%
2.3		Total Score Table 2 – Supply Support Management Services Capability						960	N/A

Table 3 – Technical Support Management Services Capability Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
3.1	5.1.1	The Bidder is capable of providing training support services to DND on an “if, as and when required” basis.	R	The Bidder should describe the process by which he will manage and be able to provide training support to DND on an “if, as and when required” basis.			Use Annex CI, Figure 5 – Scoring Scale for Services Process Description. Excellent = 100% Good = 75% Average = 50% Unacceptable = 0%	317	N/A
3.2	5.1.2	The Bidder ensures appropriate resources are available to provide technical support management services “if, as and when required” by the TA.	R	The Bidder should describe the process by which he will manage and ensure appropriate resources are available to provide technical support “if, as and when required” by the TA.			Use Annex CI, Figure 5 – Scoring Scale for Services Process Description. Excellent = 100% Good = 75% Average = 50% Unacceptable = 0%	317	N/A
3.3	5.1.3	The Bidder proposes disposal services that meet the spirit and intent of the RFP.	R	The Bidder should describe how his disposal management services comply with the instructions provided under A-LM-007-014/AG-001 and A-LM-184-001/JS-001			Use Annex CI, Figure 5 – Scoring Scale for Services Process Description. Excellent = 100% Good = 75% Average = 50% Unacceptable = 0%	326	N/A
3.4		Total Score Table 3 – Technical Support Management Services						960	70%

Table 4 – Engineering Support Management Services Capability Compliance Matrix									
1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
4.1	6.1.1	The Bidder ensures a smooth transition of the Engineering Program established during the Acquisition Contract to the OWSS Contract.	R	The Bidder should describe how the management of the engineering program established during the acquisition of the ISS will be taken over by the OWSS. Any changes to the process described in the Acquisition contract System Engineering Management Plan must be described in this section.			Use Annex CI, Figure 5 – Scoring Scale for Services Process. Excellent = 100% Good = 75% Average = 50% Unacceptable = 0%	240	N/A
4.2	6.1.2	The system and design engineering support management services is responsive to the requirements of the TA for system engineering investigation support, as well as the conduct of system design reviews if, as and when required.	R	The Bidder should describe how the management services will be responsive to the requirements of the TA for system engineering investigation support, as well as the conduct of system design reviews “if, as and when required”.			Use Annex CI, Figure 5 – Scoring Scale for Services Process. Excellent = 100% Good = 75% Average = 50% Unacceptable = 0%	240	N/A
4.3	6.1.3	The Bidder has the capability of providing logistics engineering management services to the TA on an “if, as and when” required basis.	R	The Bidder should describe the process by which he will manage and be able to provide logistics engineering services to the TA on an “if, as and when required” basis.			Use Annex CI, Figure 5 – Scoring Scale for Services Process. Excellent = 100% Good = 75% Average = 50% Unacceptable = 0%	240	N/A
4.4	6.1.4	The Bidder has the capability of providing technical publications management services to ensure the ISS technical publications	R	The Bidder should describe the process by which he will ensure the ISS Technical Publications will be monitored and maintained up-to-date.			Use Annex CI, Figure 5 – Scoring Scale for Services Process. Excellent = 100%	240	N/A

Table 4 – Engineering Support Management Services Capability Compliance Matrix

1	2	3	4	5	6	7	8	9a	9b
ID	Requirement Reference	Requirements	Requirement Category	Instructions to Bidders	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score	Min Score
		are monitored and maintained up-to-date.					Good = 75% Average = 50% Unacceptable = 0%		
4.5		Total Score Table 4 – Engineering Support Management Services						960	70%

Table 5 – OWSS Management Mandatory Evaluation Criteria Compliance Matrix				
ID	Requirement	RFP Reference	Compliance Matrix Reference	For use by Canada
				Compliant (Yes/No)
5.1	The Bidder must submit a draft OWSS Program Management Plan (PMP)	Volume 1, Annex CH, Para 3.3.1	Volume 1, Annex CI, Appendix 1, Table 1, Part 3	
5.2	The Bidder must complete the Program Management Compliance Matrix	Volume 1, Annex CH, Para 3.1.3; 3.2.2 3.3.2 and 3.4.2	Volume 1, Annex CI, Appendix 1, Table 1, Part 1,2, 3 and 4	
5.3	The Bidder must submit a draft OWSS Configuration Management Plan.	Volume 1, Annex CH, Para 3.4.1	Volume 1, Annex CI, Appendix 1, Table 1, Part 4	
5.4	The Bidder must complete the Spare Parts Management Services Compliance Matrix	Volume 1, Annex CH, Para 4.1.2	Volume 1, Annex CI, Appendix 1, Table 2, Part 1	
5.5	The Bidder must complete the R&O Management Services Compliance Matrix	Volume 1, Annex CH, Para 4.2.2	Volume 1, Annex CI, Appendix 1, Table 2, Part 2	
5.6	The Bidder must complete the Technical Support Management Services Capability Compliance Matrix.	Volume 1, Annex CH, Para 5.2	Volume 1, Annex CI, Appendix 1, Table 3	
5.7	The Bidder must complete the Engineering Support Management Services Capability Compliance Matrix	Volume 1, Annex CH, Para 6.2	Volume 1, Annex CI, Appendix 1, Table 4	
5.8	The Bidder must achieve the Minimum Mandatory Score of 70% out of 2,304 points for the Risk Profile evaluation.	Volume 1, Annex CI, Para 2.5.3	Volume 1, Annex CI, Appendix 1, Table 1, Part 1, ID #1.1.4	
5.9	The Bidder must achieve the Minimum Mandatory Score of 60% out of 2,304 points for the Corporate Capabilities evaluation.	Volume 1, Annex CI, Para 2.6.3	Volume 1, Annex CI, Appendix 1, Table 1, Part 2, ID #1.2.3	Deleted: 70
5.10	The Bidder must achieve the Minimum Mandatory Score of 70% out of 256 points for the Program Management Plan evaluation.	Volume 1, Annex CI, Para 2.7.3	Volume 1, Annex CI, Appendix 1, Table 1, Part 3, ID #1.3.12	
5.11	The Bidder must achieve the Minimum Mandatory Score of 70% out of 256 points for the Configuration Management Plan evaluation.	Volume 1, Annex CI, Para 2.8.3	Volume 1, Annex CI, Appendix 1, Table 1, Part 4, ID #1.4.7	

Table 5 – OWSS Management Mandatory Evaluation Criteria Compliance Matrix				
ID	Requirement	RFP Reference	Compliance Matrix Reference	For use by Canada
				Compliant (Yes/No)
5.12	The Bidder must achieve the Minimum Mandatory Score of 70% out of 480 points for the Spare Parts Management Services evaluation.	Volume 1, Annex CI, Para 3.3	Volume 1, Annex CI, Appendix 1, Table 2, Part 1, ID #2.1.4	
5.13	The Bidder must achieve the Minimum Mandatory Score of 70% out of 480 points for the R&O Management Services evaluation.	Volume 1, Annex CI, Para 3.3	Volume 1, Annex CI, Appendix 1, Table 2, Part 2, ID #2.2.4	
5.14	The Bidder must achieve the Minimum Mandatory Score of 70% out of 960 points for the Technical Support Management Services evaluation.	Volume 1, Annex CI, Para 4.3	Volume 1, Annex CI, Appendix 1, Table 3, Part 2, ID #3.4	
5.15	The Bidder must achieve the Minimum Mandatory Score of 70% out of 960 points for the Engineering Support Management Services evaluation.	Volume 1, Annex CI, Para 5.3	Volume 1, Annex CI, Appendix 1, Table 4, Part 2, ID #4.5	

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ANNEX CJ TO VOLUME 1

ISS Point Rated Management and Technical Overall Scores

This Annex combines the Point Rated Scores from the ISS-A Acquisition Annex CC and Annex CE and the ISS-OWSS Annex CG and Annex CI for the corresponding Technical and Management evaluations.

- The following Table records the Point Rated Scores for the ISS-A Technical Bid from Annex CC.

ISS-A Technical Point Rated Scores			
Compliance Matrix	Reference	Max Score	Total Score
Technical Performance Specification (TPS)	Appendix 1 to Annex CC	58,520	
P (Bid) Evaluation	Appendix 3 to Annex CC	3,880	
Total ISS-A Technical Score		62,400	

- The following Table records the Point Rated Scores for the ISS-A Management Bid from Annex CE.

ISS-A Management Point Rated Scores			
Compliance Matrix	Reference	Max Score	Total Score
Risk Profile	Table 1,app 1, Annex CE	7,040	
Corporate Capabilities	Table 2,app 1, Annex CE	4,928	
Managerial Capabilities	Table 3,app 1, Annex CE	2,112	
Environmental Health and Safety (EHS)	Table 4,app 1, Annex CE	1,760	
Master Project Schedule (MPS) and Work Breakdown Structure (WBS) Management	Table 5,app 1, Annex CE	1,760	
Total ISS-A Management Score		17,600	

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3. The following Table records the Point Rated Scores for the ISS-OWSS Technical Bid from Annex CG.

ISS-OWSS Technical Point Rated Scores			
Compliance Matrix	Reference	Max Score	Total Score
OWSS Technical Performance	Table 1,app 1, Annex CG	3,960	
Life Cycle Costing (LCC)	Table 2,app 1, Annex CG	8,040	
Total ISS-OWSS Technical		12,000	

4. The following Table records the Point Rated Scores for the ISS-OWSS Management Bid from Annex CI.

ISS-OWSS Managerial Point Rated Scores			
Compliance Matrix	Reference	Max Score	Total Score
Program Management Services	Table 1,app 1, Annex CI	5,120	
Supply Support Management Services	Table 2,app 1, Annex CI	960	
Technical Support Management Services	Table 3,app 1, Annex CI	960	
Engineering Support Management Services	Table 4,app 1, Annex CI	960	
Total ISS-OWSS Management		8000	

5. Total Overall Technical and Managerial Point Rated Scores

Overall	Max Score	Total Score
Total ISS-A Technical	62,400	
Total ISS-A Management	17,600	
Total ISS-OWSS Technical	12,000	
Total ISS-OWSS Management	8000	
Maximum Possible Score	100,000	-----
Overall Score Grand Total		

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6. The following Table records the UAPE Score to be used in the Basis of Selection.

Basis of Selection			
Compliance Matrix	Reference	Max Score	Total Score
UAPE Evaluation	Appendix 4 to Annex CC	10,000	
Total UAPE Score		10,000	

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Volume 2Draft003

**REQUEST FOR PROPOSAL
FOR
INTEGRATED SOLDIER SYSTEM PROJECT (ISSP)
IMPLEMENTATION**

VOLUME 2

**RESULTING CONTRACT FOR THE
INTEGRATED SOLDIER SYSTEM ACQUISITION (ISS-A)**

“THIS DOCUMENT CONTAINS A SECURITY REQUIREMENT”
(See article 3.0)

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Appendix 1	Contract Data Requirements List (CDRL);
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PART 7 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract for the acquisition of the Integrated Soldier System (ISS), resulting from the bid solicitation.

1. Requirement

1.1. Statement of work

1.1.1. The Contractor must supply to the Department of National Defence the goods and services described in the Contract in accordance with, and at the prices set out in, the Contract. The Contractor must perform the requirement into two phases respectively called Phase A (Qualification) and Phase B (Production).

1.1.2. With the requirement's Phase A, the Contractor must provide: project management, engineering and support services for the conduct of the ISS Qualification Program, the System Acceptance Test (SAT) including mission level field qualification, the Final Qualification Review, preliminary logistics supportability analysis and development, and Configuration Management leading to the establishment of the Production Baseline to be completed in accordance with contract article 4.1.

1.1.3. After Canada exercises the option to proceed with the Phase B (Production) in accordance with contract article 4.2, the Contractor must provide a firm quantity of ISSs in pre-determined batches totaling one thousand six hundred (1,600) units with accessories, and associated preliminary Integrated Logistics Support (ILS) such as technical documentation, training and initial provisioning of spares.

1.1.4. Upon exercising the option to proceed with the Phase B (Production), and for a period of three (3) years, Canada has the option to purchase up to an additional five thousand twenty four (5,024) ISS-Suites in accordance with contract article 4.3.

1.1.5. Without limiting any of its other obligations under this Contract, the Contractor must:

- a. Perform the Work in accordance with Module C of the contract.
- b. Provide the Industrial and Regional Benefits in accordance with the commitments set out in Module B of the contract.

1.1.6. The Contractor agrees to accept and be bound by Canada's interpretation of the meaning of the specifications.

1.1.7. The ISS-Suite (ISS-S) must be the Contractor's ISS-S P(Bid) used in the User Acceptance Performance Evaluation (UAPE), modified by the Contractor as required and qualified during Phase A in order to demonstrate it meets all of the ISS Performance Specifications requirements and become P(SAT), and successfully accepted after FQR to become P(Prod). While the

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Contractor must implement its final ISS-S solution based on its proposal and ISS-S P(Bid), it is understood that, in the event that the implementation of that Proposal in respect to a particular ISSP requirement does not result in such a requirement being met, the Contractor shall remain responsible for carrying out such alternative modifications to the ISS-S P(Bid) and/or incorporating such alternative equipment, at its own cost, as will be required to meet the ISSP requirement involved.

1.1.8. Despite any other condition of the Contract, the Contractor is only authorized to perform the Work required to complete the requirement Phase A of the Contract at a cost of \$_____ (*NOTE: Canada to insert the amount at contract award*).

1.1.9. An unsuccessful completion of the Contract Qualification Phase may lead to contract termination for default. Therefore Canada reserves the right to award an ISS-A Contract and an ISS-OWSS Contract to the Bidder with the next-ranked bid submitted in response to the original "Request For Proposal for the Integrated Soldier System Project (ISSP) Implementation".

1.2. Work Authorization (WA)

1.2.1. WA Instruments

This Contract contains the requirement for the Department of National Defence (DND) to authorize the Contractor to perform work on an if, as, and when requested basis using the terms and conditions of the Contract. DND will issue different types of work authorizations such as DND626 Task Authorization and Spare Parts Order (SPO) to authorize the work to be performed.

1.2.2. Approval limitation of WAs:

1.2.2.1. Spare Parts Order (SPO) Limit:

DND is not authorized to issue SPO. PWGSC shall approve all SPOs.

1.2.2.2. Task Authorization Limit:

DND may authorize individual Task Authorizations up to a limit of \$125,000.00 CAN, Goods and Services Tax or Harmonized Sales Tax included, inclusive of any revisions. Any task authorization to be issued in excess of that limit must be authorized by the Contracting Authority before issuance. Furthermore, the Contracting Authority shall approve any Task Authorizations where the cost estimate for material is in excess of \$25,000.00 CAN Goods and Services Tax or Harmonized Sales Tax included, inclusive of any revisions.

1.2.3. Work Authorization Process:

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The process to be followed in the issuance of Work Authorizations (WA) is as follows:

- i. The Technical Authority prepares a Statement of Work (SOW) describing the work;
- ii. The DND Requisitioning Authority verifies that the work required is within the scope of the Contract;
- iii. The DND Requisitioning Authority submits the SOW to the Contractor and requests a Task Proposal;
- iv. The Contractor must, within fifteen (15) working days upon receipt of the proposed work, provide a proposal and/or notify the DND Requisitioning Authority of the status of the proposal for the proposed work. Should the fifteen (15) working days period not be sufficient the Contractor must submit the proposal within a time period that is mutually acceptable to DND Requisitioning Authority and the Contractor.
- v. The Contractor reviews, or prepares and submits in writing a proposed SOW, as may be required, which defines the scope of the work, starting and completion dates, phased deliveries of work packages and deliverables and the level of effort (LOE) to complete the work, including details of the labour categories to the DND Requisitioning Authority, using the financial tools available in the Contract. Furthermore the Contractor must, when applicable, provide the impact of that work on the entire project in term of scope, schedule, costs and IRB Commitments. The Contractor will not be paid for providing the quotation or for providing other information required to prepare and issue the WA;
- vi. The DND Requisitioning Authority reviews the LOE quote, negotiate with the Contractor and insert in the WA form the appropriate "Price and terms of payment" as per contract articles 6.1.3 and 6.2.4.
- vii. The DND Requisitioning Authority reviews the LOE quote with the Technical Authority and seeks approval to proceed;
- viii. If the LOE quote is within the DND work approval ceiling, the DND Requisitioning Authority signs the WA form and forward copies to the Contractor and the PWGSC Contracting officer;
- ix. If the quote exceeds DND Requisitioning Authority's work approval ceiling, the WA form will be passed to the PWGSC Contracting officer for review and approval/signature prior to DND releasing it to the Contractor;
- x. Amendments to the WA form require completion of a WA amendment form. The DND Requisitioning Authority approves WA where the amended value is within the threshold established in the Contract article 1.2.2. Any amendment that exceeds the threshold must be passed to the PWGSC Contracting officer for review and approval/signature before the DND Requisitioning Authority releases it to the Contractor.
- xi. The Contractor must not begin work before receiving the approved WA form.

1.2.4. Task Authorization - Department of National Defence

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The administration of the Task Authorization process will be carried out by the Requisitioning Authority. This process includes monitoring, controlling and reporting on expenditures of the contract with task authorizations to the Contracting Authority.

2. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the *Standard Acquisition Clauses and Conditions* Manual issued by Public Works and Government Services Canada (PWGSC). The Manual is available on the PWGSC Website:

<http://sacc.pwgsc.gc.ca/sacc/index-e.jsp>.

2.1. General Conditions

2.1.1. 2030 2011-05-16, General Conditions - Higher Complexity - Goods, apply to and form part of the Contract;

2.1.2. Warranty - Contractor responsible for all costs

Section 22 entitled Warranty of general conditions 2030 is amended by deleting subsections 3 and 4 in its entirety and replacing it with the following:

“3. The Work or any part of the Work found to be defective or non-conforming will be returned to the Contractor's plant for replacement, repair or making good. However, when in the opinion of Canada it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these Costs.

4. The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant pursuant to subsection 3. The Contractor must also pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location directed by Canada.

All other provisions of the warranty section remain in effect.”

2.2. Supplemental General Conditions

2.2.1. 4003:

2.2.1.1. 4003 2010-08-16, Licensed Software, apply to and form part of the Contract.

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2.2.1.2. Section 12 of 4003, Licensed Software, is amended as follows:

DELETE in its entirety: 12 3 (b);

2.2.1.3. Sections 14 and 15 of 4003 Licensed Software, are amended as follows:

DELETE “ninety (90) days”;

INSERT “one (1) year”;

2.2.1.4. Section 16 of 4003, Licensed Software, is amended as follows:

DELETE in its entirety: 16

INSERT in lieu: “16. The Contractor must, within ninety (90) days following the date of the contract amendment exercising the option to proceed with the Phase B (Production), deliver the source code for the BMS, the SEP-S and, any non COTS/MOTS software and documentation that were developed to allow the ISS components to act as an integrated system to an escrow agent approved by Canada, to be held in trust by that agent, for release to Canada upon the occurrence of any of the following events:

- (i) Canada terminates either the Contract or any subsequent support or development arrangement relating to the Software for default;
- (ii) the Contractor or its supplier ceases to do business or ceases to make support or development services in relation to the Software reasonably available to Canada;
- (iii) the Contractor or its supplier becomes bankrupt or insolvent, makes an assignment for the benefit of creditors, or takes the benefit of any statute relating to bankrupt or insolvent debtors;
- (iv) a receiver is appointed for the Contractor or its supplier under a debt instrument, or a receiving order is made against the Contractor or its supplier; or
- (v) an order is made or a resolution passed for the winding up of the Contractor or its supplier.

2. The source code delivered by the Contractor to any escrow agent, must contain a complete description of the operation of that Software in sufficient detail to enable a programmer, experienced

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in the programming language or languages in which the source code is written, to modify all aspects of that software without assistance from the Contractor. The Contractor must ensure that the source code in the possession of the escrow agent is updated from time to time to correspond with the most current version of the object code in the possession of Canada.”

2.2.2. 4006 2010-08-16, Contractor to Own Intellectual Property Rights in Foreground Information, apply to and form part of the Contract.

3. Security Requirement for Canadian supplier

3.1. The Contractor must, at all times during the performance of the Contract, hold a valid Facility Security Clearance at the level of **SECRET**, with approved Document Safeguarding at the **SECRET** level, issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC) as well as Communications-Electronic Security (COMSEC) account at the level of **SECRET**, issued by Information Technology Services Branch (ITSB), PWGSC.

3.2. The Contractor personnel requiring access to **PROTECTED/CLASSIFIED (NON-RESTRICTED)** information, assets or sensitive work site(s) must each hold a valid personnel security screening at the level of **SECRET**, granted or approved by the CISD, PWGSC. Until the security screening of the Contractor personnel required by this Contract has been completed satisfactorily by the CISD, PWGSC, the Contractor personnel **MAY NOT HAVE ACCESS** to **PROTECTED/CLASSIFIED** information or assets, and **MAY NOT ENTER** sites where such information or assets are kept, without an escort.

3.3. The Contractor personnel requiring access to **PROTECTED/CLASSIFIED (RESTRICTED)** information, assets or sensitive work site(s) **must be a citizen of Canada or the United States and EACH** hold a valid personnel security screening at the level of **SECRET**, granted or approved by the CISD, PWGSC. Until the security screening of the Contractor personnel required by this Contract has been completed satisfactorily by the CISD, PWGSC, the Contractor personnel **MAY NOT HAVE ACCESS** to **PROTECTED/CLASSIFIED** information or assets, and **MAY NOT ENTER** sites where such information or assets are kept, without an escort.

3.4. The Contractor personnel requiring access to **NATO UNCLASSIFIED** information or assets do not require to hold a personnel security clearance; however, the Contractor must ensure that the NATO Unclassified information is not releasable to third parties and that the "need to know" principle is applied to personnel accessing this information.

3.5. The Contractor personnel requiring access to **FOREIGN PROTECTED/CLASSIFIED** information, assets or sensitive work site(s) must **EACH** hold a valid personnel security screening at the level of **SECRET**, granted or approved by the CISD, PWGSC. Until the

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security screening of the Contractor personnel required by this Contract has been completed satisfactorily by the CISD, PWGSC, the Contractor personnel **MAY NOT HAVE ACCESS** to **FOREIGN PROTECTED/CLASSIFIED** information or assets, and **MAY NOT ENTER** sites where such information or assets are kept, without an escort.

3.6. The Contractor personnel requiring access to **COMSEC** information/assets **must be a Canadian citizen**, hold a valid security clearance commensurate with the information/assets that will be accessed, have a need-to-know and have undergone a **COMSEC** briefing and signed a **COMSEC** Briefing certificate. Access by foreign nationals or resident aliens must be approved by the Head IT Security Client Services at CSEC on a case-by-case basis.

3.7. Processing of **PROTECTED/CLASSIFIED** information electronically at the Contractor's site is **NOT** permitted under this Contract.

3.8. Subcontracts which contain security requirements are **NOT** to be awarded without the prior written permission of CISD/PWGSC.

3.9. The Contractor must comply with the provisions of the:

- (a) Security Requirements Check List and security guide (if applicable), attached at Annex AC;
- (b) Industrial Security Manual (Latest Edition).

NOTE: Keying material and associated devices bearing (or intended to bear) the caveat, "CRYPTO", are subject to special safeguards at all times, whether: in bulk storage; in custody at user locations; in current use; or awaiting destruction. Keying Material must be stored in a locked, approved security container, in an area protected by security guards or by an intrusion-detection system when left unattended by COMSEC account personnel or authorized users.

4. Term of Contract

4.1. Delivery of ISS Acquisition Contract's Phase A (Qualification)

The complete delivery of the Phase A work must be within 9 months from contract award date. The Phase A order date is the contract award date. Payments are in accordance with contract articles 6.1.1, 6.2.1 and 6.2.2.

4.2. Optional Goods and/or Services (Contract Phase B (Production))

4.2.1. The Contractor grants to Canada the irrevocable option to proceed with the Phase B (Production) and therefore acquire the goods, services or both described at article 4.2.3 of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority by completing this article paragraph

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4.2.2, through a contract amendment. The Contracting Authority may exercise the option following Phase A successful FQR completion.

4.2.2. As aforesaid, on _____, (*NOTE: Canada may insert, following Phase A successful FQR completion, the contract amendment date exercising the option to proceed with the Phase B (Production)*) Canada exercises the option to proceed with the Phase B (Production) and therefore acquire the goods, services or both described at article 4.2.3 of the Contract.

4.2.3. Delivery of ISS Acquisition Contract's Phase B (Production):

4.2.3.1. The complete delivery of the Phase B (Production) work must be within 220 working days from contract amendment date exercising the option to proceed with the Phase B (Production). Payments will be in accordance with contract articles 6.1.1 and 6.2.3.

4.2.3.2. The complete delivery of each Phase B (Production) deliverables described in the table 1 below, column "**Order's Deliverables Name**" should be within the number of working days, as stipulated in that table "**COLUMN A**", from contract amendment date exercising the option to proceed with the Phase B (Production). The Phase B (Production) deliverables are fully detailed in Annex CF "Contract Deliverables List".

TABLE 1 – Phase B (Production) deliverables				
Order Description	Date of Order			COLUMN A
		Order's deliverables Name	Deliverable Details in Annex CF Tables	Delivery Period
ORDER 1:	Phase B go ahead date	P(SAT) ISS-S Batch	Table 1	44
		English Pilot ICT Instructors Training	Table 2.1 series 501,503 & 505	110
		French Pilot ICT Instruc. Training	Table 2.1 series 502,504 & 506	150
		ICT Operator Instruc. course	Table 2.1 series 507	TBD (1)
		ICT Syst. Man. course	Table 2.1 series 508	TBD (1)
		ICT Maint. Instruc. course	Table 2.1 series 509	TBD (1)
		Ini. Training Batch	Table 2.2.1	154
		Operational Stock Batch	Table 2.2.2	176
		Task Force 1 Batch	Table 2.3.2 series 601	176
		Task Force 2 Batch	Table 2.3.2 series 602	220

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NOTE: (1) Canada to determine, after contract award, the time (To Be Determined (TBD)) and the official languages of the courses to be provided;

4.3. Option to purchase

4.3.1. The Contractor hereby grants to Canada an irrevocable option to purchase, for three (3) years from contract amendment date exercising the option to proceed with the Phase B (Production), upon the terms and conditions of this Contract, up to an additional five thousand twenty four (5,024) ISS-Suites as complete system or component by component with accessories up to the maximum quantities stipulated in Appendices 1 and 2 to Annex AB Basis of Payment. This option may be exercised in whole or in multiple purchases provided that the aggregate of all purchases does not exceed the maximum quantities stipulated in Appendices 1 and 2 to Annex AB Basis of Payment. The exercise(s) of this option may only be done by the Contracting Authority through contract amendment(s). The Contractor agrees that it will be paid in accordance with the same conditions and at the prices and/or rates stated in the Contract. Payments are in accordance with contract articles 6.1.1 and 6.2.3. The purchases are on an if, as, and when requested basis and Canada makes no representation that it will exercise any part of this option.

A year is a period from contract amendment date anniversary exercising the option to proceed with the Phase B (Production) to next contract amendment date anniversary exercising the option to proceed with the Phase B (Production) minus 1 day.

4.3.2. The complete delivery of each purchase deliverables described in the table 2 below, column “*Order’s Deliverables Name*” must be within the number of working days, as stipulated in that table “*COLUMN A*”, from date of order (column “*Date of Order*”). The purchase deliverables are fully detailed in Annex CF “Contract Deliverables List”.

TABLE 2 – Purchases				
Order Description	Date of Order			COLUMN A
		Order’s deliverables Name	Deliverable Details in Annex CF Tables	Delivery Period
ORDER x:				

4.4. Working days:

A working day is a day when work is normally done as distinguished from Saturdays, Sundays and legal holidays in Canada. The working day normal business hours are 7.5 hrs a day, exclusive of meal breaks, occurring between 0700 and 1800 hrs from Monday to Friday

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5. Authorities

5.1. Contracting Authority

The Contracting Authority for the Contract is:

Mr. Marc-André Hebert
Supply Team Leader
Public Works and Government Services Canada
Acquisitions Branch
Land Projects & Communication System Support Division
8C2 Place du Portage, Phase III
11 Laurier Street
Gatineau, Québec
K1A 0S5

Telephone: (819) 956-0194
Facsimile: (819) 956-0636
E-mail address: marc-andre.hebert@pwgsc.gc.ca

The Contracting Authority (CA) is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

5.2. Requisitioning Authority or Procurement Authority

The Requisitioning Authority, also called Procurement Authority, for the Contract is:

“

«

The Requisitioning Authority (RA) or Procurement Authority (PA) is responsible for the financial and administrative control of the DND project management for the contract. The terms PA and RA are interchangeable.

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5.3. Project Manager and Technical Authority

The Project Manager and Technical Authority for the Contract is:

“

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The Project Manager is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Manager; however, the Project Manager has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

5.4. Quality Assurance Authority

The Quality Assurance Authority for the Contract is:

“

”

The Quality Assurance Authority is responsible for quality control of all work received under this Contract.

5.5. Industrial and Regional Benefits (IRB) Authority

The Industrial and Regional Benefits (IRB) Authority for the Contract is:

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“

”

The IRB Authority is the person designated by the Minister of Industry to act on the Minister's behalf. The IRB Authority is responsible for evaluating, monitoring and accepting IRBs, and for assessing the Contractor's IRB performance under this Contract.

5.6. Contractor's Representative(s)

The Contractor has appointed Mr./Mrs (Name, Phone & Fax numbers, Internet address)
(NOTE: Bidders to insert as many representatives as required such as Project Manager, Contract Manager, Systems Engineering Manager, ILS Manager, Financial Manager, Etc...) as the only point of contact(s) for all enquiries or issues raised by the Consignees or the Contracting Authority during the execution of the work.

6. Payment

6.1. Basis of Payment

6.1.1. Basis of Payment - Firm Price, Firm Unit Price(s) or Firm Lot Price(s)

In consideration of the Contractor satisfactorily completing its obligations under the Contract, the Contractor will be paid a Firm Price in accordance with the Basis of Payment in Annex AB, for all items identified with the Basis of Payment (BP) code “FP” (See Basis of Payment in Annex AB, column entitled "BP Code") for a cost of \$_____ (NOTE: Canada to insert the Phase A amount at contract award). Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

For the firm price portion of the Work only, Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.1.2. Basis of Payment - Limitation of Expenditure

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The Contractor will be reimbursed for the costs reasonably and properly incurred in the performance of the Work, as determined in accordance with the Basis of Payment in Annex AB for all items identified with the Basis of Payment (BP) code "LE" (See Basis of Payment in Annex AB, column entitled "BP Code") to a limitation of expenditure of \$0.00 (*NOTE: Canada to amend the amount with the contract amendment exercising the option to proceed with the Phase B (Production)*). Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

6.1.3. Basis of Payment for Work Authorizations

The Contractor may submit a "**Firm Price**", a "**Ceiling Price**" or a "**Limitation of Expenditure**" quote to the DND Requisitioning Authority. The Contractor shall be paid in accordance with the Annex AB Basis of payment of this contract. For each of the above cases, the following clauses must be completed and added to the work authorization form.

6.1.3.1. For a "**Firm Price**" quote:

SACC Manual clause C0207C 2011-05-16, Basis of Payment - Firm Price or Firm Lot Price; and
SACC Manual clause C6000C 2011-05-16, Limitation of Price;

6.1.3.2. For a "**Ceiling Price**" quote:

SACC Manual clause C1200C 2008-05-12, Basis of Payment - Ceiling Price; and
SACC Manual clause C6000C 2011-05-16, Limitation of Price;

6.1.3.3. For a "**Limitation of Expenditure**" quote:

SACC Manual clause C0206C 2011-05-16, Basis of Payment - Limitation of Expenditure; and
SACC Manual clause C6001C 2011-05-16, Limitation of Expenditure;

6.2. Method of Payment

6.2.1. Method of Payment - Milestone payments (Applicable to item 5.0 to PART 1 to Annex AB Basis of Payment)

6.2.1.1. Canada will make milestone payments in accordance with the Schedule of Milestones detailed in the Contract and the payment provisions of the Contract, up to 85 percent of the amount claimed and approved by Canada if:

- (a) an accurate and complete claim for payment using form PWGSC- TPSGC 1111, Claim for Progress Payment, and any other document required by the

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Contract have been submitted in accordance with the invoicing instructions provided in the Contract;

(b) the total amount for all milestone payments paid by Canada does not exceed 85 percent of the total amount to be paid under the Contract;

(c) all the certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives;

(d) all work associated with the milestone and as applicable any deliverable required have been completed and accepted by Canada.

6.2.1.2. The balance of the amount payable will be paid in accordance with the payment provisions of the Contract upon completion and delivery of all Work required under the Contract if the Work has been accepted by Canada and a final claim for the payment is submitted.

6.2.1.3. Schedule of Milestones

The schedule of milestones for which payments will be made in accordance with the Contract is as shown in column D opposite to items 5.1 to 5.3 to PART 1 to Annex AB Basis of Payment.

6.2.2. Multiple Payments (Applicable to PART 1 to Annex AB Basis of Payment except item 5.0)

Canada will pay the Contractor upon completion and delivery of units in accordance with the payment provisions of the Contract for cost incurred in the performance of the Work, up to 85 percent of the amount claimed and approved by Canada if:

(a) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;

(b) the total amount for payments paid by Canada does not exceed 85 percent of the total amount to be paid under the Contract;

(c) all such documents have been verified by Canada;

(d) the Work delivered has been accepted by Canada.

6.2.3. Multiple Payments (Applicable to PARTS 2 and 3 to Annex AB Basis of Payment)

Canada will pay the Contractor upon completion and delivery of batches/units in accordance with the payment provisions of the Contract if:

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(a) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;

(b) in the case where batches are being delivered (See contract article 4.2.3.2), all work associated with a batch have been completed and accepted by Canada.

(c) all such documents have been verified by Canada;

(d) the Work delivered has been accepted by Canada.

6.2.4. Method of Payment for Work Authorizations

The Contractor may submit a "**Firm Price**", a "**Ceiling Price**" or a "**Limitation of Expenditure**" quote to the DND Requisitioning Authority. The Contractor shall be paid in accordance with the Annex AB Basis of payment of this contract. For each of the above cases, the following clauses must be completed, when applicable, and added to the work authorization form.

6.2.4.1. For a "**Firm Price**" quote, some of the following clauses may apply:

SACC Manual clause H1000C 2008-05-12, Single Payment;

OR

SACC Manual clause H3010C 2010-01-11, Milestone Payments; and

SACC Manual clause H4012C 2010-01-11, Schedule of Milestones;

6.2.4.2. For a "**Ceiling Price**" or a "**Limitation of Expenditure**" quote, some of the following clauses may apply:

SACC Manual clause H1000C 2008-05-12, Single Payment;

OR

SACC Manual clause H1003C 2010-01-11, Progress Payments;

6.3. Exchange Rate

6.3.1. Exchange Rate/Payment on Delivery

6.3.1.1. The price in Canadian currency includes the foreign currency component in respect of goods, services or both originating outside Canada, as detailed in Appendices 3 and 4 Claim for Exchange Rate Adjustments to Annex "AB" Basis of Payment.

6.3.1.2. The price must be adjusted to reflect the exchange rate in effect and applied by Canada Border Services Agency (CBSA) on the date of importation, but only in respect of the foreign currency component detailed in the above form.

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6.3.1.3. No price adjustment directly resulting from the application of the provisions contained in this clause will be applied for increases or decreases in the exchange rate within a variation of: plus or minus 2 percent of the exchange rate(s) mentioned above; or plus or minus \$100 of the total cumulative amount claimed for exchange rate adjustment under the Contract.

6.3.1.4. On each invoice or claim for payment submitted under the Contract, the Contractor must indicate the exchange rate adjustment amount (either upward, downward or no change) as a separate item. In addition, the invoice must be accompanied by a copy of CBSA Form B3-3, Canada Customs Coding Form, for the imported goods, services or both.

6.3.1.5. Canada will have the right to audit any revision to costs and prices under this clause.

6.3.2. Exchange Rate/Milestone payment

6.3.2.1. The price in Canadian currency includes the foreign currency component in respect of goods, services or both originating outside Canada, as detailed in Appendix 3 Claim for Exchange Rate Adjustments to Annex "AB" Basis of Payment. In the event that one or more of the milestones involve a foreign currency component that becomes due and payable on that particular milestone, a separate form PWGSC- TPSGC 9411 must accompany the invoice for each applicable milestone.

6.3.2.2. When a milestone payable includes the importation of goods, services or both into Canada, the exchange rate used to calculate the adjustment will be the rate applied by Canada Border Services Agency (CBSA) on the date of importation. For a milestone that does not involve the importation of goods, services or both, but still includes a foreign currency component, the exchange rate used to calculate the adjustment will be the Bank of Canada exchange rate in effect at noon, on the date when the milestone became due and payable.

6.3.2.3. No price adjustment directly resulting from the application of the provisions contained in this clause will be applied for increases or decreases in the exchange rate within a variation of: plus or minus 2 percent of the exchange rate(s) mentioned above; or plus or minus \$100 of the total cumulative amount claimed for exchange rate adjustment under the Contract.

6.3.2.4. On each invoice or claim for milestone payment submitted under the Contract, the Contractor must indicate the exchange rate adjustment amount (either upward, downward or no change) as a separate item. In the event of delivery, the invoice or claim for milestone payment must be accompanied by a copy of CBSA form B3-3, Canada Customs Coding Form. When the goods, services or both have not been imported, the

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Contractor must provide evidence, satisfactory to Canada, that the amount claimed is due and payable in foreign currency by the Contractor.

6.3.2.5. Canada will have the right to audit any revision to costs and prices under this clause.

6.4. Limitation of Expenditure

6.4.1. Canada's total liability to the Contractor under the Contract must not exceed \$_____ (*NOTE: Canada to insert the Phase A amount at contract award*). Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

6.4.2. No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not perform any work or provide any service that would result in Canada's total liability being exceeded before obtaining the written approval of the Contracting Authority. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:

- (a) When it is 75 percent committed, or
- (b) Four (4) months before the contract expiry date, or
- (c) As soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work, whichever comes first.

6.4.3. If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

6.5. SACC Manual Clauses

6.5.1. General:

SACC Manual clause B9031C 2011-05-16, Canada's Obligation – Portion of the Work – Task Authorizations;
SACC Manual clause A9117C 2007-11-30, T1204 - Direct Request by Customer Department;
SACC Manual clause H4500C 2010-01-11, Lien - Section 427 of the Bank Act (Canadian-based suppliers);

6.5.2. Duty and tax:

Foreign-based contractor:

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SACC Manual clause C2611C 2007-11-30, Customs Duties - Contractor
Importer; and
SACC Manual clause C2000C 2007-11-30, Taxes - Foreign-based Contractor;
and

6.5.3. Cost Submission:

SACC Manual clause C0305C 2008-05-12, Cost Submission

6.5.4. Audit:

SACC Manual clause C0705C 2010-01-11, Discretionary Audit

6.5.5. Time Verification:

SACC Manual clause C0710C 2007-11-30, Time and Contract Price Verification

6.6. Economic Price Adjustment (Not Applicable to phase A)

The firm prices applicable for a coming year will be calculated during the last month of the preceding year for which the Contract had firm prices and will be the firm prices from that preceding year adjusted on account of fluctuations in the Canadian economy over the most recent consecutive 12 months period for which economic indicators are available. The adjusted Firm Price(s) for the coming year shall remain fixed for that period except for the condition at paragraph 6.6.6. A year is a period from contract amendment date anniversary exercising the option to proceed with the Phase B (Production) to next contract amendment date anniversary exercising the option to proceed with the Phase B (Production) minus 1 day. Economic price adjustments will be done as per the following.

6.6.1. Firm Hourly Rates (FHR):

The economic indicator that must be used to account for the actual fluctuations in the economy is the Canadian Consumer Price Index (CPI). For purposes of this article, the most recent Statistics Canada monthly Catalogue "62-001-X" CPI will be used. The relevant CPI shall be from the Statistical Tables, Table 1, namely "The Consumer Price Index, major components and special aggregates, Canada, not seasonally adjusted". The CPI for "All Items (2002=100)" shall be used under column "Percentage change (month z) 201y from (month z) 201x". The indexation is calculated as follows:

- a) Percentage change = "the CPI Percentage change (month z) 201y from (month z) 201x" + 1%;
- b) FHR(s) applicable for the coming 12-month period = The FHR(s) for the preceding 12-month period of the contract multiplied by '(1+ "Percentage change")';

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- c) FHR(s) applicable for the coming 12-month period will be rounded up to 2 decimals (Example: \$2.571 or \$2.579 will be rounded up to \$2.58);

6.6.2. Firm Price, Firm Unit Price(s) or Firm Lot Price(s):

The prices for a coming year shall not exceed the lesser of:

a) Price indexation:

The economic indicator that must be used to account for the actual fluctuations in the economy is the Canadian Consumer Price Index (CPI). For purposes of this article, the most recent Statistics Canada monthly Catalogue "62-001-X" CPI will be used. The relevant CPI shall be from the Statistical Tables, Table 1, namely "The Consumer Price Index, major components and special aggregates, Canada, not seasonally adjusted". The CPI for "All Items (2002=100)" shall be used under column "Percentage change (month z) 201y from (month z) 201x". The indexation is calculated as follows:

- i) Percentage change = "the CPI Percentage change (month z) 201y from (month z) 201x";
- ii) Firm Price (s) (FP) applicable for the coming 12-month period = The FP(s) for the preceding 12-month period of the contract multiplied by '(1+ "Percentage change")'; or
- iii) FP(s) applicable for the coming 12-month period will be rounded up to 2 decimals (Example: \$2.571 or \$2.579 will be rounded up to \$2.58);

or

- b) the Contractor current Commercial Published Price List (CPPL), less discount (s) for the year in question;

6.6.3. Mark-ups:

There will be no adjustments made to the firm mark-ups contained in the Annex AB Basis of payment.

6.6.4. Economic price adjustments (either upwards or downwards) shall be limited to a maximum of 5% of the previous year's price(s). In the event the change in the chosen index is negative, the price(s) in effect will be adjusted downward accordingly.

6.6.5. If the CPI referred to in articles 6.6.1 and 6.6.2 is discontinued, or if the basis for reporting the index is changed from that in existence on or after the award date of the Contract, the Minister shall immediately thereafter establish replacement indices, or formulate adjustments, consistent with the intent of those set forth in these articles.

6.6.6. Should the Contractor publish or publicly announce a price decrease, or has discount on quantities, it shall provide the benefit of the decrease to Canada.

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6.7. Price negotiation:

Under some circumstances, firm prices may not be readily available or items may be added in the Contract basis of payment on an on going basis for the purchase of some Goods and Services. A review of the Contractor proposed pricing will be required by Canada. Detailed supporting data may be requested to validate the prices and other charges proposed. Cost and profit negotiations with the Contractor will be in accordance with Canadian Government policy.

6.8. Definitions of “Actual Cost”:

6.8.1. For Contractor Manufactured Parts, "actual cost" is the Direct Material, Material Handling, Direct Manufacturing Labour and Direct Manufacturing Labour Overhead, calculated in accordance with Contract Cost Principle 1031-2; Exclusive of G&A and Profit.

6.8.2. For Contractor Acquired Parts, "actual cost" is the laid down cost incurred by the supplier to acquire a specific product for resale to Canada. This includes the invoiced Cost (less trade discounts) plus Freight In, Customs and Duties; Exclusive of G&A, O/H(s), Handling and Profit.

7. Inspection, Shipping, Delivery and Acceptance

7.1. Shipping Instructions

7.1.1. The DND TA is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, deliverable item, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

Inspection is to be performed at the Contractor facility prior to shipment to validate labeling, packaging, palletizing and accordance with all DID's/CDRL's. Receiving is to be conducted as per standard Depot policies and procedures upon final receipt at destination.

The delivery destination for all ISSP reports, deliverable items, documents, goods and all services is to be in accordance with Annex CF.

7.1.2. - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and delivered Delivered Duty Paid (DDP) *at the places of destination stipulated in the Annex CF* Incoterms 2000 for shipments from a commercial contractor, customs duties included except as per the condition at article 6.5.2. SACC manual clause C2611C .

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7.1.3. Transportation Costs

The Contractor must ship the goods prepaid via (*NOTE: Canada to insert the method of transportation at contract award, it can be the Contractor's recommended method of shipment or the PWGSC Traffic Management Directorate, Services and Specialized Acquisitions Management Sector recommended method of shipment*) including all delivery charges to **“at the places of destination stipulated in the Annex CF”**. Prepaid transportation costs must be shown as a separate item on the invoice, supported by a certified copy of the prepaid transportation bill of lading.

7.2. Quality Assurance:

Canadian-based Contractor:

SACC Manual clause D5510C 2011-05-16, Quality Assurance Authority (DND) - Canadian-based Contractor; and
SACC Manual clause D5606C 2007-11-30, Release Documents (DND) - Canadian-based Contractor.

OR

Foreign-based and United States Contractor:

SACC Manual clause D5515C 2010-01-11, Quality Assurance Authority (DND) - Foreign-based and United States Contractor; and
SACC Manual clause D5604C 2008-12-12, Release Documents (DND) - Foreign-based Contractor; or
SACC Manual clause D5605C 2010-01-11, Release Documents (DND) - United States-based Contractor.

AND

SACC Manual clause D5540C 2010-08-16, ISO 9001:2008 Quality Management Systems - Requirements (QAC Q)
SACC Manual clause D5505C 2007-11-30, Quality Assurance Document
SACC Manual clause D5545C 2010-08-16, ISO 9001:2008 - Quality Management Systems - Requirements (QAC C)

7.3. Release Documents – Distribution

Release documents prepared by the Contractor shall be distributed as follows:

- (a) Copy 1: mail to consignee marked: "Attention: Receipts Officer";
- (b) Copies 2 and 3: with shipment (in a waterproof envelope) to the consignee;
- (c) Copy 4: to the Contracting Authority;

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(d) Copy 5: to:

National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A OK2
Attention: DLR 8-4-2-3

(e) Copy 6: to the Quality Assurance Representative;

(f) Copy 7: to the Contractor;

(g) Copy 8: all non-Canadian Contractors to:

DQA/Contract Administration
National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A OK2
E-mail: ContractAdmin.DQA@forces.gc.ca.

8. Invoicing Instructions - Progress Payment Claim

8.1. The Contractor must submit a claim for payment using form PWGSC-TPSGC 1111, Claim for Progress Payment.

Each claim must show:

- (a) all information required on form PWGSC-TPSGC 1111;
- (b) all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;
- (c) a list of all expenses;
- (d) expenditures plus pro-rated profit or fee;
- (e) the description and value of the milestone claimed as detailed in the Contract.

Each claim must be supported by:

- (a) a copy of time sheets to support the time claimed;
- (b) a copy of the invoices, receipts, vouchers for all direct expenses, travel and living expenses;
- (c) a copy of the design change or additional work form;
- (d) a copy of the form PWGSC-TPSGC 9411, Claim for Exchange Rate Adjustments;

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8.2. The Goods and Services Tax or Harmonized Sales Tax (GST/HST), as applicable, must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no GST/HST payable as it was claimed and payable under the previous claims for progress payments.

8.3. The Contractor must prepare and certify one original and two (2) copies of the claim on form PWGSC-TPSGC 1111, and forward it to the Project Manager identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.

The Project Manager will then forward the original and two (2) copies of the claim to the Contracting Authority for certification and onward submission to the Payment Office for the remaining certification and payment action.

8.4. The Contractor must not submit claims until all work identified in the claim is completed.

9. Certifications

9.1. Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the entire contract period. If the Contractor does not comply with any certification or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

10. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____. *(NOTE: Canada to insert the province at contract award, as specified by the Bidder under Request for Proposal (RFP) article 2.4 to Volume 1)*

11. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) Module A;
- (c) the supplemental general conditions 4003 (2010-08-16), Licensed Software as amended in article 2.2;

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- (d) the supplemental general conditions 4006 (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information;
- (e) the general conditions 2030 (2011-05-16), General Conditions - Higher Complexity – Goods as amended in article 2.1;
- (f) Module B;
- (g) Module C;
- (h) the signed Task Authorizations (including all of their annexes, if any);
- (i) the Contractor's bid Sections I, II, III, IV and V dated _____ (*NOTE: Canada to insert date of bid at contract award*);

12. Defence Contract

SACC Manual clause A9006C 2008-05-12 Defence Contract
SACC Manual clause C2801C 2011-05-16 Priority Rating - Canadian-based Contractors
SACC Manual clause C2800C 2011-05-16 Priority Rating

13. Foreign Nationals

Canadian Contractor:

SACC Manual clause A2000C 2006-06-16, Foreign Nationals (Canadian Contractor)

OR

Foreign Contractor:

SACC Manual clause A2001C 2006-06-16, Foreign Nationals (Foreign Contractor)

14. Site Regulations

SACC Manual clause A9068C 2010-01-11 Site Regulations

15. Electrical Equipment

SACC Manual clause B1501C 2006-06-16, Electrical Equipment

16. Excess Goods

SACC Manual clause B7500C 2006-06-16 Excess Goods

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17. Controlled Goods Program

SACC Manual clause A9131C 2011-05-16, Controlled Goods Program

SACC Manual clause B4060C 2011-05-16, Controlled Goods

18. Insurance Requirements

The Contractor must comply with the insurance requirements specified in Annex AA. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer licensed to carry out business in Canada. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

19. Government property and services

19.1. Government Property

19.1.1. Title to Government Property must remain vested in Canada at all times and the Contractor must not lien, charge or encumber, nor cause to be lien, charged or encumbered, any Government Property in its possession or control.

19.1.2. The Contractor must pack and deliver such items in accordance with suitable commercial practice to the destination set out in delivery instructions provided to the Contractor by the Contracting Authority.

19.1.3. Annual inventory and utilization reviews of Government Property may be conducted at the discretion of the Contracting Authority, and the Contractor must account for them as may be required.

19.1.4. Canada agrees that all Government Property furnished to the Contractor hereunder shall be accurate and fit, suitable and sufficient for the purposes of this Contract. The Contractor shall

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notify the Contracting Authority, within thirty (30) days, after the Contractor becomes aware of any deficiency, non-conformance malfunction or inaccuracy in any Government Property. The Contracting Authority and the Contractor will jointly determine corrective measures to be taken by either party, and the consequences, if any, to the Contract Delivery Date and the Contract Price.

19.1.5. In order for Canada to retransfer Government Property (GFI/GFE) subject to ITAR or other Nations export controls, Canada will arrange for and maintain the required retransfer approval or applicable licenses.

19.2. Government Furnished Information (GFI)

19.2.1. The Canada Reference Documents (Data) identified in Annex CE Sections 1.1 to 1.4 are available from the Contracting Authority on request.

19.2.2. Canada's right, title and interest to GFI must remain vested always in Canada and the Contractor must maintain it free and clear of all claims, liens, charges and encumbrances. .

19.2.3. If, during the course of this Contract, the Contractor identifies additional requirements for information available to Canada, the Contractor may submit requests for such information to the Contracting Authority. The Contracting Authority will determine and advise the Contractor whether, and the terms upon which, such information can be provided. Canada will endeavour to provide to the Contractor such information at the times and places and upon the other terms agreed.

19.2.4. Prior to receiving GFI, an executed original copy of the Non-Disclosure Agreement (NDA) attached as Annex AD must be submitted to the Contracting Authority (See article 5.1) in writing, either by e-mail or letter, and shall include the mailing address to which the Data shall be sent.

19.3. Government Furnished Equipment (GFE)

19.3.1. GFE will be provided as specified in all tables found in Appendix 3 to Annex CA.

19.3.2. Government Furnished Equipment (GFE) will be supplied to the Contractor under a Loan Agreement (Annex CD), to carry out the Work.

19.3.3. If during the course of this Contract, the Contractor identifies additional equipment required for the purposes of the Contract, the Contractor will formally place a request to Canada. Canada will determine and advise the Contractor whether such equipment can be provided and, if so, the terms of its loan. If such loans are agreed, Canada will endeavour to deliver to the Contractor such equipment at the times and places and upon the other terms agreed.

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19.3.4. As required under ITAR, if a Technical Assistance Agreement(s) (TAA), and/or Export License or similar document is required for the performance of the ISSP work the Contractor must ensure that applicable documents be valid for the duration of the Contract.

19.4. Return of GFI and GFE

19.4.1. The Contractor must return all GFI and GFE provided by Canada during the course of the Contract no later than 6 months before completion of the Contract, or earlier if so requested by the Contracting Authority.

20. Consultants and Other Contractors

20.1. The Minister may enter into separate contracts with consultants and other contractors to assist Canada during the performance of this Contract. Upon Notice from the Minister, the Contractor must provide these consultants and other contractors with access to the Work, to the Contractor's employees and to all necessary things and information related to the Work in order to enable these consultants and other contractors to carry out their contractual obligations, in the same manner as the Contractor is required to provide to any authorized representative of the Minister. These consultants and other contractors while on the Contractor's or any of its Subcontractor's premises, must at all times be subject to the rules and regulations in force on these premises, including all required licenses, with respect to the conduct of employees or visitors. The Minister, at the reasonable request of the Contractor, will have removed from these premises any of these consultants and other contractors who have breached such rules and regulations, or whose conduct does not conform to that expected of and practiced by the Contractor's employees or visitors.

20.2. As a condition of such access, the Minister will require such consultant or other contractor to the Minister to execute a confidentiality agreement with the Contractor or lower tier subcontractor concerned, in the form that may be reasonably be required by the Contractor.

21. Quality Assurance

21.1. Quality Assurance

21.1.1. All work subject to Government Quality Assurance at the Contractor's facility or that of the subcontractor(s) and at the installation site by the:

Director of Quality Assurance
National Defence Headquarters
Major-General George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2

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Email: ContractAdmin.DQA@forces.gc.ca

21.1.2. The Design Change, Deviation and Waiver Procedure as defined in National Defence Standard D-02-006-008/SG-001 apply to the Contract. A copy of the standard can be obtained from the nearest NDQAR office.

21.1.3. The Contractor is responsible for performing, or having performed, all inspections and tests necessary to substantiate that the material or services provided conform to the requirements of the Contract.

21.1.4. The Contractor must provide, at no additional cost, all applicable test data, all technical data, test pieces and samples as may be reasonably be required by the QAR to verify conformity to the requirements of the Contract. The Contractor must forward at its expense such technical data, test data, test pieces and samples to such location as the QAR may direct.

21.1.5. Quality control, inspection and test records that substantiate conformity to the specified requirements, including records of corrective actions, must be retained by the Contractor for three (3) years from the date of completion or termination of the Contract and must be made available to the QAR upon request.

22. Not Applicable

23. Third Party Professional Support Services

23.1. Canada intends to enter into contract with a third party(ies), the Professional Support Services (PSS) contractor(s) , for the provision of services in support of the DND ISSP Project Office. The Contractor shall facilitate the performance of the PSS contractor(s). The terms of communication will be as follows:

- 1) the PSS contractor reports to, receives direction from and provides recommendations to only the DND Technical Authority;
- 2) the Contractor shall designate a point of contact for the PSS contractor personnel, and shall notify Canada in writing of any change; and
- 3) the PSS contractor shall not be required to furnish the Contractor with work plans or schedules, or with any other documentation or information.

23.2. Contractor shall make available to the PSS Contractor both the use of temporary workspace for a maximum of three (3) people, and access to Project working materials such as documentation, software and schedules, as are normally available to the Contractor's Quality Assurance personnel.

23.3. Canada will ensure that the PSS personnel possess the necessary security clearances.

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23.4. The PSS contractor shall be required to handle the Contractor's material in the following manner:

- 1) The PSS contractor shall not remove any Contractor materials from the Contractor's site unless authorized by the Contractor's contact person in writing.
- 2) The PSS contractor shall treat all Contractor information, data and materials as "company confidential". In this context, "company confidential" means the PSS personnel shall not divulge information to anyone other than Contractor personnel and representatives of Canada who have a "need to know" for the sole purpose of allowing the PSS contractor to perform its PSS activities.

24. Deliverable Substitutions & Alternatives

24.1. The Contractor may propose a substitution or alternative for an existing product listed in the Contract, provided the proposed substitute or alternative meets or exceeds the specification(s) of the existing product and the price for the substitute or alternative product does not exceed:

- (a) the firm price (or ceiling price, if applicable) for the product originally offered in the Contractor's bid that resulted in the award of the Contract;
- (b) the current published list price of the substitute product, minus any applicable Government discount; or
- (c) the price at which the substitute product is generally available for purchase,

whichever is the lowest.

24.2. The proposed substitution/alternative may be subject to benchmark evaluation and the Contractor must pay for all costs associated with the benchmark evaluation (e.g., transportation, benchmark fee, etc.).

24.3. Substitute or alternative items must not be shipped until formally authorized by the Contracting Authority after the Technical Authority determines the substitution or alternative is acceptable. Whether or not to accept or reject a proposed substitution or alternative, for any remaining units to be delivered under the contract, is entirely within the discretion of Canada. If Canada does not accept a proposed substitution or alternative, the Contractor must continue to deliver the original product. If accepted, the substitution will be documented for the administrative purposes of Canada by a contract amendment, by removing the existing product and including the substitution instead. If accepted, the addition of any alternative product will be documented for the administrative purposes of Canada by a contract amendment, by adding the alternative as a product under the Contract. Once an alternative product has been included in the Contract, Canada may purchase either product, at its option.

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24.4. The ability to propose a substitution or alternative for any given product does not relieve the Contractor of its obligation to make delivery of the existing product when ordered within the period set out in the Contract, regardless of whether or when the proposed substitution is approved.

25. Not Applicable

26. Licensed Software

26.1. With respect to the provisions of Supplemental General Conditions 4003:

Language of Licensed Software (4003 2.5)	The Licensed Software must be delivered as follows: <ul style="list-style-type: none"> ISS-S Battle Management System (BMS) in English and French; ISS-S Configuration Application Software in English and French; ISS-S Battle Management System (BMS) for the CF31 laptop PC in English and French; and System Executive Planning Suite (SEP-S) for the CF31 laptop PC in English only.
Type of License being Granted (4003 04, 05, 06)	Device License.
Media on which Licensed Software must be Delivered (4003 10)	Each BMS and SEP-S, for the CF31 laptop PC, is to be provided to the Department of National Defence on CD-ROM/DVD.
Term of License (4003 11)	Perpetual license as already provided under 4003
Source Code Escrow Required (4003 16)	Yes
Canada's Responsibilities	Canada will be responsible for the installation on CF31 laptop PC of all BMS and SEP-S Software.

27. Safeguarding Electronic Media

27.1. Before using electronic media on Canada's equipment or sending them to Canada, the Contractor must use a regularly updated product to scan electronically all electronic media used to perform the Work for computer viruses and other coding intended to cause malfunctions. The Contractor must notify Canada if any electronic media used for the Work are found to contain computer viruses or other coding intended to cause malfunctions.

27.2. If magnetically recorded information or documentation is damaged or lost while in the Contractor's care or at any time before it is delivered to Canada in accordance with the Contract, including accidental erasure, the Contractor must immediately replace it at its own expense.

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28. Access to Canada's Property and Facilities

Canada's property, facilities, equipment, documentation, and personnel are not automatically available to the Contractor. If the Contractor would like access to any of these, it is responsible for making a request to the Technical Authority. Unless expressly stated in the Contract, Canada has no obligation to provide any of these to the Contractor.

29. Accommodation

The Contractor must provide for the representatives of Canada such office space, office facilities, telephone service, and suitable sanitary and washing facilities as they may require from time to time at the Contractor's facilities.

30. Canadian Disruptive Pattern (CADPAT™)

30.1. CADPAT™ patterns and technical data are protected by Canadian copyright laws and are patented and copyrighted to Her Majesty the Queen in right of Canada for exclusive use by the Department of National Defence of Canada (DND).

30.2. The Contractor must only purchase CADPAT™ fabrics in a quantity sufficient to fulfill the contract requirements. The use of CADPAT™ fabrics outside of a DND contract may be subject to legal action.

30.3. Any goods made by the Contractor incorporating the CADPAT pattern and colours must be for the sole end use of DND. The Contractor must not manufacture, sell or offer for sale goods incorporating the CADPAT pattern and colours to any person or entity other than DND. The Contractor must dispose of any second quality goods produced, excess raw material or manufacturing leftover, incorporating the CADPAT pattern and colours, in accordance with the following:

- Trimmings – these should be reduced to rags;
- Left-over material (partial bolts of unused CADPAT) – the owner of the material can attempt to secure a licensing agreement from DND DSSPM in order to use the surplus material in the manufacture of other goods, attempt to sell this material back to the OEM or reduce the material to rags;
- “Seconds” of vests culled from regular production due to quality concerns – these should be destroyed in accordance with Canadian Forces Supply Manual A-LM-007-014/AG-001, Volume 3, Chapter 10, Annex D, Appendix 13 – Clothing.

30.4. CADPAT™ fabrics can only be provided to garment or equipment manufacturers who have contracts with the Crown for approved DND military equipment, clothing or projects. In

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order to obtain first quality CADPAT™ from CADPAT™ fabric manufacturers, an end item manufacturers must provide the CADPAT™ fabric manufacturers with proof that he has been awarded a contract by Public Works and Government Services Canada (PWGSC) for the provision of CADPAT™ goods to DND. CADPAT™ Fabric manufacturers are permitted to provide sample quantities of CADPAT™ fabrics to end item manufacturers for the purposes of bidding on DND contracts.

30.5. The Contractor must ensure that any subcontractors requiring goods incorporating the CADPAT pattern and colours for the execution of the work are bound by the conditions of this article.

31. Not Applicable

32. Dangerous Goods/Hazardous Products

32.1 SACC Manual clause D3015C 2007-11-30, Dangerous Goods/Hazardous Products

32.2 Canada Labour Code, Part II dictates that the least hazardous materials should be used at the workplace. Therefore, the Contractor is to strive to use the least hazardous product that meets the requisite performance requirements. The Contractor is required to include within the Environmental, Health and Safety Impact Report (EHSIR) Material Safety Data Sheets (MSDS) for all products/materials, which are used in the operation and maintenance of the Work, that fall under the Hazardous Products Act, R.S.C. 1985m c. H-3 and regulation(s) thereunder in accordance with the said Act and regulation(s).

33.0 Hazardous Waste Disposal

SACC Manual clause A9016C 2011-05-16, Hazardous Waste Disposal

34. Environmental Health and Safety

34.1. General

34.1.1. New or amended support documentation, such as Canadian Forces Technical Orders (CFTO's) shall incorporate appropriate EHS warnings and instructions in direct relation to the EHS risks presented in the contents.

34.1.2. The Contractor shall comply with Department of National Defence (DND) policies, orders, directives, instructions and best practices when accessing DND owned or controlled lands, buildings or equipment.

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34.2. Compliance

34.2.1. The Contractor shall comply in all respects with Environmental, Health and Safety legislation, such as the Canadian Environmental Protection Act, Canadian Environmental Assessment Act, Hazardous Products Act, Transportation of Dangerous Goods Act, Canada Labour Code, and their regulations, in force in relation to the provision of Services. Where the provisions of any such legislation are implemented by the use of voluntary agreements or codes of practice, the Contractor shall comply with such agreements or codes of practices as if they were incorporated into Canada law subject to those voluntary agreements being cited in the Contract documentation. The Contractor is responsible to comply with laws applicable to the performance of the Contract, regardless of them being identified, or not, within the Contract. The Contractor shall provide evidence of compliance with such laws to Canada at such times as Canada may reasonably request.

34.3. Hazardous Products

34.3.1. Canada Labour Code, Part II dictates that the least hazardous materials should be used at the workplace. Therefore, the Contractor is to strive to use the least hazardous product that meets the requisite performance requirements. The Contractor is required to include within the Environmental, Health and Safety Impact Report (EHSIR) Material Safety Data Sheets (MSDS) for all products/materials, which are used in the operation and maintenance of the Work, that fall under the Hazardous Products Act, R.S.C. 1985, c. H-3 and regulation(s) thereunder in accordance with the said Act and regulation(s).

34.4. Controlled Products

34.4.1. Controlled Products are products that harbour chemical substances that are banned, being phased out or regulated by legislation. Products and substances regulated or restricted under the following programs include:

- Ozone Depleting Substances (ODS) Regulations (1998);
- Federal Halocarbon Regulation;
- 2-Butoxyethanol Regulation;
- PCB Regulation;
- Prohibition of Certain Toxic Substances, 2005;
- Government of Canada's Chemical Management Plan;
- National Pollutant Release Inventory (NPRI);
- Accelerated Reduction/Elimination of Toxics; and
- Canadian Environmental Protection Act, Schedule 1, list of Toxic Substances.

35. Interface Control Document (ICD)

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35.1 In accordance with appendix 1 Technical Performance Specification to Annex CB to Volume 2, there is a requirement for the Contractor's Integrated Soldier System Suite (ISS-S) to Interface with LCSS radios (PRC 117,148,152), the DAGR (if the ISS-S provides military GPS capability via an interface to the CF in-service DAGR) and the CORAL-CR-C. Proof of this functionality will have to be demonstrated during the Acquisition Contract Phase A (Qualification).

35.2 It is the Contractor's responsibility to obtain from the respective Original Equipment Manufacturer (OEM) for the LCSS radios (PRC 117,148,152) and the DAGR (if the ISS-S provides military GPS capability via an interface to the CF in-service DAGR) the required ICD's and assistance for the integration/engineering effort thereby allowing the Contractor to complete the work and fully qualify the ISS-S.

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MODULE A

TO

VOLUME 2

ANNEX AA to Volume 2

INSURANCE REQUIREMENTS

Commercial General Liability Insurance

1. The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.

2. The Commercial General Liability Insurance policy must include the following:

- (a) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
- (b) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
- (c) Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
- (d) Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
- (e) Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
- (f) Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
- (g) Employees and, if applicable, Volunteers must be included as Additional Insured.
- (h) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)

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- (i) Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
- (j) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
- (k) If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
- (l) Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
- (m) Non-Owned Automobile Liability - Coverage for suits against the Contractor resulting from the use of hired or non-owned vehicles
- (n) Litigation Rights: Pursuant to subsection 5(d) of the *Department of Justice Act*, S.C. 1993, c. J-2, s.1, if a suit is instituted for or against Canada which the Insurer would, but for this clause, have the right to pursue or defend on behalf of Canada as an Additional Named Insured under the insurance policy, the Insurer must promptly contact the Attorney General of Canada to agree on the legal strategies by sending a letter, by registered mail or by courier, with an acknowledgement of receipt.

For the province of Quebec, send to:

Director Business Law Directorate,
Quebec Regional Office (Ottawa),
Department of Justice,
284 Wellington Street, Room SAT-6042,
Ottawa, Ontario, K1A 0H8

For other provinces and territories, send to:

Senior General Counsel,
Civil Litigation Section,
Department of Justice
234 Wellington Street, East Tower
Ottawa, Ontario K1A 0H8

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A copy of the letter must be sent to the Contracting Authority. Canada reserves the right to co-defend any action brought against Canada. All expenses incurred by Canada to co-defend such actions will be at Canada's expense. If Canada decides to co-defend any action brought against it, and Canada does not agree to a proposed settlement agreed to by the Contractor's insurer and the plaintiff(s) that would result in the settlement or dismissal of the action against Canada, then Canada will be responsible to the Contractor's insurer for any difference between the proposed settlement amount and the amount finally awarded or paid to the plaintiffs (inclusive of costs and interest) on behalf of Canada.

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ISS-A FINANCIAL BID PRESENTATION SHEET

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ISS-A FINANCIAL BID PRESENTATION SHEET

PART 1 (Phase A Qualification)

(The Part 1 of this annex begins on the next page)

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PART 1 (Phase A Qualification)

Last update: February 9, 2013
ISS_A_FBPS_V2.XLS

Line	BP		Qty	Column A	Column B	Column C	Column D
No.	Code	ITEM'S DESCRIPTIONS	U of I	Qty (Over Phase A period)	Unit Price	Extended Price	
1		1.0 Contract Management (Phase A Qualification):					
2							
		For the management of the Contract and all management functions including in particular the provision and/or revision as necessary of all data items listed below, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, the Contractor shall embed all cost in the milestone payments under item 5.0 to this PART 1:					
3							
4		Data Items List:		Frequency			
5	1.1	Meetings		ASGEN			
6	1.2	Meeting Agenda (Contract Data Requirements List (CDRL) PM-005)		ASREQ			
7	1.3	Meeting Minutes (CDRL PM-006)		ASREQ			
8	1.4	Issue-Action Item Log (IAIL) (CDRL PM-007)		ASREQ			
9	1.5	Implementation and Maintenance of the Electronic Information Environment (EIE) infrastructure		ASREQ			
10	1.6	Master Project Schedule (MPS) and Work Breakdown Structure (WBS) (Annex CA Statement of Work (SOW) para. 3.1.2.0-6, CDRL PM-003)		R			
11	1.7	Progress Report (SOW para. 3.2.2.0-4, CDRL PM-004)		MNTHY			
12	1.8	Engineering Change Proposal (ECP) (SOW para. 7.3.0-1, CDRL CM-002)		ASREQ			
13	1.9	Request for Deviation/Request for Waiver (SOW para. 7.3.0-3, CDRL CM-006)		ASREQ			
14	1.10	Specification Change Notice (SCN) (SOW para. 7.3.0-4, CDRL CM-007)		ASREQ			
15	1.11	Notice of Revision (NOR) (SOW para. 7.3.0-5, CDRL CM-003)		ASREQ			
16	1.12	Configuration Status Accounting (CSA) Report (SOW para. 7.4.0-1, CDRL CM-008)		MNTHY			
17	1.13	Equipment Breakdown Structure (EBS) (SOW para. 7.2.0-2, CDRL CM-005)		R			
18		NOTE: The definition of "Frequency" can be found in RFP section 2.2.3 to Annex CC to Volume 2.					
19							
20							
21		2.0 Documentation:					
22							
		For the provision of the data items listed below, as stipulated in Annex CA Statement of Work (SOW), and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, upon delivery and acceptance or approval as the case maybe of all data item, Canada shall pay the Contractor a Firm Lot Price thereon of	Lot	1	\$_____	\$_____	
23							
24		Data Items List:					
25	2.1	Master Project Schedule (MPS) and Work Breakdown Structure (WBS) (Annex CA Statement of Work (SOW) para. 3.1.2.0-6, CDRL PM-003)					
26	2.2	Project Management Plan (PMP) (SOW para. 3.1.2.0-1, CDRL PM-001)					
27	2.3	System Engineering Management Plan (SEMP) (SOW para. 3.1.2.0-2, CDRL SE-001)					
28	2.4	Technical Data Management Plan (TDMP) (SOW para. 4.6.0-1, CDRL DM-001)					
29	2.5	Configuration Management Plan (CMP) (SOW para. 3.1.2.0-3, CDRL CM-001)					
30	2.6	Quality Assurance Plan (QAP) (SOW para. 3.1.2.0-4, CDRL PM-002)					
31	2.7	Government Property Reports (SOW para. 4.8.0-2, CDRL PM-010)					

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3.0 Documentation (Phase A Qualification):

For the provision of the data items listed below, as stipulated in Annex CA Statement of Work (SOW), and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, upon delivery and acceptance or approval as the case maybe of all data item, Canada shall pay the Contractor a Firm Lot Price thereon of

Lot 1 \$ _____ \$ _____

Data Items List:

- 3.1 Interface Control Document (SOW para. 3.2.3.2.0-2, CDRL SE-002):
 - 3.1.1 Hardware, software and data interfaces between ISS-ES physical devices hosting ISS functionality.
 - 3.1.2 Hardware, software and data interfaces between ISS-S and the SEP-S.
 - 3.1.3 Hardware, software and data interfaces between ISS-S and the BMS function on CF Laptop.
 - 3.1.4 Hardware, software and data interfaces between ISS-S and the following external systems:
 - 3.1.4.1 Coral-CR-C
 - 3.1.4.2 DAGR
 - 3.1.4.3 PRC 152 LCSS Radio
 - 3.1.4.4 PRC 148 LCSS Radio.
 - 3.1.4.5 PRC 117 LCSS Radio.
- 3.2 FCA Configuration Audit Plan (CAP) (SOW para. 7.5.0-1, CDRL CM-009):
- 3.3 Software Version Description Document (SVDD) (SOW para. 7.4.0-2, CDRL CM-004)
- 3.4 PCA Configuration Audit Plan (CAP) (SOW para. 7.5.0-1, CDRL CM-009):
- 3.5 Environmental, Health and Safety Assessment (EHSA) (SOW para. 3.2.4.0-2, CDRL PM-008)
- 3.6 Intellectual Property Lists (SOW para. 4.4, CDRL PM-009)

4.0 Engineering Support Services:

For the provision of Engineering Support Services as stipulated in paragraph 3.2.8.2.0-1 to annex CA, Travel and Living expenses included, the Contractor shall embed all cost in the milestone payments under item 5.0 to this PART 1.

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			Column A	Column B	Column C	Column D
		Qty U of I		Milestone Payment	Extended Price Milestone	Milestone Due Date in months from date of contract
59						
60						
61						
62						
63	5.0	Qualification:				
64		Except for the work already itemized somewhere else in this PART 1, Canada shall pay the Contractor milestone payments in accordance with the following schedule of milestones for the execution the Contract Phase A Qualification in accordance with the paragraph 1.2.2.1 to Annex CA Statement of Work and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work:				
65						
66		Mil.				
67		No. Milestone Short Description:				
68	5.1	Upon succesful completion of SRAR as per paragraph 3.1 to Appendix 1 to Annex CA, the following milestone payment:	Lot	1	\$ _____	\$ _____
69						
70		The SRAR requirements include the provision of the following data items:				
71	5.1.1	Equipment Breakdown Structure (EBS) (SOW para. 7.2.0-2, CDRL CM-005)				
72	5.1.2	Verification and Qualification Plan (VQP) (SOW para. 3.2.8.1.0-1, CDRL SE-004)				
73						
74	5.2	Upon succesful completion of TRR as per paragraph 3.2 to Appendix 1 to Annex CA, the following milestone payment:	Lot	1	\$ _____	\$ _____
75						
76		The TRR requirements include the provision of the following data items:				
77	5.2.1	System Acceptance Test (SAT) Plan (SOW para. 3.2.9.1.0-1, CDRL SE-007)				
78	5.2.2	SAT Descriptions and Procedures (SATDP) (SOW para. 3.2.9.3.0-1, CDRL SE-008)				
79	5.2.3	Verification Qualification Test Report (SOW para. 3.2.8.1.0-13, CDRL SE-006)				
80	5.2.4	Qualification Test Description and Procedures (QTDP) (SOW para. 3.2.8.1.0-6, CDRL SE-005):				
81						
82	5.3	Upon succesful completion of FQR as per paragraph 3.3 to Appendix 1 to Annex CA, the following milestone payment:	Lot	1	\$ _____	\$ _____
83						
84		The FQR requirements include the provision of the following data items:				
85	5.3.1	System Acceptance Test Report (SOW para. 3.2.10.2.0-2, CDRL SE-009)				
86	5.3.2	FCA Configuration Audit Report (SOW para. 7.5.0-2, CDRL CM-010)				
87	5.3.3	PCA Configuration Audit Report (SOW para. 7.5.0-2, CDRL CM-010)				
88						
89	NOTE:	In connection with Phase A Qualification, the Contractor grants to Canada a limited license to use the Contractor's proposed software solution for testing and evaluation purposes.				
90						
91	6.0	Release of holdback:				
92		Upon Contract Phase A successful FQR completion, in accordance with the paragraph 3.3 to Appendix 1 to Annex CA Statement of Work, the Contractor shall be paid the holdback retained on items 1.0 to 5.0 of this PART 1.				
93						
94						
95	7.0	ISS-A PHASE A WORK BID PRICE				
96						
</						

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ANNEX AB to Volume 2

ISS-A FINANCIAL BID PRESENTATION SHEET

PART 2 (Phase B Production)

(The Part 2 of this annex begins on the next page)

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ANNEX AB to Volume 2
ISS-A FINANCIAL BID PRESENTATION SHEET
PART 2 (Optional Goods and/or Services Phase B (Production))

Last update: February 9, 2013

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Line	BP		Qty	Column A	Column B1	Column B2	Column B3	Column C
No.	Code	ITEM'S DESCRIPTIONS	U of I	Qty (Over contract period)	Unit Price (Year 1)	Unit Price (Year 2)	Unit Price (Year 3)	Extended Price
1		8.0 Contract Management (Phase B Production):						
2		For the management of the Contract and all management functions including in particular the provision and/or revision as necessary of all data items listed below, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, the Contractor shall embed all cost in the items 9.0 to 19.0 to this PART 2:						
3								
4		Data Items List:		Frequency				
5		8.1 Phase B Production Kick-off Meeting (Annex CA Statement of Work (SOW) para. 4.3.1.2)		ONE				
6		8.2 Phase B Production, Progress Review Meeting (PRM) (SOW para. 4.3.1.3)		ASREQ				
7		8.3 Phase B Production, Other Meetings and Reviews (SOW para. 4.3.1.4)		ASREQ				
8		8.4 Phase B Production, Technical Review Meetings (SOW para. 5.2.5)		ASREQ				
9		8.5 Production Readiness Review (para. 3.4 to appendix 1 to SOW)		ONE				
10		8.6 Phase B Production, ILS Review Meetings (SOW para. 6.3)		ASREQ				
11		8.7 Meeting Agenda (CDRL PM-005)		ASREQ				
12		8.8 Meeting Minutes (CDRL PM-006)		ASREQ				
13		8.9 Issue-Action Item Log (IAIL) (CDRL PM-007)		ASREQ				
14		8.10 Master Project Schedule (MPS) and Work Breakdown Structure (WBS) (SOW para. 3.1.2.0-6, CDRL PM-003)		R				
15		8.11 Progress Report (SOW para. 3.2.2.0-4, CDRL PM-004)		MNTHY				
16		8.12 Equipment Breakdown Structure (EBS) (SOW para. 7.2.0-2, CDRL CM-005)		R				
17		NOTE: The definition of "Frequency" can be found in RFP section 2.2.3 to Annex CC to Volume 2.						
18								
19								
20		9.0 Documentation (Phase B Production):						
21		For the provision of the data items below, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, upon delivery and acceptance or approval as the case maybe of all data items, Canada shall pay the Contractor, the Firm Lot Price thereon of						
22								
23		9.1 Documentation set:	Lot	1	\$			\$
24		9.1.1 Maintenance Plan (Annex CA Statement of Work (SOW) para. 6.4.0-1, CDRL LS-005)						
25		9.1.2 Training Program Plan (SOW para. 6.6.1.0-2, CDRL LS-004)						
26		9.1.3 Integrated Logistics Support Plan (ILSP) (SOW para. 3.1.2.0-5, CDRL LS-001)						
27		9.1.4 Production Plan (SOW para. 3.3.2.0-2, CDRL SE-010)						
28		9.1.5 Sparing Analysis Report (SOW para. 6.7.2.0-1, CDRL LS-010)						
29		9.1.6 Recommended Spare Parts List (RSPL) (SOW para. 6.7.2.0-2, CDRL LS-003)						
30		9.1.7 Supplementary Provisioning Technical Data (SPTD) (SOW para. 6.7.2.0-3, CDRL LS-011)						
31		9.1.8 Consumable and Bulk Items List (CBIL) (SOW para. 6.7.2.0-4, CDRL LS-012)						
32		9.1.9 Recommended Support Equipment Requirements List (RSERL) (SOW para. 6.7.4.0-1, CDRL LS-002)						
33		9.1.10 Packaging Data (SOW para. 6.7.5.0-2, CDRL LS-013)						
34		9.1.11 Equipment Identification Plate Data and Markings (SOW para. 6.7.1.0-1, CDRL LS-009)						

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- 9.1.12 Training Courses: (SOW para. 6.6.5.0-3, CDRL LS-008)
- 9.1.12.1 ICT Operator Instructors training documentation (English)
 - 9.1.12.2 ICT System Manager Instructors training documentation (English)
 - 9.1.12.3 ICT Maintainer' Instructors training documentation (English)
 - 9.1.12.4 ICT Operator Instructors training documentation (French)
 - 9.1.12.5 ICT System Manager Instructors training documentation (French)
 - 9.1.12.6 ICT Maintainer' Instructors training documentation (French)

9.1.13 Technical Publications (SOW para. 6.5.1.0-2, CDRL LS-007)

9.2	Software Documentation (SOW para. 6.4.1.0-1, CDRL LS-006)	Lot	1	\$		\$
9.3	Battery System Description (SOW para. 3.2.4.0-4, CDRL SE-003)	Lot	1	\$		\$

10.0 Integrated Soldier System (ISS) P(SAT) version: (Annex CA Statement of Work (SOW) para. 3.3.4)

The ISS P(SAT) performance shall comply with all the technical requirements of this contract. The ISS P(SAT) price must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance and support services for a minimum period of one (1) year.

For the supply of the following firm quantities of ISS P(SAT), and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor, upon delivery and acceptance of an entire batch as defined in Contract article 4.2.3.2., excluding delivery charges, Firm Unit Prices as follows:

ORDER 1 DESCRIPTION (Table 1 to Annex CF)

10.1	Main Equipment: (SOW para. 3.3.1.1.0-6)					
10.1.1	Integrated Soldier System - Electronics Suite (ISS-ES) (SOW para. 3.3.1.1.0-6.0-1)					
10.1.1.1		Each	32	\$		\$
10.1.1.2		Each	32	\$		\$
10.1.1.3		Each	32	\$		\$
10.1.1.4		Each	32	\$		\$
10.1.1.5		Each	32	\$		\$
10.1.1.6		Each	32	\$		\$
10.1.1.7		Each	32	\$		\$
10.1.1.8		Each	32	\$		\$
10.1.1.9		Each	32	\$		\$
10.1.1.10		Each	32	\$		\$
10.1.1.11		Each	32	\$		\$
10.1.1.12		Each	32	\$		\$
10.1.1.13		Each	32	\$		\$
10.1.1.14		Each	32	\$		\$
10.1.1.15		Each	32	\$		\$
10.1.1.16		Each	32	\$		\$
10.1.1.17		Each	32	\$		\$
10.1.1.18		Each	32	\$		\$
10.1.1.19		Each	32	\$		\$
10.1.1.20		Each	32	\$		\$
10.1.2	Universal Canophone Set (SOW para. 3.3.1.1.0-6.0-3)	Each	32	\$		\$

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10.1.3 ISS Battery Sets: (SOW para. 3.3.1.1.0-6.0-5)

10.1.3.1 ISS Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-2)

Each 32

10.1.3.1.1 (Power Domain 1) Rechargeable Battery Set:

10.1.3.1.1.1 Power Domain Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-4)

10.1.3.1.1.1.1 Battery (Type)

Each

\$

\$

10.1.3.1.1.2 Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)

Each

\$

\$

10.1.3.1.1.2 Quantity of Power Domain Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-5)

Each

10.1.3.1.2 (Power Domain 2) Rechargeable Battery Set:

10.1.3.1.2.1 Power Domain Rechargeable Battery Pack:

10.1.3.1.2.1.1 Battery (Type)

Each

\$

\$

10.1.3.1.2.2 Battery Loading/Storage Device

Each

\$

\$

10.1.3.1.2.2 Quantity of Power Domain Rechargeable Battery Pack

Each

10.1.3.1.3 (Power Domain 3) Rechargeable Battery Set:

10.1.3.1.3.1 Power Domain Rechargeable Battery Pack:

10.1.3.1.3.1.1 Battery (Type)

Each

\$

\$

10.1.3.1.3.1.2 Battery Loading/Storage Device

Each

\$

\$

10.1.3.1.3.2 Quantity of Power Domain Rechargeable Battery Pack

Each

10.1.3.1.4 (Power Domain 4) Rechargeable Battery Set:

10.1.3.1.4.1 Power Domain Rechargeable Battery Pack:

10.1.3.1.4.1.1 Battery (Type)

Each

\$

\$

10.1.3.1.4.1.2 Battery Loading/Storage Device

Each

\$

\$

10.1.3.1.4.2 Quantity of Power Domain Rechargeable Battery Pack

Each

10.1.3.1.5 (Power Domain 5) Rechargeable Battery Set:

10.1.3.1.5.1 Power Domain Rechargeable Battery Pack:

10.1.3.1.5.1.1 Battery (Type)

Each

\$

\$

10.1.3.1.5.1.2 Battery Loading/Storage Device

Each

\$

\$

10.1.3.1.5.2 Quantity of Power Domain Rechargeable Battery Pack

Each

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107	10.1.3.2	ISS Non-Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-1)	Each	64			
108	10.1.3.2.1	(Power Domain 1) Non-Rechargeable Battery Set:					
109	10.1.3.2.1.1	Power Domain Non-Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-2)					
110	10.1.3.2.1.1.1	Battery (Type)	Each	—	\$	—	\$ —
111	10.1.3.2.1.1.2	Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)	Each	—	\$	—	\$ —
112	10.1.3.2.1.2	Quantity of Power Domain Non-Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-3)	Each	—			
113							
114	10.1.3.2.2	(Power Domain 2) Non-Rechargeable Battery Set:					
115	10.1.3.2.2.1	Power Domain Non-Rechargeable Battery Pack:					
116	10.1.3.2.2.1.1	Battery (Type)	Each	—	\$	—	\$ —
117	10.1.3.2.2.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$ —
118	10.1.3.2.2.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			
119							
120	10.1.3.2.3	(Power Domain 3) Non-Rechargeable Battery Set:					
121	10.1.3.2.3.1	Power Domain Non-Rechargeable Battery Pack:					
122	10.1.3.2.3.1.1	Battery (Type)	Each	—	\$	—	\$ —
123	10.1.3.2.3.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$ —
124	10.1.3.2.3.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			
125							
126	10.1.3.2.4	(Power Domain 4) Non-Rechargeable Battery Set:					
127	10.1.3.2.4.1	Power Domain Non-Rechargeable Battery Pack:					
128	10.1.3.2.4.1.1	Battery (Type)	Each	—	\$	—	\$ —
129	10.1.3.2.4.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$ —
130	10.1.3.2.4.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			
131							
132	10.1.3.2.5	(Power Domain 5) Non-Rechargeable Battery Set:					
133	10.1.3.2.5.1	Power Domain Non-Rechargeable Battery Pack:					
134	10.1.3.2.5.1.1	Battery (Type)	Each	—	\$	—	\$ —
135	10.1.3.2.5.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$ —
136	10.1.3.2.5.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			

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138	10.1.4	Modular Load Carriage System (MLCS): (SOW para. 3.3.1.1.0-6.0-7)					
139	10.1.4.1	MLCS Platform (Small size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	22	\$		\$
140	10.1.4.2	MLCS Platform (Medium size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	10	\$		\$
141	10.1.4.3	MLCS ISS Pouch Set: (SOW para. 3.3.1.1.0-6.0-7.0-2)					
142	10.1.4.3.1		Each	32	\$		\$
143	10.1.4.3.2		Each	32	\$		\$
144	10.1.4.3.3		Each	32	\$		\$
145	10.1.4.3.4		Each	32	\$		\$
146	10.1.4.3.5		Each	32	\$		\$
147	10.1.4.3.6		Each	32	\$		\$
148	10.1.4.3.7		Each	32	\$		\$
149	10.1.4.3.8		Each	32	\$		\$
150	10.1.4.3.9		Each	32	\$		\$
151	10.1.4.3.10		Each	32	\$		\$
152	10.2	Accessory Items: (SOW para. 3.3.1.1.0-7)					
153	10.2.1	DAGR Interface Cable (SOW para. 3.3.1.1.0-7.0-1)	Each	5	\$		\$
154	10.2.2	CORAL-CR-C Interface Cable (SOW para. 3.3.1.1.0-7.0-2)	Each	5	\$		\$
155	10.2.3	LCSS Radio Interface Cable Set (SOW para. 3.3.1.1.0-7.0-3)					
156	10.2.3.1		Each	5	\$		\$
157	10.2.3.2		Each	5	\$		\$
158	10.2.3.3		Each	5	\$		\$
159	10.2.3.4		Each	5	\$		\$
160	10.2.3.5		Each	5	\$		\$
161	10.2.3.6		Each	5	\$		\$
162	10.2.3.7		Each	5	\$		\$
163	10.2.3.8		Each	5	\$		\$
164	10.2.3.9		Each	5	\$		\$
165	10.2.3.10		Each	5	\$		\$
166	10.3	Technical Documentation:					
167		(NOT APPLICABLE)					
168	10.4	Support Equipment: (SOW para. 3.3.1.1.0-8.0-2)					
169	10.4.1	Recommended Support Equipment: (SOW para. 3.3.1.1.0-8.0-2.0-1)					
170		(SEE ITEM 15.0 TO THIS PART 2)					
171	10.4.2	System Executive Planning Suite (SEP-S) software (SOW para. 3.3.1.1.0-8.0-2.0-2)	Each	3	\$		\$
172	10.4.3	Battle Management System (BMS) software on CF Laptop (SOW para. 3.3.1.1.0-8.0-2.0-3)	Each	3	\$		\$
173	10.4.4	Battery Charger Set: (SOW para. 3.3.1.1.0-8.0-2.0-4)					
174		For the purchase of Battery chargers to support a block of 32 ISS Rechargeable Battery Sets as per the definitions of "Battery Charger Set" provided in paragraph 3.3.1.1.0-8.0-2.0-4 to Annex CA SOW, the ancillaries being broke down as per the following:					
175	10.4.4.1		Each	—	\$		\$
176	10.4.4.2		Each	—	\$		\$
177	10.4.4.3		Each	—	\$		\$
178	10.4.4.4		Each	—	\$		\$
179	10.4.4.5		Each	—	\$		\$
180	10.4.4.6		Each	—	\$		\$
181	10.4.4.7		Each	—	\$		\$
182	10.4.4.8		Each	—	\$		\$
183	10.4.4.9		Each	—	\$		\$
184	10.4.4.10		Each	—	\$		\$

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11.0 Pilot Initial Cadre Training (ICT) courses: (Annex CA Statement of Work (SOW) para. 6.6)

For the supply of Pilot ICT courses in accordance with SOW para. 6.6.2.0-1, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor, upon delivery and acceptance of the serials listed below, Firm Unit Prices as follows:

ORDER 1 DESCRIPTION (Table 2-1 to Annex CF)

11.1 English Training:

11.1.1 Pilot ICT Operator Instructors Course for 12 students

Serial

1

\$

\$

11.1.2 Pilot ICT System Manager Instructors Course for 12 students

Serial

1

\$

\$

11.1.3 Pilot ICT 'Maintainer' Instructors Course for 12 students

Serial

1

\$

\$

11.2 French Training:

11.2.1 Pilot ICT Operator Instructors Course for 12 students

Serial

1

\$

\$

11.2.2 Pilot ICT System Manager Instructors Course for 12 students

Serial

1

\$

\$

11.2.3 Pilot ICT 'Maintainer' Instructors Course for 12 students

Serial

1

\$

\$

12.0 Initial Cadre Training (ICT) courses: (Annex CA Statement of Work (SOW) para. 6.6)

For the supply of 2 ICT Operator Instructors Courses, 2 ICT System Manager Instructors Courses and 2 ICT 'Maintainer' Instructors Courses delivered in an official languages to be determined after contract award, in accordance with SOW para. 6.6.2.0-3, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor, upon delivery and acceptance of the serials, Firm Unit Prices as per item 4 to appendix 1 to this annex.

ORDER 1 DESCRIPTION (Table 2-1 to Annex CF)

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13.0 Integrated Soldier System (ISS) P(Prod) version: (Annex CA Statement of Work (SOW) para. 3.3.5)

The ISS P(Prod) performance shall comply with all the technical requirements of this contract. The ISS P(Prod) price must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance and support services for a minimum period of one (1) year.

For the supply of the following firm quantities of ISS P(Prod), as defined in SOW para. 3.3.0-1, in multiple batches, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor, upon delivery and acceptance of an entire Batch as defined in Contract article 4.2.3.2., excluding delivery charges, Firm Unit Prices as follows:

ORDER 1 DESCRIPTION (Table 2-2 and 2-3-2 to Annex CF)

13.1 Main Equipment (SOW para. 3.3.1.1.0-6)

13.1.1 Integrated Soldier System - Electronics Suite (ISS-ES) (SOW para. 3.3.1.1.0-6.0-1)

13.1.1.1	Each	1600	\$	
13.1.1.2	Each	1600	\$	
13.1.1.3	Each	1600	\$	
13.1.1.4	Each	1600	\$	
13.1.1.5	Each	1600	\$	
13.1.1.6	Each	1600	\$	
13.1.1.7	Each	1600	\$	
13.1.1.8	Each	1600	\$	
13.1.1.9	Each	1600	\$	
13.1.1.10	Each	1600	\$	
13.1.1.11	Each	1600	\$	
13.1.1.12	Each	1600	\$	
13.1.1.13	Each	1600	\$	
13.1.1.14	Each	1600	\$	
13.1.1.15	Each	1600	\$	
13.1.1.16	Each	1600	\$	
13.1.1.17	Each	1600	\$	
13.1.1.18	Each	1600	\$	
13.1.1.19	Each	1600	\$	
13.1.1.20	Each	1600	\$	

13.1.2 Universal Canophone Set (SOW para. 3.3.1.1.0-6.0-3)

Each	1600	\$	
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235	13.1.3 ISS Battery Sets: (SOW para. 3.3.1.1.0-6.0-5)				
236	13.1.3.1 ISS Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-2)	Each	520		
237	13.1.3.1.1 (Power Domain 1) Rechargeable Battery Set:				
238	13.1.3.1.1.1 Power Domain Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-4)				
239	13.1.3.1.1.1.1 Battery (Type)	Each	—	\$	—
240	13.1.3.1.1.1.2 Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)	Each	—	\$	—
241	13.1.3.1.1.2 Quantity of Power Domain Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-5)	Each	—		
242					
243	13.1.3.1.2 (Power Domain 2) Rechargeable Battery Set:				
244	13.1.3.1.2.1 Power Domain Rechargeable Battery Pack:				
245	13.1.3.1.2.1.1 Battery (Type)	Each	—	\$	—
246	13.1.3.1.2.1.2 Battery Loading/Storage Device	Each	—	\$	—
247	13.1.3.1.2.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—		
248					
249	13.1.3.1.3 (Power Domain 3) Rechargeable Battery Set:				
250	13.1.3.1.3.1 Power Domain Rechargeable Battery Pack:				
251	13.1.3.1.3.1.1 Battery (Type)	Each	—	\$	—
252	13.1.3.1.3.1.2 Battery Loading/Storage Device	Each	—	\$	—
253	13.1.3.1.3.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—		
254					
255	13.1.3.1.4 (Power Domain 4) Rechargeable Battery Set:				
256	13.1.3.1.4.1 Power Domain Rechargeable Battery Pack:				
257	13.1.3.1.4.1.1 Battery (Type)	Each	—	\$	—
258	13.1.3.1.4.1.2 Battery Loading/Storage Device	Each	—	\$	—
259	13.1.3.1.4.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—		
260					
261	13.1.3.1.5 (Power Domain 5) Rechargeable Battery Set:				
262	13.1.3.1.5.1 Power Domain Rechargeable Battery Pack:				
263	13.1.3.1.5.1.1 Battery (Type)	Each	—	\$	—
264	13.1.3.1.5.1.2 Battery Loading/Storage Device	Each	—	\$	—
265	13.1.3.1.5.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—		

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267	13.1.3.2	ISS Non-Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-1)	Each	6064			
268	13.1.3.2.1	(Power Domain 1) Non-Rechargeable Battery Set:					
269	13.1.3.2.1.1	Power Domain Non-Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-2)					
270	13.1.3.2.1.1.1	Battery (Type)	Each	—	\$		\$
271	13.1.3.2.1.1.2	Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)	Each	—	\$		\$
272	13.1.3.2.1.2	Quantity of Power Domain Non-Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-3)	Each	—			
273							
274	13.1.3.2.2	(Power Domain 2) Non-Rechargeable Battery Set:					
275	13.1.3.2.2.1	Power Domain Non-Rechargeable Battery Pack:					
276	13.1.3.2.2.1.1	Battery (Type)	Each	—	\$		\$
277	13.1.3.2.2.1.2	Battery Loading/Storage Device	Each	—	\$		\$
278	13.1.3.2.2.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			
279							
280	13.1.3.2.3	(Power Domain 3) Non-Rechargeable Battery Set:					
281	13.1.3.2.3.1	Power Domain Non-Rechargeable Battery Pack:					
282	13.1.3.2.3.1.1	Battery (Type)	Each	—	\$		\$
283	13.1.3.2.3.1.2	Battery Loading/Storage Device	Each	—	\$		\$
284	13.1.3.2.3.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			
285							
286	13.1.3.2.4	(Power Domain 4) Non-Rechargeable Battery Set:					
287	13.1.3.2.4.1	Power Domain Non-Rechargeable Battery Pack:					
288	13.1.3.2.4.1.1	Battery (Type)	Each	—	\$		\$
289	13.1.3.2.4.1.2	Battery Loading/Storage Device	Each	—	\$		\$
290	13.1.3.2.4.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			
291							
292	13.1.3.2.5	(Power Domain 5) Non-Rechargeable Battery Set:					
293	13.1.3.2.5.1	Power Domain Non-Rechargeable Battery Pack:					
294	13.1.3.2.5.1.1	Battery (Type)	Each	—	\$		\$
295	13.1.3.2.5.1.2	Battery Loading/Storage Device	Each	—	\$		\$
296	13.1.3.2.5.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			
297	13.1.4	Modular Load Carriage System (MLCS): (SOW para. 3.3.1.1.0-6.0-7)					
298	13.1.4.1	MLCS Platform (Small size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	1457	\$		\$
299	13.1.4.2	MLCS Platform (Medium size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	622	\$		\$
300	13.1.4.3	MLCS ISS Pouch Set: (SOW para. 3.3.1.1.0-6.0-7.0-2)					
301	13.1.4.3.1		Each	1600	\$		\$
302	13.1.4.3.2		Each	1600	\$		\$
303	13.1.4.3.3		Each	1600	\$		\$
304	13.1.4.3.4		Each	1600	\$		\$
305	13.1.4.3.5		Each	1600	\$		\$
306	13.1.4.3.6		Each	1600	\$		\$
307	13.1.4.3.7		Each	1600	\$		\$
308	13.1.4.3.8		Each	1600	\$		\$
309	13.1.4.3.9		Each	1600	\$		\$
310	13.1.4.3.10		Each	1600	\$		\$

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311	13.2	Accessory Items: (SOW para. 3.3.1.1.0-7)					
312	13.2.1	DAGR Interface Cable (SOW para. 3.3.1.1.0-7.0-1)	Each	310	\$		\$
313	13.2.2	CORAL-CR-C Interface Cable (SOW para. 3.3.1.1.0-7.0-2)	Each	84	\$		\$
314	13.2.3	LCSS Radio Interface Cable Set (SOW para. 3.3.1.1.0-7.0-3)					
315	13.2.3.1		Each	310	\$		\$
316	13.2.3.2		Each	310	\$		\$
317	13.2.3.3		Each	310	\$		\$
318	13.2.3.4		Each	310	\$		\$
319	13.2.3.5		Each	310	\$		\$
320	13.2.3.6		Each	310	\$		\$
321	13.2.3.7		Each	310	\$		\$
322	13.2.3.8		Each	310	\$		\$
323	13.2.3.9		Each	310	\$		\$
324	13.2.3.10		Each	310	\$		\$
325	13.3	Technical documentation: (SOW para. 3.3.1.1.0-8.0-1)					
326	13.3.1	Original copy:					
327		(SEE ITEM 9.1.13 TO THIS PART 2)					
328	13.3.2	Additional copy:					
329	13.3.2.1	ISS-S User Manual - Bilingual	Each	1600	\$		\$
330	13.3.2.2	ISS-S Technical Manual - Bilingual	Each	64	\$		\$
331	13.3.2.3	ISS-S Quick Reference Manual - Bilingual	Each	1600	\$		\$
332	13.4	Support Equipment: (SOW para. 3.3.1.1.0-8.0-2)					
333	13.4.1	Recommended Support Equipment: (SOW para. 3.3.1.1.0-8.0-2.0-1)					
334		(SEE ITEM 15.0 TO THIS PART 2)					
335	13.4.2	System Executive Planning Suite (SEP-S) software (SOW para. 3.3.1.1.0-8.0-2.0-2)	Each	38	\$		\$
336	13.4.3	Battle Management System (BMS) software on CF Laptop (SOW para. 3.3.1.1.0-8.0-2.0-3)	Each	96	\$		\$
337	13.4.4	Battery Charger Set: (SOW para. 3.3.1.1.0-8.0-2.0-4)					
338							
		For the purchase of Battery chargers to support a block of 168 ISS Rechargeable Battery Sets and separately another block of 176 ISS Rechargeable Battery Sets as per the definitions of "Battery Charger Set" provided in paragraph 3.3.1.1.0-8.0-2.0-4 to Annex CA SOW, the ancillaries being broke down as per the following:					
339	13.4.4.1		Each		\$		\$
340	13.4.4.2		Each		\$		\$
341	13.4.4.3		Each		\$		\$
342	13.4.4.4		Each		\$		\$
343	13.4.4.5		Each		\$		\$
344	13.4.4.6		Each		\$		\$
345	13.4.4.7		Each		\$		\$
346	13.4.4.8		Each		\$		\$
347	13.4.4.9		Each		\$		\$
348	13.4.4.10		Each		\$		\$

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14.0 Batch Delivery Charges: (Annex CA Statement of Work (SOW) para. 6.7.5 and item 9.1.10 to this PART 2)

For the cost of delivery of the following batches and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor, upon delivery and acceptance of an entire batch as defined in Contract article 4.2.3.2., Ceiling Lot Prices, as follows:

ORDER 1 DESCRIPTION

14.1	Delivery of P(SAT) ISS-S Batch (Table 1 to Annex CF)	Batch	1	\$		\$
14.2	Delivery of Initial Training Batch (Table 2.2.1 to Annex CF)	Batch	1	\$		\$
14.3	Delivery of Operational Stock Batch (Table 2.2.2 to Annex CF)	Batch	1	\$		\$
14.4	Delivery of Task Force 1 Batch (Table 2.3.2 to Annex CF)	Batch	1	\$		\$
14.5	Delivery of Task Force 2 Batch (Table 2.3.2 to Annex CF)	Batch	1	\$		\$

15.0 ISS-A Support Equipment: (Annex CA Statement of Work (SOW) para. 3.3.1.1.0-8.0-2.0-1)

The Support Equipment performance shall comply with all the technical requirements of this contract. The Support Equipment prices must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance and support services for a minimum period of one (1) year.

For the supply of Support Equipment on an if, as, and when requested basis, upon delivery and acceptance, excluding delivery charges, Canada shall pay the Contractor as follows:

15.1 When the ISS-A support equipment is listed in this annex's appendix 5, the contractor shall be paid the Firm Unit Prices as per that appendix.

15.2 When an ISS-A support equipment is to be added to this annex's appendix 5, its Firm Unit Price is to be negotiated in accordance with Contract articles 6.7 and 6.8, and will be actual cost plus a firm mark-up thereon of:

15.2.1 Contractor Manufactured Parts (CMP)	\$	\$250,000.00	%	\$
15.2.2 Contractor Acquired Parts (CAP)	\$	\$250,000.00	%	\$

16.0 ISS-A Consumable and Bulk Items (CBI):

The CBI performance shall comply with all the technical requirements of this contract. The CBI prices must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance and support services for a minimum period of one (1) year.

For the supply of Consumable and Bulk Items on an if, as, and when requested basis, upon delivery and acceptance, excluding delivery charges, Canada shall pay the Contractor as follows:

16.1 When the ISS-A Consumable and Bulk Items is listed in this annex's appendix 5, the contractor shall be paid the Firm Unit Prices as per that appendix.

16.2 When an ISS-A Consumable and Bulk Item is to be added to this annex's appendix 5, its Firm Unit Price is to be negotiated in accordance with Contract articles 6.7 and 6.8, and will be actual cost plus a firm mark-up thereon of:

16.2.1 Contractor Manufactured Parts (CMP)	\$	\$250,000.00	%	\$
16.2.2 Contractor Acquired Parts (CAP)	\$	\$250,000.00	%	\$

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17.0 ISS-A Spare Parts:

The ISS Spare Parts performance shall comply with all the technical requirements of this contract. The ISS Spare Parts prices must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance and support services for a minimum period of one (1) year.

For the supply of ISS Spare Parts on an if, as, and when requested basis, upon delivery and acceptance, excluding delivery charges, Canada shall pay the Contractor as follow:

17.1 Main Equipment: (SOW para. 3.3.1.1.0-6)

17.1.1 Integrated Soldier System - Electronics Suite (ISS-ES) (SOW para. 3.3.1.1.0-6.0-1)

17.1.1.1	Each	200	\$	
17.1.1.2	Each	200	\$	
17.1.1.3	Each	200	\$	
17.1.1.4	Each	200	\$	
17.1.1.5	Each	200	\$	
17.1.1.6	Each	200	\$	
17.1.1.7	Each	200	\$	
17.1.1.8	Each	200	\$	
17.1.1.9	Each	200	\$	
17.1.1.10	Each	200	\$	
17.1.1.11	Each	200	\$	
17.1.1.12	Each	200	\$	
17.1.1.13	Each	200	\$	
17.1.1.14	Each	200	\$	
17.1.1.15	Each	200	\$	
17.1.1.16	Each	200	\$	
17.1.1.17	Each	200	\$	
17.1.1.18	Each	200	\$	
17.1.1.19	Each	200	\$	
17.1.1.20	Each	200	\$	

17.1.2 Universal Canophone Set (SOW para. 3.3.1.1.0-6.0-3)

Each	200	\$	
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17.1.3 ISS Battery Sets: (SOW para. 3.3.1.1.0-6.0-5)

17.1.3.1 ISS Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-2)

Each 200

17.1.3.1.1 (Power Domain 1) Rechargeable Battery Set:

17.1.3.1.1.1 Power Domain Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-4)

17.1.3.1.1.1.1 Battery (Type)

Each

\$

\$

17.1.3.1.1.1.2 Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)

Each

\$

\$

17.1.3.1.1.2 Quantity of Power Domain Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-5)

Each

17.1.3.1.2 (Power Domain 2) Rechargeable Battery Set:

17.1.3.1.2.1 Power Domain Rechargeable Battery Pack:

17.1.3.1.2.1.1 Battery (Type)

Each

\$

\$

17.1.3.1.2.1.2 Battery Loading/Storage Device

Each

\$

\$

17.1.3.1.2.2 Quantity of Power Domain Rechargeable Battery Pack

Each

17.1.3.1.3 (Power Domain 3) Rechargeable Battery Set:

17.1.3.1.3.1 Power Domain Rechargeable Battery Pack:

17.1.3.1.3.1.1 Battery (Type)

Each

\$

\$

17.1.3.1.3.1.2 Battery Loading/Storage Device

Each

\$

\$

17.1.3.1.3.2 Quantity of Power Domain Rechargeable Battery Pack

Each

17.1.3.1.4 (Power Domain 4) Rechargeable Battery Set:

17.1.3.1.4.1 Power Domain Rechargeable Battery Pack:

17.1.3.1.4.1.1 Battery (Type)

Each

\$

\$

17.1.3.1.4.1.2 Battery Loading/Storage Device

Each

\$

\$

17.1.3.1.4.2 Quantity of Power Domain Rechargeable Battery Pack

Each

17.1.3.1.5 (Power Domain 5) Rechargeable Battery Set:

17.1.3.1.5.1 Power Domain Rechargeable Battery Pack:

17.1.3.1.5.1.1 Battery (Type)

Each

\$

\$

17.1.3.1.5.1.2 Battery Loading/Storage Device

Each

\$

\$

17.1.3.1.5.2 Quantity of Power Domain Rechargeable Battery Pack

Each

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444	17.1.3.2	ISS Non-Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-1)	Each	800		
445	17.1.3.2.1	(Power Domain 1) Non-Rechargeable Battery Set:				
446	17.1.3.2.1.1	Power Domain Non-Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-2)				
447	17.1.3.2.1.1.1	Battery (Type)	Each	—	\$	\$
448	17.1.3.2.1.1.2	Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)	Each	—	\$	\$
449	17.1.3.2.1.2	Quantity of Power Domain Non-Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-3)	Each	—		
450						
451	17.1.3.2.2	(Power Domain 2) Non-Rechargeable Battery Set:				
452	17.1.3.2.2.1	Power Domain Non-Rechargeable Battery Pack:				
453	17.1.3.2.2.1.1	Battery (Type)	Each	—	\$	\$
454	17.1.3.2.2.1.2	Battery Loading/Storage Device	Each	—	\$	\$
455	17.1.3.2.2.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—		
456						
457	17.1.3.2.3	(Power Domain 3) Non-Rechargeable Battery Set:				
458	17.1.3.2.3.1	Power Domain Non-Rechargeable Battery Pack:				
459	17.1.3.2.3.1.1	Battery (Type)	Each	—	\$	\$
460	17.1.3.2.3.1.2	Battery Loading/Storage Device	Each	—	\$	\$
461	17.1.3.2.3.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—		
462						
463	17.1.3.2.4	(Power Domain 4) Non-Rechargeable Battery Set:				
464	17.1.3.2.4.1	Power Domain Non-Rechargeable Battery Pack:				
465	17.1.3.2.4.1.1	Battery (Type)	Each	—	\$	\$
466	17.1.3.2.4.1.2	Battery Loading/Storage Device	Each	—	\$	\$
467	17.1.3.2.4.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—		
468						
469	17.1.3.2.5	(Power Domain 5) Non-Rechargeable Battery Set:				
470	17.1.3.2.5.1	Power Domain Non-Rechargeable Battery Pack:				
471	17.1.3.2.5.1.1	Battery (Type)	Each	—	\$	\$
472	17.1.3.2.5.1.2	Battery Loading/Storage Device	Each	—	\$	\$
473	17.1.3.2.5.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—		
474	17.1.4	Modular Load Carriage System (MLCS): (SOW para. 3.3.1.1.0-6.0-7)				
475	17.1.4.1	MLCS Platform (Small size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	183	\$	\$
476	17.1.4.2	MLCS Platform (Medium size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	78	\$	\$
477	17.1.4.3	MLCS ISS Pouch Set: (SOW para. 3.3.1.1.0-6.0-7.0-2)				
478	17.1.4.3.1		Each	200	\$	\$
479	17.1.4.3.2		Each	200	\$	\$
480	17.1.4.3.3		Each	200	\$	\$
481	17.1.4.3.4		Each	200	\$	\$
482	17.1.4.3.5		Each	200	\$	\$
483	17.1.4.3.6		Each	200	\$	\$
484	17.1.4.3.7		Each	200	\$	\$
485	17.1.4.3.8		Each	200	\$	\$
486	17.1.4.3.9		Each	200	\$	\$
487	17.1.4.3.10		Each	200	\$	\$

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488	17.2	Accessory Items: (SOW para. 3.3.1.1.0-7)					
489	17.2.1	DAGR Interface Cable (SOW para. 3.3.1.1.0-7.0-1)	Each	42	\$		\$
490	17.2.2	CORAL-CR-C Interface Cable (SOW para. 3.3.1.1.0-7.0-2)	Each	13	\$		\$
491	17.2.3	LCSS Radio Interface Cable Set (SOW para. 3.3.1.1.0-7.0-3)					
492	17.2.3.1		Each	42	\$		\$
493	17.2.3.2		Each	42	\$		\$
494	17.2.3.3		Each	42	\$		\$
495	17.2.3.4		Each	42	\$		\$
496	17.2.3.5		Each	42	\$		\$
497	17.2.3.6		Each	42	\$		\$
498	17.2.3.7		Each	42	\$		\$
499	17.2.3.8		Each	42	\$		\$
500	17.2.3.9		Each	42	\$		\$
501	17.2.3.10		Each	42	\$		\$
502	17.3	Technical documentation: (SOW para. 3.3.1.1.0-8.0-1)					
503		(NOT APPLICABLE)					
504	17.4	Support Equipment: (SOW para. 3.3.1.1.0-8.0-2)					
505	17.4.1	Recommended Support Equipment: (SOW para. 3.3.1.1.0-8.0-2.0-1)					
506		(NOT APPLICABLE)					
507	17.4.2	System Executive Planning Suite (SEP-S) software (SOW para. 3.3.1.1.0-8.0-2.0-2)					
508		(NOT APPLICABLE)					
509	17.4.3	Battle Management System (BMS) software on CF Laptop (SOW para. 3.3.1.1.0-8.0-2.0-3)					
510		(NOT APPLICABLE)					
511	17.4.4	Battery Charger Set: (SOW para. 3.3.1.1.0-8.0-2.0-4)					
512		For the purchase of Battery chargers to support a block of 200 ISS Rechargeable Battery Sets as per the definitions of "Battery Charger Set" provided in paragraph 3.3.1.1.0-8.0-2.0-4 to Annex CA SOW, the ancillaries being broke down as per the following:					
513	17.4.4.1		Each	—	\$		\$
514	17.4.4.2		Each	—	\$		\$
515	17.4.4.3		Each	—	\$		\$
516	17.4.4.4		Each	—	\$		\$
517	17.4.4.5		Each	—	\$		\$
518	17.4.4.6		Each	—	\$		\$
519	17.4.4.7		Each	—	\$		\$
520	17.4.4.8		Each	—	\$		\$
521	17.4.4.9		Each	—	\$		\$
522	17.4.4.10		Each	—	\$		\$
523	17.5	ISS-A ISS P(Prod) Spare Parts Price negotiation:					
524		When an ISS-A ISS Spare Part is to be added to this annex's appendix 5, its Firm Unit Price is to be negotiated in accordance with Contract articles 6.7 and 6.8 and will be actual cost plus a firm mark-up thereon of:					
525							
526	17.5.1	Contractor Manufactured Parts (CMP)	\$	\$1,000,000.00	%		\$
527	17.5.2	Contractor Acquired Parts (CAP)	\$	\$1,000,000.00	%		\$

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18.0 Substitution and alternative:

For the supply of substitution or alternative to an existing product listed in the Contract during the Contract period in accordance with the Contract article 24, Firm Unit Prices To Be Negotiated (TBN). Price negotiation will be governed by the following:

18.1 Firm Unit Prices TBN in accordance with Contract article 6.7 and 24.

19.0 Spare Parts Orders (SPO):

SPOs DESCRIPTION:

19.1 For the supply of Spare Parts as detailed under Attachment TBD to Appendix 6 to Annex AB, Canada shall pay the Contractor, upon delivery and acceptance, the Firm Lot Price thereon of:
The order date is TBD. All deliverables must be delivered on or before TBD.

20.0 ISS-A PHASE B WORK BID PRICE

GSTE/HSTE = Goods and Services Tax or the Harmonized Sales Tax excluded

\$ _____
GST/HSTE

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PART 3 (Miscellaneous Work (Not phased specific))

(The Part 3 of this annex begins on the next page)

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PART 3 (Miscellaneous Work (Not phased specific))

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Line	BP		Qty	Column A	Column B	Column B1	Column B2	Column B3	Column C
No.	Code	ITEM'S DESCRIPTIONS	U of I	Qty	Unit Price	Unit Price	Unit Price	Unit Price	Extended
				(Over Contract period)	(Phase A period)	(Year 1)	(Year 2)	(Year 3)	Price
1	21.0	Engineering Support Services (SOW para. 5.4)							
2		When Authorized - for the provision of Engineering Support Services using the following labour categories having the minimum mandatory qualifications as stipulated in contract appendix 4 to annex CA SOW, Canada shall pay the Contractor, the Firm Hourly Rates specified herein:							
3									
4	21.1	Normal business hours:							
5									
6		DESCRIPTION (Labour categories):							
7	21.1.1	ISSE - Intermediate Software System Engineer	Hrs	960	\$				\$
8	21.1.2	ISS - Intermediate Software Specialist	Hrs	600	\$				\$
9	21.1.3	SSTE - Senior Software Test Engineer	Hrs	420	\$				\$
10	21.1.4	ILSS - Intermediate Integrated Logistics Support Specialist	Hrs	600	\$				\$
11	21.1.5	ITS - Intermediate Test Specialist	Hrs	480	\$				\$
12	21.1.6	IST - Intermediate System Technologist	Hrs	720	\$				\$
13	21.1.7	IHE - Intermediate Hardware Engineer	Hrs	360	\$				\$
14	21.1.8	SSE - Senior System Engineer	Hrs	540	\$				\$
15	21.1.9	JSE - Junior System Engineer	Hrs	480	\$				\$
16	21.1.10	ISFE - Intermediate Software/Firmware Engineer	Hrs	720	\$				\$
17	21.1.11	SQS - Senior Quality Specialist	Hrs	120	\$				\$
18									
19	21.1.12	Normal business hours total expected workload	Hrs	6000					
20									
21	21.2	Outside normal business hours (Monday to Friday):							
22		When authorized, Canada shall pay the Contractor the Firm Hourly Rates specified under item 21.1 to this PART 3 plus an overtime premium thereon of							
23									
24	21.2.1	Overtime premium (Monday to Friday)	A number						
25	21.2.2	Expected Overtime Workload	Hrs	900	\$				\$
26									
27	21.3	Outside normal business (Saturday and Sunday):							
28		When authorized, Canada shall pay the Contractor the Firm Hourly Rates specified under item 21.1 to this PART 3 plus an overtime premium thereon of							
29									
30	21.3.1	Overtime premium (Saturday and Sunday)	A number						
31	21.3.2	Expected Overtime Workload	Hrs	900	\$				\$

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22.0 Contractor Furnished Material:

For the authorized supply of hardware, software and other material required for the performance of the Work in connection with item 21.0 to this Part 3, Firm Unit Prices To Be Negotiated (TBN). Price negotiation will be governed by the following:

22.1 Actual cost TBN in accordance with Contract articles 6.7 and 6.8 plus a firm mark-up thereon of:

22.1.1 Contractor Manufactured Parts (CMP)	\$	\$20,000.00	___%	\$	_____
22.1.2 Contractor Acquired Parts (CAP)	\$	\$20,000.00	___%	\$	_____

NOTES: i. Outgoing transportation, to the consignee, is excluded from the application of these mark-ups and shall be charged separately at cost.

23.0 Travel and Living (T&L) expenses:

When Authorized - The Contractor will be reimbursed its travel and living expenses reasonably and properly incurred in the performance of Work in connection with item 21.0 to this Part 3, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the Treasury Board Travel Directive (http://www.tbs-sct.gc.ca/pubs_pol/hrpubs/TBM_113/td-dv_e.asp), and with the other provisions of the directive referring to "travellers", rather than those referring to "employees". All travel must have the prior authorization of the Contracting Authority. All payments are subject to government audit. The estimated cost is:

\$	\$50,000.00	\$50,000.00
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24.0 ISS-A MISCELLANEOUS WORK BID PRICE

\$
GST/HSTE

GSTE/HSTE = Goods and Services Tax or the Harmonized Sales Tax excluded

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APPENDIX 1 (Phase B Optional Quantities)

(The appendix 1 of this annex begins on the next page)

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APPENDIX 1 (Purchase of optional quantities)

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Line No.	ITEM'S DESCRIPTIONS	Qty U of I	Column A Optional Qty (Over contract period)	Column B1 Unit Price (Year 1)	Column B2 Unit Price (Year 2)	Column B3 Unit Price (Year 3)	Column C Extended Price
1	1.0 The purchase of optional Integrated Soldier System (ISS) P(Prod) quantities: (SOW para. 3.3.5)						
2	The ISS P(Prod) performance shall comply with all the technical requirements of this contract. The ISS P(Prod) price must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance and support services for a minimum period of one (1) year.						
3	For the purchase of ISS, on an if, as, and when requested basis, as stipulated in the contract article 4.3, excluding delivery charges, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor in accordance with item 1.0 to APPENDIX 2 (Optional Quantities Discount Factor Table) of this annex. (The Firm Unit Prices to be charged are determined by the order date)						
4							
5	1.7 ISS P(Prod) OPTIONAL BATCHES BID PRICE			See Appendix 2	See Appendix 2	See Appendix 2	\$ _____
6							
7							
8	2.0 The purchase of optional ISS Battery Set and Battery Charger Set quantities:						
9	The ISS Battery Set and Battery Charger Set performance shall comply with all the technical requirements of this contract. The ISS Battery Set and Battery Charger Set must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance for a minimum period of one (1) year.						
10	For the purchase of ISS Battery Set and Battery Charger Set, on an if, as, and when requested basis, as stipulated in the contract article 4.3, excluding delivery charges, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor the current unit price in the column "1 to 100 units - Unit Base Price - (Year x)" multiplied, if required, by a Quantity Discount Factor stipulated in columns 2 to 9 all in APPENDIX 2 (Optional Quantities Discount Factor Table) of this annex. (The Firm Unit Prices to be charged are determined by the order date).						
11							
12	2.5 ISS BATTERY SET & BATTERY CHARGER SET OPTIONAL QUANTITIES BID PRICE			See Appendix 2	See Appendix 2	See Appendix 2	\$ _____
13							
14							
15	3.0 Optional ISS P(Prod) Batches Delivery charges: (Annex CA Statement of Work (SOW) para. 6.7.5 and item 9.1.10 to PART 2 to this annex)						
16	For the cost of delivery of a complete Task Force Batch, as stipulated in Table 2-3-1 to Annex CF, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor the Ceiling Lot Price, upon delivery and acceptance thereon of	Batch	8	\$ _____			\$ _____

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4.0 The purchase of optional Initial Cadre Training (ICT) courses: (Annex CA Statement of Work (SOW) para. 6.6)

For the supply of ICT courses, on an if, as, and when requested basis, in accordance with SOW para. 6.6.2.0-3, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor, upon delivery and acceptance of the serials listed below, Firm Unit Prices as follows:

4.1 English Training:

4.1.1 ICT Operator Instructors Course for 24 students

Serial 8

\$

\$

4.1.2 ICT System Manager Instructors Course for 12 students

Serial 8

\$

\$

4.1.3 ICT Maintainer' Instructors Course for 6 students

Serial 8

\$

\$

4.2 French Training:

4.2.1 ICT Operator Instructors Course for 24 students

Serial 4

\$

\$

4.2.2 ICT System Manager Instructors Course for 12 students

Serial 4

\$

\$

4.2.3 ICT Maintainer' Instructors Course for 6 students

Serial 4

\$

\$

5.0 The purchase of optional Battle Management System (BMS) software on CF Laptop: (SOW para. 3.3.1.1.0-8.0-2.0-3)

The BMS software performance shall comply with all the technical requirements of this contract. The BMS software price must include a warranty with a minimum period of one (1) year followed by Software maintenance and support services for a minimum period of one (1) year.

For the purchase of BMS software, on an if, as, and when requested basis, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor, upon delivery and acceptance, excluding delivery charges, a Firm Unit Price thereon of

Each 108

\$

\$

6.0 ISS-A OPTIONAL PURCHASE BID PRICE:

6.1 ISS-A Optional Purchase Bid Price, before Weighting

.....

\$

6.2 Weighting Factor

A number 0.25

\$

6.3 ISS-A Optional Purchase Bid Price, after Weighting

.....

\$

GSTE/HSTE

7.0 ISS-A WORK TOTAL BID PRICE

.....

\$

(ISS-A WORK TOTAL BID PRICE = Item 7.0 to PART 1 + Item 20.0 to PART 2 + Item 24.0 to PART 3 + Item 6.3 to APPENDIX 1)

GSTE/HSTE

GSTE/HSTE = Goods and Services Tax or the Harmonized Sales Tax excluded

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APPENDIX 2 (Phase B Options Discount Factor Table)

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APPENDIX 2 (Optional Quantities Discount Factor Table)

Last update: February 9, 2013 ISS_A_FBPS_V2.XLS		Column A	Column B1	Column B2	Column B3	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column C	Column C1	
		(For quick reference)	Less than 2 Batches,	Less than 2 Batches,	Less than 2 Batches,	Quantity Discount Factor % = [1 - (% discount)]								Less than 2 Batches,	
		Qty	Unit Base Price	Unit Base Price	Unit Base Price	2 to less than	3 to less than	4 to less than	5 to less than	6 to less than	7 to less than	8 Batches	Extended	Extended	
		U of I	(Items 1.1 to 1.4)	(Year 1)	(Year 2)	(Year 3)	3 Batches	4 Batches	5 Batches	6 Batches	7 Batches	8 Batches and beyond	Price Before discount	Price After discount	
Line No.	ITEM'S DESCRIPTIONS														
1	1.0 The purchase of optional Integrated Soldier System (ISS) P(Prod) quantities:														
2															
	For the purchase of ISS P(Prod) Main Equipment, Accessory Items, Technical Documentation and Support Equipment (Later called "ISS" alone) in quantities of less than 2 complete Batches, Canada shall pay the Contractor the current year "Less than 2 Batches, Unit Base Price", columns B1, B2 or B3. For the purchase of ISS in quantities equal or greater than 2 Batches, Canada shall pay the Contractor, the current year "Less than 2 Batches, Unit Base Price" multiplied by the Quantity Discount Factor opposite to item 1.5 of this appendix corresponding to the quantity (QTY) range, columns 2 to 8 headings, it corresponds to. The discounts are applicable on a per order basis. The discounts are applicable to the purchase of a fraction of a batch or complete batches.														
3															
4	A "Batch" is defined as being a QTY of 628 Integrated Soldier System - Electronics Suite (ISS-ES), see item 1.1.1 below, with sub-items under 1.1 to 1.4 associated in quantities equal to what can be found in column A "One Batch Qty".														
	A fraction of a batch is defined as being an actual QTY purchased of less than 628 ISS-ES, see item 1.1.1 below, with sub-items under 1.1 to 1.4 associated in quantities equal to what can be found in column A "One Batch Qty" multiplied by the actual QTY purchased of ISS-ES divided by 628, rounded up.														
5															
6	1.1 Main Equipment (SOW para. 3.3.1.1.0-6)														
7	1.1.1 Integrated Soldier System - Electronics Suite (ISS-ES) (SOW para. 3.3.1.1.0-6.0-1)	Each													
8	1.1.1.1	Each	628	\$									\$		
9	1.1.1.2	Each	628	\$									\$		
10	1.1.1.3	Each	628	\$									\$		
11	1.1.1.4	Each	628	\$									\$		
12	1.1.1.5	Each	628	\$									\$		
13	1.1.1.6	Each	628	\$									\$		
14	1.1.1.7	Each	628	\$									\$		
15	1.1.1.8	Each	628	\$									\$		
16	1.1.1.9	Each	628	\$									\$		
17	1.1.1.10	Each	628	\$									\$		
18	1.1.1.11	Each	628	\$									\$		
19	1.1.1.12	Each	628	\$									\$		
20	1.1.1.13	Each	628	\$									\$		
21	1.1.1.14	Each	628	\$									\$		
22	1.1.1.15	Each	628	\$									\$		
23	1.1.1.16	Each	628	\$									\$		
24	1.1.1.17	Each	628	\$									\$		
25	1.1.1.18	Each	628	\$									\$		
26	1.1.1.19	Each	628	\$									\$		
27	1.1.1.20	Each	628	\$									\$		
28	1.1.2 Universal Canaophone Set (SOW para. 3.3.1.1.0-6.0-3)	Each	628	\$									\$		

Example 1: A first optional quantity is purchased at the beginning of the second year. The purchase is an incomplete batch with sub-items under item 1.0 associated in quantities equal to what can be found in column A "One Batch Qty" multiplied by the actual QTY of ISS-ES purchased divided by 628, rounded up. At the end of the first year the inflation rate was calculated and applied to the prices under column B1 "Less than 2 Batches, Unit Base Price (Year 1)", to obtain the prices under column B2 "Less than 2 Batches, Unit Base Price (Year 2)". The Contractor will be paid the unit prices as per column B2 "Less than 2 Batches, Unit Base Price (Year 2)".

Example 2: Two months after example 1, a second optional quantity is purchased. The purchase is a complete batch. The Contractor will be paid the unit prices as per column B2 "Less than 2 Batches, Unit Base Price (Year 2)".

Example 3: Two months after example 2, a third optional quantity is purchased. The purchase is two complete batches plus an additional 150 ISS-ES with sub-items under item 1.0 associated in quantities equal to what can be found in column A "One Batch Qty" multiplied by 150 divided by 628, rounded up. The Contractor will be paid the prices under column B2 "Less than 2 Batches, Unit Base Price (Year 2)" multiplied by the Quantity Discount Factor corresponding to the column 2 "2 to less than 3 Batches" opposite to item 1.5 of this appendix.

Example 4: Two months after example 3, a fourth optional quantity is purchased. The purchase is two complete batches plus an additional 628 ISS-ES with two (2) sub-items under item 1.0 to this appendix associated in quantities lower than what can be found in column A "One Batch Qty" multiplied by 628 divided by 628, rounded up. For the two complete batches, the Contractor will be paid the prices under column B2 "Less than 2 Batches, Unit Base Price (Year 2)" multiplied by the Quantity Discount Factor corresponding to the column 2 "2 to less than 3 Batches" opposite to item 1.5. For the remaining equipment, the Contractor will be paid the unit prices as per column B2 "Less than 2 Batches, Unit Base Price (Year 2)".

Examples 1 to 4: In all examples above, the Contractor will check, if any, before invoicing, the exchange rate fluctuation in accordance with the APPENDIX 4 to this annex and recalculate the "Less than 2 Batches, Unit Base Price (Year 2)". See contract article 6.3.

Example 1: A first optional quantity is purchased at the beginning of the second year. The purchase is an incomplete batch with sub-items under item 1.0 associated in quantities equal to what can be found in column A "One Batch Qty" multiplied by the actual QTY of ISS-ES purchased divided by 628, rounded up. At the end of the first year the inflation rate was calculated and applied to the prices under column B1 "Less than 2 Batches, Unit Base Price (Year 1)", to obtain the prices under column B2 "Less than 2 Batches, Unit Base Price (Year 2)". The Contractor will be paid the unit prices as per column B2 "Less than 2 Batches, Unit Base Price (Year 2)".

Example 2: Two months after example 1, a second optional quantity is purchased. The purchase is a complete batch. The Contractor will be paid the unit prices as per column B2 "Less than 2 Batches, Unit Base Price (Year 2)".

Example 3: Two months after example 2, a third optional quantity is purchased. The purchase is two complete batches plus an additional 150 ISS-ES with sub-items under item 1.0 associated in quantities equal to what can be found in column A "One Batch Qty" multiplied by 150 divided by 628, rounded up. The Contractor will be paid the prices under column B2 "Less than 2 Batches, Unit Base Price (Year 2)" multiplied by the Quantity Discount Factor corresponding to the column 2 "2 to less than 3 Batches" opposite to item 1.5 of this appendix.

Example 4: Two months after example 3, a fourth optional quantity is purchased. The purchase is two complete batches plus an additional 628 ISS-ES with two (2) sub-items under item 1.0 to this appendix associated in quantities lower than what can be found in column A "One Batch Qty" multiplied by 628 divided by 628, rounded up. For the two complete batches, the Contractor will be paid the prices under column B2 "Less than 2 Batches, Unit Base Price (Year 2)" multiplied by the Quantity Discount Factor corresponding to the column 2 "2 to less than 3 Batches" opposite to item 1.5. For the remaining equipment, the Contractor will be paid the unit prices as per column B2 "Less than 2 Batches, Unit Base Price (Year 2)".

Examples 1 to 4: In all examples above, the Contractor will check, if any, before invoicing, the exchange rate fluctuation in accordance with the APPENDIX 4 to this annex and recalculate the "Less than 2 Batches, Unit Base Price (Year 2)". See contract article 6.3.

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29	1.1.3	ISS Battery Sets: (SOW para. 3.3.1.1.0-6.0-5)					
30	1.1.3.1	ISS Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-2)					
31		(NOT APPLICABLE)					
32							
33	1.1.3.2	ISS Non-Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-1)	Each	2512			
34	1.1.3.2.1	(Power Domain 1) Non-Rechargeable Battery Set:					
35	1.1.3.2.1.1	Power Domain Non-Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-2)					
36	1.1.3.2.1.1.1	Battery (Type)	Each		\$		\$
37	1.1.3.2.1.1.2	Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)	Each		\$		\$
38	1.1.3.2.1.2	Quantity of Power Domain Non-Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-3)	Each				
39							
40	1.1.3.2.2	(Power Domain 2) Non-Rechargeable Battery Set:					
41	1.1.3.2.2.1	Power Domain Non-Rechargeable Battery Pack:					
42	1.1.3.2.2.1.1	Battery (Type)	Each		\$		\$
43	1.1.3.2.2.1.2	Battery Loading/Storage Device	Each		\$		\$
44	1.1.3.2.2.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each				
45							
46	1.1.3.2.3	(Power Domain 3) Non-Rechargeable Battery Set:					
47	1.1.3.2.3.1	Power Domain Non-Rechargeable Battery Pack:					
48	1.1.3.2.3.1.1	Battery (Type)	Each		\$		\$
49	1.1.3.2.3.1.2	Battery Loading/Storage Device	Each		\$		\$
50	1.1.3.2.3.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each				
51							
52	1.1.3.2.4	(Power Domain 4) Non-Rechargeable Battery Set:					
53	1.1.3.2.4.1	Power Domain Non-Rechargeable Battery Pack:					
54	1.1.3.2.4.1.1	Battery (Type)	Each		\$		\$
55	1.1.3.2.4.1.2	Battery Loading/Storage Device	Each		\$		\$
56	1.1.3.2.4.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each				
57							
58	1.1.3.2.5	(Power Domain 5) Non-Rechargeable Battery Set:					
59	1.1.3.2.5.1	Power Domain Non-Rechargeable Battery Pack:					
60	1.1.3.2.5.1.1	Battery (Type)	Each		\$		\$
61	1.1.3.2.5.1.2	Battery Loading/Storage Device	Each		\$		\$
62	1.1.3.2.5.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each				

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64	1.1.4	Modular Load Carriage System (MLCS): (SOW para. 3.3.1.1.0-6.0-7)							
65	1.1.4.1	MLCS Platform (Small size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	572	\$				\$
66	1.1.4.2	MLCS Platform (Medium size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	244	\$				\$
67	1.1.4.3	MLCS ISS Pouch Set: (SOW para. 3.3.1.1.0-6.0-7.0-2)							
68	1.1.4.3.1		Each	628	\$				\$
69	1.1.4.3.2		Each	628	\$				\$
70	1.1.4.3.3		Each	628	\$				\$
71	1.1.4.3.4		Each	628	\$				\$
72	1.1.4.3.5		Each	628	\$				\$
73	1.1.4.3.6		Each	628	\$				\$
74	1.1.4.3.7		Each	628	\$				\$
75	1.1.4.3.8		Each	628	\$				\$
76	1.1.4.3.9		Each	628	\$				\$
77	1.1.4.3.10		Each	628	\$				\$
78	1.2	Accessory Items: (SOW para. 3.3.1.1.0-7)							
79	1.2.1	DAGR Interface Cable (SOW para. 3.3.1.1.0-7.0-1)	Each	130	\$				\$
80	1.2.2	CORAL-CR-C Interface Cable (SOW para. 3.3.1.1.0-7.0-2)	Each	40	\$				\$
81	1.2.3	LCSS Radio Interface Cable Set (SOW para. 3.3.1.1.0-7.0-3)							
82	1.2.3.1		Each	130	\$				\$
83	1.2.3.2		Each	130	\$				\$
84	1.2.3.3		Each	130	\$				\$
85	1.2.3.4		Each	130	\$				\$
86	1.2.3.5		Each	130	\$				\$
87	1.2.3.6		Each	130	\$				\$
88	1.2.3.7		Each	130	\$				\$
89	1.2.3.8		Each	130	\$				\$
90	1.2.3.9		Each	130	\$				\$
91	1.2.3.10		Each	130	\$				\$
92	1.3	Technical documentation: (SOW para. 3.3.1.1.0-8.0-1)							
93	1.3.1	Original copy:							
94		(SEE ITEM 9.1.13 TO PART 2 TO THIS ANNEX)							
95	1.3.2	Additional copy:							
96	1.3.2.1	ISS-S User Manual - Bilingual	Each	628	\$				\$
97	1.3.2.2	ISS-S Technical Manual - Bilingual	Each	20	\$				\$
98	1.3.2.3	ISS-S Quick Reference Manual - Bilingual	Each	628	\$				\$
99	1.4	Support Equipment: (SOW para. 3.3.1.1.0-8.0-2)							
100	1.4.1	Recommended Support Equipment: (SOW para. 3.3.1.1.0-8.0-2.0-1)							
101		(SEE ITEM 15.0 TO PART 2 TO THIS ANNEX)							
102	1.4.2	System Executive Planning Suite (SEP-S) software (SOW para. 3.3.1.1.0-8.0-2.0-2)	Each	9	\$				\$
103	1.4.3	Battle Management System (BMS) software on CF Laptop (SOW para. 3.3.1.1.0-8.0-2.0-3)	Each	20	\$				\$
104	1.4.4	Battery Charger Set: (SOW para. 3.3.1.1.0-8.0-2.0-4)							
105		(NOT APPLICABLE)							
106									
107	1.5	Quantity Discount Factor % for ISS P(Prod) quantities equal or greater than 2 Batches (Quantity Discount Factor % = [1 - (% discount)])				%	%	%	%
108									
109	1.6	ISS P(Prod) OPTIONAL BATCH BID PRICE (for ISS P(Prod) in quantity of less than 2 batches)							\$
110	1.7	ISS P(Prod) OPTIONAL BATCHES BID PRICE	Batch	8					\$
111									GSTE/HSTE
112	GSTE/HSTE =	Goods and Services Tax or the Harmonized Sales Tax excluded							

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ISS-A FINANCIAL BID PRESENTATION SHEET
APPENDIX 2 (Optional Quantities Discount Factor Table) (Cont'd)

Note: The Column 1 does not exist.																
		Column A	Column B1	Column B2	Column B3	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column C	Column C1	
Last update: February 9, 2013 ISS_A_FBPS_V2.XLS				1 to 100 units	1 to 100 units	1 to 100 units	Quantity Discount Factor % = [1 - (% discount)]								Extended	Extended
Line No.	ITEM'S DESCRIPTIONS	Qty U of I	Up to Qty	Unit Base Price (Year 1)	Unit Base Price (Year 2)	Unit Base Price (Year 3)	101 to 200 units	201 to 400 units	401 to 800 units	801 to 1600 units	1601 to 3200 units	3201 to 6400 units	6401 to 12800 units	12801 and greater units	Price before discount	Price after discount
1	2.0 The purchase of optional ISS Battery Set and Battery Charger Set quantities:															
2	For the purchase of ISS Battery Set and Battery Charger Set in quantities of 100 or less, Canada shall pay the Contractor, the contract current year "1 to 100 units, Unit Base Price", columns B1, B2 or B3. For the purchase of units in quantities greater than 100, Canada shall pay the Contractor, the contract current year "1 to 100 units, Unit Base Price" multiplied by the Quantity Discount Factor corresponding to the quantity (QTY) range, columns 2 to 9, it corresponds to. The discounts are applicable on a per order basis.															
3																
4	2.1 Main Equipment: (SOW para. 3.3.1.1.0-6)															
5	2.1.1 (NOT APPLICABLE)															
6	2.1.2 (NOT APPLICABLE)															
7	2.1.3 ISS Battery Sets: (SOW para. 3.3.1.1.0-6.0-5)															
8	2.1.3.1 ISS Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-2)	Each	6280													
9	2.1.3.1.1 (Power Domain 1) Rechargeable Battery Set:															
10	2.1.3.1.1.1 Power Domain Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-4)															
11	2.1.3.1.1.1.1 Battery (Type)	Each	—	\$			—%	—%	—%	—%	—%	—%	—%	—%	\$	
12	2.1.3.1.1.1.2 Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)	Each	—	\$			—%	—%	—%	—%	—%	—%	—%	—%	\$	
13	2.1.3.1.1.2 Quantity of Power Domain Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-5)	Each	—													
14																
15	2.1.3.1.2 (Power Domain 2) Rechargeable Battery Set:															
16	2.1.3.1.2.1 Power Domain Rechargeable Battery Pack:															
17	2.1.3.1.2.1.1 Battery (Type)	Each	—	\$			—%	—%	—%	—%	—%	—%	—%	—%	\$	
18	2.1.3.1.2.1.2 Battery Loading/Storage Device	Each	—	\$			—%	—%	—%	—%	—%	—%	—%	—%	\$	
19	2.1.3.1.2.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—													
20																
21	2.1.3.1.3 (Power Domain 3) Rechargeable Battery Set:															
22	2.1.3.1.3.1 Power Domain Rechargeable Battery Pack:															
23	2.1.3.1.3.1.1 Battery (Type)	Each	—	\$			—%	—%	—%	—%	—%	—%	—%	—%	\$	
24	2.1.3.1.3.1.2 Battery Loading/Storage Device	Each	—	\$			—%	—%	—%	—%	—%	—%	—%	—%	\$	
25	2.1.3.1.3.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—													
26																
27	2.1.3.1.4 (Power Domain 4) Rechargeable Battery Set:															
28	2.1.3.1.4.1 Power Domain Rechargeable Battery Pack:															
29	2.1.3.1.4.1.1 Battery (Type)	Each	—	\$			—%	—%	—%	—%	—%	—%	—%	—%	\$	
30	2.1.3.1.4.1.2 Battery Loading/Storage Device	Each	—	\$			—%	—%	—%	—%	—%	—%	—%	—%	\$	
31	2.1.3.1.4.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—													
32																
33	2.1.3.1.5 (Power Domain 5) Rechargeable Battery Set:															
34	2.1.3.1.5.1 Power Domain Rechargeable Battery Pack:															
35	2.1.3.1.5.1.1 Battery (Type)	Each	—	\$			—%	—%	—%	—%	—%	—%	—%	—%	\$	
36	2.1.3.1.5.1.2 Battery Loading/Storage Device	Each	—	\$			—%	—%	—%	—%	—%	—%	—%	—%	\$	
37	2.1.3.1.5.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—													

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APPENDIX 3 (Parts 2 & 3's Claim for Exchange Rate Adjustments)

(The appendix 3 of this annex begins on the next page)

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ISS-A FINANCIAL BID PRESENTATION SHEET
APPENDIX 3 (PARTS 2 & 3's Claim for Exchange Rate Adjustments)

Last update: February 9, 2013 ISS_A_FBPS_V2.XLS		Column D1	Column D2	Column D3	Column E	Column F Conversion Factor (Initial)	Column G1	Column G2	Column G3	Column B1	Column B2	Column B3
Line No.	ITEM'S DESCRIPTIONS	Unit Price in foreign currency (Year 1)	(Year 2)	(Year 3)	Currency		Price in CAN Funds (Year 1)	(Year 2)	(Year 3)	Basis of payment's Unit Price (Year 1)	(Year 2)	(Year 3)
1	13.0 Integrated Soldier System (ISS) P(Prod) version:											
2												
3	13.1 Main Equipment:											
4	13.1.1 Integrated Soldier System - Electronics Suite (ISS-ES)											
5	13.1.1.1 (ISS-ES Line-Replaceable Unit (LRU) 1)											
6	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00			\$5.19		
7	b) Foreign Currency Components (FCC):											
8	i) US dollars	\$1.00			USD	1.0199	\$1.02					
9	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
10	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
11	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
12	13.1.1.x (ISS-ES LRU x)											
13	...											
14	13.1.2 Universal Canaphone Set											
15	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00			\$5.19		
16	b) Foreign Currency Components (FCC):											
17	i) US dollars	\$1.00			USD	1.0199	\$1.02					
18	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
19	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
20	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
21	13.1.3 ISS Battery Sets:											
22	13.1.3.1 ISS Rechargeable Battery Set:											
23	13.1.3.1.1 (Power Domain 1) Rechargeable Battery Set:											
24	13.1.3.1.1.1 Power Domain Rechargeable Battery Pack:											
25	13.1.3.1.1.1.1 Battery (Type)											
26	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00			\$5.19		
27	b) Foreign Currency Components (FCC):											
28	i) US dollars	\$1.00			USD	1.0199	\$1.02					
29	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
30	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
31	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
32	13.1.3.1.1.1.2 Battery Loading/Storage Device											
33	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00			\$5.19		
34	b) Foreign Currency Components (FCC):											
35	i) US dollars	\$1.00			USD	1.0199	\$1.02					
36	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
37	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
38	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
39	13.1.3.1.x (Power Domain x) Rechargeable Battery Set:											
40	...											
41	13.1.3.2 ISS Non-Rechargeable Battery Set:											
42	...											
43	13.1.4 ETC...											

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APPENDIX 4 (Appendices 1 & 2's Claim for Exchange Rate Adjustments)

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APPENDIX 4 (APPENDICES 1 & 2's Claim for Exchange Rate Adjustments)

Last update: February 9, 2013 ISS_A_FBPS_V2.XLS		Column D1	Column D2	Column D3	Column E	Column F Conversion Factor (Initial)	Column G1	Column G2	Column G3	Column B1	Column B2	Column B3
Line No.	ITEM'S DESCRIPTIONS	Unit Price in foreign currency (Year 1)	(Year 2)	(Year 3)	Currency		Price in CAN Funds (Year 1)	(Year 2)	(Year 3)	Basis of payment's Unit Price (Year 1)	(Year 2)	(Year 3)
1	1.0 Integrated Soldier System (ISS) P(Prod) version:											
2												
3	1.1 Main Equipment:											
4	1.1.1 Integrated Soldier System - Electronics Suite (ISS-ES)											
5	1.1.1.1 (ISS-ES Line-Replaceable Unit (LRU) 1)											
6	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00			\$5.19		
7	b) Foreign Currency Components (FCC):											
8	i) US dollars	\$1.00			USD	1.0199	\$1.02					
9	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
10	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
11	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
12	1.1.1.x (ISS-ES LRU x)											
13	...											
14	1.1.2 Universal Canalphone Set											
15	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00			\$5.19		
16	b) Foreign Currency Components (FCC):											
17	i) US dollars	\$1.00			USD	1.0199	\$1.02					
18	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
19	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
20	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
21	1.1.3 ISS Battery Sets:											
22	1.1.3.1 ISS Rechargeable Battery Set:											
23	1.1.3.1.1 (Power Domain 1) Rechargeable Battery Set:											
24	1.1.3.1.1.1 Power Domain Rechargeable Battery Pack:											
25	1.1.3.1.1.1.1 Battery (Type)											
26	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00			\$5.19		
27	b) Foreign Currency Components (FCC):											
28	i) US dollars	\$1.00			USD	1.0199	\$1.02					
29	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
30	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
31	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
32	1.1.3.1.1.1.2 Battery Loading/Storage Device											
33	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00			\$5.19		
34	b) Foreign Currency Components (FCC):											
35	i) US dollars	\$1.00			USD	1.0199	\$1.02					
36	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
37	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
38	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
39	1.1.3.1.x (Power Domain x) Rechargeable Battery Set:											
40	...											
41	1.1.3.2 ISS Non-Rechargeable Battery Set:											
42	...											
43	1.1.4 ETC...											

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Annex AC to Volume 2 Security Requirement Check List (SRCL);



Government
of Canada

Gouvernement
du Canada

Contract Number / Numéro du contrat

W8476112965/001/RA - Amdmt #1

Security Classification / Classification de sécurité
UNCLASS

SECURITY REQUIREMENTS CHECK LIST (SRCL) LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)

PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE		
1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine National Defence	2. Branch or Directorate / Direction générale ou Direction ADM(MATY/DGLEPM/DSSPM)	
3. a) Subcontract Number / Numéro du contrat de sous-traitance	3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant	
4. Brief Description of Work / Brève description du travail Under the subject contract, the Contractor will be required to complete the design, development and qualification of an Integrated Soldier System (ISS) and enabling systems. The ISS is an integrated Command, Control and Communication system which will include soldier-portable devices such as small form factor computer, tactical radio, GPS, and navigation capability, tactical display, headset and power sub-system. The equipment will be mounted on a modular load-carriage vest. Following successful qualification of the ISS, the contractor will be required to produce and deliver between qtr 1000 and 10000 ISS.		
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
6. Indicate the type of access required / Indiquer le type d'accès requis		
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? (Specify the level of access using the chart in Question 7. c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c)	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé.	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
6. c) Is this a commercial courier or delivery requirement with no overnight storage? S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès		
Canada <input checked="" type="checkbox"/>	NATO / OTAN <input checked="" type="checkbox"/>	Foreign / Étranger <input checked="" type="checkbox"/>
7. b) Release restrictions / Restrictions relatives à la diffusion		
No release restrictions / Aucune restriction relative à la diffusion <input checked="" type="checkbox"/>	All NATO countries / Tous les pays de l'OTAN <input checked="" type="checkbox"/>	No release restrictions / Aucune restriction relative à la diffusion <input checked="" type="checkbox"/>
Not releasable / À ne pas diffuser <input checked="" type="checkbox"/>	Restricted to: / Limité à: <input type="checkbox"/>	Restricted to: / Limité à: <input type="checkbox"/>
Specify country(ies): / Préciser le(s) pays: Canada and USA	Specify country(ies): / Préciser le(s) pays:	Specify country(ies): / Préciser le(s) pays:
7. c) Level of information / Niveau d'information		
PROTECTED A / PROTÉGÉ A <input checked="" type="checkbox"/>	NATO UNCLASSIFIED / NATO NON CLASSIFIÉ <input checked="" type="checkbox"/>	PROTECTED A / PROTÉGÉ A <input checked="" type="checkbox"/>
PROTECTED B / PROTÉGÉ B <input checked="" type="checkbox"/>	NATO RESTRICTED / NATO DIFFUSION RESTREINTE <input type="checkbox"/>	PROTECTED B / PROTÉGÉ B <input checked="" type="checkbox"/>
PROTECTED C / PROTÉGÉ C <input type="checkbox"/>	NATO CONFIDENTIAL / NATO CONFIDENTIEL <input type="checkbox"/>	PROTECTED C / PROTÉGÉ C <input type="checkbox"/>
CONFIDENTIAL / CONFIDENTIEL <input checked="" type="checkbox"/>	NATO SECRET <input type="checkbox"/>	CONFIDENTIAL / CONFIDENTIEL <input checked="" type="checkbox"/>
SECRET <input checked="" type="checkbox"/>	COSMIC TOP SECRET <input type="checkbox"/>	SECRET <input checked="" type="checkbox"/>
TOP SECRET <input type="checkbox"/>	COSMIC TRÈS SECRET <input type="checkbox"/>	TOP SECRET <input type="checkbox"/>
TRÈS SECRET <input type="checkbox"/>		TRÈS SECRET <input type="checkbox"/>
TOP SECRET (SIGINT) <input type="checkbox"/>		TOP SECRET (SIGINT) <input type="checkbox"/>
TRÈS SECRET (SIGINT) <input type="checkbox"/>		TRÈS SECRET (SIGINT) <input type="checkbox"/>

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Security Classification / Classification de sécurité
UNCLASS

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Government
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du Canada

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PART A (continued) / PARTIE A (suite)

8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS? ☐ No ☒ Yes
If Yes, indicate the level of sensitivity:
Dans l'affirmative, indiquer le niveau de sensibilité : Secret

9. Will the supplier require access to extremely sensitive INFOSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate? ☒ No ☐ Yes

Short Title(s) of material / Titre(s) abrégé(s) du matériel :

Document Number / Numéro du document :

PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)

10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis

<input type="checkbox"/> RELIABILITY STATUS COTE DE FIABILITÉ	<input type="checkbox"/> CONFIDENTIAL CONFIDENTIEL	<input checked="" type="checkbox"/> SECRET SECRET	<input type="checkbox"/> TOP SECRET TRÈS SECRET
<input type="checkbox"/> TOP SECRET- SIGINT TRÈS SECRET - SIGINT	<input type="checkbox"/> NATO CONFIDENTIAL NATO CONFIDENTIEL	<input type="checkbox"/> NATO SECRET NATO SECRET	<input type="checkbox"/> COSMIC TOP SECRET COSMIC TRÈS SECRET
<input type="checkbox"/> SITE ACCESS ACCÈS AUX EMPLACEMENTS			

Special comments:

Commentaires spéciaux :

NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided.

REMARQUE : Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.

10. b) May unscreened personnel be used for portions of the work?
Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail? ☐ No ☒ Yes
If Yes, will unscreened personnel be escorted?
Dans l'affirmative, le personnel en question sera-t-il escorté? ☐ No ☒ Yes

PART C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)

INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS

11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises?
Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS? ☐ No ☒ Yes

11. b) Will the supplier be required to safeguard COMSEC information or assets?
Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC? ☐ No ☒ Yes

PRODUCTION

11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises?
Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ? ☒ No ☐ Yes

INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)

11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data?
Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS? ☒ No ☐ Yes

11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency?
Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale? ☒ No ☐ Yes

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PART C - (continued) / PARTIE C - (suite)

For users completing the form manually use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.
Les utilisateurs qui remplissent le formulaire manuellement doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form online (via the Internet), the summary chart is automatically populated by your responses to previous questions.
Dans le cas des utilisateurs qui remplissent le formulaire en ligne (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

SUMMARY CHART / TABLEAU RÉCAPITULATIF

Category Catégorie	PROTECTED PROTÉGÉ			CLASSIFIED CLASSIFIÉ			NATO				COMSEC					
	A	B	C	CONFIDENTIAL CONFIDENTIEL	SECRET	TOP SECRET TRÈS SECRET	NATO RESTRICTED NATO DIFFUSION RESTREINTE	NATO CONFIDENTIAL NATO CONFIDENTIEL	NATO SECRET	COSMIC TOP SECRET COSMIC TRÈS SECRET	PROTECTED PROTÉGÉ			CONFIDENTIAL CONFIDENTIEL	SECRET	TOP SECRET TRÈS SECRET
											A	B	C			
Information / Assets Renseignements / Biens Production					✓										✓	
IT Media / Support TI																
IT Link / Lien électronique																

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?
La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?

☒ No
Non ☐ Yes
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée
« Classification de sécurité » au haut et au bas du formulaire.

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?
La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?

☒ No
Non ☐ Yes
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée
« Classification de sécurité » au haut et au bas du formulaire et indiquez qu'il y a des pièces jointes (p. ex. SECRET avec
des pièces jointes).

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Security Classification / Classification de sécurité
UNCLASS

Canada

ANNEX AD to Volume 2

NON-DISCLOSURE AGREEMENT

INTEGRATED SOLDIER SYSTEM PROJECT (ISSP)

This Agreement made in duplicate this _____ day of _____ 201__.

(Day number) (Month) (Year)

BETWEEN Her Majesty the Queen in Right of Canada as Represented by the Minister of Public Works and Government Services (the "Crown")

AND _____ receiving the unclassified
(Full legal name of organization in print)
information as constituted pursuant to the laws of _____ and having a
(Insert laws in print)
place of business at _____ (the "Recipient").
(Complete address in print)

Whereas the Crown has issued a Contract No. W8476-112965/001/RA, to supply for Integrated Soldier Systems;

Whereas in accordance with the provisions of the Contract the Crown has provided for the disclosure of certain information listed in appendix 1 of this Non-disclosure Agreement ("Information"); and

Whereas the Recipient wishes to receive the Information solely for the purpose of executing the Contract;

Therefore, in consideration of the premises and the mutual promises, conditions and agreements of this Agreement the Parties hereto agree as follows:

1. Subject to the terms and conditions of this Agreement the Crown agrees to disclose the Information to the Recipient on an as requested basis.
2. The Recipient agrees that it shall use the Information solely for the purpose of executing the Contract and for no other purpose.
3. The Recipient acknowledges that the Information may be subject to certain proprietary rights belonging to various parties and shall not be used by the Recipient or disclosed to anyone at anytime except for the purposes of, and in accordance with, this Agreement and for no other purpose and shall ensure that its personnel do likewise.

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4. The Recipient shall not disclose the Information to anyone unless and until the proposed recipient has signed an agreement in terms identical to this Agreement with the necessary changes to reflect names, addresses, offices and the like. Such disclosure shall be made only to a recipient with a need to know and solely for the purposes of executing the Contract.
5. The Recipient shall not copy, reproduce or otherwise duplicate the Information or any information reflecting the Information in whole or in part or allow others to do so for any purposes other than the execution of the Contract unless the Crown has given its express, prior, written approval.
6. Whether in storage or in use, the information shall be protected by the Recipient with the same degree of care as the Recipient uses to protect its own proprietary intellectual property of like importance against public disclosure, but in no case any less than reasonable care.
7. The Recipient shall return the Information when it is no longer required for the execution of the Contract, when required by the Crown to do so. In like fashion the Recipient shall return any copies it may have been allowed to make which are in a media that is capable of being sent following expiration of the Contract, shall destroy any other copies or any information reflecting the Information on any media whatsoever, and shall ensure that anyone to whom the Information has been divulged do likewise.
8. The obligations herein contained shall survive the expiration of the Contract and shall continue thereafter in full force and effect.
9. This Agreement shall be interpreted, and the relationship of the parties be determined, in accordance with the laws in force in the province of _____ *(NOTE: Bidders may, at their discretion, choose the applicable laws of a Canadian province or territory of their choice)* in Canada.

IN WITNESS THEREOF, this Agreement has been executed by duly authorized officers of

(Name of Recipient in print)

(NOTE: Insert name of recipient in print)

Per: _____
(Name of duly authorized officer in print)

(Signature of duly authorized officer)

(Title of duly authorized officer in print)

(Date in print)

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NON-DISCLOSURE AGREEMENT

INTEGRATED SOLDIER SYSTEM PROJECT (ISSP)

Appendix 1

Applicable Document Reference Listing

<u>Item</u>	<u>Reference</u>	<u>Title</u>
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MODULE B

TO

VOLUME 2

ANNEX BA to Volume 2

Industrial and Regional Benefits (IRB) Contract

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6. Technology and Skills Cooperation
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8. Third Party Investments/Venture Capital Funds for Small Business
9. Investments made into Consortium
10. Indirect Transactions
11. Direct IRB Transactions
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16. Banking
17. Import Replacements
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1. Definitions

1.1. For the purpose of this Part, unless the context otherwise requires, the following definitions apply:

- 1.1.1. "Achieve", "Achieved", or "Achievement" in relation to any Commitment for Industrial and Regional Benefits (IRB), means the accomplishment of all or any part of an IRB Commitment;
- 1.1.2. "Achievement Period" or "IRB Achievement Period" means the period commencing on May 29, 2009 and ending six (6) years following the Effective Date of this Contract;
- 1.1.3. "Banked IRB Transaction" means an IRB Transaction that resides in the IRB Bank that has been approved in writing by the IRB Authority and has met the IRB Eligibility Criteria of Causality, Incrementality, Canadian Content Value and Eligible Party;
- 1.1.4. "Canadian Company" or "Canadian Corporation" means a commercial enterprise that is resident and operating in Canada and incorporated, registered or recognized as such, under federal or provincial legislation and which has ongoing business activities in Canada;
- 1.1.5. "Canadian Content Value" or "CCV" is as described in Article 4, Canadian Content Value;
- 1.1.6. "Capitalization" means the total value of a company's issued shares plus the value associated with instruments which can be converted into shares. For publicly traded companies, this is equal to the total number of issued shares multiplied by the market price plus the equity portion of any derivative instrument according to Canadian Generally Accepted Accounting Principles. For privately held companies, this is equal to the total number of issued shares multiplied by the most recent price at which they were sold plus the equity portion of any derivative instrument according to Canadian Generally Accepted Accounting Principles;
- 1.1.7. "Causality" means the criteria of the IRB Policy which stipulates that a proposed work package or "IRB Transaction" was brought about by an IRB Obligation to Canada as set forth in Article 5, Eligibility Criteria for IRB Transactions;
- 1.1.8. "Commitment" or "IRB Commitment" means the Contractor's contractual obligation to achieve the CCV for IRB Transactions as set forth in Article 2, Statement of Work: IRB Commitments and Responsibilities;
- 1.1.9. "Consortium" or "Consortia" means a public-private partnership established with the intent of undertaking activities related to research and development, and which shall meet the criteria set out in Article 9, Investments made to Consortium;
- 1.1.10. "Designated Regions of Canada" means the following regions: the "Atlantic Region", consisting of the Provinces of Newfoundland and Labrador, Prince Edward Island, New Brunswick and Nova Scotia; the "Quebec Region", consisting of the Province of Quebec; the "Northern Ontario Region", consisting of that part of the Province of Ontario northward from the southern limits of Nipissing and Parry Sound Districts and west of the Ottawa River; and the "Western Region", consisting of the Provinces of Manitoba, Alberta, Saskatchewan, and British Columbia;
- 1.1.11. "Direct IRB Transaction", "Direct" or "Direct IRB" means an IRB Transaction that is entered into for the performance of any part of the Work under this Contract, and includes work on approved Global Value Chain (GVC) platforms as defined in Article 1.1.15;

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- 1.1.12. "Eligibility Criteria" means those criteria, as defined in Article 5, Eligibility Criteria for IRB Transactions, which a proposed IRB Transaction shall meet in order to be accepted by the IRB Authority;
- 1.1.13. "Eligible Party" means the provider of the IRB, and consists of: the contractor, its parent corporation, and all its subsidiaries, divisions and subdivisions; and first tier suppliers related to the performance of any part of the Work under this Contract. Canadian companies (including first-tier suppliers) with less than 500 employees will not be accepted as Eligible Parties unless otherwise approved by the IRB Authority.
- 1.1.14. "Enhanced Priority Technology List" or "EPTL" refers to the list attached as Appendix BA4 which identifies the technologies required by Canada that meet the long-term needs of the Department of National Defence
- 1.1.15. "Global Value Chain" means a platform which is similar to the platform being proposed for the Integrated Soldier System Project and has a market potential (measured by market size and longevity) equal to or greater than the platform proposed for the Integrated Soldier System Project and offers significant opportunities for technological advancement, growth in the level of system integration, small and medium-sized business (SMB) participation, and have large-scale and sustainable acquisition and/or sustainment opportunities.
- 1.1.16. "Import Replacement" refers to the production/manufacture of a good or the provision of a service in Canada that was formerly manufactured or provided from off-shore sources of supply;
- 1.1.17. "Incrementality" refers to the Eligibility Criteria outlined in Article 5.3, Eligibility Criteria for IRB Transactions which stipulates that an indirect IRB activity must include new work, over and above a baseline of similar previous business activity undertaken by the Contractor with the recipient;
- 1.1.18. "Indirect IRB Transaction", "Indirect", or "Indirect IRB" means an IRB Transaction that is entered into for a business activity unrelated to the performance of any part of the Work under this Contract;
- 1.1.19. "Industrial and Regional Benefit" or "IRB" or "IRB Transaction" means a commercial or business activity that is carried out by means of a contract, including any purchase order, sales agreement, license agreement, letter of agreement or other similar instrument in writing, that has an identified dollar value, meets the Eligibility Criteria set forth in this Contract and has been approved by the IRB Authority;
- 1.1.20. "IRB Authority" means the Minister of Industry or any other person designated by the Minister of Industry to act on the Minister's behalf. The IRB Authority is responsible for evaluating, monitoring, verifying and accepting IRB, and for assessing the Contractor's IRB performance under this Contract;
- 1.1.21. "IRB Credit" or "Credit" in relation to any IRB Commitment, means the Written Notice by the IRB Authority that an IRB has been achieved in whole or in part and that the Contractor's obligation has to that extent been fulfilled;
- 1.1.22. "IRB Investment" means an IRB Transaction which consists of an investment within Canada of a verifiable amount of money which fosters the production of goods or the performance of services by Canadian citizens or permanent residents as defined in the Immigration and

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Refugee Protection Act 2001, c.27, and which shall meet the criteria set forth in Article 7, Investment in Canada;

- 1.1.23. "IRB Plans" means the Contractor prepared IRB Plans which form part of this Contract: IRB Management Plan, dated _____ **(to be inserted from Contractor's proposal)**, bearing reference number _____ **(to be inserted from Contractor's proposal)**; IRB Regional Development Plan, dated _____ **(to be inserted from Contractor's proposal)**, bearing reference number _____ **(to be inserted from Contractor's proposal)**; and Small and Medium Business Development Plan, dated _____ **(to be inserted from Contractor's proposal)**, bearing reference number _____ **(to be inserted from Contractor's proposal)**;
- 1.1.24. "IRB Reporting Period" or "Reporting Period" means: Period 1, commencing on the first day of the IRB Achievement Period and ending on the last day of the twelfth month after contract award and a consecutive twelve month increment following Period 1 (Periods 2,3, etc) until the end of the IRB Achievement Period;
- 1.1.25. "Major Obligor" means a company which holds contractual commitments for IRB Obligations in Canada in excess of \$1 billion;
- 1.1.26. "Mutual Abatement" or "IRB swap" means a reduction of the Contractor's IRB Obligation in exchange for the reduction of a Canadian company's obligations to a foreign offset authority;
- 1.1.27. "Over-achievement" in relation to any IRB Commitment, means the degree or amount by which the Contractor's IRB Credit measured in terms of CCV, granted during the IRB Achievement Period for an IRB Transaction is greater than the IRB Commitment for that IRB Transaction;
- 1.1.28. "Pooling" refers to combining IRB Obligations so that an IRB credit achieved on a single IRB Transaction may be applied over several discrete IRB Obligations;
- 1.1.29. "Shortfall" in relation to any IRB Commitment, means the CCV amount by which the Contractor fails to achieve its Commitment in the IRB Reporting Periods;
- 1.1.30. "Small and Medium Business" or "SMB" means a Canadian-based, independently-owned and operated manufacturer or service company with fewer than 250 full-time personnel as of the date of entering into an eligible IRB Transaction. Agents and distributors of foreign goods and services as well as subsidiaries of large firms do not qualify as Small and Medium Business;
- 1.1.31. "Semi-processed Goods" means goods converted from their natural state of a raw material through the use of a specialized process into a state of readiness for use or assembly into a final product.
- 1.1.32. "Strategic Plan" means a document which describes the Contractor's broad corporate business development plans for Canada and how these plans may translate into strategic IRB activities, as set forth in Article 12, Strategic Plans;
- 1.1.33. "Technology Cooperation," "Technology and Skills Cooperation", "IRB Technology Cooperation" and "Technology Transfer" consists of the granting of a license, and the transmission of a usable body of knowledge to a Canadian company. Technology Cooperation has no imputed value based on development, but is measured in CCV of future sales resulting from the cooperation output by the IRB Recipient and shall meet the criteria set forth in Article 6, Technology and Skills Cooperation;

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- 1.1.34. "Venture Capital Fund" or "VCF" means a pooled group of investments directed at assisting the growth of Canadian Small Businesses and which is managed by a third party and which shall meet the criteria set forth in Article 8, Third Party Investments/Venture Capital Funds for Small Business;
- 1.1.35. "World Product Mandate" means a long term supplier relationship between the Contractor or an Eligible Party and a Canadian company whereby the Canadian company has been legally authorized to carry out and has sole responsibility for specific activities including the design, development, intellectual property, manufacture and marketing related to the supply of products, components, modules or services destined for the domestic and world markets. The CCV of the product is calculated as described in Article 19, World Product Mandate.

2. Statement of Work: IRB Commitments and Responsibilities

- 2.1. Through the implementation of the IRB Management Plan, the Regional Development Plan and the Small and Medium Business Development Plan detailed in Article 1.1.23, the Contractor shall by the end of the Achievement Period:
- 2.1.1. achieve \$ _____ **(to be inserted from Contractor's proposal - at least 100% of contract value)** in CCV as Direct and Indirect IRB Transactions as specified in the Contractor's proposal;
- 2.1.2. achieve \$ _____ **(to be inserted from Contractor's proposal)** in CCV as Direct IRB Transactions related to the Integrated Soldier System Project as specified in the Contractor's proposal;
- 2.1.3. achieve \$ _____ **(to be inserted from Contractor's proposal)** in CCV as Indirect IRB Transactions related to the Integrated Soldier System Project as specified in the Contractor's proposal;
- 2.1.4. achieve \$ _____ **(to be inserted from Contractor's proposal)** in CCV, as Direct and Indirect IRB Transactions in the regions of Canada, as specified in the Contractor's proposal, as follows:
- 2.1.4.1. Atlantic \$ _____ **(to be inserted from Contractor's proposal)**
- 2.1.4.2. Quebec \$ _____ **(to be inserted from Contractor's proposal)**
- 2.1.4.3. Northern Ontario \$ _____ **(to be inserted from Contractor's proposal)**
- 2.1.4.4. Ontario (excluding Northern Ontario) \$ _____ **(to be inserted from Contractor's proposal)**
- 2.1.4.5. West \$ _____ **(to be inserted from Contractor's proposal)**
- 2.1.4.6. Unallocated \$ _____ **(to be inserted from Contractor's proposal);**
- 2.1.5. achieve \$ _____ **(to be inserted from Contractor's proposal – at least 15% of contract value)** in CCV for Direct and Indirect Small and Medium Business Development IRB Transactions as specified in the Contractor's proposal;
- 2.1.6. achieve \$ _____ **(to be inserted from Contractor's proposal – at least 5% of contract value)** in CCV, as

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Direct and Indirect IRB transactions as specified in Appendix BA1, in technology areas related to the Enhanced Priority Technology List (EPTL), attached as Appendix BA4;

- 2.1.7. carry out each and every IRB Transaction as per the IRB Transaction Sheets attached at Appendix BA1;
- 2.1.8. commits to Unallocated IRB valued at \$ _____ **(to be inserted from the Contractor's proposal)** and to achieving these within the IRB Achievement Period. As new and/or unallocated IRB Transactions are identified by the Contractor and approved by the IRB Authority, the Direct, Indirect, Regional and Small Business and EPTL IRB Commitments in Clauses 2.1.2, 2.1.3, 2.1.4, 2.1.5, and 2.1.6 will be adjusted as applicable;
- 2.1.9. shall submit to the IRB Authority, no later than one (1) year after Contract Award, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to a minimum of 60% of the contract value, measured in CCV;
- 2.1.10. shall submit to the IRB Authority, three (3) years after Contract Award, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV;
- 2.2. The Contractor shall submit to the IRB Authority, through the Contracting Authority, annual IRB Reports based on the performance achieved during the IRB Reporting Periods defined in this Contract. These reports shall be submitted sixty (60) calendar days after the end of the annual IRB Reporting Period.
- 2.2.1. As evidence of the Contractor's achievement of IRB Commitments, the Contractor shall provide, appended to the Annual IRB Reports, a Certificate of Compliance, as set forth in Appendix BA2 to this Contract, signed by the senior company Comptroller in respect of each IRB Transaction for which there was activity in that IRB Reporting Period. This Certificate of Compliance also covers those IRB achievements of the Contractor's sub-contractors and/or its Eligible Parties.

3. IRB Reporting

- 3.1. Each annual IRB Report shall consist of four parts, as outlined in the following sub-paragraphs:
 - 3.1.1. part A: The CCV achieved in total since the beginning of the IRB Achievement Period for each of the Tables found at Appendix BA1;
 - 3.1.2. part B: The CCV achieved since the last Annual IRB Report for each of the Tables found at Appendix BA1;
 - 3.1.3. part C: For each IRB transaction being reported, describe any significant achievements, activities, delays or problems which could impact on the implementation of the IRB portion of the Contract and provide a plan of action to resolve any difficulties; and
 - 3.1.4. part D: A summary that includes:
 - 3.1.4.1. the total amount of progress payment requests or invoices submitted by the Contractor for Work completed since the Effective Date;

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- 3.1.4.2. a forecast of IRB achievements;
- 3.1.4.3. a description of Small and Medium Business development activities undertaken during the reporting period;
- 3.1.4.4. an explanation of any IRB Shortfall in achievement evident from the data in Part A, and a plan of action to resolve the problem;
- 3.1.4.5. a list of IRB Authority approved IRB Transactions which have been cancelled, terminated, added or substantially altered during the reporting period, the details of any requested changes, their status vis-a-vis contract amendment, and the reasons therefore;
- 3.1.4.6. a brief narrative describing, on an exception basis, any noteworthy developments with respect to Small and Medium Business; and
- 3.1.4.7. a description and explanation of any changes to the IRB Management Plan.

4. Canadian Content Value (CCV)

- 4.1. The CCV of any Direct and Indirect Transaction shall be determined by the Net Selling Price Method or the Cost Aggregate Method.
 - 4.1.1. Net Selling Price Method: A product which bears a substantiated selling price may have its CCV determined as follows:
 - 4.1.1.1. the Net Selling Price is that total selling price of the product, less the applicable customs duties, excise taxes and applicable GST, HST and all provincial sales taxes; and
 - 4.1.1.2. the CCV is the Net Selling Price less any costs incurred as set out in Clause 4.2.
 - 4.1.2. Cost Aggregate Method: for any product, service or activity which cannot be assigned a substantiated selling price, the CCV shall be the aggregate of the following:
 - 4.1.2.1. the cost of parts produced in Canada, and the cost of materials to the extent that they are of Canadian origin, that are incorporated in the equipment in the factory of the manufacturer in Canada, including parts or materials to the extent that the IRB Authority can verify that they are of Canadian origin and have been exported from Canada and subsequently imported into Canada as parts or finished goods;
 - 4.1.2.2. transportation costs, including insurance charges incurred in transporting parts and materials from a Canadian supplier or frontier port of entry to the factory of the manufacturer in Canada for incorporation in the equipment, to the extent that such costs are not included in the foregoing paragraph; and
 - 4.1.2.3. such part of the following costs, exclusive of GST, HST, all provincial sales taxes, excise taxes, royalties and license fees paid outside of Canada, as are reasonably attributable to the production or implementation of the equipment, service or activity:
 - 4.1.2.3.1. wages and salaries paid for direct and indirect production and non-production labour in Canada paid to Canadians or to permanent residents as defined in the

Immigration and Refugee Protection Act 2001, c.27;

- 4.1.2.3.2. materials used in the Work but not incorporated in the final products;
- 4.1.2.3.3. light, heat, power and water;
- 4.1.2.3.4. workers compensation, employment insurance and group insurance premiums, pension contributions and similar expenses incurred with respect to labour referred to above in sub-paragraph 4.1.2.3.1;
- 4.1.2.3.5. taxes on land and buildings in Canada;
- 4.1.2.3.6. fire and other insurance premiums relative to production inventories and the production plant and its equipment, paid to a company authorized by the laws of Canada or any province to carry on business in Canada or such province;
- 4.1.2.3.7. insurance purchased specifically from a company authorized by the laws of Canada or any province to carry on business in Canada or such province;
- 4.1.2.3.8. rent of factory or office premises paid to a registered owner in Canada;
- 4.1.2.3.9. maintenance and repairs to buildings, machinery and equipment used for production purposes that is executed in Canada;
- 4.1.2.3.10. tools, dies, jigs, fixtures and other similar plant equipment items of a non-permanent nature that have been designed, developed or manufactured in Canada;
- 4.1.2.3.11. engineering and professional services, experimental work and product or process development work executed and completed in Canada;
- 4.1.2.3.12. pertinent miscellaneous factory and office expenses, such as administrative and general expenses, including profits earned in Canada, depreciation with respect to production machinery and permanent plant equipment and the installation costs of such machinery and equipment; and a capital allowance not exceeding five per cent of the total capital outlay incurred for buildings in Canada owned by the producer of the work;
- 4.1.2.3.13. fees paid for services not elsewhere specified; and
- 4.1.2.3.14. pre-tax net profit upon which Canadian taxes are paid or are payable.

4.2. Costs or Business Activities that are ineligible for IRB Credit:

- 4.2.1. the value of materials, labour and services imported into Canada;
- 4.2.2. in the case of Indirect IRB, the value of raw materials and semi-processed goods exported from Canada;
- 4.2.3. the value of any living, relocation costs and remuneration paid for work on the Project;
- 4.2.4. the amount of all Canadian Excise Taxes, Import Duties, Federal and Provincial Sales Taxes,

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Goods and Services Taxes, Harmonized Sales Taxes and other Canadian duties;

- 4.2.5. the value of goods and services with respect to which credit has been received or is being claimed by the Contractor or its Eligible Parties as an IRB to Canada under any other IRB agreement;
- 4.2.6. any proposal or bid preparations costs;
- 4.2.7. all transportation costs not covered under Clause 4.1.2.2;
- 4.2.8. obligations of the Federal Government e.g. government furnished equipment;
- 4.2.9. licence fees paid by the Canadian IRB recipient and any on-going royalty payments;
- 4.2.10. IRB Transactions claimed by a Contractor that pertain to its influence or that of one of its Eligible Parties over their own country's Purchasing Agent/Department or the Purchasing Agent/Department of another country;
- 4.2.11. interest costs associated with Letters of Credit or other financial instruments to support IRB Investments; and
- 4.2.12. fees paid to third-party consultants or agents for work related to gaining IRB Credit against this Contract. This includes, but is not limited to, providing advice on the IRB Policy, preparation of IRB transactions and/or reports, representing the interests of the Contractor to the IRB Authority, and/or searching for potential recipient firms.

5. Eligibility Criteria for IRB Transactions

General: Wherever possible, the IRB Authority will confirm IRB eligibility prior to a proposed IRB Transaction being accepted into the contract.

- 5.1.1 The IRB Authority reserves the right to validate IRB eligibility for any or all IRB Transactions identified in Appendix BA1 within one year of Contract Award. The IRB Authority shall submit to the Contractor within one year of Contract Award a written notice of the IRB Transactions that the IRB Authority wishes to validate. Once the request is made, the Contractor shall have 60 calendar days to submit a package in support of their IRB eligibility claims.
 - 5.1.2 Should the Contractor be unable to satisfy the IRB Authority that the IRB Transaction has met the Eligibility Criteria, future IRB Credits will not be granted and a substitute IRB Transaction will be sought from the Contractor.
 - 5.1.3 Contractors should note that all IRB transactions are subject to annual reporting and verification before IRB credits are confirmed. Should new information arise during verification that seriously calls in to question the eligibility of an IRB Transaction, the IRB Authority will review and investigate as soon as possible.
- 5.2 Causality** - each IRB Transaction shall be one which was clearly and demonstrably brought about by either the Contractor or one of the Contractor's Eligible Parties as a result of a current or anticipated IRB Obligation to Canada. It shall not be one which probably would have been entered into if an IRB obligation had not existed. Causality may be demonstrated to a specific project or more broadly to a company's IRB obligation in general.

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- 5.2.1 The responsibility for demonstrating Causality lies with the Contractor or its Eligible Party, not the IRB recipient.
- 5.2.2 Given the large volume of defence procurements, Contractors and their Eligible Parties are often engaged in IRB planning and execution on several projects with IRB obligations. Therefore, causality may be demonstrated to a specific project or more broadly to a company's IRB obligations in general.
- 5.2.2.1 The Contractor or its Eligible Party must demonstrate causality beyond generic statements on the transaction sheet. They should provide a clear statement on Causality, which outlines the details involved in their decision about a procurement or investment activity.
- 5.2.2.2 As IRB activities should make good business sense to the Contractor or Eligible Party, the causality provision does not require that the IRB obligation be a company's only decision-making factor. However, the Contractor or its Eligible Party must show the link between Canada's IRB Policy and their decisions related to the IRB activity.
- 5.2.2.3 As further demonstration of Causality to this Contract, the IRB Authority's written approval for a proposed IRB Transaction shall be obtained prior to the Contractor, on behalf of itself, its Eligible Parties and Canadian recipients, making public announcement, media or press releases related to the proposed business activities. Failure to do so may result in the rejection of the business activity as an IRB under the Contract.
- 5.2.3 The Contractor or its Eligible Parties must provide clear evidence of causality. Failure to provide sufficient evidence of causality will result in the ineligibility of the IRB Transaction.
- 5.2.3.1 Evidence of Causality includes a history of events in the development of an IRB Transaction and any supporting written documentation. Contractors or its Eligible Party should provide as much detailed supporting documentation as possible at the time of the IRB Transaction submission that supports the statement on Causality. This documentation may include but not be limited to: internal emails, official correspondence, meeting notes, corporate presentations, etc. The IRB Authority seeks documentary evidence that links decisions regarding the IRB transaction to the donor's IRB obligation.
- 5.3 Timing** - IRB Transactions shall be implemented within the Achievement Period. IRB Transactions or substitute IRB Transactions identified after the Effective Date will only be accepted provided the activity meets the IRB Eligibility Criteria and does not occur prior to the date of identification of the IRB Transaction.
- 5.4 Incrementality** - where an Indirect IRB Transaction is for the purchase of goods or services from a Canadian source, and such goods and services are similar to those that the purchaser had acquired in Canada prior to the date of identification of the IRB Transaction:
- 5.4.1 The CCV of the IRB Transaction shall be determined only with respect to the increase that the IRB Transaction will provide over the average amount of orders placed by that purchaser for those goods or services from the Canadian source during the three years preceding the date of identification of the IRB Transaction.
- 5.5 Eligible Party** - IRB Transactions shall be undertaken by an Eligible Party as defined in this Contract. In any case, the Contractor shall be 100% responsible for IRB Commitments, regardless of flow down to Eligible Parties. A list of approved Eligible Parties for the Integrated Soldier Systems Project Contract is found in Article 32.

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6. Technology and Skills Cooperation

- 6.1. In order to qualify as a technology and skills cooperation IRB Transaction, the activity shall meet the following criteria:
 - 6.1.1. technology shall be in a form that is sufficiently complete to allow the Canadian recipient to apply the knowledge to existing or new products or processes;
 - 6.1.2. technology shall be proprietary, current and equivalent to or better than that used on the ISS Project;
 - 6.1.3. all required licenses or permits to facilitate the sale of products/services domestically or for export shall be included;
 - 6.1.4. the transferor shall make available all engineering and technical advice and assistance required to exploit and keep current the transferred technology and all related information (drawings, methods of application, etc.);
 - 6.1.5. the Canadian company shall have access to domestic and foreign markets and have the resources to exploit the technology in these markets;
 - 6.1.6. the technology shall be exploitable in terms of the capability (financial and technical) of the Canadian company to use and keep it current;
 - 6.1.7. the Contractor shall make available, upon request by the IRB Authority, the licensing agreement with the Canadian recipient. Failure to do so will result in the technology and skills cooperation IRB Transaction being rejected.
- 6.2. The technology and skills cooperation shall be measured in Canadian Content Value of the future sales, export sales or import replacement, of goods or services by the Canadian company as a result of the technology and skills cooperation. In addition, the Contractor may be credited for reasonable costs incurred as a result of the technology and skills cooperation once the achievement in future sales surpasses the cost of the technology and skills cooperation. Reasonable costs incurred include:
 - 6.2.1. training costs;
 - 6.2.2. set-up of infrastructure needed to exploit the technology; and
 - 6.2.3. any others as deemed reasonable by the IRB Authority.
- 6.3. IRB in the form of technology and skills cooperation with Canadian companies may include activities such as:
 - 6.3.1. participation in the design, development and manufacture of new or improved systems;
 - 6.3.2. the provision of new process technologies that will enhance Canadian industry by improving their capabilities in present product lines and enhance their export potential; and
 - 6.3.3. the provision of licences which will allow Canadian companies to manufacture new or existing components of major systems for export sale and import replacement.

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6.4. All costs to develop the technology shall be ineligible for IRB credit.

7. Investment in Canada

7.1. IRB can be derived from activities such as investment in Canada. These investments shall meet the IRB Eligibility Criteria and shall be made directly by the Contractor or its Eligible Party and placed directly with a Canadian recipient.

7.1.1. The Contractor will be credited the CCV of future sales resulting from the specific investment, and the amount of the investment, once the Achievement surpasses the amount of the initial investment. The credited future sales will be prorated by multiplying the applicable sales to the ratio of the Contractor's own direct investment in the company relative to that company's Capitalization at the time the investment was made once the accepted IRB credits surpasses the amount of the total investment.

Credited Future Sales =

Applicable Sales X Contractor's own direct investment in Canadian Recipient
Canadian Recipient's Capitalization at the time the investment was made

7.2. The investment shall be for the purchase of equity such as common shares or preferred shares. Use of the investment to purchase debentures is not permitted.

7.3. The investment made by the Contractor or its Eligible Parties shall remain placed with the Canadian recipient for a minimum of three (3) years, starting from the date the investment is placed with the recipient. Failure to do so will result in the immediate clawback of all IRB approved credits for the IRB Transaction by the IRB Authority. No further IRB credits will be approved for that particular transaction.

7.4. In the event the Contractor or an Eligible Party invests in its own Canadian facilities, the investment and the incremental sales resulting from that investment are eligible for IRB credit, assuming the investment itself is causal to the IRB obligations of the Contractor or Eligible Party. This is also provided that the investment results in a net benefit to Canada and that the transaction does not result in overcapacity, shutdowns of existing companies or losses of prospective sales by existing companies in Canada.

7.5. The capital associated with the purchase of a Canadian company that is considered a "going concern" is not an eligible investment for IRB purposes. If the investment is for a Canadian company that has declared bankruptcy, then the investment can be counted for IRB purposes.

7.6. Investment transactions may include:

7.6.1. the establishment or enhancement of a Canadian facility or project which will develop Canada's advanced technology industries, and provide a capability that does not already exist in Canada. Consideration on the eligibility of the proposed IRB transaction will also be based on whether the transaction results in overcapacity, shutdowns of existing companies or losses of prospective sales by existing companies in Canada; or

7.6.2. the development of joint ventures with Canadian firms, which will contribute to their long-term viability and increase sales in both domestic and international markets.

8. Third Party Investments/Venture Capital Funds for Small Business

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- 8.1. In any instance where the Contractor or its Eligible Party is not placing an investment directly with a Canadian recipient, and is utilizing a third party to manage such investments, the method of crediting such investments will be as detailed in this Clause. Any organization which manages investments such as, but not limited to Banks, Trust Companies, Venture Capital Funds, and Investment Companies, will not be an Eligible Party to the Contract, but will be deemed a third party. A portion of a Contractor's investment may come from the placement of funds into a Venture Capital Fund (VCF) directed at assisting the growth of Canadian small businesses through their development and exploitation of new technologies. The multiplied IRB credit related to these investments shall not exceed 5% of the IRB Commitment Value. Contributions in support of Canadian small business are permitted within the following parameters:

8.1.1. **Timing**

- 8.1.1.1. IRB credit can be claimed when:

- 8.1.1.1.1. the Contractor makes a financial contribution to a qualifying VCF. Only the face value of the contribution, measured in Canadian dollars, can be sought as an IRB at this time; and
- 8.1.1.1.2. the VCF Manager invests funds with a Canadian small business and the funds remain placed with the Canadian recipient for a minimum of three (3) years, starting from the date the funds are placed. Failure to do so will result in the immediate clawback of all IRB credits claimed or approved for the IRB Transaction by the IRB Authority.

- 8.1.1.2. All VCF related IRB credits claimed by the Contractor are subject to verification and approval by the IRB Authority before IRB credits are accepted.

8.1.2. **Scope**

- 8.1.2.1. (Privately held) small business recipients of the VCF investment shall have 50 employees or less (service based industries) or 100 employees or less (manufacturing based industries) at the commencement of the investment.
- 8.1.2.2. Initial investments by the VCF Manager, including co-investments, in eligible small businesses cannot exceed \$1M.
- 8.1.2.3. Small business recipients will generally be involved in the development, manufacture or commercialization of a technologically advanced product or service in one of the following sectors:
 - 8.1.2.3.1. Life sciences (biotechnology, medical devices and pharmaceuticals)
 - 8.1.2.3.2. Health
 - 8.1.2.3.3. Advanced materials
 - 8.1.2.3.4. Advanced manufacturing
 - 8.1.2.3.5. Environment
 - 8.1.2.3.6. Information and communications technologies, and
 - 8.1.2.3.7. Aerospace and defence
- 8.1.2.4. Only Canadian registered and managed VCFs which support the above industrial sectors will be acceptable. The Contractor will have to provide evidence that a high percentage of a chosen fund's investment activity is with companies that are in the

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above sectors.

8.1.3. **Multiplier for IRB Credit purposes**

8.1.3.1. The multiplier for IRB credit purposes is 5:1. The IRB credit will be given for the initial contribution at the time of the deposit to the VCF by the Contractor. The IRB credit that makes up the remaining multiples will be offered when the VCF Manager assigns the funds to a Canadian small business and the funds remain placed with the Canadian recipient for a minimum of three (3) years, starting from the date the funds are placed. The maximum multiplied IRB credit for the Project is 5% of the IRB Commitment Value.

8.1.4. **Limitation to Third Party Investments/Venture Capital Funds for Small Business**

8.1.4.1. Once a small business reaches the Initial Public Offering stage, no further IRB credit will be granted by the IRB Authority for further VCF investment to the Canadian small business.

8.1.5. **Performance Guarantees**

8.1.5.1. IRB Transaction sheets related to qualifying VCF transactions are stated in the multiplied value of the proposed contributions to the VCF. This multiplied value is part of the Contractor's total IRB commitment, and as such is subject to the performance guarantees stipulated in this Contract.

8.1.5.2. If the Contractor fails to achieve an approved IRB Transaction involving a VCF, the full "multiplied" value of its IRB Commitment shall be made up with other IRB activities that meet the IRB Eligibility Criteria. Substitute transactions will not be subject to the multiplier.

9. **Investments made to Consortium**

9.1. In any instance where the Contractor or its Eligible Party invests in research and development through a consortium, the method of crediting such investments will be as detailed in this Clause.

9.1.1. **Timing**

9.1.1.1. IRB credit can be claimed when:

9.1.1.1.1. the Contractor makes a financial contribution to a qualifying consortium; and

9.1.1.1.2. the Consortium partner(s) make their contribution the consortium.

9.1.1.2. All Consortia related IRB credits claimed by the Contractor are subject to annual reporting and verification and approval by the IRB Authority before IRB credits are approved.

9.1.2. **Scope**

9.1.2.1. A Consortium shall be considered as an association between the Contractor(s), Canadian company(s) and Canadian research institute(s). The association shall consist of a minimum of:

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9.1.2.1.1. the Contractor or its Eligible Party; and

9.1.2.1.2. a minimum of one (1) publicly or privately owned Canadian company; and

9.1.2.1.3. a minimum of one (1) post-secondary or public research institutions.

9.1.2.2. Involvement of non-Canadian company(s) in the consortia shall be permitted. The combined total investment from foreign sources shall not exceed fifty (50) percent of the Consortium value.

9.1.2.3. The Contractor shall not be able to claim its Consortium partner(s) as Eligible Parties to this Contract. In cases where an existing Eligible Party to the Contract participates in a Consortium, a separate IRB Transaction Sheet shall be submitted that describes the Eligible Parties' involvement in the Consortium to claim credits for contributions leveraged by the Eligible Party. At no time shall the Contractor and Eligible Party be able to claim for the same contributions.

9.1.2.4. In addition to demonstrating Causality, the Contractor shall be responsible for demonstrating how its involvement in the Consortium leveraged the investments from the other parties involved.

9.1.2.5. The Contractor may choose to invest in an existing Consortium and will be credited for its investment into the Consortium. In order to receive credit for funds invested by other companies, the Contractor must demonstrate that the additional funds invested into the Consortium were the result of the Contractor's participation. The Contractor will not receive credit for funds already existing in the Consortium prior to their participation.

9.1.2.6. The Contractor will not be eligible to claim IRB on any funds leveraged by other parties and applied to other IRB obligations. In cases where multiple contractors with IRB obligations are involved in a Consortium, each of these contractors may be eligible to receive IRB credit for their own contribution and that of the partners they attract to the Consortium.

9.1.2.7. Contributions to the Consortium may take the form of in-kind donations. These donations will not be eligible for a multiplier. In the case of equipment, tools and other final goods, credit for these shall be given based on an assessment to be undertaken by a Third Party to this Contract solely at the cost of the Contractor. Donations that cannot be assessed by a Third Party may be credited for reasonable costs incurred. The costs of these assessments will not be eligible for IRB Credit.

9.1.2.8. The future sales that may arise from the Consortium will not be considered for IRB Credit under this Clause. Should the Contractor procure goods and services from the Consortium, the purchase will be considered as a separate IRB Transaction. No multiplier will be applied to these future sales.

9.1.3. **Multiplier for IRB Credit purposes**

9.1.3.1. The multiplier for IRB credit purposes shall be credited as follows. An initial value shall be the sum of the following:

9.1.3.1.1. the value of cash contributions from the Contractor to the Consortium; and,

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9.1.3.1.2. the value of cash contributions from other eligible participants, leveraged by the Contractor's participation in the Consortium, up to a maximum value equal to that of the Contractors contribution.

9.1.3.2. However, the following will not be eligible for IRB Credit:

9.1.3.2.1. contributions from post-secondary institutions and not-for-profit research and development institutions shall not be counted towards the Contractor's obligations; and

9.1.3.2.2. direct contributions from all levels of government into the Consortium.

9.1.3.3. Once an initial value is established, the Contractor shall receive a five (5x) times multiplier on the initial value.

9.1.3.4. When a Consortium IRB Transaction is submitted, the Contractor must identify the manner that it proposes to calculate the regional distribution. The Contractor may opt to make regional commitments based on where funding for the Consortia originates as a proportion of the total Canadian funding. Alternatively, the Contractor may opt to make regional commitments based on where the work associated with the Consortium is taking place. In either situation, once a Contractor selects a regional calculation, the Contractor will be held to this selection.

9.1.4. **Performance Guarantees**

9.1.4.1. IRB Transaction sheets related to qualifying Consortium transactions are stated in the multiplied value of the proposed contributions to the Consortium. This multiplied value is part of the Contractor's total IRB commitment, and as such is subject to the performance guarantees stipulated in this Contract.

9.1.4.2. If the Contractor fails to achieve an approved IRB Transaction involving a Consortium, the full "multiplied" value of its IRB Commitment shall be made up with other IRB activities that meet the IRB Eligibility Criteria. Substitute transactions will not automatically be subject to a multiplier.

10. **Indirect Transactions**

10.1. An Indirect IRB in the form of a purchase of goods or services, not specifically for use in the Work, shall be equivalent level of technology to the Project with applications in Canadian advanced technology industries. A credit for these purchases will be given equal to their CCV under the following conditions:

10.1.1. if the CCV is less than 30 percent of the total content for a given activity, then this activity will not qualify as a IRB Transaction; and,

10.1.2. if the CCV is equal or greater than 30 percent, then the CCV will qualify as an IRB.

11. **Direct IRB Transactions**

11.1. Direct IRB Transactions are those achieved through the provision of the goods and services required to deliver the Integrated Soldier System Project or achieved through the provision of goods and/or services on approved Global Value Chain (GVC) platforms.

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- 11.2. Canadian resources should be utilized to the maximum extent possible to develop, produce, integrate and deliver the Integrated Soldier System Project. Eligible areas of involvement include hardware and software, project management, systems design, engineering and integration, programming and independent validation and verification, installation engineering and site installation, and transportation.
- 11.3. An eligible Global Value Chain (GVC) platform must be similar to the platform being proposed for the Integrated Soldier System Project have a market potential (measured by market size and longevity) equal to or greater than the platform proposed for the Integrated Soldier System Project and one that offers significant opportunities for technological advancement, growth in the level of system integration, small and medium-sized business (SMB) participation, and have large-scale and sustainable acquisition and/or sustainment opportunities.
- 11.4. Activities associated with GVC platforms include, but are not limited to, pre-commercialization activities (e.g. collaborative technology development and demonstration projects), production activities (e.g. definition, design, and manufacturing) and In-Service Support activities.
- 11.5. A list of approved GVC platforms is found in Article 33.1. The IRB Authority reserves the right to seek validation of the eligibility of the GVC platforms found in Article 33.1, within one year of the Effective Date of the Contract. The IRB Authority shall submit to the Contractor within one year of Contract Award a written notice of the GVC platforms that the IRB Authority wishes to validate. Once the request is made, the Contractor shall have 60 calendar days to submit a package in support of their GVC eligibility claims. Should a GVC platform be found to not meet the GVC criteria (outlined in article 11.3), any IRB Transactions involving that platform will not be eligible to be used towards meeting the minimum Direct requirement outlined in article 2.1.2.

12. Strategic Plans

- 12.1. Major Obligors to Canada are required to submit a Strategic Plan to the IRB Authority annually. If the Contractor is a Major Obligor, as defined in Article 1.1.25, then;
 - 12.1.1. The Contractor and the IRB Authority will meet annually to update, review and discuss the Contractor's Strategic Plan.
 - 12.1.2. Representatives at senior levels of the corporation and senior levels of Industry Canada will be available for annual meetings.
- 12.2. The Contractor's Strategic Plan should include:
 - 12.2.1. a description of the Contractor's broad corporate plans for Canada over the medium-term (3-5 years) and long-term (5+ years);
 - 12.2.2. how these corporate plans may translate into IRB activities
 - 12.2.3. an overview of the Contractor's current and anticipated IRB Obligations to Canada
 - 12.2.4. IRB Partnerships with tier-one suppliers or other Eligible Parties.
- 12.3. Contractor's with multiple IRB Obligations totalling less than \$1 billion may also submit a Strategic Plan to the IRB Authority, however neither the IRB Authority or the Contractor will be required to meet annually to discuss the Strategic Plan.

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- 12.4. Major Obligors submitting a Strategic Plan may be permitted to “pool” high value, strategic IRB business activities.
- 12.5. Pooled IRB Transactions must meet the following criteria:
- 12.5.1. meet the IRB Eligibility Criteria as described in Article 5, Eligibility Criteria for IRB Transactions;
- 12.5.2. have a value of over \$100 million measured in CCV;
- 12.5.3. provide long term impact to the Canadian recipient including R&D support, first purchase of innovative Canadian technologies, market leadership, world product mandate, global value chain activities, or technology advancement.
- 13. Not Used**
- 14. Valid Orders**
- 14.1. The extent to which each IRB Transaction will qualify will be based on and limited to valid orders and/or contracts delivered by the end of the IRB Achievement Period.
- 15. Trading and Mutual Abatement**
- 15.1. Trading of IRB credits is not permitted.
- 15.2. Mutual Abatement is not permitted.
- 16. Banking**
- 16.1. A total of 50% of the IRB Commitment value can be utilized with Banked IRB Transactions from the IRB Bank.
- 17. Import Replacement**
- 17.1. Import replacements due to the transference of work into Canada will be counted for IRB purposes.
- 18. Multipliers**
- 18.1. Multipliers are only permitted on IRB Transactions involving cash contribution input to Canadian universities for university research or the establishment of university Chairs; investments in advanced technology skill development through publicly operated post secondary institutions; collaborative research undertaken with publicly accessible research institutions (e.g. the National Research Council or other federal or provincial research institutions); contributions to Venture Capital Funds specializing in small business development; and cash contributions to research and development through a Consortium. Multipliers will not exceed five (5:1).
- 19. World Product Mandate**
- 19.1. If a product designed, developed and manufactured by a Canadian company is the subject of a world product mandate, where it is a long term relationship between the Contractor or an Eligible Party and a Canadian company, whereby the Canadian company has been legally authorized to carry out the aforementioned specific activities, and is identified as such in an Indirect IRB

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Transaction, and where the CCV of the product is verified to be seventy (70) percent or greater, the full contract value of the transaction will be deemed to be CCV.

20. Small and Medium Business

- 20.1. For the benefit of Small and Medium Business and to lessen their administrative burden, if at least seventy (70) percent of the value of an IRB Transaction below \$100,000.00 is CCV, that contract will be deemed to have 100 percent CCV for reporting and verification purposes only.

21. Enhanced Priority Technology List

- 21.1 Version 1.0 of the EPTL is attached as Appendix BA4 and applies to this contract. The IRB Authority will assess proposed EPTL transactions to determine whether they are: relevant to the EPTL List Version 1.0; and, of a unique and/or transformational nature to existing global product offerings. All EPTL transactions must meet the IRB Eligibility Criteria outlined in Article 5.
- 21.2 The IRB Authority may publish updated versions of the EPTL. Such a subsequent published version of the EPTL may be considered to replace Version 1.0 in this Contract. Replacing the EPTL would require agreement between the IRB Authority and the Contractor, as part of a contract change proposal submitted to the Contracting Authority.
- 21.3 In the case where EPTL Version 1.0 is replaced with a subsequent version, any IRB Transactions which have already been accepted by the IRB Authority as eligible under Version 1.0 will remain unaffected by the change to a subsequent version.
- 21.4 The Contractor may choose to submit a banked EPTL-related transaction for this ISS Project. (*please see Article 15 - Banking*). With respect to a banked EPTL transaction, the Version of the EPTL which was in effect at the time of the transaction's acceptance into the IRB Bank may be different than the version applicable to this ISS Project. In that case, the banked EPTL transaction can nonetheless be counted towards the EPTL requirement on this ISS Project.
- 21.5 The IRB Authority reserves the right to seek validation of the eligibility of the EPTL Transactions found in Appendix BA1 within one year of the Effective Date of the Contract. The IRB Authority shall submit to the Contractor within one year of Contract Award a written notice of the EPTL transactions that the IRB Authority wishes to validate. Once the request is made, the Contractor shall have 60 calendar days to submit a package in support of their EPTL eligibility claims. Should an EPTL transaction be found to not meet the EPTL criteria (outlined in article 21.1), it will not be eligible to be used towards meeting the minimum EPTL requirement outlined in article 2.1.6.
- 21.6 The IRB Authority is the single point of contact between industry and government regarding the EPTL. All enquiries regarding the EPTL contents should be directed to the IRB Authority.

22. Announcements

- 22.1. Industry Canada reserves the right to make general announcements on contracted or signed Memorandum of Understanding IRB Transactions. Announcements would include company names, general descriptions of the work being proposed and approximations of CCV and sub contract value.

23. IRB Transaction Alterations

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- 23.1. The Contractor shall not alter the IRB Commitments listed in Appendix BA1 unless:
- 23.1.1. the Contractor has submitted a proposal to the IRB Authority through the Contracting Authority, with respect to the alteration; and,
 - 23.1.2. the IRB Authority through the Contracting Authority has given written approval to the Contractor and requested the Contracting Authority to amend the Contract accordingly.
- 23.2. The Contractor may propose alterations to or substitutions for any of the IRB Transaction(s) listed in Appendix BA1, and the IRB Authority may accept these requests provided that in the judgment of the IRB Authority:
- 23.2.1. the circumstances requiring the change are exceptional and likely to result in undue hardship upon the Contractor is a change is not made;
 - 23.2.2. the obligations of this Contract under the Statement of Work are maintained i.e. the overall Regional and Small and Medium Business Commitments are maintained;
 - 23.2.3. the proposed alterations or substitutions meet the IRB Eligibility Criteria stated in this Contract;
 - 23.2.4. the proposed substitute IRB Transaction is not less than the IRB Transaction to be replaced both as to the level of technological sophistication of the work to be performed and the CCV;
 - 23.2.5. Canadian industry will receive the maximum high-quality, low risk, Direct Benefits associated with the delivery of the work; and
 - 23.2.6. Canadian industry will receive high-quality, low risk, Indirect Benefits of the same level of technology as the Direct Benefits.

24. Contract Price Changes

- 24.1. Where the Contract is to be amended, the IRB Commitments as specified in Article 2, Statement of Work: IRB Commitments and Responsibilities, shall be correspondingly either increased or decreased to reflect this amendment.

25. Verification and Access to Records

- 25.1. The Contractor shall implement the IRB procedures and practices as described in the IRB Management Plan. Any changes to the IRB Management Plan are subject to approval by the IRB Authority.
- 25.2. The Contractor shall keep proper records and all documentation relating to the determination of the CCV of the work provided under this Contract, including invoices and proof of payments. The Contractor shall not, without the prior written consent of the IRB Authority, dispose of any such records or documentation until the expiration of two (2) years after final payment of this Contract, or until settlement of all outstanding claims and disputes, whichever is later. All such records and documentation shall at all times during the aforementioned retention period be open to verification, inspection and examination by the IRB Authority or his/her delegate, who may make copies thereof and take extracts there from.
- 25.3. In addition, the IRB Authority may request the Contractor provide copies of all such information be sent to him/her via mail or courier for a random sample of IRB Transactions as he/she may

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from time to time request.

- 25.4. If the IRB Authority determines that the information contained in the annual report and certified by the Certificate of Compliance shall be verified, the Contractor shall undertake to provide the IRB Authority with access, at all reasonable times, and within sixty (60) calendar days of being notified, to its accounts and records relating thereto and shall, by obtaining similar undertakings in the subcontracts of all Eligible Parties, arrange for the same in respect of any subcontracts and suppliers carrying out the work.
- 25.5. Where, subsequent to the verification action taken pursuant to this Clause, the IRB Authority determines that the records are insufficient to verify the Contractor's achievements in respect of any IRB Commitment, the Contractor shall provide such additional information as may be required by the IRB Authority.
- 25.6. Where it cannot be verified that an IRB Transaction has provided the IRB claimed, that portion of the IRB which cannot be verified will be considered as not having been achieved and the IRB Authority will give Notice to the Contractor of the shortfall through the Contracting Authority.
- 25.7. Should the Contractor disagree with a decision delivered pursuant to the above paragraph, the Contractor, within twenty (20) Business Days from the notification of the said decision, may appeal, by Notice to the Contracting Authority, the above decision by describing fully the issue, all relevant factors and the reasons for its disagreement with the said decision. The IRB Authority, on subsequent review of the factors surrounding the disagreement, will issue a final determination, identifying the amount of any such IRB achieved.
- 25.8. If the IRB Authority determines that a significant Shortfall in the Contractor's total IRB Commitment exists and if the IRB Authority believes that the Contractor will not meet its total IRB Commitment, the IRB Authority may give, through the Contracting Authority, notice to the Contractor and request the contractor to submit a proposal showing how the Contractor plans to correct such deficiencies. The Contractor will submit its proposal within sixty (60) calendar days of receipt of such notice. If the proposal is not acceptable to the IRB Authority, the IRB Authority may request the Contracting Authority to terminate the Contract.
- 25.9. The Contractor's overall IRB Commitments, claims and achievements, is information available to Parliament and is considered by the Canadian Government as information that can be released to the public. However, the Contractor's specific corporate and transactional information is considered as commercial confidential and its receipt, storage and protection is governed by applicable federal laws and processes. Contractors are encouraged to clearly mark their documents identifying each page as belonging to them and containing sensitive, commercially confidential information. .

26. Over-Achievement of IRB Commitments

- 26.1. The Contractor may achieve a CCV for any Commitment in excess of the value stated in the IRB Transactions without prior approval. When an over-achievement occurs in an IRB Transaction Commitment, subject to the prior written approval of the IRB Authority, the over-achievement may be applied against the shortfall or unallocated portion of the IRB Transactions, as long as the Regional and Small and Medium Business Commitments are achieved. An over-achievement in one Region will not be applied to reduce a shortfall in another Region.

27. Failure to Achieve IRB Commitments

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27.1. Liquidated Damages

- 27.1.1. In respect of the failure to achieve any of the Commitments in clauses 2.1.1 to 2.1.8 (Statement of Work: IRB Commitments and Responsibilities) by the end of the IRB Achievement Period, the Contractor shall immediately pay to Canada as liquidated damages 10% of the Shortfall.
- 27.1.2. In the event that liquidated damages arise under more than one of the IRB Commitments, the Contractor will be liable only under the IRB Commitment which results in the highest liquidated damages.
- 27.1.3. Included in the total IRB Commitments are the unallocated IRB Commitments.

27.2. Holdback/Stop Payment

- 27.2.1. If at the end of IRB Reporting Period 2, it is confirmed through the submission and evaluation of transactions that the Contractor failed to identify 60% of the IRB Commitment Value in eligible IRB Transactions by the end of Reporting Period 1, as stated in Article 2.1.9, the holdback applied to all subsequent payments becoming due and payable after written notice from the Contract Authority shall be 15%. The holdback shall only be released once the Contractor has identified 60% of the IRB Commitment Value in eligible IRB Transactions to the satisfaction of Canada.
- 27.2.2. With respect to the Holdback outlined in sub-section 27.2.1, a grace period of thirty (30) calendar days, beginning on the date of failure notification by the IRB Authority, shall pass before the Holdback takes effect. Within this period, the Contractor may take corrective action. Four (4) years after contract amendment date exercising the option to proceed with the Phase B (Production), if no acceptable corrective actions are taken by the Contractor, the accumulated deduction for holdback is forfeited.
- 27.2.3. If at the end of the IRB Reporting Period 4, it is confirmed through the submission and evaluation of transactions that the Contractor has failed to identify 100% of the IRB Commitment Value in eligible IRB transactions by the end of Reporting Period 3, as stated in Article 2.1.10, Canada will suspend contract payment until the situation is remedied.
- 27.2.4. With respect to the suspension of contract payment outlined in sub-section 27.2.3, a grace period of thirty (30) calendar days, beginning on the date of failure notification by the IRB Authority, shall pass before the suspension of contract payment takes effect. Within this period, the Contractor may take corrective action.
- 27.3. In the event that the Contract is terminated for default pursuant to the General Conditions Clause entitled "Default by the Contractor", the Contractor will immediately pay to Canada an amount equal to the Liquidated Damages that would be payable under clause 27.1.1 based on the shortfall in regard to those Commitments that, according to Appendix BA1 (Plans, Transactions and Tables) were to be achieved by the date of termination. In the event of such payment, the Contractor will have no further liabilities in regard to the IRB requirements of the Contract.
- 27.4. In the event that this Contract is terminated for convenience pursuant to the General Conditions Clause entitled "Termination for Convenience", the Contractor will have no further liabilities. In the event of partial termination of the Contract, the Contractor will be released from the terminated portions of its Commitments and from the provisions of Article 2 (Statement of Work: IRB Commitments and Responsibilities) as it relates to such terminated portions.

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- 27.5. If, during the progress of the Contract, a change in the Work is initiated by the Crown which results in the Contractor no longer being able to source from a Canadian Company and, as a consequence, Commitments in the Statement of IRB Work may not be met, the Contractor shall immediately notify the IRB Authority through the Contract Authority. The Contractor shall fully describe the issue, provide all supporting data, including a complete record of attempts to purchase from Canadian sources and Canadian suppliers' responses, together with an analysis of specific technical, commercial or other factors which result in the inability to source from Canada.
- 27.6. The Contractor shall, prior to being entitled to receipt of the final Payment from Canada following the completion of the Work, provide Canada a guarantee in the form of a letter of credit, covering the amount of monies that would be owing by way of liquidated damages pursuant to the Liquidated Damages Clause should the Contractor not achieve any further IRB Credits after the date of the final Payment. The letter of credit shall be:
- 27.6.1. issued by a financial institution which is a member of the Canadian Payment Association;
 - 27.6.2. in form and substance satisfactory to the Minister;
 - 27.6.3. solely at the cost of the Contractor;
 - 27.6.4. abated as set forth below;
 - 27.6.5. unconditional and irrevocable; and
 - 27.6.6. subject to the Uniform Customs and Practice for Documentary Credits, as set out in Publication No. 600, July 2007.
- 27.7. The letter of credit shall remain in force until the earliest of:
- 27.7.1. the achievement of the Commitments; and
 - 27.7.2. six months following the submission of the final IRB Report at which time the letter of credit will be abated in full and will be returned by Canada to the Contractor.
- 27.8. The obligation of the Financial Institution to pay under the letter of credit will be triggered by notice executed by either the Minister or the Deputy Minister of Public Works and Government Services Canada to the Issuing Bank stating that the Contractor is in default under the Contract for failure to achieve the Commitments within the Achievement Period, that Canada has made a demand by Notice for payment of Liquidated Damages in accordance with the Liquidated Damages Clause and that the Contractor has failed to pay Canada Liquidated Damages in accordance with the Liquidated Damages Clause. No other event will trigger payment under the letter of credit.
- 27.9. The Contract Authority in accordance with this Article, will have the right to holdback, drawback, deduct and set off from and against the monies owing at any time by the Crown to the Contractor, any damages owing under this Contract equal to ten percent (10%) of the shortfall amount.
- 27.10. Nothing in this Article will be interpreted as limiting the rights and remedies which the Contracting Authority may otherwise have in relation to any breach of this Article by the Contractor, including the right to terminate the Contract for default.

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28. Responsibilities of the Parties

28.1. The Parties to this Contract acknowledge and agree that:

- 28.1.1. Canada has responsibility for the economy of Canada and, in order to develop its economy, has set in place policies and programs to promote and enhance the development of the Canadian industrial base, including regional industry and small business;
- 28.1.2. the award of this Contract to the Contractor resulted from a procurement process in which the Contractor committed to fulfil the CCV Commitments set out in Article 2, Statement of Work: IRB Commitments and Responsibilities;
- 28.1.3. it is the responsibility of the Contractor to ensure that it can complete the IRB Transactions and that these are not limited by applicable laws, regulations, policies or standards; and
- 28.1.4. actual damages which would be sustained by Canada in the event of a breach by the Contractor of the CCV Commitment provisions of this Contract would be commercially impracticable or extremely difficult to compute or ascertain and, therefore, the provisions for Liquidated Damages are agreed to be a fair and reasonable best estimate of such actual damages, and the manner provided herein for the enforcement and collection of Liquidated Damages is agreed to be fair and reasonable.

29. Dispute Settlement - Resolution of Discrepancies

- 29.1. In matters pertaining to proposed and/or approved IRB Transactions, in circumstances where the IRB Authority and the Contractor fail to agree after negotiating in good faith, then the decision of the IRB Authority will prevail.
- 29.2. In the event that the Contractor fails to agree to the decision rendered by the IRB Authority, then the Contractor may, within twenty-eight (28) calendar days of receipt of Canada's decision, submit a request to the Contracting Authority, for reconsideration of the matter by the IRB Authority. Such a request shall fully describe the issue, all relevant factors and the reasons for the Contractor's disagreement. Industry Canada will, within twenty-eight (28) calendar days of receipt of the request, issue the final determination detailing the reasons for the decision.

30. Government Organizations

- 30.1. It is the responsibility of the Contractor to be familiar with Government departments and agencies including the following which are responsible for regional and industrial development: Industry Canada; Department of Western Economic Diversification (WD); Atlantic Canada Opportunities Agency (ACOA); and Canada Economic Development for Quebec (CED-Q).

31. Compliance with the *Lobbying Act*

- 31.1 The Contractor and its Eligible Parties each represents and warrants:
 - 31.1.1 that it has filed all *Lobbying Act* returns to be filed in respect of persons employed by it who communicate and/or arrange meetings with public office holders as part of their employment duties, and that it will continue to do so;
 - 31.1.2 that it has not contracted with any person to communicate and/or arrange meetings with public office holders for remuneration that is or would be contingent in any way upon success of such

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person arranging meetings with public office holders, or upon the approval and granting of IRB Credit under this Contract;

31.1.3 that it will not contract with any person to communicate and/or arrange meetings with public office holders for remuneration that is or would be contingent upon the success of such person arranging meetings with public office holders, or upon the approval and granting of IRB Credit under this Contract;

31.1.4 all persons who are or have been contracted by it to communicate and/or arrange meetings with public office holders in respect to this Contract are in full compliance with the registration and other requirements of the *Lobbying Act*;

31.1.5 it shall at all times ensure that any persons contracted to communicate and/or arrange meetings with public office holders in respect of this Contract are in full compliance with the requirements of the *Lobbying Act*.

31.2 When submitting each IRB Annual Report, the Contractor and its Eligible Parties must provide the IRB Authority with an update, in a form satisfactory to the IRB Authority, on all representations, warranties and undertakings made herein.

32. List of Eligible Parties

32.1. The Eligible Parties to this contract include the companies and coordinates listed below:

(List to be included once the contract has been negotiated)

33. List of Approved Global Value Chain Platforms

33.1. The Platforms approved for GVC work are listed below:

(List to be included once the contract has been negotiated)

Appendix BA1

Plans, Transactions and Tables

IRB Plans – to be attached from Contractor's IRB Proposal
 IRB Transactions – to be attached from Contractor's IRB Proposal
 IRB Tables – templates below, for IRB reporting purposes

Table 1: Total of IRB Transactions by Period and Region

Region	Period 1	Period 2	Period 3	Period 4	Period 5	Totals by Region
Atlantic						
Quebec						
West						
N. Ontario						
Ontario						
Unallocated						
Totals By Period						

Table 2: Total Direct IRB Transactions by Period and Region

Region	Period 1	Period 2	Period 3	Period 4	Period 5	Totals by Region
Atlantic						
Quebec						
West						
N. Ontario						
Ontario						
Unallocated						
Totals By Period						

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Table 3: Total Indirect IRB Transactions by Period and Region

Region	Period 1	Period 2	Period 3	Period 4	Period 5	Totals by Region
Atlantic						
Quebec						
West						
N. Ontario						
Ontario						
Unallocated						
Totals By Period						

Table 4: IRB Transaction Listing and Summary - by Period

Transaction Description	Period 1	Period 2	Period 3	Period 4	Period 5	Totals
Direct IRBs						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

Table 5: IRB Transaction Listing and Summary - by Region

Transaction Description	Atlantic	Quebec	Ontario	Northern Ontario	West	Totals
Direct IRBs						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

Table 6: IRB Transactions Listing and Summary for Small and Medium Business - by Period

Transaction Description	Period 1	Period 2	Period 3	Period 4	Period 5	Totals
Direct IRBs						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

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Table 7: IRB Transactions Listing and Summary for Small and Medium Business - by Region

Transaction Description	Atlantic	Quebec	Ontario	Northern Ontario	West	Totals
Direct IRBs						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

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Appendix BA2

Certificate of Compliance For IRB Reporting Purposes

WHEREAS Her Majesty the Queen, in right of Canada as represented by the Minister of Public Works and Government Services Canada (referred to herein as the Minister) on the ____ day of ____ has entered into contract with _____ for the Contract.

AND WHEREAS Such Contract requires that, as evidence of the achievement of Canadian Content Value of Industrial and Regional Benefits Transactions and Commitments, the Contractor shall submit a Certificate of Compliance to that effect to the IRB Authority;

NOW THEREFORE, The Contractor declares and certifies as follows:

- I) The information contained in the documents appended herewith, which applies to the reporting of the IRB Transaction periods is to the best of our knowledge and ability complete, true and correct;
- ii) The information contained in the documents appended herewith is compliant with information contained in Certificates of Compliance submitted to the Contractor by other Eligible Parties;
- iii) The Canadian Content Values shown in documents appended herewith have been determined in accordance with Article 4 (Canadian Content Value) of Volume 2 Module B of the Contract;

IN WITNESS THEREOF THIS CERTIFICATE OF COMPLIANCE HAS BEEN SIGNED THIS
____ DAY OF _____ BY THE SENIOR COMPTROLLER WHO IS DULY
AUTHORIZED IN THAT BEHALF.

SIGNATURE

NAME AND TITLE OF SENIOR COMPTROLLER

AT: _____

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Appendix BA3

IRB Transaction Sheet

1. IRB Transaction #:

2. IRB Transaction Title (a brief title identifying the nature of the transaction):

3. Indirect or Direct IRB Transaction:

Type of activity:

4. Transaction Value:

Total Transaction Value:

% of Canadian Content Value:

Total Canadian Content Value:

5. Sourcing Region:

Region:

City, Province:

6. Small and Medium Business - is the Recipient a Small and Medium Business:

Yes/No:

7. Company providing IRB (Donor):

Company:

Address:

Contact:

Tel:

Fax:

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8. Company Receiving IRB (Recipient):

Company:

Address:

Contact:

Tel:

Fax:

E-mail:

9. Industrial Sector, Technology and Expertise of the IRB Recipient:

Industrial Sector:

Federal Supply Class (FSC) – If known:

Enhanced Priority Technology List (EPTL): Yes / No

If YES:

EPTL Version:

Sector:

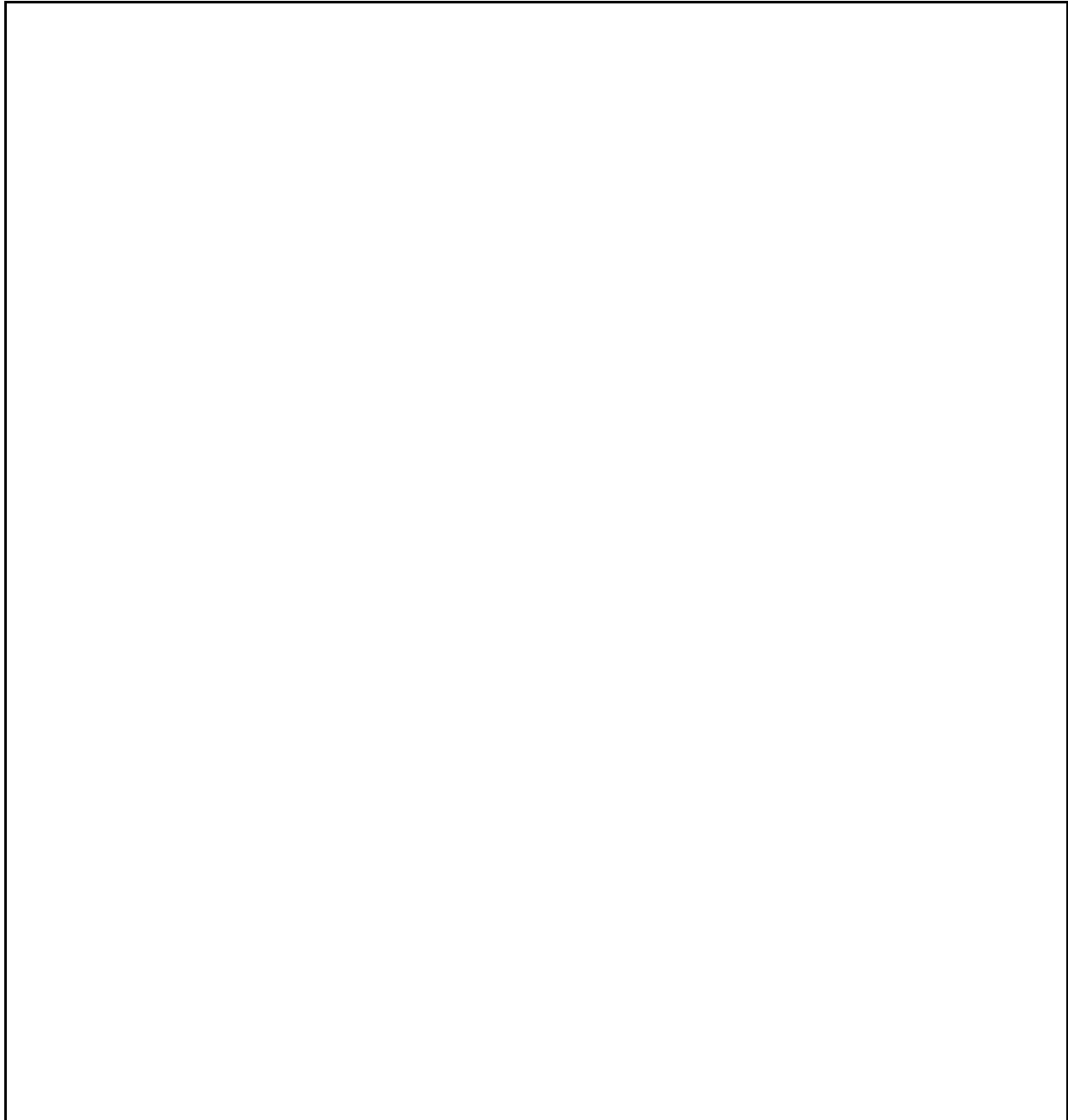
Category:

Describe and document the activity's relevance to the EPTL List Version 1.0 and its unique and/or transformational nature to existing global product offerings:

Description of the expertise of the IRB Recipient:

10. Description of the IRB Transaction and Canadian Recipient for the IRB Transaction:

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11. Quality of IRB:

Provide description of the quality of the individual Transaction. For example, increases in employment, increased marketability of recipient company, international exposure, experience with new technology, etc.

12. Provide and show justification for eligibility as a valid IRB Transaction (causality, timing, incrementality, eligible party and CCV):

13. Canadian Government Assistance:

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Does this apply? If so, provide a description of other Canadian Government assistance:

14. Time Phasing of IRB Transaction:

Total Contract Value of the Transaction		Total CCV		CCV %		Liquidated Damages: 10%			
\$		\$		%					
Period	Pre-Contract	1	2	3	4	5	6	7	Total
Region									
Atlantic									
Quebec									
Ontario									
N. Ontario									
Western									
Unallocated									
Total CCV									
Foreign									
Total									

15. Any other comment related to the Transaction:

16. Federal Supplier Classification (FSC) code.

Appendix BA4

Enhanced Priority Technology List – Version 1.0

Sector	Category	Description
Ships	Defence	Detection capabilities and decision aids
	Signature Management	Detectability reduction
Cyber	Network Monitoring	Detection and tracking of anomalous behaviours that threaten network defence capabilities
	Network Defence	Tools to support dynamic responses to isolate, monitor and defeat cyber intrusions
Aerospace	Arctic and Maritime Domain Awareness	Affordable aerospace-based surveillance and monitoring systems
	Vulnerability Reduction	Precision navigation and timing capabilities that reduce vulnerabilities in current systems such as GPS
Soldier Systems	Power and Energy	Lightweight high-energy portable power sources
	Full Spectrum Protection	Blast and ballistic omni-directional shielding
	Garment Platforms	Integrated multi-function electro-textiles
	Tunable Weapons Systems	Weapons systems which deliver effects across non-lethal and lethal environments
	Situation Awareness	Integrated, portable, lightweight, multifunction, wireless and secure C3 systems

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Appendix BA5

IRB CDRLs

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Module B Volume 2 Appendix BA5			B. Contract / RFP Number W4x-09ISSP/A																									
C. SOW Identifier		D. Data Category		E. Contractor																								
1. Item Number IRB-001		2. Title IRB Annual Report		3. Subtitle																								
4. Data Item Number IRB-001 IRB Annual Report		5. Reference IRB Terms and Conditions – Module B Volume 2, Clauses 2.2 and 3		6. Technical Office Industry Canada IRB Authority																								
7. Inspection N/A		8. Approval Code A		9. Review Period																								
10. Frequency ANNLY																												
11. As of Date Contract Award		12. Date of First Submission 14 MACA		13. Date of Subsequent Submission ANNLY																								
14. Remarks The IRB Annual Report will be reviewed by Industry Canada		15. Distribution <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2" style="text-align: left; padding: 5px;">Addressee</th> <th colspan="2" style="text-align: center; padding: 5px;">Draft</th> <th colspan="2" style="text-align: center; padding: 5px;">FINAL</th> </tr> <tr> <th style="text-align: center; padding: 5px;">Hard Copy</th> <th style="text-align: center; padding: 5px;">Soft Copy</th> <th style="text-align: center; padding: 5px;">Hard Copy</th> <th style="text-align: center; padding: 5px;">Soft Copy</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">PWGSC CA</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">1</td> </tr> <tr> <td style="padding: 5px;">IC IRB Auth</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">1</td> </tr> <tr> <td style="padding: 5px;">TOTAL</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">2</td> </tr> </tbody> </table>			Addressee	Draft		FINAL		Hard Copy	Soft Copy	Hard Copy	Soft Copy	PWGSC CA	0	0	0	1	IC IRB Auth	0	0	0	1	TOTAL	0	0	0	2
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16. Prepared By Industry Canada		17. Preparation Date 2012 January 20		18. Approved By Industry Canada																								
		19. Approval Date 2012 January 20																										

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A. Annex Description Module B Volume 2 Appendix BA5			B. Contract / RFP Number W4x-09ISSP/A																										
C. SOW Identifier		D. Data Category		E. Contractor																									
1. Item Number IRB-002		2. Title Tranche 2 IRB Transactions		3. Subtitle																									
4. Data Item Number IRB-002 Tranche 2 of proposed IRB Transactions		5. Reference IRB Terms and Conditions – Module B Volume 2, Clause 2.1.9		6. Technical Office Industry Canada IRB Authority																									
7. Inspection N/A	8. Approval Code A	9. Review Period 12 months	10. Frequency One																										
11. As of Date 12 MACA		12. Date of First Submission		13. Date of Subsequent Submission																									
14. Remarks Review period by IC – 12 months		15. Distribution																											
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C. SOW Identifier		D. Data Category		E. Contractor																								
1. Item Number IRB-003		2. Title Tranche 3 IRB Transactions		3. Subtitle																								
4. Data Item Number IRB-003 Tranche 3 of proposed IRB Transactions		5. Reference IRB Terms and Conditions – Module B Volume 2, Clause 2.1.10		6. Technical Office Industry Canada IRB Authority																								
7. Inspection N/A		8. Approval Code A		9. Review Period 12 months																								
				10. Frequency One																								
11. As of Date 36 MACA		12. Date of First Submission		13. Date of Subsequent Submission																								
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Appendix BA6

IRB DIDs

DATA ITEM DESCRIPTION – DESCRIPTION DE DONNÉES

1. TITLE – TITRE Industrial and Regional Benefits (IRB) Annual Report		2. IDENTIFICATION NUMBER – NUMÉRO D'IDENTIFICATION IRB-001	
3. DESCRIPTION / PURPOSE – DESCRIPTION / OBJET The IRB Report reports IRB achievements against Contract commitments.			
4. APPROVAL DATE DATE D'APPROBATION 2012 January 20	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) Industry Canada IRB Authority		6. GIDEP APPLICABLE – PROGRAMME D'ÉCHANGE DE DONNÉES PERTINENT
7. APPLICATION / INTERRELATIONSHIP – APPLICATION / INTERDÉPENDANCE Reference: IRB Terms and Conditions (Module B Volume 3, clauses 2.2 and 3)			
8. ORIGINATOR – AUTEUR IRB Authority, Industry Canada		9. APPLICABLE FORMS – FORMULES PERTINENTS	
10. PREPARATION INSTRUCTIONS – INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES 10.1 The Contractor must submit to the IRB Authority, through the PWGSC Contracting Authority (CA), annual IRB Reports based on the performance achieved during the IRB Reporting Periods noted in this Contract. These reports must be submitted 60 calendar days after the end of the annual IRB Reporting Period. Each annual IRB Report shall consist of four parts. 			

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Part C. for each IRB Transaction being reported, a description of the achievements, activities, delays and/or problems. A plan of action to resolve any difficulties.

Part D. A summary that shall include:

- i. the total amount of progress payments or invoices submitted by the Contractor for work completed since the Effective Date of the Contract;
- ii. a forecast of IRB achievements;
- iii. a description of Small and Medium Size Business development activities undertaken during the reporting period;
- iv. an explanation of any IRB shortfall in achievement evident from the data in Part A, and a plan of action to resolve the problem;
- v. a list of the IRB Transactions, which had been approved by the IRB Authority, which have since been cancelled, terminated, added or substantially altered during the reporting period, the details of any requested changes, their status vis-à-vis Contract amendment, and the reasons thereof;
- vi. a brief narrative describing, on an exception basis, any noteworthy developments with respect to Regional Small Business marketing considerations; and
- vii. a description and explanation of any proposed changes to the IRB Management Plan.

10.3 Additional Information

As evidence of the Contractor's achievement of IRB Commitments, the Contractor shall provide, appended to the IRB Annual Reports, a Certificate of Compliance, signed off by the senior company Comptroller, in respect of each IRB Transaction for which there was activity in that Reporting Period. The Certificate of Compliance also covers those IRB achievements of the Contractor's Eligible Parties and sub-contractors.

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DATA ITEM DESCRIPTION – DESCRIPTION DE DONNÉES

1. TITLE – TITRE Tranche 2 of proposed IRB Transactions		2. IDENTIFICATION NUMBER – NUMÉRO D'IDENTIFICATION IRB-002	
3. DESCRIPTION / PURPOSE – DESCRIPTION / OBJET The Contractor shall submit to the IRB Authority, at 12 months after contract award (MACA), acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 60% of the contract value, measured in CCV.			
4. APPROVAL DATE DATE D'APPROBATION 2012 January 20		5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) IRB Authority, Industry Canada	
6. GIDEP APPLICABLE – PROGRAMME D'ÉCHANGE DE DONNÉES PERTINENT			
7. APPLICATION / INTERRELATIONSHIP – APPLICATION / INTERDÉPENDANCE Reference: IRB Terms and Conditions (Module B Volume 3, clauses 2.1.9)			
8. ORIGINATOR – AUTEUR IRB Authority, Industry Canada		9. APPLICABLE FORMS – FORMULES PERTINENTS	
10. PREPARATION INSTRUCTIONS – INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES Contractor shall submit to the IRB Authority, at 12 MACA, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 60% of the contract value, measured in CCV. For each IRB Transaction, the information submitted must be in the same format as that which was used for the IRB Proposal submitted at bid closing.			

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2Draft003

DATA ITEM DESCRIPTION – DESCRIPTION DE DONNÉES

1. TITLE – TITRE Tranche 3 of proposed IRB Transactions	2. IDENTIFICATION NUMBER – NUMÉRO D'IDENTIFICATION IRB-003
3. DESCRIPTION / PURPOSE – DESCRIPTION / OBJET The Contractor shall submit to the IRB Authority, at 36 months after contract award (MACA), acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV.	
4. APPROVAL DATE DATE D'APPROBATION 2012 January 20	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) IRB Authority, Industry Canada
6. GIDEP APPLICABLE – PROGRAMME D'ÉCHANGE DE DONNÉES PERTINENT	
7. APPLICATION / INTERRELATIONSHIP – APPLICATION / INTERDÉPENDANCE Reference: IRB Terms and Conditions (Module B Volume 3, clauses 2.1.10)	
8. ORIGINATOR – AUTEUR IRB Authority, Industry Canada	9. APPLICABLE FORMS – FORMULES PERTINENTS
10. PREPARATION INSTRUCTIONS – INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES Contractor shall submit to the IRB Authority, at 36 MACA, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV. For each IRB Transaction, the information submitted must be in the same format as that which was used for the IRB Proposal submitted at bid closing.	

MODULE C

TO

VOLUME 2

(This Module C to Volume 2 can be found after this page. The Module C has a structure, format and page numbering of its own.)

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Volume 2, Annex CA

ANNEX CA TO VOLUME 2

STATEMENT OF WORK

FOR THE

ACQUISITION

OF THE

INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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1	1 Introduction
1.1	1.1 Scope
1.1.0-1	The Contractor must deliver an Integrated Soldier System (ISS) solution in accordance with (IAW) this Statement of Work (SOW) and the specifications that are attached.
1.2	1.2 Background
1.2.1	1.2.1 Project Summary
1.2.1.0-1	The ISS will be procured and supported via the use of two different contracts: the Acquisition Contract, Contract number Wxxxx-09ISSP/001/RA, for the integration, qualification and acquisition of the ISS, and the Optimised Weapon System Support (OWSS) Contract, Contract number Wxxxx-09ISSP/002/RA, for the long term support, and evolution of the ISS.
1.2.1.0-2	The ISS is being procured during the execution of the Acquisition contract, composed of two phases: a “System Qualification” phase and a “Production” phase.
1.2.1.0-3	During the “System Qualification” phase execution, the Contractor must provide objective evidence that the proposed ISS Suite (ISS-S) and enabling systems meet the technical requirements, demonstrate the fitness for use of the ISS, and provide the evidence that the ISS Integrated Logistic Support (ILS) solution proposed will sustain the ISS for the duration of the OWSS.
1.2.1.0-4	During the “Production” phase, the Contractor must produce and deliver the requisite ISS equipment, assist in fielding the system, and conduct the training, as stated in Annex CF.
1.2.1.0-5	The Contractor must setup the ISS support enabling systems and services necessary to sustain the ISS during the execution of the OWSS contract.
1.2.2	1.2.2 The Acquisition Contract phased objectives
1.2.2.0-1	Canada chose to take a phased approach for the acquisition of the ISS, consisting of a System Qualification Phase, followed by a Production Phase. The following paragraphs describe each phase objective in order for the acquisition to be successful.
1.2.2.1	1.2.2.1 System Qualification Phase objectives
1.2.2.1.0-1	The Contractor must deliver an ISS-S, a System Executive and Planning (SEP) Suite and Battle Management System (BMS) Software on a Canadian Forces (CF) Laptop, that satisfy the Technical Performance Specifications (TPS) and the User Acceptance

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	Performance Specifications (UAPS) documented in Annex CB of this Contract.
1.2.2.1.0-2	The Contractor must setup and implement services that must support other SOW activities documented at Annex CB.
1.2.2.1.0-3	Through the conduct of verification, qualification and test program IAW Figure 2, ISS System Qualification Life Cycle, the Contractor must qualify system elements and their interfaces.
1.2.2.1.0-4	The Contractor must produce and deliver the ISS-S models and required enabling systems, to support conduct of the System Acceptance Test (SAT).
1.2.2.1.0-5	The Contractor must provide Canada with objective evidence, such as data items and records, demonstrating the ISS meets its technical requirements.
1.2.2.1.0-6	The Contractor must demonstrate the system level performance and functionality of the ISS with the successful verification and conduct of SAT.
1.2.2.1.0-7	The Contractor must provide objective evidence, such as data items and records, demonstrating that the ILS solution must support the sustainment of the ISS for the duration of the OWSS Contract.
1.2.2.2	1.2.2.2 Production Phase objectives
1.2.2.2.0-1	The Contractor must provide objective evidence that his production and fabrication capacity is capable to produce and deliver the required number of ISS deliverables, IAW Figure 3, ISS Equipment Deliverables Illustration.
1.2.2.2.0-2	The Contractor must deliver the required number of ISS, compliant to their specifications, and IAW Annex CF.
1.2.2.2.0-3	The Contractor must produce and deliver the required number of ISS system elements and enabling systems, compliant to their specifications, and IAW Annex CF and Figure 3.
1.2.2.2.0-4	The Contractor must setup and implement the enabling systems and services necessary to sustain the ISS. These must be transitioned to OWSS to support in-service support.
1.2.2.2.0-5	The Contractor must provide the required technical publications and data items that must enable Canada to operate and maintain the ISS and its enabling systems.
1.2.2.2.0-6	The Contractor must successfully transition to OWSS and close the Acquisition Contract.
1.3	1.3 System Summary Description
1.3.0-1	The ISS is a weapon system which consists of the hardware, software, operating instructions and services structured as per section 3.3.1.1 of this SOW.

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1.4	1.4 DND Provided Facilities
1.4.0-1	Canada will provide facilities at a designated Main Operating Base (MOB) for use by the Contractor to perform the System Acceptance Testing.
1.5	1.5 The SOW Structure
1.5.0-1	The SOW documentation is structured in a series of annexes and supporting appendices. Figure 1 illustrates the Annexes and Appendices level of the SOW breakdown.
1.5.0-2	<p style="text-align: center;">Figure 1 - Volume 2 Module C Acquisition - Structure Diagram</p>
1.5.1	1.5.1 Annexes and Appendices
1.5.1.0-1	Annex CA is the Main Body of the SOW. Detailed content outline is provided at paragraph 1.5.2. Annex CA is supported by the following appendices:
1.5.1.0-1.0-1	○ Appendix 1 - Technical Reviews;
1.5.1.0-1.0-2	○ Appendix 2 - Support Concept;
1.5.1.0-1.0-3	○ Appendix 3 - Government Furnished Equipment List.
1.5.1.0-1.0-4	○ Appendix 4 - Personnel Requirements.
1.5.1.0-2	Annex CB contains the ISS Specifications. Annex CB is supported by the following

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	appendices:
1.5.1.0-2.0-1	○ Appendix 1 - Technical Performance Specification;
1.5.1.0-2.0-2	○ Appendix 2 - User Acceptance Performance Specification;
1.5.1.0-2.0-3	○ Appendix 3 - Mission Profile and Operational Mode Summary;
1.5.1.0-2.0-4	○ Appendix 4 - Failure Definition and scoring criteria;
1.5.1.0-2.0-5	○ Appendix 5 - Audio Display Test Procedure.
1.5.1.0-2.0-6	○ Appendix 6 - System Acceptance Test Scenario Instructions
1.5.1.0-2.0-7	○ Appendix 7 - MLCS Platform TDP Manufacturing Data
1.5.1.0-2.0-8	○ Appendix 8 - ISS Generic Pouches TDP Manufacturing Data
1.5.1.0-2.0-9	○ Appendix 9 - Conceptual Load
1.5.1.0-2.0-10	○ Appendix 10 - Miscellaneous Test Data and Test Procedure Requirements.
1.5.1.0-2.0-11	○ Appendix 11 - Power Consumption Test Procedure Requirements.
1.5.1.0-2.0-12	○ Appendix 12 - MLCS Verification and Quality Control Requirements.
1.5.1.0-3	Annex CC Specifies the Contract Data Requirements List (CDRL) and accompanying Data Item Descriptions (DID). This annex is supported by the following appendices:
1.5.1.0-3.0-1	○ Appendix 1 - CDRLs;
1.5.1.0-3.0-2	○ Appendix 2 - DIDs.
1.5.1.0-4	Annex CD specifies the Terms and Conditions of Loan Agreements.
1.5.1.0-5	Annex CE provides a list of References, Acronyms and a Glossary.
1.5.1.0-6	Annex CF contains the ISS Contract Deliverables List.
1.5.2	1.5.2 Annex CA Structure - SOW Main Body
1.5.2.0-1	The Acquisition SOW main body (Annex CA) is structured as follows:
1.5.2.0-1.0-1	○ Section 1 Introductory material is for information and provides insight into the project context, the system and the SOW structure.
1.5.2.0-1.0-2	○ Section 2 provides administrative direction for glossary, acronyms and applicable

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	documents, and Government Property associated with the SOW.
1.5.2.0-1.0-3	<ul style="list-style-type: none"> ○ Section 3 defines the work requirements, the project phase dependent work requirements, and points to the detailed work requirements in subsequent sections. This section provides the timeline upon which the disciplinary streams of work (documented in sections 4 to 8) will deliver work products.
1.5.2.0-1.0-4	<ul style="list-style-type: none"> ○ Section 4 specifies the Project Management functions and additional requirements.
1.5.2.0-1.0-5	<ul style="list-style-type: none"> ○ Section 5 specifies the Engineering functions and additional requirements.
1.5.2.0-1.0-6	<ul style="list-style-type: none"> ○ Section 6 specifies the ILS functions and additional requirements.
1.5.2.0-1.0-7	<ul style="list-style-type: none"> ○ Section 7 specifies the Configuration Management (CM) and Data Management (DM) functions and additional requirements.
1.5.2.0-1.0-8	<ul style="list-style-type: none"> ○ Section 8 specifies the Quality Assurance (QA) Program functions and additional requirements.
1.5.2.0-1.0-9	<ul style="list-style-type: none"> ○ Section 9 defines the Infrastructure Support Services work to be provided to Canada by the Contractor in support of the project during the Acquisition Contract.
2	2 Administration
2.1	2.1 Glossary and Acronyms
2.1.0-1	The Glossary of Terms and Acronyms used in this SOW are defined in Annex CE.
2.1.0-2	First use of an Acronym will follow (in parenthesis) the first use of the term it represents.
2.2	2.2 Applicable Documents
2.2.1	2.2.1 Applicability
2.2.1.0-1	The documents identified in Annex CE support this SOW and must be considered as supplemental information if not specifically identified in the text of this SOW. The standards, specifications and publications identified in Annex CE are applicable to the extent specified in this SOW.
2.2.1.0-2	In the event of a conflict between the text of this SOW and the references cited herein, the text of this SOW must take precedence.
2.2.1.0-3	In the event of inconsistency within the SOW, the Technical Authority (TA) must be contacted for clarification.
2.3	2.3 Standards, Specifications and Publications

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2.3.0-1	International, National and industry standards; guidelines; specifications; and publications, which are readily available publicly and commercially, will not be provided by Canada.
3	3 General Work Requirements
3.1	3.1 General
3.1.0-1	The Acquisition Contract covers the System Qualification and Production Phases of the ISS Project (ISSP). The Contractor is to draw from its organizational capability to establish programs specific to the work requirements of this SOW. The Contractor must manage the work IAW the accepted plans required by Canada, and support the work with the Infrastructure Support Services identified at section 9.
3.1.0-2	Section 3.1 specifies general work requirements which are not phase specific.
3.1.0-3	Section 3.2 specifies work for the Qualification Phase.
3.1.0-4	Section 3.3 specifies the work specific to the Production Phase.
3.1.1	3.1.1 Establish project capabilities and services
3.1.1.0-1	The Contractor must establish, implement and maintain the following capabilities:
3.1.1.0-1.0-1	<ul style="list-style-type: none"> ○ A Project Management capability that encompasses the ISS Project Processes IAW the work requirements of section 4 of this SOW.
3.1.1.0-1.0-2	<ul style="list-style-type: none"> ○ An Engineering capability that encompasses the ISS Technical Processes and Software Specific Processes IAW the work requirements of section 5 of this SOW.
3.1.1.0-1.0-3	<ul style="list-style-type: none"> ○ An ILS capability IAW the work requirements of section 6 of this SOW.
3.1.1.0-1.0-4	<ul style="list-style-type: none"> ○ A CM capability IAW the work requirements of section 7 of this SOW.
3.1.1.0-1.0-5	<ul style="list-style-type: none"> ○ A QA capability IAW the work requirements of section 8 of this SOW.
3.1.1.0-1.0-6	<ul style="list-style-type: none"> ○ The Contractor must provide the Infrastructure Support Services IAW the work requirements of section 9 of this SOW.
3.1.2	3.1.2 Plan the project
3.1.2.0-1	The Contractor must deliver a Project Management Plan (PMP) IAW CDRL PM-001 .
3.1.2.0-2	The Contractor must deliver a System Engineering Management Plan (SEMP) with CDRL SE-001 .

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3.1.2.0-3	The Contractor must deliver a Configuration Management Plan (CMP) in accordance CDRL CM-001 .
3.1.2.0-4	The Contractor must deliver a Quality Assurance Plan (QAP) IAW CDRL PM-002 .
3.1.2.0-5	The Contractor must deliver an Integrated Logistics Support Plan (ILSP) IAW CDRL LS-001 .
3.1.2.0-6	The Contractor must deliver a Master Project Schedule (MPS) and Work Breakdown Structure (WBS) IAW CDRL PM-003 .
3.1.3	3.1.3 Acquisition Contract Phases
3.1.3.0-1	The Contractor must plan and perform the work in two phases.
3.1.3.0-2	The Contractor must perform System Qualification Phase work IAW section 3.2 of this SOW.
3.1.3.0-3	Upon successful completion of the System Qualification Phase work, and after a Contract Amendment authorizing Production Phase, the Contractor must perform Production Phase work IAW section 3.3 of this SOW.
3.1.4	3.1.4 Concurrent Work
3.1.4.0-1	The Contractor must be capable of performing the Production Phase work concurrently and in parallel with work associated with the OWSS Contract.
3.1.4.0-2	In the event that the Contractor is tasked to support the ISS under the OWSS Contract, the Contractor must assure the transition and interfaces between the work products of the Acquisition Contract, with that of the OWSS Contract, IAW the activities specified at section 4 of this SOW and the accepted PMP (CDRL PM-001).
3.1.5	3.1.5 Configuration Management
3.1.5.0-1	The Contractor must manage the configuration of the work products during both phases IAW the activities specified at section 7 of this SOW and the accepted CMP (CDRL CM-001).
3.1.5.1	3.1.5.1 Configuration Control
3.1.5.1.0-1	In the event that the TA provides an Engineering Change Request (ECR), the Contractor must perform the work IAW configuration control process as documented in the CMP (CDRL CM-001) in order to deliver an Engineering Change Proposal (ECP) (CDRL CM-002).

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3.1.5.1.0-2	The Contractor must comply with the ECP process description at section 7 of this SOW.
3.1.5.1.0-3	The Contractor must follow the ECP process when responding to the TA initiated ECR.
3.1.5.2	3.1.5.2 Task Authorization
3.1.5.2.0-1	The Task Authorisation process will be followed to authorise any TA initiated:
3.1.5.2.0-1.0-1	○ Technical Investigation and evaluation service (TIES) requests, or
3.1.5.2.0-1.0-2	○ ECRs.
3.1.5.2.0-2	The Contractor must perform the task IAW the approved Task Authorisation process.
3.1.5.3	3.1.5.3 Contract Change Proposal
3.1.5.3.0-1	In the event that a TA initiated ECR or Contractor initiated ECP requires a contract change, the Contract Change Proposal process must be followed.
3.1.6	3.1.6 Quality Assurance
3.1.6.0-1	The Contractor must assure the quality of the process and product, IAW the accepted QAP (CDRL PM-002).
3.1.7	3.1.7 Infrastructure Support Services.
3.1.7.1	3.1.7.1 Electronic Information Environment (EIE) Services
3.1.7.1.0-1	The Contractor must establish the EIE services specified at section 9 of this SOW, in time to provide the information items and data, called for in this SOW, and as specified at Annex CC.
3.1.7.1.0-2	The Contractor must operate and maintain the EIE services for the duration of the System Qualification phase of the Acquisition Contract.
3.1.7.1.0-3	The Contractor must maintain the integrity and availability of information items, data and records placed on the EIE, for the duration of the System Qualification phase of the Acquisition Contract.
3.1.7.2	3.1.7.2 Engineering Support Services
3.1.7.2.0-1	The Contractor must establish and maintain the Engineering Support Services specified at section 9.3 of this SOW within 1 Month After Contract Award (MACA).
3.2	3.2 System Qualification phase Work

3.2.1

3.2.1 System Qualification Life Cycle

3.2.1.0-1

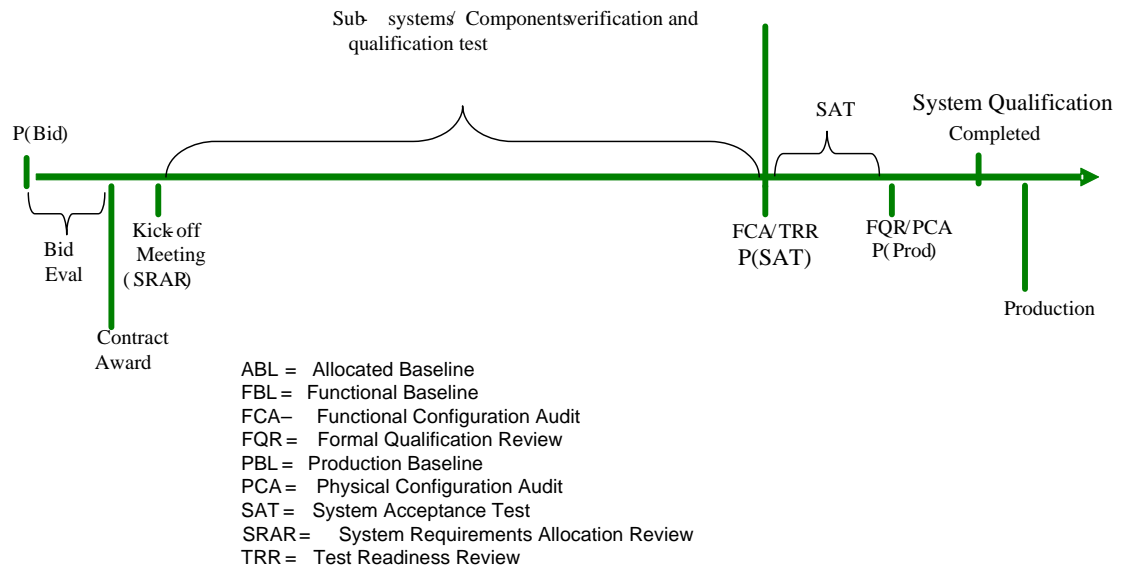


Figure 2 - ISS System Qualification Life Cycle

3.2.1.0-2

As illustrated at figure 2, during the System Qualification Phase, the Contractor will evolve the ISS configuration from the P(Bid) state to the P(Prod) state. The ISS P(Bid) state is the configuration of the system presented to Canada at Bid Time. The P(SAT) state of the system is the configuration of the system after having successfully completed the TRR. The P(Prod) state of the system is the configuration of the system after having successfully completed the FQR/PCA. Because Canada does not expect many design changes from the P(Bid) to the P(SAT) configuration, no specific design review have been imposed by Canada. It is expected that any changes to the design will be handled through the ECP process.

3.2.1.0-3

For any changes to the system configuration, proposed by either the Contractor or TA, the Contractor must follow the ECP process specified in section 7 of this SOW, and IAW the accepted CMP (**CDRL CM-001**).

3.2.1.0-4

The Contractor must perform the System Qualification Phase work within a nine (9) month duration.

3.2.2

3.2.2 Manage System Qualification work

3.2.2.0-1

The Contractor must initiate, plan and estimate, execute and control, measure, review and evaluate, close and deliver work and work products IAW the accepted PMP (**CDRL PM-**

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	001) and subordinate plans.
3.2.2.0-2	The Contractor must track the progress of the work using the MPS and WBS (CDRL PM-003).
3.2.2.0-3	The Contractor must maintain the MPS and WBS current such that it reflects the actual work in progress.
3.2.2.0-4	The Contractor must prepare and deliver Monthly Progress Reports IAW CDRL PM-004 .
3.2.2.1	3.2.2.1 Progress Review Meetings (PRM)
3.2.2.1.0-1	The Contractor must perform quarterly Progress Review Meetings (PRMs) IAW the accepted PMP (CDRL PM-001).
3.2.2.1.0-2	The Contractor must prepare and deliver a PRM Meeting agenda IAW CDRL PM-005 .
3.2.2.1.0-3	The Contractor must prepare and deliver PRM Meeting minutes IAW CDRL PM-006 .
3.2.2.1.0-4	The Contractor must prepare and deliver the Issue- Action Item Log (IAIL) IAW CDRL PM-007 .
3.2.2.1.1	3.2.2.1.1 Kick-off meeting
3.2.2.1.1.0-1	The first PRM must be a combined Acquisition Contract and System Qualification Phase kick-off meeting.
3.2.2.1.1.0-2	The Contractor must conduct the Acquisition Contract and System Qualification Phase kick-off meeting within 2 weeks after Contract Award.
3.2.2.1.2	3.2.2.1.2 Other Meeting Travel considerations
3.2.2.1.2.0-1	The Contractor must conduct other meetings IAW the accepted PMP (CDRL PM-001).
3.2.2.1.2.0-2	In the event that other meetings are required, the Contractor must make every effort to minimise Canada's travel costs by ensuring that the meetings are scheduled to coincide with other events requiring Canada's personnel presence at the meeting site.
3.2.3	3.2.3 ISS-S
3.2.3.1	3.2.3.1 Modular Load Carriage System (MLCS)
3.2.3.1.0-1	The MLCS is a Canada provided design (Module C, Annex CB, Appendices 7 and 8) and consists of the vest Platform, Combat pouches and ISS Pouches. The Contractor, in their proposal, may have modified, or augmented the MLCS Platform or ISS Pouch designs in order to provide an optimal solution.

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3.2.3.1.0-2	In the event that the Contractor's solution requires modifications to the MLCS design, the Contractor must prepare and deliver an ECP IAW CDRL CM-002 for approval by the TA.
3.2.3.1.0-3	The Contractor must include with the MLCS ECP a Notice of Revision (NOR) prepared and delivered IAW CDRL CM-003 for all changes to MLCS design information documented in the MLCS Technical Data Package (TDP) (Volume 2, Annex CB, Appendix 7 and Appendix 8).
3.2.3.1.0-4	The Contractor must produce the P(SAT) MLCS IAW the TPS (Volume 2 Annex CB Appendix 1) and the revised and approved MLCS TDPs (Volume 2 Annex CB Appendix 7 and Appendix 8) .
3.2.3.1.0-5	The Contractor must produce the P(SAT) MLCS in sufficient sizes and quantities such that the conduct of SAT is supported.
3.2.3.1.0-6	The Contractor must plan for the Production Phase requirements for delivering to Canada the requisite numbers of systems as specified in Annex CF to this Contract.
3.2.3.2	3.2.3.2 ISS Interface Descriptions
3.2.3.2.0-1	The Contractor must prepare and deliver an Interface Control Document (ICD), IAW CDRL SE-002 , for the following:
3.2.3.2.0-1.0-1	<ul style="list-style-type: none"> ○ Hardware, software and data interfaces between ISS-Electronics Suite (ISS-ES) physical devices hosting ISS functionality.
3.2.3.2.0-1.0-2	<ul style="list-style-type: none"> ○ Hardware, software and data interfaces between ISS-S and the SEP-Suite.
3.2.3.2.0-1.0-3	<ul style="list-style-type: none"> ○ Hardware, software and data interfaces between ISS-S and the BMS function on CF Laptop.
3.2.3.2.0-1.0-4	<ul style="list-style-type: none"> ○ Hardware, software and data interfaces between ISS-S and the following external systems:
3.2.3.2.0-1.0-4.0-1	<ul style="list-style-type: none"> • Coral-CR-C
3.2.3.2.0-1.0-4.0-2	<ul style="list-style-type: none"> • Defence Advanced GPS Receiver (DAGR)
3.2.3.2.0-1.0-4.0-3	<ul style="list-style-type: none"> • PRC 152 Radio
3.2.3.2.0-1.0-4.0-4	<ul style="list-style-type: none"> • PRC 148 Radio.
3.2.3.2.0-1.0-4.0-5	<ul style="list-style-type: none"> • PRC 117 Radio.
3.2.3.2.0-2	The Contractor must deliver the ICDs (CDRL SE-002) in either a single document or

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	multiple documents in order to address all the requirements of this SOW.
3.2.3.3	3.2.3.3 BMS on a CF Laptop
3.2.3.3.0-1	The BMS on a CF Laptop is an ISS-S enabling system which provides an operator with the ability to perform operational preparation functions. The BMS on a CF Laptop consists of Contractor provided software hosted on a CF Laptop, and the Contractor provided information-data transfer mechanism between the ISS-S and the BMS on a CF Laptop.
3.2.3.3.0-1.0-1	The Contractor must design, realise, integrate and test the BMS on a CF Laptop software IAW the accepted SEMP (CRDL SE-001).
3.2.3.4	3.2.3.4 SEP-Suite
3.2.3.4.0-1	The SEP-Suite is an ISS-S enabling system which provides an operator with the ability to perform System Management Functions and signals mission planning. The SEP-Suite consists of Contractor provided software hosted on a CF-Laptop, and a Contractor provided information-data transfer mechanism between the ISS-S and the SEP-Suite.
3.2.3.4.0-2	The Contractor must design, develop, integrate and test the SEP-Suite software IAW the accepted SEMP (CDRL SE-001).
3.2.4	3.2.4 Battery System
3.2.4.0-1	The Contractor must perform a risk assessment on ISS Batteries and ISS-ES Internal Batteries (if provided). This risk assessment is to be based on probable damages through operational effects such as crushing, perforation, overheating, charging or any other similar situations. The risk assessment is to consider impacts due to probable damages resulting in the release of hazardous materials.
3.2.4.0-2	The Contractor must report the Battery risk assessment findings in the Environmental Health and Safety Assessment (EHSA) and submit IAW CDRL PM-008 .
3.2.4.0-3	Canada intends to reduce the numbers and types of power supplies and rechargers to be deployed during Land Force operations. In order to specify and acquire a multifunction recharger, Canada requires information concerning the battery technology proposed by the Contractor.
3.2.4.0-4	The Contractor must prepare and deliver a Battery System Description document IAW CDRL SE-003 for acceptance by the TA.
3.2.5	3.2.5 ISS P(SAT)
3.2.5.0-1	The Contractor must design, fabricate, acquire and produce ISS system elements, in sufficient quantities and configurations, in order to support the System Qualification

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	activities IAW the Verification and Qualification Plan (VQP) CDRL SE-004 .
3.2.5.0-2	The Contractor must produce MLCS Platform and ISS Pouches pre-production prototypes compliant to MLCS Platform TDP (Annex CB Appendix 7 and Appendix 8).
3.2.5.0-3	The Contractor must prepare and deliver an SEP-Suite ICD IAW CDRL SE-002 .
3.2.5.0-4	The Contractor must produce and configure the number of MLCS pre-production prototypes which are necessary to conduct the Verification and Qualification (VQ) program and the SAT program of this SOW.
3.2.6	3.2.6 ILS
3.2.6.0-1	The Contractor must deliver the ISS-S and support its deployment IAW the ILS requirements specified at Section 6 of this SOW.
3.2.7	3.2.7 Infrastructure Support Systems and Services
3.2.7.1	3.2.7.1 EIE
3.2.7.1.0-1	The Contractor must establish EIE services IAW the EIE requirements stated at section 9 of this SOW.
3.2.7.2	3.2.7.2 Requirements Traceability Verification Matrix (RTVM) - DOORS
3.2.7.2.0-1	The Contractor must complete and maintain current the RTVM view of the TPS DOORS module. The TPS is in Annex CB Appendix 1 to this Contract.
3.2.7.2.0-2	The Contractor must provide the RTVM support stated at section 9 of this SOW.
3.2.8	3.2.8 ISS Verification and Qualification
3.2.8.0-1	The TPS and UAPS (Annex CB) specify the verification method and criteria for each requirement.
3.2.8.0-2	The Contractor must verify the system IAW the Verification Method and Verification Criteria specified in the TPS and UAPS.
3.2.8.0-3	The Contractor must conduct VQ activities IAW the VQP (CDRL SE-004).
3.2.8.1	3.2.8.1 ISS Verification and Qualification activities
3.2.8.1.0-1	The Contractor must prepare and deliver a VQP IAW CDRL SE-004 for approval by the TA.
3.2.8.1.0-2	The RTVM completed by the Contractor identifies the traceability of the ISS

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	requirements to the Contractor's ISS Design.
3.2.8.1.0-3	The RTVM, completed by the Contractor, identifies the traceability of the ISS requirements to the Contractor's VQP and applicable Qualification and Test Description and Procedures (QTDPs).
3.2.8.1.0-4	The Contractor must qualify the ISS-S software on its respective target environment IAW the approved VQP.
3.2.8.1.0-5	The Contractor must qualify the BMS Software on the CF Laptop target environment IAW the approved VQP.
3.2.8.1.0-6	The Contractor must prepare and deliver the QTDP IAW CDRL SE-005 for approval by the TA.
3.2.8.1.0-7	The Contractor must submit as many QTDP documents as required to cover all of the verification requirements and as documented in the approved VQP.
3.2.8.1.0-8	The Contractor must verify and qualify each requirement specified in the TPS and UAPS, in accordance to the Verification Method and Verification Criteria identified.
3.2.8.1.0-9	The Contractor must qualify the SEP-Suite on the CF Laptop target environment IAW the approved VQP.
3.2.8.1.0-10	The Contractor must perform the Qualification Tests IAW the approved QTDP (CDRL SE-005).
3.2.8.1.0-11	The Contractor must maintain the RTVM IAW the approved VQP CDRL SE-004 .
3.2.8.1.0-12	The Contractor must place under CM all outcomes resulting from the VQ activities IAW the accepted CMP CDRL CM-001 .
3.2.8.1.0-13	The Contractor must record and report VQ Test Results IAW the Verification Qualification Test Report CDRL SE-006 for approval by the TA.
3.2.8.1.0-14	The Contractor must make available the VQ results through the EIE services.
3.2.8.2	3.2.8.2 Support to Canada for RADHAZ verification
3.2.8.2.0-1	The Contractor must provide five (5) working days of systems engineering support to Canada in order for Canada to conduct Radio Frequency Radiation Hazard (RADHAZ) and Hazard of Electromagnetic Radiation to Ordnance (HERO) verification.
3.2.8.2.0-2	The Contractor must make available to the TA a minimum of quantity two ISS-S for a minimum of two weeks, during the qualification of the system elements, to allow Canada to conduct HERO and RADHAZ testing.

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3.2.8.2.0-3	As tasked by the TA, through a task authorization mechanism (DND 626 process), the Contractor must provide additional support to the TA for the preparation and conduct of the HERO and RADHAZ testing.
3.2.8.2.0-4	HERO and RADHAZ test schedule will be agreed between the Contractor and the TA.
3.2.8.2.0-5	RADHAZ testing will be conducted and completed before SAT.
3.2.8.2.0-6	HERO testing, as required, will be conducted and completed before SAT.
3.2.9	3.2.9 ISS System Acceptance Test (SAT)
3.2.9.0-1	Qualification of the overall ISS-S includes successful completion of SAT. SAT will be comprehensive tests conducted at the ISS-S level in field conditions.
3.2.9.0-2	Successful completion of SAT will be determined at a Formal Qualification Review (FQR) following a review of the SAT Report from the SAT executed based on the TA approved SAT Plan (SATP) and SAT Descriptions and Procedures (SATDP). FQR must be conducted as per section 3.3 of Appendix 1 to this SOW.
3.2.9.1	3.2.9.1 SAT Plan
3.2.9.1.0-1	The Contractor must prepare and deliver a SATP IAW CDRL SE-007 for approval by the TA.
3.2.9.1.0-2	The Contractor must maintain the SATP.
3.2.9.1.0-3	For planning purposes the Contractor must plan for the SAT to be conducted at CF Base (CFB) Petawawa. The final location for SAT will be confirmed no later than at the Acquisition Contract and System Qualification kick-off meeting.
3.2.9.1.0-4	It is important to note that the availability of Government Furnished Facilities is constrained by operational priorities. As such, any changes or modifications considered by the Contractor to the SAT schedule must be reported immediately.
3.2.9.2	3.2.9.2 Manage the SAT
3.2.9.2.0-1	The Contractor must conduct SAT IAW the approved SATP and the approved SATDP.
3.2.9.2.0-2	In the event that the Contractor holds SAT Meetings, the Contractor must:
3.2.9.2.0-2.0-1	○ prepare and deliver a SAT Meeting agenda IAW CDRL PM-005 ;
3.2.9.2.0-2.0-2	○ conduct SAT Meetings IAW the PMP (CDRL PM-001);
3.2.9.2.0-2.0-3	○ prepare and deliver the SAT Meeting Minutes IAW CDRL PM-006 ; and

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3.2.9.2.0-2.0-4	○ prepare and deliver the SAT IAIL IAW CDRL PM-007 .
3.2.9.2.0-2.0-5	○ The Contractor must track SAT issues and Action Items (AIs) to closure.
3.2.9.3	3.2.9.3 SAT Descriptions and procedures
3.2.9.3.0-1	The Contractor must prepare and deliver test cases, descriptions and procedures IAW the SATDP CDRL SE-008 for approval by the TA.
3.2.9.3.0-2	The Contractor must perform SAT IAW the approved SATDP CDRL SE-008 .
3.2.9.3.1	3.2.9.3.1 Scenarios
3.2.9.3.1.0-1	The SATDP (CDRL SE-008) must be based on, built from and comply with the SAT Scenario Instruction provided at Annex CB, Appendix 6.
3.2.10	3.2.10 Produce ISS P(SAT) systems
3.2.10.0-1	The Contractor must manufacture 32 ISS-S P(SAT) to satisfy the SAT requirements.
3.2.10.0-2	The Contractor must manufacture sufficient ISS Interface Cable sets to satisfy the SAT requirements.
3.2.10.0-3	The Contractor must ensure that the ISS-S P (SAT) configured systems satisfy the SAT requirements of the TPS and UAPS.
3.2.10.0-4	The Contractor must take into consideration the requirement to prepare and deliver ISS P(SAT) prototypes during Production Phase as per section 3.3.4 of this SOW.
3.2.10.0-5	The Contractor must create a version of the ISS SEP-Suite which enables the ISS-S P(SAT) to be loaded with the information, records and data required to conduct SAT.
3.2.10.1	3.2.10.1 Perform SAT
3.2.10.1.0-1	Upon successful completion of the Test Readiness Review (TRR), the Contractor must conduct SAT, IAW the approved SATP (CDRL SE-007) and SATDP (CDRL SE-008), to obtain TA acceptance of the System.
3.2.10.1.0-2	SAT must be performed by the Contractor and will be witnessed by Canada.
3.2.10.2	3.2.10.2 Review and Evaluation of SAT
3.2.10.2.0-1	The Contractor must review and evaluate SAT results.
3.2.10.2.0-2	The Contractor must record and report SAT results IAW the SAT Report (CDRL SE-009) for approval by the TA.

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3.2.10.2.0-3	The Contractor must record and report problems using the problem reporting mechanism identified in section 9 of this SOW.
3.2.10.2.0-4	The Contractor must track SAT problems to closure and advise the TA when SAT problems are closed.
3.2.11	3.2.11 Formal Technical Reviews
3.2.11.0-1	As illustrated in Figure 2, the Contractor must incorporate in the ISS System Qualification Life Cycle the following decision gates, or Technical Reviews:
3.2.11.0-1.0-1	○ A System Requirements Allocation Review (SRAR);
3.2.11.0-1.0-2	○ A TRR;
3.2.11.0-1.0-3	○ A FQR.
3.2.11.0-2	These technical reviews are necessary in order to provide the TA with the information items, data and records, which are the objective evidence of achieving work objectives associated with different states of the system.
3.2.11.1	3.2.11.1 Plan for Formal Technical Reviews
3.2.11.1.0-1	The Contractor must document the Formal Technical Review process in the SEMP (CDRL SE-001).
3.2.11.1.0-2	The Contractor must incorporate the Formal Technical Reviews requirements specified at Appendix 1 of this SOW, which identifies the information items and data expected to be reviewed and the resulting state of the system baseline once successful completion of the review is achieved.
3.2.11.2	3.2.11.2 ISS States
3.2.11.2.0-1	Given the evolutionary nature of the system and the production of prototypes for bid and during System Qualification Phase, the ISS undergoes several state changes.
3.2.11.2.0-2	Upon completion of each Formal Technical Review the Contractor must place all information items, data and records associated with the ISS under Configuration Management.
3.2.11.2.0-3	○ P(Bid) is the ISS Equipment Breakdown Structure (EBS), evaluation prototypes and configuration information after successfully completing SRAR.
3.2.11.2.0-4	○ P(SAT) is the ISS EBS and configuration information after successfully completing TRR.

3.2.11.2.0-5 ○ P(Prod) is the ISS EBS and configuration information after successfully completing FQR.

3.2.11.3 Audits during System Qualification Phase

3.2.11.3.0-1 The Contractor must perform Functional Configuration Audit (FCA) and a Physical Configuration Audit (PCA) IAW the accepted CMP (**CDRL CM-001**).

3.3 Production Phase Work

3.3.0-1 During the Production Phase, the Contractor will fabricate, manufacture, procure, inspect, assemble, test, package and deliver the ISS P(Prod) system elements as illustrated in figure 3.

3.3.1 ISS Deliverables

3.3.1.0-1

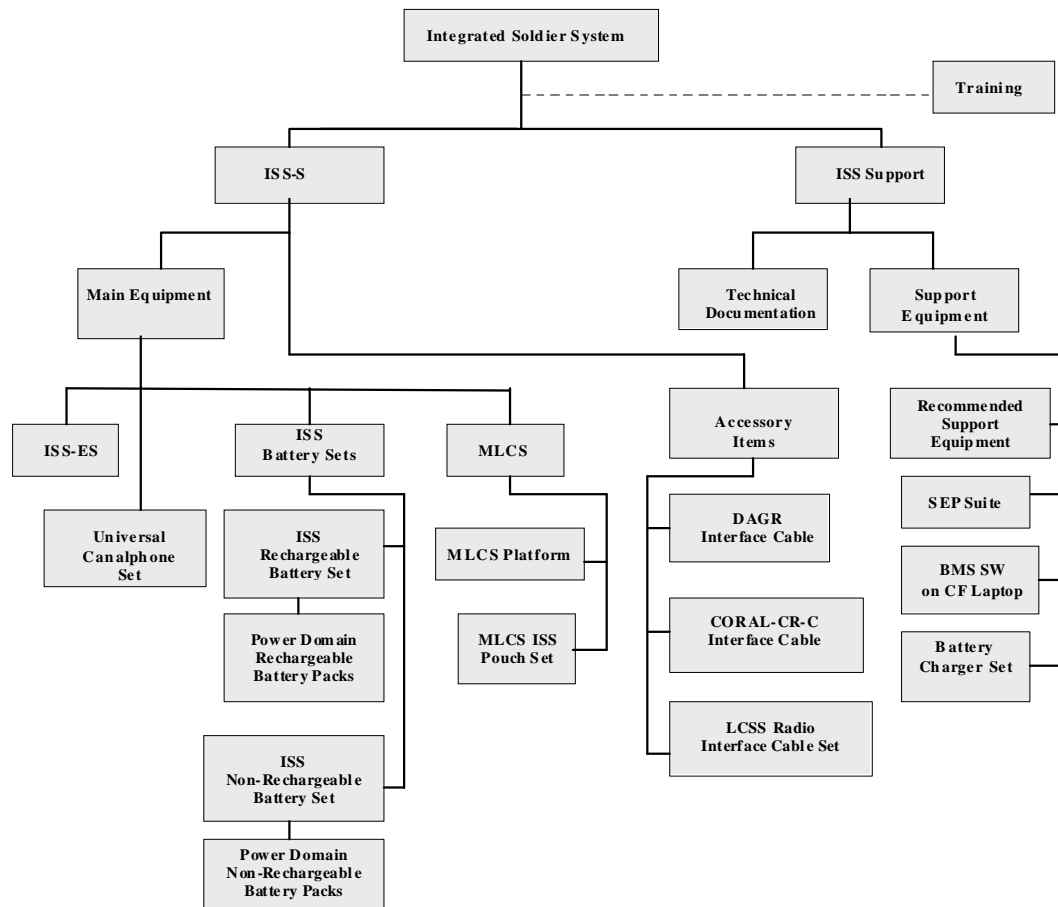


Figure 3 - ISS Equipment Deliverables Illustration

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3.3.1.1	3.3.1.1 ISS Deliverables Definitions
3.3.1.1.0-1	The following provides definitions in support of the Annex CF Deliverables List and Annex AB, ISS-A Price proposal presentation sheet. Figure 3 does not infer a system breakdown and does not constrain the Contractors' solution. It is shown only to provide a context for the definitions and for what is called upon at Annex CF and Annex AB.
3.3.1.1.0-2	It is recognised that, the ISS solution requires that the Contractor integrate ISS system elements which are provided by Canada. This section of the SOW however, focuses only on the system elements and equipment which are to be delivered to Canada, by the Contractor, resulting from ISSP Production phase work. Figure 3 does not include the Canada provided system elements.
3.3.1.1.0-3	ISS: includes all equipment acquired by Canada under this SOW.
3.3.1.1.0-4	Training: Training, as identified in Figure 3 includes all training deliverables as listed in Annex CF.
3.3.1.1.0-5	ISS-S: All equipment that the soldier wears and carries with him/her in any shape or form, including the software, electronic equipment, cables, MLCS, batteries and any other component required to meet the ISSP TPS.
3.3.1.1.0-6	Main Equipment: All ISS-S equipment except the Accessory Items, as defined in this section.
3.3.1.1.0-6.0-1	ISS-ES: All physical electronics devices and all cabling that is worn by the soldier as part of the ISS-S Main Equipment, including all software and firmware running on the soldier-worn equipment. Excludes Battery Sets, MLCS and Universal Canaphone Set.
3.3.1.1.0-6.0-2	Canalphones: Earphones that are inserted directly into the ear canal. Canalphones offer portability similar to ear buds, and also act as earplugs to block out environmental noise. There are two main types of canalphones: universal and custom. Universal canalphones provide one or more stock sleeve size(s) to fit various ear canals, which are commonly made out of silicone rubber, elastomer, or foam, for noise isolation. Custom canalphones are fitted to the ears of each individual. Castings of the ear canals are made and the manufacturer uses the castings to create custom-moulded silicone rubber or elastomer plugs that provide added comfort and noise isolation
3.3.1.1.0-6.0-3	Universal Canaphone Set: Set of Universal Canalphones to be used with the ISS-S Audio Display, one set includes two canalphones, one for each ear. If more than one size of Universal Canalphones is provided, then a set includes a pair of Universal Canalphones for each available size.
3.3.1.1.0-6.0-4	Power Domain and Battery Packs. The following definitions apply to the concept of Power Domain and Battery Packs and are meant to support Annex AB, "ISS-A Price

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	proposal presentation sheet".
3.3.1.1.0-6.0-4.0-1	Power Domain: The interconnection of a Battery Pack and one or more devices through cables and connectors for the purpose of supplying power.
3.3.1.1.0-6.0-4.0-2	Power Domain Non-Rechargeable Battery Pack: All the Non-Rechargeable Batteries of the same type required to operate a power domain at any one time. The Power Domain Battery Pack must also include any Battery Loading/Storage Devices required to meet the ISS requirements.
3.3.1.1.0-6.0-4.0-3	Quantity of Power Domain Non-Rechargeable Battery Pack: This is the number of Non-Rechargeable Battery packs required for the system to <u>operate</u> a full Battlefield Day (BD), by power domain, as determined by the analysis required by Appendix 11 to Annex CB - Power Consumption Test Procedure Requirements. A BD is defined in Appendix 3 to Annex CB - Mission Profile and Operational Mode Summary.
3.3.1.1.0-6.0-4.0-4	Power Domain Rechargeable Battery Pack: The Rechargeable Batteries of the same type within the pack per power domain. The Power Domain Battery Pack must also include any ISS Battery Loading/Storage Devices required to meet the ISS requirements.
3.3.1.1.0-6.0-4.0-5	Quantity of Power Domain Rechargeable Battery Pack: This is the number of Rechargeable battery Pack(s) required for the system to operate a full BD without having to recharge any batteries, by power domain, as determined by the analysis required by Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements.
3.3.1.1.0-6.0-5	ISS Battery Set: The full complement of Battery Pack (s) required to operate one ISS-S for a full BD.
3.3.1.1.0-6.0-5.0-1	ISS Non-Rechargeable Battery Set: The full complement of Power Domain Non-Rechargeable Battery Pack(s) as expressed in Quantity of Power Domain Non-Rechargeable Battery Packs for each power domain of the ISS-S required to operate one ISS-S for a full BD.
3.3.1.1.0-6.0-5.0-2	ISS Rechargeable Battery Set: The full complement of Power Domain Rechargeable Battery Pack(s) as expressed in Quantity of Power Domain Rechargeable Battery Packs for each Power Domain of the ISS-S required to operate one ISS-S for a full BD.
3.3.1.1.0-6.0-6	Battery Loading/Storage Device: A sleeve/cradle used to hold a group of batteries within a Power Domain. It must be provided if required to meet the ISS-S requirements.
3.3.1.1.0-6.0-7	MLCS: All clothing that is provided as part of the ISS-S, including the ISS MLCS

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	Platform and ISS pouches, to allow the soldier to carry the ISS-ES and all Power Domain (Rechargeable or Non-Rechargeable) Battery Packs.
3.3.1.1.0-6.0-7.0-1	MLCS Platform: The vest worn by the soldier, upon which the MLCS ISS Pouches are attached and the MLCS Combat Pouches (provided by Canada) are attached. The MLCS Platform consists of an MLCS Chest Rig Front and an MLCS Chest Rig Back. The MLCS Chest Rig Front is further identified by size requirements, in that there is a MLCS Chest Rig Front Small and an MLCS Chest Rig Front Medium. The MLCS Chest Rig Back size comes in one size.
3.3.1.1.0-6.0-7.0-2	MLCS ISS Pouch Set: Set of ISS pouches that attach to the MLCS Carrier, used to hold all Power Domain Battery Packs and the complete ISS-ES. The Contractor will define the numbers and types of ISS Pouches (which constitutes the ISS Pouch Set) required to carry the ISS-ES, batteries and Accessory Items as required to meet the TPS requirements.
3.3.1.1.0-7	Accessory Items: Interface cables required for the ISS-ES to operate with the Government Furnished Equipment (GFE).
3.3.1.1.0-7.0-1	DAGR Interface Cable: Provides the cabling and connection between the appropriate ISS-ES system element and the DAGR to meet the Military mode Global Positioning System (GPS) requirements of the TPS. (Volume 2, Annex CB, Appendix 1).
3.3.1.1.0-7.0-2	Coral-CR-C Interface Cable: Provides the cabling and connection between the appropriate ISS-ES system element and the Coral-CR-C sensor to meet the sensor requirements of the TPS. (Volume 2, Annex CB, Appendix 1).
3.3.1.1.0-7.0-3	Land Command Support System (LCSS) Radio Interface Cable Set. The LCSS Radio Interface Cable Set provides the cabling and connections between the appropriate ISS-ES system element and the LCSS PRC-152 Radio, PRC-148 Radio and PRC-117 Radio to meet the TPS (Appendix 1 to Annex CB) requirements associated with those LCSS Radios. If the same cable can be used to interface with all 3 radios, then the “LCSS Radio Interface Cable set” should only be a single cable. If different cables are required to interface with each LCSS radios, then the “ISS-S to LCSS Radio Interface Cable set” should include the 3 different cables.
3.3.1.1.0-8	ISS Support: All software, hardware and documentation required to support the ISS software and hardware operation and maintenance while deployed or in garrison.
3.3.1.1.0-8.0-1	Technical Documentation: The User Manual, Technical Manual and Quick Reference Guide (QRG) that support the operation of the ISS.
3.3.1.1.0-8.0-2	Support Equipment: All software and hardware equipment required to sustain the ISS-S.
3.3.1.1.0-8.0-2.0-1	Recommended Support Equipment: All software and hardware equipment that is

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	recommended by the Contractor to maintain the ISS-S in order to meet the requirement of this SOW.
3.3.1.1.0-8.0-2.0-2	SEP-Suite: Software running on a CF laptop, used to perform security management, network planning and management and other pre-mission tasks in support of system configuration.
3.3.1.1.0-8.0-2.0-3	ISS BMS software on CF Laptop: Subset of the ISS-ES software, running on a CF laptop, used by commanders to perform static non-tactical tasks, like mission planning for example.
3.3.1.1.0-8.0-2.0-4	Battery Charger Set: All the charging equipment required to recharge an ISS Rechargeable Battery Set as defined in TPS.
3.3.2	3.3.2 Production Phase Planning
3.3.2.0-1	Production Phase Work must start when the Contractor receives a Contract Amendment authorizing the Production Phase to proceed.
3.3.2.0-2	The Contractor must prepare and deliver a Production Plan IAW CDRL SE-010 for acceptance by the TA.
3.3.2.0-3	The Contractor must incorporate the Production Readiness Review (PRR) requirements specified at Appendix 1 of this SOW in the Production Plan (CDRL SE-010).
3.3.2.0-4	The Contractor must revise and resubmit, or confirm, the following project plans:
3.3.2.0-4.0-1	○ PMP (CDRL PM-001).
3.3.2.0-4.0-2	○ CMP (CDRL CM-001).
3.3.2.0-4.0-3	○ QAP (CDRL PM-002).
3.3.2.0-4.0-4	○ ILSP (CDRL LS-001).
3.3.2.0-4.0-5	○ MPS and WBS (CDRL PM-003).
3.3.3	3.3.3 Manage Production Work
3.3.3.0-1	The Contractor must continue to initiate, plan and estimate, execute and control, review and evaluate, close and deliver the work IAW the accepted PMP (CDRL PM-001).
3.3.3.0-2	The Contractor must continue to assure the quality of the process and products IAW the accepted QAP CDRL PM-002 .
3.3.3.0-3	The Contractor must continue to manage configuration information IAW the accepted

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	CMP (CDRL CM-001).
3.3.3.0-4	The first Production phase Progress Report must be delivered at Production Phase kick-off meeting. The Contractor must prepare and deliver a monthly progress report IAW CDRL PM-004 .
3.3.3.0-5	The Contractor must manage the production of the ISS-S IAW the accepted Production Plan (CDRL SE-010).
3.3.3.1	3.3.3.1 PRMs
3.3.3.1.0-1	The Contractor must conduct a Production Phase kickoff meeting within 2 weeks of commencement of the Production Phase.
3.3.3.1.0-2	The Contractor must conduct quarterly PRMs as specified in section 4 of this SOW and IAW the accepted PMP (CDRL PM-001).
3.3.3.2	3.3.3.2 Production Readiness Review
3.3.3.2.0-1	The Contractor must conduct a PRR within one month after a Contract Amendment authorizing the Production Phase.
3.3.3.2.0-2	The Contractor must prepare and deliver a PRR Checklist IAW the accepted Production Plan (CDRL SE-010).
3.3.4	3.3.4 ISS P(SAT) Systems
3.3.4.0-1	The Contractor must refurbish, assemble, test, package and deliver the specified numbers of ISS P(SAT) Systems IAW Annex CF- ISS Contract Deliverables List.
3.3.4.0-2	The Contractor must configure the P(SAT) systems with the P(Prod) software load prior to conducting acceptance testing of the P(SAT) system.
3.3.4.0-3	The Contractor must assure the quality of the ISS-S P(SAT) systems IAW the accepted QAP (CDRL PM-002).
3.3.5	3.3.5 Production of ISS P(Prod) system elements
3.3.5.0-1	Upon successful completion of PRR, the Contractor must produce the ISS IAW the accepted Production Plan.
3.3.5.0-2	The Contractor must produce the requisite numbers of the ISS system elements specified in Volume 2 Annex CF.
3.3.5.0-3	The Contractor must assemble the ISS product into identifiable lots, batches or production intervals, in support of the QAP acceptance process.

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3.3.5.0-4	The Contractor must assure the quality of the production and production process, IAW the accepted QAP.
3.3.5.0-5	The Contractor must package, handle and deliver the ISS IAW the ILS requirements stated at section 6 of this SOW.
3.3.5.1	3.3.5.1 MLCS Production
3.3.5.1.0-1	The MLCS is a Canada provided design. The Contractor must produce the MLCS platform and ISS Pouches IAW the revised (approved) TDP specifications Volume 2, Annex CB, Appendices 7 and 8 respectively.
3.3.5.1.0-2	The Contractor must produce the MLCS in the sizes and numbers specified in Volume 2, Annex CF.
3.3.5.2	3.3.5.2 ISS-ES Production
3.3.5.2.0-1	The Contractor must produce, acquire and assemble the ISS-ES equipment IAW the P(Prod) baseline configuration information.
3.3.5.2.0-2	The Contractor must load the P(Prod) Software baseline onto the ISS-ES equipment prior to performing the ISS-ES integrated system acceptance sampling inspection.
3.3.6	3.3.6 Production Acceptance
3.3.6.1	3.3.6.1 General
3.3.6.1.0-1	Canada anticipates that the ISS will, for the most part, consist of equipment already in production. The only elements which may necessitate a new production line are the MLCS and the ISS cables. These items will likely require a first article inspection mechanism such that the quality of the production process has been assured.
3.3.6.1.0-2	The Contractor must ensure that all products and supplies submitted to Canada for acceptance conform to all requirements of the contract.
3.3.6.2	3.3.6.2 Quality System for Production
3.3.6.2-1	The Contractor's Quality System, including manufacturing processes and quality control measures, must be established and operated to consistently produce the ISS elements which meet all ISS requirements.
3.3.6.2-2	The Contractor must tailor his Quality Control System to the maturity of the system and components production line.
3.3.6.2-3	For ISS System components that will be produced for the first time as part of this Contract or are unique to this Contract, the Contractor must propose a comprehensive pre-

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	production and production Quality Control System, including First Article Inspection (FAI) and sampling method to ensure the produced items conform to the requirements.
3.3.6.2-4	For ISS System components that are already in production or have been produced in the past, the Contractor may propose a tailored Quality Control approach which is based on the existing production process of those components.
3.3.6.2-5	The Contractor must perform component level, including cables, sampling inspection during pre-production and production as part of his Quality Control process.
3.3.6.2-6	The Contractor must perform ISS-S level sampling inspection during pre-production and production as part of his Quality Control process. The purpose of the ISS-S sampling inspection during pre-production and production is to ensure that the ISS-S when assembled with an ISS software load as per P(Prod) configuration information, operates as specified.
3.3.6.2-7	The MLCS Platform pre-production samples and its components must comply with the "MLCS Platform Pre-Production Phase Quality Control Requirements" defined in Section 4 of Annex CB, Appendix 12 - MLCS Verification and Quality Control Requirements.
3.3.6.2-8	The ISS Pouches pre-production samples and its components must comply with the "ISS Generic Pouches Pre-Production Phase Quality Control Requirements" defined in Section 5 of Annex CB, Appendix 12 - MLCS Verification and Quality Control Requirements.
3.3.6.2-9	The production MLCS Platform and ISS Pouches must meet the same quality standard as the approved pre-production samples.
3.3.6.2-10	The Contractor must document the pre-production and production acceptance method and procedures, including the FAI plan, the procedures and sampling inspection plan and the procedures at component and system level in the QAP (CDRL PM-002).
3.3.6.2-11	The Contractor must provide the TA and Department of National Defence (DND) Quality Assurance Representative (QAR) access to and give copies of all the ISS pre-production and production FAI results/reports and sampling inspection test results/reports.
3.3.6.2-12	The TA or DND QAR reserves the right to perform any sampling inspection and testing during the pre-production and production phase.
3.3.7	3.3.7 ISS Software Production
3.3.7.0-1	The Contractor must replicate, produce package and deliver the ISS Software IAW the applicable Software Version Description Document (SVDD) (CDRL CM-004).
3.3.8	3.3.8 Production of Support Equipment and Spares
3.3.8.0-1	The Contractor must install the equipment plates and markings IAW the provisions of

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	section 6.7.1 of this SOW.
3.3.8.0-2	The Contractor must produce the ISS Support Equipment in the numbers specified in the accepted Recommended Support Equipment Requirements List (RSERL) (CDRL LS-002).
3.3.8.0-3	The Contractor must produce the Training Support Equipment in the numbers specified in the accepted RSERL (CDRL LS-002).
3.3.8.0-4	The Contractor must produce the requisite numbers of spares IAW the accepted Recommended Spare Parts List (RSPL) (CDRL LS-003).
3.3.9	3.3.9 Deliver the system
3.3.9.0-1	The Contractor must package, identify and label, handle, store and transport the equipment IAW the provisions of this SOW.
3.3.10	3.3.10 Training
3.3.10.1	3.3.10.1 Conduct Training
3.3.10.1.0-1	The Contractor must perform the Initial Cadre Training (ICT) as specified in section 6 of this SOW and IAW the accepted Training Program Plan (CDRL LS-004).
3.3.10.1.0-2	The Contractor must conduct the specified numbers of training serials as specified in Volume 2, Annex CF.
3.3.10.2	3.3.10.2 Deliver Training Material
3.3.10.2.0-1	The Contractor must produce and deliver the Training Material, including the Training Support Equipment IAW CDRL LS-008 .
4	4 Project Management
4.1	4.1 Capability and Organisation
4.1.1	4.1.1 Project Management Capability
4.1.1.0-1	The Contractor must provide a Project Management capability to manage the project scope, schedule, risks, and quality, to provide data and to administer the requirements of all phases of the contract.
4.1.2	4.1.2 Project Manager
4.1.2.0-1	The Contractor must designate an individual as its Program Manager (PGM) with sufficient authority within the Contractor's organization to manage all work required

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	under all phases of the contract, to interface and co-ordinate with Canada, and to plan and control the work of Subcontractors as required. The Contractor's PGM for the Contract must be the primary point of contact between the Contractor and the TA for all issues related to the SOW.
4.1.2.0-2	It is recognized that personnel changes may occur. The Contractor must inform the TA of any change in personnel filling the PGM position.
4.2	4.2 Project Management Plan
4.2.0-1	The Contractor must prepare and deliver a PMP IAW CDRL PM-001 .
4.2.0-2	The Contractor must implement and manage the work IAW the PMP and subordinate plans.
4.2.0-3	The Contractor must maintain the PMP for the duration of the Contract.
4.2.1	4.2.1 Master Project Schedule and Work Breakdown Structure
4.2.1.0-1	The Contractor must prepare and deliver an MPS and WBS IAW CDRL PM-003 .
4.2.1.0-2	With the TA's approval, the Contractor must baseline the schedule at the kick-off meeting of each Contract Phase and thereafter manage, track and report actual progress against the baseline.
4.2.1.0-3	The Contractor must obtain written approval from the TA for proposed changes before revising the baseline schedule.
4.2.1.0-4	Changes to the schedule must not preclude compliance with the requirements of CDRL PM-003 .
4.3	4.3 Project Monitoring and Control
4.3.1	4.3.1 Meetings
4.3.1.1	4.3.1.1 General
4.3.1.1.0-1	Meetings will be convened at the Contractor's facility, unless stated otherwise in the SOW, or at an alternate location as agreed to by the Contractor and the Contracting Authority.
4.3.1.1.0-2	The Contractor must provide a facility of a size sufficient to accommodate the attendees.
4.3.1.1.0-3	The meetings will be co-chaired by the Canada and the Contractor, unless specified otherwise.

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4.3.1.1.0-4	The Contractor or Canada, by mutual agreement, can convene video or telephone conferences in lieu of face-to-face meetings.
4.3.1.1.0-5	Site visits and meetings must be combined whenever possible.
4.3.1.1.0-6	The Contractor must ensure that specific personnel responsible for work under discussion are physically present at the meetings (face-to-face, video or teleconference), including sub-contractors as required.
4.3.1.1.0-7	The Contractor must prepare and deliver a Meeting Agenda IAW CDRL PM-005 , for all meetings and make them available through the EIE.
4.3.1.1.0-8	The Contractor must prepare and deliver the Meeting Minutes IAW CDRL PM-006 , for all meetings, and make them available through the EIE.
4.3.1.1.0-9	The Contractor must prepare and deliver the IAIL entries for all meetings in accordance CDRL PM-007 , and make the IAIL available through the EIE.
4.3.1.2	4.3.1.2 Kick-Off Meeting
4.3.1.2.0-1	There will be two Kick-Off meetings: one at the start of the System Qualification Phase and one at the start of the Production Phase.
4.3.1.2.0-2	The Contractor must include, as a minimum, the following in the agenda for each kick-off meeting:
4.3.1.2.0-2.0-1	○ Contractor briefing on the company and how it will be organized to manage the contract;
4.3.1.2.0-2.0-2	○ Roles and responsibilities of key personnel and points of contact;
4.3.1.2.0-2.0-3	○ Key contract terms and project objectives;
4.3.1.2.0-2.0-4	○ Timelines;
4.3.1.2.0-2.0-5	○ Deliverables;
4.3.1.2.0-2.0-6	○ Communications - Procedures for monitoring and reporting progress;
4.3.1.2.0-2.0-7	○ Procedures for managing risks and issues;
4.3.1.2.0-2.0-8	○ Contract administration and contract change procedures;
4.3.1.2.0-2.0-9	○ Canada debrief on the results of the Performance Evaluation portion of the Bid Evaluation (Qualification Phase only);

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4.3.1.2.0-2.0-10	○ Review of all draft plans submitted with bid; and
4.3.1.2.0-2.0-11	○ Plant tour, if possible and deemed necessary by Canada.
4.3.1.3	4.3.1.3 Progress Review Meetings
4.3.1.3.0-1	The Contractor must schedule, plan and conduct PRMs to formally report project progress to the TA.
4.3.1.3.0-2	The Contractor must coordinate with the Contracting Authority (CA) for all arrangements related to PRMs.
4.3.1.3.0-3	PRM must occur quarterly at minimum, unless otherwise mutually agreed.
4.3.1.3.0-4	Each PRM must address, as a minimum, the following items:
4.3.1.3.0-4.0-1	○ Project Progress;
4.3.1.3.0-4.0-2	○ Master Project Schedule - status of milestones and data item completion;
4.3.1.3.0-4.0-3	○ Project Risks and associated mitigation;
4.3.1.3.0-4.0-4	○ Issues - AIs arising from previous PRMs, other meetings and correspondence;
4.3.1.3.0-4.0-5	○ Engineering and Technical Issues;
4.3.1.3.0-4.0-6	○ ILS Issues;
4.3.1.3.0-4.0-7	○ Contractual Issues; and
4.3.1.3.0-4.0-8	○ Financial Issues.
4.3.1.4	4.3.1.4 Other Meetings and Reviews
4.3.1.4.0-1	The Contractor must convene weekly meetings to report progress on immediate issues, address technical challenges, raise questions and seek clarification. These meetings will be conducted by teleconference, videoconference or as mutually agreed between the Contractor and Canada.
4.3.1.4.0-2	The Contractor and/or the TA may schedule reviews, such as conferences, briefings and technical meetings, including those specifically required in the SOW, to help in achieving the requirements of the contract.
4.3.2	4.3.2 Issue - Action Items
4.3.2.0-1	The Contractor must record action items arising from meetings, reviews, working groups,

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	technical interchange meetings, and correspondence between Canada and the Contractor.
4.3.2.0-2	The Contractor must maintain an IAIL (CDRL PM-007).
4.3.2.0-3	The Contractor must take action to address and complete the AIs that are assigned to the Contractor, by the agreed on date.
4.3.2.0-4	Both the TA and the Contractor must agree that the action has been fulfilled before it may be annotated as 'completed' and 'closed'.
4.3.2.1	4.3.2.1 Progress Reports
4.3.2.1.0-1	The Contractor must prepare and deliver Progress Reports IAW CDRL PM-004 .
4.3.3	4.3.3 Risk and Issue Management
4.3.3.0-1	The Contractor must input and manage all risks identified by the Contractor and Canada, and mutually agreed, throughout all phases of the Contract IAW the Contractor's risk management process documented in the accepted PMP (CDRL PM-001).
4.4	4.4 Intellectual Property
4.4.0-1	The Contractor must prepare and deliver the Intellectual Property List identifying the intellectual property used by and developed under the Contract IAW CDRL PM-009 . The Intellectual Property List must identify the background and foreground intellectual property used and developed by the Contractor in carrying out the Contract.
4.5	4.5 Environmental Health and Safety (EHS) Management
4.5.1	4.5.1 General
4.5.1.0-1	The Contractor must consider, incorporate and document EHS into the decision making process for the work during all phases of the contract.
4.5.1.0-2	The Contractor must not increase the hazard risk, or the number of controlled substances in any changes to the existing configuration without a measureable increase in equipment performance that is authorized by the Technical Authority. For any proposed changes, the Contractor must review the Canadian Forces Supply System (CFSS) material listing for an existing suitable product before recommending introduction of a new product into the CFSS inventory.
4.5.1.0-3	New or amended support documentation, such as Canadian Forces Technical Orders (CFTOs) must be incorporated with appropriate EHS warnings and instructions in direct relation to the EHS risks presented in the contents.
4.5.1.0-4	EHS documentation must be maintained within the project file throughout the life of this

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	Contract. The Contractor must provide for and allow DND inspection and monitoring of EHS documentation throughout the life of the contract.
4.5.1.0-5	The Contractor must comply with Department of National Defence (DND) policies, orders, directives, instructions and best practices when accessing DND owned or controlled lands, buildings or equipment.
4.5.1.0-6	The Contractor shall be held liable for any damages caused by the Contractor's improper packaging, labelling or carriage of goods/products.
4.5.1.0-7	The Contractor must ensure that specifications, standards, support documents and test programs are reviewed for EHS compliance, and appropriate warning included.
4.5.1.0-8	Upon request by the TA, the Contractor must implement design changes, or changes to processes or other equipment, that TA identifies to reduce environmental impact and hazards. The Contractor may propose additional measures.
4.5.1.0-9	The TA may request that the Contractor incorporate changes to the equipment or program equipment and services in response to the promulgation of new or amended EHS legislation, DND policies or directives.
4.5.2	4.5.2 Compliance
4.5.2.0-1	The Contractor must comply in all respects with Environmental, Health and Safety legislations, such as the Canadian Environmental Protection Act, Canadian Environmental Assessment Act, Hazardous Products Act, Transportation of Dangerous Goods Act, Canada Labour Code, and their regulations, in force in relation to the provision of Services. Where the provisions of any such legislation are implemented by the use of voluntary agreements or codes of practice, the Contractor must comply with such agreements or codes of practices as if they were incorporated into Canada law subject to those voluntary agreements being cited in tender documentation. The Contractor must comply with laws applicable to the performance of the Contract, regardless of them being identified, or not, within the tender. The Contractor must provide evidence of compliance with such laws to Canada at such times as Canada may reasonably request.
4.5.2.0-2	The Contractor must ensure that the provision of the goods and services are fully compliant with Canadian Legislation or regulations. When non-compliance occurs the Contractor must advise DND.
4.5.3	4.5.3 Hazardous Products
4.5.3.0-1	Canada Labour Code, Part II dictates that the least hazardous materials should be used at the workplace. Therefore, the Contractor is to strive to use the least hazardous product that meets the requisite performance requirements.
4.5.3.0-2	The Contractor must include within the Environmental, Health and Safety Assessment

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	(EHSA) Material Safety Data Sheets (MSDS) for all products/materials, which are used in the operation and maintenance of the Work, that fall under the Hazardous Products Act, R.S.C. 1985, c. H-3 and regulation(s) there under in accordance with the said Act and regulation(s).
4.5.4	4.5.4 Controlled Products
4.5.4.0-1	Controlled products are defined as products containing substances:
4.5.4.0-1.0-1	Regulated and proposed to be regulated under the Canadian Environmental Protection Act (CEPA);
4.5.4.0-1.0-2	Listed in Schedule I, Toxic Substances List under the CEPA;
4.5.4.0-1.0-3	Targeted chemicals subject to the National Pollutant Release Inventory;
4.5.4.0-1.0-4	Targeted by the Chemicals Management Plan - List of Challenge Substances; and/or
4.5.4.0-1.0-5	Targeted under the Accelerated Reduction/Elimination of Toxic Substances Program.
4.5.4.0-2	The use of any controlled products, as part of the Work under this Contract, must be submitted for review and approval through the Technical Authority before use. The use of controlled products must be reviewed in consultation with Technical Authority, to determine whether replacement by other less hazardous products (IAW the Canada Labour Code, Part II) that meet performance requirements can be utilised, and if so, to replace these controlled products with products of less hazard. It is DND policy to restrict or eliminate the use of controlled products. The promulgation of new or amended legislations, regulations, policies or directives throughout this Contract period may necessitate changes to support processes and activities. These changes must be incorporated as required to ensure compliance throughout the contract period.
4.5.4.0-3	Controlled Products Listing. As part of any subcontract/sublet requirement raised by the Contractor in support of the Work, the subcontract/sublet must include a clause for the use of the least hazardous Controlled Product necessary, while maintaining operation effectiveness. Controlled Products that are banned must not be used. When a Controlled Product must be used, the Contractor must provide justification for its use and obtain TA approval prior to use. The Contractor must supply the Technical Authority with the respective Material Safety Data Sheets for all hazardous material products listed.
4.5.4.0-4	The Contractor must submit a request to the Technical Authority for approval for the use of any controlled products. The use of controlled products must be reviewed in consultation with Technical Authority, to determine whether replacement by other less hazardous products (IAW the Canada Labour Code, Part II) that meet performance requirements can be utilised, and if so, to replace these controlled products with products of less hazard. It is DND policy to restrict or eliminate the use of controlled products.

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4.5.4.0-5	The Contractor must avoid the use of any controlled products/substances, as part of the Work under this Contract, where feasible and as dictated by regulatory requirements.
4.5.4.0-6	Controlled Products Instructions: The Contractor must ensure that appropriate instructions regarding the handling, use, transportation, storage and disposal of Controlled Products are contained in the EHS documentation.
4.5.5	4.5.5 Hazardous Materials Restrictions
4.5.5.0-1	The following specified hazardous substances are restricted in the following manner:
4.5.5.0-1.0-1	The Contractor must not utilize a halocarbon identified within Schedule 1, items 1 to 9, 11, and 12 of the Federal Halocarbon Regulations.
4.5.5.0-1.0-2	Halocarbons as identified within the Ozone-Depleting Substances Regulations must not be incorporated into the design, operation or maintenance of equipment, products, or support services;
4.5.5.0-1.0-3	Asbestos and Polychlorinated Biphenyls (PCBs) must not be incorporated into the design, operation or maintenance of equipment, products, or support services;
4.5.5.0-1.0-4	Mercury as follows:
4.5.5.0-1.0-4.0-1	The Contractor must comply with all Mercury Regulations in effect throughout the conduct of the Work.
4.5.5.0-1.0-4.0-2	Products containing mercury must comply with mercury content limit as identified in the promulgated Mercury Regulations. Source Environment Canada: http://www.gazette.gc.ca/rp-pr/p1/2011/2011-02-26/html/reg4-eng.html
4.5.5.0-1.0-4.0-3	Where the equipment utilizes mercury, in any shape or form, contained or used within the design, operation and maintenance of equipment, support tooling, products or materials used or consumed, they must be identified and associated with their physical location within or on the Work provided. The Contractor shall provide the following for each occurrence of mercury in tabular format to the Technical Authority (TA):
4.5.5.0-1.0-4.0-3.0-1	Equipment NSN (for equipment containing mercury);
4.5.5.0-1.0-4.0-3.0-2	Equipment Description;
4.5.5.0-1.0-4.0-3.0-3	NSN or Defence Resource Management Information Systems (DRMIS) unique identifier of the item containing Mercury (if it

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	exists);
4.5.5.0-1.0-4.0-3.0-4	Manufacturer of the mercury-containing item;
4.5.5.0-1.0-4.0-3.0-5	Date of manufacture of the mercury-containing item;
4.5.5.0-1.0-4.0-3.0-6	Manufacturer part number of the mercury-containing item;
4.5.5.0-1.0-4.0-3.0-7	NATO Supply Code for Manufacturers (NSCM) of the mercury-containing item/Commercial and Government Entity (CAGE) Code;
4.5.5.0-1.0-4.0-3.0-8	Description of the mercury-containing item;
4.5.5.0-1.0-4.0-3.0-9	The form of mercury (e.g. liquid, vapour, amalgam, metal halide);
4.5.5.0-1.0-4.0-3.0-10	Quantity of mercury (kg mass);
4.5.5.0-1.0-4.0-3.0-11	Volume of mercury (L) and its concentration in ppm [provided either mass or volume/concentration of mercury, but not both];
4.5.5.0-1.0-4.0-3.0-12	The location of the mercury-containing item(s);
4.5.5.0-1.0-4.0-3.0-13	Quantity of mercury-containing item per reported equipment;
4.5.5.0-1.0-4.0-3.0-14	Total Quantity of mercury within the reported equipment (for kg mass and volume/concentration); and
4.5.5.0-1.0-4.0-3.0-15	Material Safety Data Sheet, where possible.
4.5.5.0-1.0-4.0-4	The Contractor must ensure that consumable products and equipment containing mercury are labelled in a readily visible location. The information must be in characters that are at least 3 mm in height, legible and indelible and that are impressed, embossed or in a colour that contrasts with the label's background or the colour of the product as applicable. The label must be enclosed by a borderline and easily distinguishable from other graphic material on the product or its package. The label must be bilingual and include the following:
4.5.5.0-1.0-4.0-4.0-1	a statement "CAUTION/MISE EN GARDE" in characters that are at least 4 mm in height;
4.5.5.0-1.0-4.0-4.0-2	a statement that the product contains mercury and the content of mercury in the product in milligrams or, in the case of a product found in the 'Substances Contained in Certain Products' Table from the Mercury Regulation source in Para 4.5.5.0-1.0-4.0-2, a statement that the quantity of the toxic substance is less than or equal to the

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	Maximum Quantity listed in the table;
4.5.5.0-1.0-4.0-4.0-3	information on the action to be taken in case of accidental breakage and a description of the risks associated with the use of the product, the address of a website that contains the information, or contact information for a person who can provide that information;
4.5.5.0-1.0-4.0-4.0-4	information on the options available for proper disposal and recycling in accordance with the laws of jurisdiction where the disposal or recycling to take place, the address of a website that contains the information, or contact information for a person who can provide that information;
4.5.5.0-1.0-4.0-4.0-5	a warning that the product is to be managed in accordance with the applicable disposal or recycling laws; and
4.5.5.0-1.0-4.0-4.0-6	the “Hg” symbol encircled by a line on a readily visible location on the product where the characters are at least 3 mm in height which are impressed, embossed or in a colour that contrasts with the label’s background or the colour of the product as applicable. Note: Hg symbol stands for mercury.
4.5.5.0-1.0-4.0-5	If the product is not large enough to accommodate the information, the information must be:
4.5.5.0-1.0-4.0-5.0-1	in a readily visible location on the package in which the product is sold or offered for sale; or
4.5.5.0-1.0-4.0-5.0-2	in a notice attached to the product or in a manual that accompanies the product, if there is no package, or if the package is not large enough to accommodate the information; and
4.5.5.0-1.0-4.0-5.0-3	in both official languages.
4.5.5.0-1.0-4.0-6	Technical documentation must include warnings for equipment containing mercury and shall identify work procedures for safe handling of mercury including PPE, spill clean up and disposal.
4.5.6	4.5.6 Occupational Health and Safety
4.5.6.0-1	The design, engineering, procurement, installation, operation, and maintenance of equipment and installations must be compliant with the provisions contained in standards, legislation and best practices, specifically Canada Labour Code, Part II, the Canada Occupational Health and Safety Regulations, and any referenced standard. Where there is a known standard (i.e. international) that is more stringent; then it must be considered as the minimum requirement to ensure all health and safety considerations are incorporated

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	and conformance to regulations.
4.5.6.0-2	The contractor must have an Occupational Health and Safety Management System (OHSMS), which is consistent with the principles presented in OHSAS 18001.
4.5.6.0-3	It is DND / CF policy to maintain a program of General Safety, which ensures that safety considerations are incorporated into every aspect of departmental operations including training and support activities.
4.5.6.0-4	The Contractor must comply with the requirements of the general safety program in the development, maintenance and provision of the project. Where work is performed at government owned facilities, the contractor must implement a general safety program for OWSS activities of the project that must conform to the following publications, which contain the major occupational health and safety regulatory instruments that have been approved for application throughout DND and the CF:
4.5.6.0-4.0-1	<ul style="list-style-type: none"> ○ A-GG-040-004/AG-001 - General Safety Program - Volume 1, Policy and Program;
4.5.6.0-4.0-2	<ul style="list-style-type: none"> ○ C-02-040-007/TS-001- General Safety Precautions;
4.5.6.0-4.0-3	<ul style="list-style-type: none"> ○ C-02-040-009/AG-001 – General Safety Program - General Safety Standards and
4.5.6.0-4.0-4	<ul style="list-style-type: none"> ○ Canada Labour Code, Part II.
4.5.7.	4.5.7 Environmental Health and Safety Management System (EHSMS)
4.5.7.0-1	The Contractor must have a management system in place to control environmental, health and safety impacts resulting from their activities, products or services. ISO 14001 - Environmental Management Systems; Specification with Guidance for Use - is a benchmark for an effective environmental management system (EMS) applicable to all types and sizes of organizations. Certification to this standard is preferred but not necessary. The Contractor must, however, have a formalized set of procedures and control measures in place to achieve conformance with the requirements of this Work, while ensuring environmental, health and safety protection and pollution prevention. The EMS requirement is applicable to the Contractor. The Technical Authority must have the right to make examinations and audits of the Work and control processes/procedures and infrastructure with respect to the environmental, health and safety management system as they may think fit.
4.5.7.0-2	The EMS requirement is applicable to the Contractor, and all subcontractors that may provide support to the Contract requirements. The Contractor must make reasonable effort to monitor that all subcontractors are in compliance with applicable environmental laws and regulations.
4.5.7.0-3	The Contractor must keep accurate and complete EHS records, which must, upon request,

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	be made available to the Technical or Inspection Authority, who may only view such documents. During the performance of the Contract and for any period of time thereafter provided in the Contract, request for copies of any document will be made formally to the Contractor.
4.5.8	4.5.8 Environmental Health and Safety aspects in Design
4.5.8.0-1	The ECMA International Standard ECMA-341, "Environmental design considerations for ICT and CE products" (<< http://www.ecma-international.org/publications/files/ECMA-ST/ECMA-341.pdf >>)) must be incorporated where feasible, and not in conflict with other requirements identified within the Work requirement, to reduce the environmental impact of the product and to facilitate end of life disposal.
4.5.8.0-2	The Contractor must comply with the Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 KHZ to 300 GHZ - Safety Code 6.
4.5.8.0-3	CFTO C-55-040-001/TS-001, Radio Frequency Safety Program ("CFAO 34-51, Radio Frequency Radiation Safety" refers). Canada will perform all applicable tests and analysis, as indicated in 5.3.5.4.0-1. The Contractor must assist Canada in performing all applicable tests and analysis requirements found in Part 11 of the CFTO, including the RF survey.
4.5.9	4.5.9 Environmental Health Safety Assessment (EHSA)
4.5.9.0-1	The Contractor must prepare and deliver an EHSA for Technical Authority approval IAW CDRL PM-008 detailing the EHS impact of the equipment and all subcomponents during all life cycle phases such as design, engineering and manufacturing, test and evaluation, production and delivery, operation and maintenance, and demilitarization and disposal. The EHSA must include a Material Safety Data Sheet (MSDS) for each hazardous material (HAZMAT) contained in the deliverables.
4.6	4.6 Data Management Requirements
4.6.0-1	The Contractor must deliver a Technical Data Management Plan (TDMP) which delineates the policies, procedures, and responsible personnel that will be employed to ensure that the DM process for the ISS is properly maintained and documented. Preparation and delivery must be IAW CDRL DM-001 .
4.6.1	4.6.1 EIE Description
4.6.1.0-1	The EIE is a Contractor owned and operated ISSP enabling system that is to support the timely, accurate and controlled dissemination of the project and technical information items, data and records resulting from the execution of the work of this SOW.
4.6.2	4.6.2 Deliverable Data

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4.6.2.0-1	The Contractor must prepare and deliver all data specified in the CDRL IAW instructions contained therein and in each DID. The descriptions and field contents of the CDRL and DIDs are contained in Annex CC.
4.6.2.0-2	The Contractor must maintain and revise all data items as necessary to reflect approved changes to the Contract.
4.6.2.0-3	Canada will use various Contractor data items, deliverables, meetings, reviews, etc. to conduct its activities, including preparing for design reviews, technical reviews and Progress Review Meetings. In the event that the Contractor fails to deliver associated deliverables IAW the CDRL, or fails to conduct associated precursor activities, Canada may insist on its full review periods which could delay the subsequent review or PRMs. Any such delay will be at the Contractor's own risk.
4.6.3	4.6.3 Delivery of Data
4.6.3.0-1	Canada will notify the Contractor within 15 working days of the effective date of the acquisition contract, the points of delivery for the data deliverables. Such notice will include the name, organization, job title, postal and e-mail addresses, telephone and facsimile numbers. Canada may, by notice, change these delivery addresses at any time.
4.6.3.0-2	The Contractor must notify the CA within 15 working days of the effective date of the acquisition contract, the points of delivery for Canada's responses. Such notice must include the name, organization, job title, postal and e-mail addresses, telephone and facsimile numbers. The Contractor may, by notice, change these delivery addresses at any time.
4.6.3.0-3	The Contractor must make available to Canada any or all Contractor policies and procedures, or other data that are referred to in this SOW or in the Contractor's data items, whenever a request is received from Canada. The Contractor must make data requested available through EIE within five working days of receiving a request.
4.6.3.0-4	The Contractor must produce and deliver data items in a format compatible with MS Office 2003 for documents, and MS Project 2003 for schedules.
4.6.4	4.6.4 Delivery of Data via EIE
4.6.4.0-1	Data items must be delivered via the EIE. The purpose of the EIE system is to ensure timely delivery and access to required up-to-date information.
4.6.4.0-2	The Contractor must notify the CA that the data deliverable is available on the EIE for review, approval, or information as applicable. The Contractor must include the following information in its notification:
4.6.4.0-2.0-1	<ul style="list-style-type: none"> ○ CDRL Item number;

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4.6.4.0-2.0-2	○ Document revision number and date;
4.6.4.0-2.0-3	○ Title of the document; and
4.6.4.0-2.0-4	○ Contract number.
4.6.4.0-3	The Contractor must notify the CA whenever a data item cannot be delivered via the EIE and propose an alternative interim means of delivery. Use of an alternate means of delivery must not preclude compliance with the delivery date for the respective data item. The Contractor must post the data item on the EIE when it is possible.
4.6.5	4.6.5 Management of EIE data
4.6.5.0-1	The Contractor must manage ISSP data deliverables and other related data within the EIE.
4.6.5.0-2	The Contractor must manage the Government Furnished Information (GFI) which resides in the EIE repository, IAW the EIE requirements of section 9.2.
4.6.5.0-3	The Contractor's Data Manager must review with the DND Configuration Manager, on a mutually agreed frequency, the status of CDRL items, and the CDRL Item register, as specified in the EIE specification, for completeness, accuracy and clarity, and perform the required amendments.
4.7	4.7 Quality Management
4.7.1	4.7.1 Quality Management System
4.7.1.0-1	The Contractor must document, in the PMP (CDRL PM-001) and associated QAP (CDRL PM-002), the elements of the Contractor's Quality Management System that will be applied to the work of this SOW.
4.7.1.0-2	The Quality Management System should conform to ISO 9001:2008.
4.7.1.0-3	The Contractor must provide the DND QAR with access to the Quality Management System, within 48 hours of receiving a visit request, to ensure the operations performed by the Contractor are IAW the processes and procedures detailed in the PMP and subordinate plans.
4.7.1.0-4	The Contractor must provide corrective measures to any observed deficiencies from the prescribed or documented procedures, or instances of poor practices, which might have an adverse effect upon the quality of the ISS.
4.8	4.8 Government Property Management
4.8.0-1	Canada will make available to the Contractor, GFE, as per Table 1 to 3 of Appendix 3 to this SOW, and GFI, as per the list at Annex CE, to be used to support the work of the

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4.8.0-2	The Contractor must prepare and deliver a Government Property Report IAW CDRL PM-010 , and is to make the report available on the EIE.
4.8.0-3	The Contractor must assist Canada in conducting physical audits of all Government property selected for use by the Contractor.
5	5 Engineering
5.1	5.1 General
5.1.1	5.1.1 Overview
5.1.1.0-1	This section describes the requirements for Engineering work that the Contractor will carry out. As Design Authority, the Contractor has the responsibility for complete system design, engineering and integration of the System to ensure that all sub-systems, when assembled and operating as a complete system, meet the overall requirements of the ISS-S, including the accessories, and ancillary systems, based on the TPS and the UAPS.
5.2	5.2 Engineering Management
5.2.1	5.2.1 Senior Engineering Manager
5.2.1.0-1	The Contractor must designate an individual as its Senior Engineering Manager.
5.2.1.0-2	The Senior Engineering Manager must have the requisite authority within the Contractor's organization for all Engineering Program matters related to the engineering work of the SOW.
5.2.1.0-3	Canada recognizes that personnel changes may occur. The Contractor must advise Canada of any changes in personnel filling the Senior Engineering Manager position.
5.2.2	5.2.2 System Engineering Management Plan
5.2.2.0-1	The SEMP and its subordinate plans, describe the Engineering Program to be implemented by the Contractor in the performance of the Engineering work of this Contract.
5.2.2.0-2	The Contractor must prepare, deliver, implement and maintain the SEMP IAW CDRL SE-001 .
5.2.2.0-3	The SEMP is a subordinate plan to the PMP.
5.2.2.1	5.2.2.1 Tailoring

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5.2.2.1.0-1	The Contractor must perform the necessary tailoring of System Life Cycle activities and tasks specified in ISO/IEC/IEEE 15288:2008 clause 6, in order to adapt the processes to the particular work requirements of this SOW.
5.2.2.1.0-2	The Contractor must perform the Tailoring process IAW ISO/IEC/IEEE 15288:2008 Annex A, and document the ISS System Engineering Process in the SEMP.
5.2.2.1.0-3	The Contractor must perform the necessary tailoring of Software Engineering Life Cycle activities and tasks specified in ISO/IEC/IEEE 12207:2008 clauses 6 and 7, in order to adapt the processes to the particular work requirements of this SOW.
5.2.2.1.0-4	The Contractor must perform the tailoring process IAW ISO/IEC/IEEE 12207:2008 Annex A, and document the ISS Software Engineering Process in the SEMP.
5.2.3	5.2.3 Verification and Qualification Plan
5.2.3.0-1	The Contractor must prepare, deliver, implement and maintain a VQP IAW CDRL SE-004 for approval by the TA.
5.2.3.0-2	The VQP is a subordinate plan of the SEMP.
5.2.4	5.2.4 System Acceptance Test Plan
5.2.4.0-1	The Contractor must prepare, deliver, implement and maintain a SATP IAW CDRL SE-007 for approval by the TA.
5.2.4.0-2	The SATP is a subordinate plan of the SEMP.
5.2.4.0-3	The Contractor must acquire, re-use, prepare, review, distribute, and release all documentation, resulting from performing the engineering work of this SOW, IAW the accepted TDMP (CDRL DM-001).
5.2.5	5.2.5 Technical Review Meetings (TRM)
5.2.5.0-1	A TRM provides a working level forum to discuss technical issues and means of resolution between the TA and the Contractor. TRMs occur between the engineering teams of the Contractor and the TA as required by either party.
5.2.5.0-2	In the event that a TRM is to be held, the Contractor must perform the TRM IAW the SEMP.
5.2.5.0-3	The Contractor must prepare and deliver the TRM Agenda IAW CDRL PM-005 .
5.2.5.0-4	The Contractor must conduct the meeting IAW the PMP (CDRL PM-001).

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5.2.5.0-5	The Contractor must prepare and deliver the TRM Minutes IAW CDRL PM-006 .
5.2.5.0-6	The Contractor must prepare and deliver the TRM IAIL entries IAW CDRL PM-007 .
5.2.5.0-7	The Contractor must make the above information available to Canada through the EIE services.
5.3	5.3 Engineering Program
5.3.0-1	The Contractor must establish, implement and maintain an Engineering Program consistent with the work requirements of this Contract.
5.3.0-2	The Engineering Program must include the resources, processes and policies necessary to ensure the Engineering effort is properly controlled and documented for the duration of the contract.
5.3.1	5.3.1 System Engineering
5.3.1.0-1	The Contractor must perform System Engineering in order to produce and deliver the System.
5.3.1.0-2	The Contractor must perform Systems Engineering work, IAW the accepted SEMP (CDRL SE-001).
5.3.2	5.3.2 Software Engineering
5.3.2.0-1	The Contractor must perform Software Engineering in order to produce the System.
5.3.2.0-2	The Contractor must perform Software Engineering Work, IAW the accepted SEMP (CDRL SE-001).
5.3.3	5.3.3 Hardware Engineering
5.3.3.0-1	Hardware Engineering consists of electrical, electronic and mechanical engineering activities performed on the System or System Elements, System interfaces, and on the platforms upon which they are installed.
5.3.3.0-2	The Contractor must perform Hardware Engineering work IAW the accepted SEMP (CDRL SE-001).
5.3.4	5.3.4 Human Factors Engineering (HFE)
5.3.4.0-1	The Contractor must establish a HFE program as part of the overall Engineering Program.
5.3.4.0-2	The Contractor must provide HFE analysis and design services for ISS system elements.

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5.3.4.0-3	The services must, as a minimum, encompass the following aspects IAW MIL-HDBK-46855B/MIL-STD-1472F (Notice 1, 2 &3)/MIL-HDBK-454A:
5.3.4.0-3.0-1	○ Human Factors Analysis;
5.3.4.0-3.0-2	○ Safety Analysis; and
5.3.4.0-3.0-3	○ Task analysis/Man Machine Interface.
5.3.4.0-4	The Contractor must describe the HFE Program in the SEMP (CDRL SE-001).
5.3.4.0-5	The Contractor must perform HFE IAW the accepted SEMP.
5.3.5	5.3.5 Domain and Speciality Engineering
5.3.5.0-1	The Contractor must perform Speciality Engineering work as follows:
5.3.5.0-1.0-1	○ Security Engineering;
5.3.5.0-1.0-2	○ Reliability, Availability and Maintainability (RAM);
5.3.5.0-1.0-3	○ Electromagnetic Environmental Effects (E3);
5.3.5.0-1.0-4	○ RADHAZ Test Support;
5.3.5.0-1.0-5	○ Polychlorinated Biphenyls (PCB) and Cadmium restrictions; and
5.3.5.0-1.0-6	○ Mercury restrictions.
5.3.5.0-2	Domain and Speciality Engineering disciplines are those associated with quality characteristics (ISO 9126) of the System, for system quality and for quality-in-use. Speciality Engineering is generally performed within the context of Systems Engineering, Software Engineering and Hardware Engineering life cycle activities, using many of the respective techniques and practices.
5.3.5.0-3	The Contractor must perform Speciality Engineering IAW the accepted SEMP (CDRL SE-001).
5.3.5.1	5.3.5.1 Security Engineering
5.3.5.1.0-1	The Contractor must establish, implement and maintain a Security Engineering program as part of the overall Engineering Program.
5.3.5.1.0-2	The Contractor must document the Security Engineering processes in the SEMP (CDRL SE-001).

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5.3.5.1.0-3	The Contractor's Security Engineering program must be capable of providing the following services, as requested by the TA:
5.3.5.1.0-3.0-1	<ul style="list-style-type: none"> ○ Assess all engineering change requests associated with ISS integration or connectivity with a Secret System High and Type 1 cryptographic environment to determine TEMPEST impact;
5.3.5.1.0-3.0-2	<ul style="list-style-type: none"> ○ Review all engineering change requests/proposals associated with ISS integration with a Secret System High and Type 1 cryptographic environment to determine impact on Information System Security (INFOSEC) Boundaries and propose solutions to identified issues;
5.3.5.1.0-3.0-3	<ul style="list-style-type: none"> ○ Perform technical investigations and work to integrate or interface the ISS with a Secret System High environment while ensuring the implementation meets security requirements;
5.3.5.1.0-3.0-4	<ul style="list-style-type: none"> ○ Conduct equipment and subsystem security testing including TEMPEST acceptance testing and product integration testing;
5.3.5.1.0-3.0-5	<ul style="list-style-type: none"> ○ Prepare and review test plans, procedures and reports;
5.3.5.1.0-3.0-6	<ul style="list-style-type: none"> ○ Develop and maintain formal, information security control requirements for the ISS;
5.3.5.1.0-3.0-7	<ul style="list-style-type: none"> ○ Manage the ISS development using a development life cycle methodology that includes information security considerations;
5.3.5.1.0-3.0-8	<ul style="list-style-type: none"> ○ Provide and maintain system and product level functional and technical specifications for all ISS technical security safeguards; and,
5.3.5.1.0-3.0-9	<ul style="list-style-type: none"> ○ Participate and support the Departmental certification and accreditation process of the ISS solution.
5.3.5.2	5.3.5.2 Reliability, Availability and Maintainability
5.3.5.2.0-1	The Contractor must establish, implement and maintain a RAM Program IAW SAE JA1000, SAE JA1010 and SAEJA1002, or other equivalent standards, such as ANSI/GEIA-STD-0009-2008.
5.3.5.2.0-2	The Contractor's RAM Program must encompass all of the activities necessary to achieve the system Reliability, Maintainability, Built in Tests (BITs) and Service Life performance required by the Technical Performance Specification of Annex CB. This includes all hardware, software and firmware that comprise the ISS-S system. This must include the activities necessary to verify the level of RAM performance achieved, and to produce all deliverable RAM data required under this Contract.

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5.3.5.2.0-3	The SEMP will act as the RAM Program Plan. The Contractor must document the RAM Program in the SEMP (CDRL SE-001).
5.3.5.2.0-4	The Contractor must perform RAM work IAW the accepted SEMP (CDRL SE-001).
5.3.5.3	5.3.5.3 Electromagnetic (EM) Environmental Effects
5.3.5.3.0-1	The Contractor must maintain an EM engineering capability to control, investigate and improve the system Electromagnetic Compatibility (EMC) and to qualify new hardware to the system EMC requirements.
5.3.5.3.0-2	The Contractor must ensure that the ISS continues to satisfy the E3 requirements specified in the TPS and UAPS Annex CB.
5.3.5.4	5.3.5.4 Radiation Hazard Test Support
5.3.5.4.0-1	RADHAZ tests conducted IAW CFTO C-55-040-001/TS-001 will be conducted by government personnel. The Contractor must provide technical and logistical support of RADHAZ tests.
5.3.5.5	5.3.5.5 Polychlorinated Biphenyls and Cadmium
5.3.5.5.0-1	PCBs, halocarbons and asbestos must not be used by the contractor for the design, operation and maintenance of the equipment, products or support services.
5.3.5.5.0-2	The Contractor must not use Cadmium plating and devices using cadmium, unless specifically approved by the TA.
5.3.5.6	5.3.5.6 Mercury Restrictions
5.3.5.6.0-1	Mercury is a restricted hazardous substance as per Canadian Environmental Protection Act 1999 (CEPA) Schedule 1 List of Toxic substances.
5.3.5.6.0-2	The following laws, regulations, policies, directives and guidelines apply:
5.3.5.6.0-2.0-1	○ Canadian Environmental Protection Act, 1999 (CEPA), Schedule 1 (List of Toxic Substances);
5.3.5.6.0-2.0-2	○ Risk Management Strategy for Mercury-Containing Products, Environment Canada, Dec., 2006;
5.3.5.6.0-2.0-3	○ Notice Requiring the Preparation and Implementation of Pollution Prevention Plans in Respect of Mercury Releases from Mercury Switches in End-of-Life Vehicles Processed by Steel Mills, 29 Dec, 2007, Canada Gazette Vol. 141. No. 52;
5.3.5.6.0-2.0-4	○ List of Accelerated Reduction/Elimination of Toxics (ARET);

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5.3.5.6.0-2.0-5	<ul style="list-style-type: none"> ○ National Pollutant Release Inventory (NPRI) 2008, Canada Gazette Part 1, 16 Feb 2008;
5.3.5.6.0-2.0-6	<ul style="list-style-type: none"> ○ Canada-Wide Standard for Mercury-Containing Lamps;
5.3.5.6.0-2.0-7	<ul style="list-style-type: none"> ○ Canada Labour Code Part II;
5.3.5.6.0-2.0-8	<ul style="list-style-type: none"> ○ DND policy: Defence Administrative Order and Direction (DAOD) 4003-1 Hazardous Materials Management;
5.3.5.6.0-2.0-9	<ul style="list-style-type: none"> ○ Environmental Emergency Regulations, SOR/2003-307.
5.3.5.6.0-3	The Contractor must comply with all Mercury Regulations in effect throughout the conduct of the work.
5.3.5.6.0-4	New equipment must not contain mercury, where possible and feasible.
5.3.5.6.0-5	For each case where a mercury containing product is utilised, the Contractor must submit a statement explaining why it is not technically possible or feasible to use a mercury-free product in its place.
5.3.5.6.0-6	Products containing mercury must comply with mercury content limit as per identified the promulgated Mercury Regulations.
5.3.5.6.0-7	Where the equipment utilizes mercury, in any shape or form, contained or used within the design, operation and maintenance of equipment, support tooling, products or materials used or consumed, must be identified and associated with their physical location within or on the work provided.
5.3.5.6.0-8	The contractor must provide the following for each occurrence of mercury in tabular format to the TA:
5.3.5.6.0-8.0-1	<ul style="list-style-type: none"> ○ Equipment NATO Stock Number (NSN) (for equipment containing mercury);
5.3.5.6.0-8.0-2	<ul style="list-style-type: none"> ○ Equipment Description;
5.3.5.6.0-8.0-3	<ul style="list-style-type: none"> ○ NSN or unique identifier in Defence Resource Management Information System (DRMIS) of the item mercury-containing mercury item (if it exists);
5.3.5.6.0-8.0-4	<ul style="list-style-type: none"> ○ Manufacturer of the mercury-containing item;
5.3.5.6.0-8.0-5	<ul style="list-style-type: none"> ○ Date of manufacture of the mercury-containing item;
5.3.5.6.0-8.0-6	<ul style="list-style-type: none"> ○ Manufacturer part number of the mercury-containing item;
5.3.5.6.0-8.0-7	<ul style="list-style-type: none"> ○ National Supply Code for Manufacturers of items containing mercury

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	(NSCM)/Commercial and Government Entity (CAGE) Code;
5.3.5.6.0-8.0-8	○ Description of the mercury-containing item;
5.3.5.6.0-8.0-9	○ The form of mercury (e.g. liquid, vapour, amalgam, metal halide);
5.3.5.6.0-8.0-10	○ Quantity of mercury (kg mass);
5.3.5.6.0-8.0-11	○ Volume of mercury (L) and its concentration in ppm [provided either mass or volume/concentration of mercury, but not both];
5.3.5.6.0-8.0-12	○ The location of the mercury- containing item(s);
5.3.5.6.0-8.0-13	○ Quantity of mercury- containing item per reported equipment;
5.3.5.6.0-8.0-14	○ Total Quantity of mercury within the reported equipment (for kg mass and volume/concentration); and
5.3.5.6.0-8.0-15	○ Material Safety Data Sheet (MSDS), where possible.
5.3.5.6.0-9	The Contractor is responsible to ensure that consumable products and equipment containing mercury are labelled in a readily visible location. The information must be in characters that are at least 3 mm in height, legible and indelible and that are impressed, embossed or in a colour that contrasts with the label's background or the colour of the product as applicable The label must be enclosed by a borderline and easily distinguishable from other graphic material on the product or its package. The label must be bilingual and shall include the following:
5.3.5.6.0-9.0-1	○ A statement "CAUTION/MISE EN GARDE" in characters that are at least 4 mm in height;
5.3.5.6.0-9.0-2	○ A statement that the product contains mercury and the content of mercury in the product in milligrams;
5.3.5.6.0-9.0-3	○ Information on the action to be taken in case of accidental breakage and a description of the risks associated with the use of the product, the address of a website that contains the information, or contact information for a person who can provide that information;
5.3.5.6.0-9.0-4	○ Information on the options available for proper disposal and recycling IAW the laws of jurisdiction where the disposal or recycling to take place, the address of a website that contains the information, or contact information for a person who can provide that information;
5.3.5.6.0-9.0-5	○ A warning that the product is to be managed IAW the applicable disposal or recycling laws;

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5.3.5.6.0-9.0-6	<ul style="list-style-type: none"> ○ The “Hg” symbol encircled by a line on a readily visible location on the product where the characters are at least 3 mm in height which are impressed, embossed or in a colour that contrasts with the label’s background or the colour of the product as applicable. Note: Hg symbol stands for mercury.
5.3.5.6.0-10	If the product is not large enough to accommodate the information, the information must be:
5.3.5.6.0-10.0-1	<ul style="list-style-type: none"> ○ In a readily visible location on the package in which the product is sold or offered for sale; or
5.3.5.6.0-10.0-2	<ul style="list-style-type: none"> ○ In a notice attached to the product or in a manual that accompanies the product, if there is no package, or if the package is not large enough to accommodate the information.
5.3.5.6.0-10.0-3	<ul style="list-style-type: none"> ○ In both official languages.
5.3.5.6.0-11	Technical documentation must contain:
5.3.5.6.0-11.0-1	<ul style="list-style-type: none"> ○ Warnings that the equipment contains mercury and shall reflect the requirements of the mercury regulation and this plan. The technical document shall also include information on part numbers containing mercury, location, type of mercury, manufacturer’s information, mercury content, and MSDS information (included in CDRL PM-008).
5.3.5.6.0-12	A written work procedure for processes involving the safe handling of mercury-containing equipment, components and materials, must be included. It must identify procedures for mercury spills cleanups and disposal procedures. The work procedure shall identify proper Personal Protective Equipment (PPE) in the case of a spill.
5.3.6	5.3.6 Verification and Qualification
5.3.6.0-1	The Contractor must establish, implement and manage a VQ program consistent with the work requirements of this SOW.
5.3.6.0-2	The Contractor must prepare and deliver a VQP IAW CDRL SE-004 .
5.3.6.0-3	The VQ program must include the resources, processes and policies necessary to ensure the VQ effort is properly controlled and documented for the duration of the Contract.
5.3.6.0-4	The VQ program must comply with the Verification Method and verification criteria requirements specified in the TPS module at Annex CB Appendix 1.
5.3.6.0-5	The Contractor must perform VQ IAW the approved VQP (CDRL SE-004).

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5.3.6.1	5.3.6.1 Verification Process
5.3.6.1.0-1	The Contractor must perform the analysis and inspection verification activities IAW the approved VQP.
5.3.6.1.0-2	The Contractor must prepare and deliver a Verification Qualification Test Report IAW CDRL SE-006 .
5.3.6.2	5.3.6.2 Qualification Test Process
5.3.6.2.0-1	The purpose of the Qualification Test Process is to ensure that ISS system elements have been implemented compliant to their respective allocated and derived requirements and that the integrated system is tested using the Verification Method specified in the TPS and UAPS.
5.3.6.2.0-2	For each ISS system element that requires qualification testing, the Contractor must qualify the system element and the integrated system IAW the approved VQP (CDRL SE-004).
5.3.6.2.0-3	The final ISS-S qualification will be achieved through the SAT as documented in section 3.2 of this SOW.
5.3.6.2.0-4	The Contractor must prepare and deliver the QTDPs IAW CDRL SE-005 .
5.4	5.4 Work Authorization Support Services
5.4.0-1	Canada may require the Contractor to perform work on an "if, as, and when requested" basis using the terms and conditions of the Contract. Canada will issue different types of work authorizations such as DND 626 Task Authorization and Contract Change Proposals to authorize the work to be performed. The work authorization process will require the Contractor to provide a response to a Canada initiated SOW. That response, in addition to determine the scope of the work and deliverable, will include a quote on the Level Of Effort (LOE) to complete the work. The range of Support Services to be covered by this Work Authorization Process includes:
5.4.0-1.0-1	○ Technical Investigations;
5.4.0-1.0-2	○ Development of hardware and software solutions;;
5.4.0-1.0-3	○ Design, fabrication, modelling and limited manufacture;
5.4.0-1.0-4	○ Testing; and
5.4.0-1.0-5	○ ILS, including

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5.4.0-1.0-5.0-1	<ul style="list-style-type: none"> • Publications amendments,
5.4.0-1.0-5.0-2	<ul style="list-style-type: none"> • Training, and
5.4.0-1.0-5.0-3	<ul style="list-style-type: none"> • Fielding support.
5.4.0-2	Available Personnel Resources. The Contractor must have available the labour categories identified in Appendix 4 to this Annex to perform the work covered by the requested Support Services.
6	6 Integrated Logistics Support
6.1	6.1 ILS Program
6.1.0-1	The Contractor must plan, produce and, when accepted, implement and conduct an ILS Program, IAW A-LM-505-001/AG-001 Guidance Manual ILS, that details how it will complete its assigned ILS responsibilities identified in this SOW.
6.1.0-2	A Support Concept for the ISS is provided at Volume 2, Annex CA, Appendix 2. The purpose of the Support Concept is to:
6.1.0-2.0-1	Provide the ISSP Contractor with a document to be used in the development of the ILS Program. It provides information regarding mission cycles, projected usage and DND's internal support processes and programs. It is not structured as a procedures guide, but rather, will form the basis for the Contractor and DND's development of complementary and supportive in-service processes for the ISS; and
6.1.0-2.0-2	Provide DND stakeholders with a consolidated view of how the ISSP will be used and supported through its lifecycle. During the in service life of the ISSP, the Support Concept will be used by the Equipment Maintenance Team (EMT) to develop DND support plans.
6.2	6.2 Integrated Logistics Support Plan (ILSP)
6.2.0-1	The Contractor must prepare and deliver an ILSP IAW CDRL LS-001 .
6.2.0-2	The Contractor must conduct the ILS Program IAW the approved ILSP. Any changes to the ILSP must be submitted to the TA for acceptance.
6.3	6.3 ILS Review Meetings
6.3.0-1	An ILS Review provides a working level forum to discuss ILS issues and means of resolution between Canada and the Contractor. ILS Reviews occur between the ILS teams of the Contractor and Canada as required by either party. When possible, ILS Reviews should be scheduled to coincide with PRMs.

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6.3.0-2	When an ILS Review is required, the Contractor must perform ILS Reviews IAW the ILSP (CDRL LS-001).
6.3.0-3	The Contractor must prepare and deliver an ILS Review Agenda IAW CDRL PM-005 .
6.3.0-4	The Contractor must conduct the meeting IAW the PMP (CDRL PM-001).
6.3.0-5	The Contractor must prepare and deliver the ILS Review Minutes in accordance CDRL PM-006 .
6.3.0-6	The Contractor must record and maintain all ILS Issues and AIs IAW the IAIL (CDRL PM-007).
6.3.0-7	The Contractor must track ILS Issues and AIs to closure.
6.3.0-8	The Contractor must make the above information available to Canada through the EIE service.
6.4	6.4 Maintenance Plan
6.4.0-1	The Contractor must prepare and deliver a Maintenance Plan IAW CDRL LS-005 .
6.4.0-2	The Contractor must identify all maintenance tasks and allocate these to either Operator Maintenance (an average of 15 minutes per day); First Line Maintenance for maintenance activities that can be accomplished on average in one (1) hour or less with no, or minimal, Special Tools and Test Equipment (STTE); or Second Line Maintenance for those that require minimal specialized support equipment and can be completed on average within two (2) hours.
6.4.0-3	Maintenance tasks that would otherwise meet the above requirements, but having durations in excess of two hours and/or require costly STTE will be performed under contracted Repair and Overhaul (R&O) services.
6.4.1	6.4.1 Software Maintenance Documentation
6.4.1.0-1	The Contractor must provide the documentation needed for software maintenance and support. The Contractor must prepare and deliver the Software Documentation IAW CDRL LS-006 .
6.5	6.5 Technical Publications
6.5.1	6.5.1 Publications Requirements
6.5.1.0-1	The Contractor must provide as a minimum all technical publications for operation, maintenance, quick reference, system management and parts lists of the deliverable end

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	items that constitute the ISS.
6.5.1.0-2	The Contractor must prepare and deliver the Technical Publications, including operation and maintenance manuals and QRG, IAW CDRL LS-007 .
6.5.1.0-3	The technical publications must incorporate appropriate EHS warnings and instructions in direct relation of the EHS risks presented in the contents.
6.5.1.0-4	The English and French language manuscripts will be required for the Pilot ICT courses.
6.5.1.0-5	The Contractor must deliver publications in both French and English.
6.5.2	6.5.2 Validation of Technical Publications
6.5.2.0-1	The Contractor must validate the Technical Publications IAW C-01-100-100/AG-006. The Contractor's submission of proof of previous validation will be acceptable for existing publications as long as they meet the requirements of C-01-100-100/AG-006.
6.5.3	6.5.3 Certificates
6.5.3.0-1	The Contractor must prepare and deliver the following Certificates to the TA IAW C-01-100-100/AG-006, Part 12, section 2:
6.5.3.0-1.0-1	○ Certificate of validation (DND590);
6.5.3.0-1.0-2	○ Certificate of Translation Accuracy Check (TAC);
6.5.3.0-1.0-3	○ Certificate of Reproducible Check (DND 642); and
6.5.3.0-1.0-4	○ Certificate of Compliance (DND591).
6.6	6.6 Training
6.6.1	6.6.1 Manage Training Program
6.6.1.0-1	The Contractor must establish and maintain a Training Program consistent with the Support Concept at Annex CA, Appendix 2.
6.6.1.0-1.0-1	The Contractor must conform to the training development requirements of Canadian Forces Individual Training Education System (CFITES).
6.6.1.0-2	The Contractor must prepare and deliver a Training Program Plan IAW CDRL LS-004 .
6.6.1.0-3	The Contractor must conduct the Training Program Plan IAW the accepted Training Program Plan (CDRL LS-004).

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6.6.2	6.6.2 Support for Training Courses
6.6.2.0-1	Pilot ICT courses. The Contractor must provide everything required to conduct all Pilot ICT courses. This includes, but is not limited to: training facilities, instructional staff, support personnel, course materials, consumables and equipment.
6.6.2.0-2	If the ISS-S used to support the Pilot ICT courses are scheduled for delivery to Canada, the Contractor must return these to "like new condition" and in the approved configuration upon completion of the training.
6.6.2.0-3	ICT Courses. For the approved ICT courses conducted at Canada's locations, the Contractor must provide the following: instructional staff, support personnel, Field Service representative (FSRs), instructional and student material required to conduct training.
6.6.2.0-4	Canada will provide on-site training facilities, ISS-S and support equipment for each ICT course.
6.6.3	6.6.3 ICT Course Size
6.6.3.0-1	The Contractor must plan and deliver the numbers of course serials specified in Volume 2, Annex CF for the numbers of students identified as follows:

6.6.3.0-2

Description	Number of Students
Pilot ICT Operator Instructors Course - English	Up to 12
Pilot ICT Operator Instructors Course - French	Up to 12
Pilot ICT System Manager Instructors Course - English	Up to 12
Pilot ICT System Manager Instructors Course – French	Up to 12
Pilot ICT Maintainer' Instructors Course – English	Up to 12
Pilot ICT Maintainer' Instructors Course – French	Up to 12
ICT Operator Course – English	Up to 24
ICT Operator Course – French	Up to 24
ICT System Managers Course – English	Up to 12
ICT System Managers Course – French	Up to 12
ICT Maintainers Course - English	Up to 6
ICT Maintainers Course - French	Up to 6

6.6.4

6.6.4 ICT Course Locations

6.6.4.0-1

The following locations are the most likely sites where the Contractor is expected to be called upon to deliver ICT courses:

6.6.4.0-1.0-1

- CFB Valcartier

6.6.4.0-1.0-2

- CFB Petawawa

6.6.4.0-1.0-3

- CFB Gagetown

6.6.4.0-1.0-4

- CFB Edmonton

6.6.4.0-1.0-5

- CFB Kingston

6.6.4.0-1.0-6

- CFB Borden

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6.6.4.0-1.0-7	○ Contractor provided facility
6.6.4.0-1.0-8	○ Other location as tasked by Canada.
6.6.5	6.6.5 Course Development
6.6.5.0-1	The Contractor must analyse training needs and requirements IAW CFITES A-P9-050-000/PT-002 and A-P9-050-000/PT-003.
6.6.5.0-2	The Contractor must design and develop the Training Course IAW CFITES A-P9-050-000/PT-004 and A-P9-050-000/PT-005.
6.6.5.0-3	The Contractor must develop and deliver Training Courses and material in Canadian English and French IAW CDRL LS-008 .
6.6.6	6.6.6 Training Support Equipment
6.6.6.0-1	The Contractor must identify the Training Support Equipment in the RSERL IAW CDRL LS-002 .
6.6.7	6.6.7 Conduct and Support ISS Training
6.6.7.0-1	The Contractor must conduct the Training IAW the accepted Training Program Plan (CDRL LS-004), and in the numbers and types of course serials specified in Annex CF.
6.6.7.0-2	The Contractor must conduct training IAW guidance of CFITES A-P9-050-000/PT-006.
6.6.8	6.6.8 Evaluation of students
6.6.8.0-1	The Contractor must verify the effectiveness of the Training Program IAW the accepted Training Program Plan (CDRL LS-004).
6.6.8.0-2	The Contractor must evaluate students IAW guidance of CFITES A-P9-050-000/PT-007.
6.6.9	6.6.9 ISS Training Validation support
6.6.9.0-1	The TA will validate the Pilot ICT courses IAW CDRL LS-008 . DND personnel selected to attend the Contractor delivered Pilot ICT Instructor courses will validate the training material and provide feedback to the contractor, which will lead to the approval of the Final version of the ICT courseware. The Contractor must support this validation process IAW CFITES A-P9-050-000/PT-008 and the validation plan articulated in CDRL LS-004 .
6.7	6.7 Supply Support
6.7.1	6.7.1 Equipment Identification Plate and Markings

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6.7.1.0-1	The Contractor must prepare and deliver an example of the Equipment Identification Plate Data IAW CDRL LS-009 .
6.7.1.0-2	Upon approval, the Contractor must provide and affix identification plates on the following types of equipment as applicable:
6.7.1.0-2.0-1	○ Prime equipment and electronic components;
6.7.1.0-2.0-2	○ Support equipment (excluding tools);
6.7.1.0-2.0-3	○ Training equipment; and
6.7.1.0-2.0-4	○ Automatic Test Equipment.
6.7.1.0-3	The Contractor must mark sub-systems and parts with appropriate hazard warning labels to identify (with symbols) any radioactive or hazardous materials.
6.7.2	6.7.2 Sparing
6.7.2.0-1	The Contractor must conduct a sparing analysis and prepare and deliver a Sparing Analysis Report IAW CDRL LS-010 .
6.7.2.0-2	The Contractor must prepare and deliver the RSPL IAW CDRL LS-003 .
6.7.2.0-3	The Contractor must prepare and deliver Supplementary Provisioning Technical Data (SPTD) IAW CDRL LS-011 .
6.7.2.0-4	The Contractor must prepare and deliver a Consumable and Bulk Items List (CBIL) IAW CDRL LS-012 .
6.7.2.0-5	The Contractor is not expected to host an Initial Provisioning Conference (IPC) at its facility but will be required to assist the TA with the identification and selection of the full range and depth of spares required to support the ISS.
6.7.2.0-6	All spares must be new and will reflect the latest approved configuration of ISS to be delivered to Canada.
6.7.3	6.7.3 Supply Management of Controlled Goods
6.7.3.0-1	Controlled Goods must be assigned a Demilitarization Code. The Contractor must provide the applicable Demilitarization Codes in their catalogues. For items not of US origin, but that meet the criteria described in the Canadian Export Control List Group 2, Group 6 and Article 5504, the Contractor must provide to Canada, through the Access to Technical Data Package requirements of the contract, the necessary source documents for Canada to initiate the process of assigning them a Demilitarization Code.

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6.7.4	6.7.4 Support Equipment
6.7.4.0-1	The Contractor must prepare and deliver a RSERL IAW CDRL LS-002 .
6.7.5	6.7.5 Packaging, Handling, Storage, and Transportation (PHST)
6.7.5.0-1	Canada's packaging policy on procurement of materiel is to accept commercial packaging, whenever possible. However, the exception is when there is a requirement for military packaging due to the fragility or complexity of the item. The Contractor must use best commercial packaging practices, unless otherwise directed by Canada to use military packaging.
6.7.5.0-2	The Contractor must prepare and deliver Packaging Data IAW CDRL LS-013 .
6.7.5.0-3	To identify packaging requirements for items, such as spare parts, bulk items, STTE and training equipment, that are to be shipped to or stored in a facility owned by Canada. The Contractor must prepare and deliver Packaging Data in electronic form suitable for entry into the DND's DRMIS, IAW accepted Packaging Data (CDRL LS-013).
6.7.5.0-4	The Contractor must provide the level of packaging for major sub-components IAW the provisions of CF Packaging Specification D-LM-008-001/SF-001.
6.7.5.0-5	The Contractor must provide all the required Packaging Instructions when packaging IAW CF Packaging Specification D-LM-008-001/SF-001.
6.7.5.1	6.7.5.1 Marking
6.7.5.1.0-1	The Contractor must mark items (and logistics containers if applicable) for shipment IAW D-LM-008-002/SF-001.
6.7.5.1.0-2	The Contractor must mark the items with the following information:
6.7.5.1.0-2.0-1	○ NSN
6.7.5.1.0-2.0-2	○ Nomenclature including size.
6.7.5.1.0-2.0-3	○ Quantity per box or package/ Unit of issue.
6.7.5.1.0-2.0-4	○ Contract Serial Number.
6.7.5.2	6.7.5.2 Bar Code
6.7.5.2.0-1	The Contractor must affix a permanent Bar Code to each uniquely identifiable procurable item and Maintenance Significant Item (MSI) within it using Bar Code symbologie 128, IAW D-LM-008-002/SF-001.

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6.7.5.2.0-2	The Contractor must affix a Bar Code to each shipping package/container to identify its contents.
6.7.5.3	6.7.5.3 Lithium batteries
6.7.5.3.0-1	If any Lithium or Lithium-polymer batteries are used, then the procedures in C-02-008-001/TS-000, General Safety Lithium Batteries Handling, Storage Preservation and Disposal Instructions must be used.
7	7 Configuration Management
7.0-1	The Contractor must conduct CM activities IAW this section.
7.0-2	The Contractor must implement a CM program tailored to meet the requirements of this contract IAW MIL-STD-973, 17 April 1992, Configuration Management, the National Consensus Standard for Configuration Management ANSI/EIA 649-A (Oct 2004), and the following DND Standards:
7.0-2.0-1	<ul style="list-style-type: none"> ○ D-01-002-007/SG-001: Requirements for the preparation of Configuration management Plans;
7.0-2.0-2	<ul style="list-style-type: none"> ○ D-01-002-007/SG-006: Criteria for the selection of Configuration Items;
7.0-2.0-3	<ul style="list-style-type: none"> ○ C-01-000-102/AG-000: National Defence Index of Documentation;
7.0-2.0-4	<ul style="list-style-type: none"> ○ D-01-300-100/SG-000: Specification Preparation;
7.0-2.0-5	<ul style="list-style-type: none"> ○ D-01-400-001/SG-000: Engineering Drawing Practices;
7.0-2.0-6	<ul style="list-style-type: none"> ○ D-02-002-001/SG-001: Identification Marking of Canadian Military Property;
7.0-2.0-7	<ul style="list-style-type: none"> ○ D-02-006-008/SG-001: The Design Change, Deviation & Waiver Procedure.
7.0-3	This CM Program must be in place during the entire period of performance of this contract. The CM program must not only cover the production of the ISS Suite, Ancillary and Accessories Items, but must ensure that the documentation reflects the final products.
7.0-4	The established configuration management program must address, as a minimum, the following areas:
7.0-4.0-1	<ul style="list-style-type: none"> ○ CMP;
7.0-4.0-2	<ul style="list-style-type: none"> ○ Configuration Identification;
7.0-4.0-3	<ul style="list-style-type: none"> ○ Configuration Control;

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7.0-4.0-4	○ Configuration Status Accounting (CSA);
7.0-4.0-5	○ Configuration Audits; and
7.0-4.0-6	○ Technical data.
7.1	7.1 Configuration Management Plan
7.1.0-1	The Contractor must prepare and deliver a CMP which delineates the policies, procedures, and responsible personnel that will be employed to ensure that the configuration of the ISS-S is properly controlled and documented. Delivery instructions, format and content will be IAW CDRL CM-001 .
7.2	7.2 Configuration Identification
7.2.0-1	The Contractor must select configuration items (CIs) and Computer Software Configuration Items (CSCIs) for the project. The CI/CSCI list must be approved by the Government. The Contractor must ensure these CIs/CSCIs are based on the proposed product and the maintenance concept that is foreseen for the life of the equipment. If required, The Contractor must propose amendments and updates to the CI/CSCI list to match the support concept developed through the ILS Program. The Contractor must add any new approved CIs/CSCIs to the list and must amend the CM elements and deliverables accordingly.
7.2.0-2	The Contractor must prepare, deliver and maintain the ISS-S EBS IAW CDRL CM-005 . The EBS must represent the system baseline configuration submitted in the Contractor's proposal (P(Bid)), and ISS Variant and Ancillary must be assembled IAW the EBS. If and when the system baseline configuration changes, then the Contractor must submit an updated EBS.
7.2.0-3	For new CI with no NSN, the Contractor must prepare and deliver SPTD IAW CDRL LS-011 .
7.3	7.3 Configuration Control
7.3.0-1	The Contractor must prepare and deliver, as required, ECPs IAW CDRL CM-002 to request authorization to make changes to the approved system baseline configuration or to a particular performance or design requirement of the contract, specification or document.
7.3.0-2	The Contractor must submit an impact analysis on cost, schedule, ILS, project deliverables, EHS with each ECP that changes any of the following characteristics: fit, form, function or specified performance limits. ECPs that do not change fit, form, function or specified performance limits do not need the TA's approval, but must be provided as info without the full impact analysis.

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7.3.0-3	The Contractor must prepare and deliver as required Requests for Deviation (RFD) and/or Requests for Waiver (RFW) IAW CDRL CM-006 . A RFD describes a requested departure from a Contract requirement for a specified period of time and/or a specified number of units. A RFW obtains authorization to deliver non-conforming material which may not meet prescribed documentation but is suitable for use as is or after repair and/or retrofit.
7.3.0-4	The Contractor must prepare and submit a Specification Change Notice (SCN) IAW CDRL CM-007 to describe changes to specification concurrently with the preparation of a related ECP, for each specification which would require revision if the ECP were to be approved. The SCN should only state the exact change proposed to the specification.
7.3.0-5	The Contractor must prepare and submit an NOR IAW CDRL CM-003 to describe the exact change(s) to be made to each drawing, associated list, or other affected document(s) when specified as a data requirement(s) in the contract. NOR are normally applicable where document(s) affected by an ECP are not controlled by the ECP preparing activity.
7.3.0-6	In the event that the TA considers an ECP has an impact on the ability of the System to satisfy the Performance Specification, and before ECP approval can be provided, Canada reserves the right to:
7.3.0-6.0-1	○ require that regression testing be performed; and
7.3.0-6.0-2	○ evaluate the System.
7.4	7.4 Configuration Status Accounting
7.4.0-1	The Contractor must provide CSA reports IAW CDRL CM-008 .
7.4.0-2	For software CIs, The Contractor must produce and process SVDD IAW CDRL CM-004 .
7.5	7.5 Configuration Audits
7.5.0-1	The Contractor must produce a Configuration Audit Plan for each FCA and PCA conducted. The plans must be delivered and written IAW CDRL CM-009 .
7.5.0-2	The Contractor must submit a Configuration Audit Report for TA approval IAW CDRL CM-010 following completion of each audit.
7.5.0-3	For each audit conducted and upon approval of the audit report, and closure of related AIs, the Contractor must prepare a certification for approval by the TA. The certification package will include:
7.5.0-3.0-1	○ proof of all AI closure;

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7.5.0-3.0-2	○ updated baseline; and
7.5.0-3.0-3	○ final certification sheet.
7.6	7.6 Technical Data
7.6.0-1	The Contractor must provide access to its technical data (engineering drawings, data list and reference documents) depicting the ISS-S product delivered, when requested by the TA for viewing.
8	8 Quality Assurance Program
8.1	8.1 General
8.1.0-1	The QA work requirements, specified below, are based on the Contractor having an acceptable quality system, and proven process controls on specific processes relevant to the products and services being procured under the Acquisition Contract.
8.1.0-2	The Contractor must establish and implement a product and process QA program in order to assure the quality of the work of this SOW and of the resulting ISS product and services.
8.1.0-3	The aim of the QA program must be to prevent rather than detect non-conformance, at all stages of the system life -cycle.
8.1.0-4	The QA Program must be consistent with the Contractor's Quality Management System
8.1.0-5	The QA Program must be consistent with the VQ requirements of this SOW, and includes the Verification Methods and Verification Criteria specified in the TPS (Volume 2, Annex CB, Appendix 1).
8.1.0-6	The Contractor must prepare and deliver a QAP IAW CDRL PM-002 for acceptance by the TA.
8.1.0-7	The Contractor must ensure that the products and the work supplied and performed by Subcontractors, suppliers and vendors are governed by the applicable elements of the accepted QAP.
8.1.0-8	The Contractor must perform QA IAW the accepted QAP.
8.2	8.2 System Qualification Phase QA.
8.3	8.3 Canada preferred method of product acceptance
8.3.0-1	The Contractor is to establish an Acceptance of Product Method IAW his accepted QAP (CDRL PM-002) which is compliant to the Quality System for production requirements

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	of this SOW.
8.4	8.4 DND QAR
8.4.0-1	The Contractor must provide the DND QAR with access to the ISS Information Items and Data, within 48 hours of receiving a visit request, to ensure the operations performed by the Contractor are IAW the processes and procedures detailed in the Contractor's plans.
8.4.0-2	The Contractor must provide corrective measures to the Quality System as requested by the TA. The measures must address any deficiencies from the prescribed or documented procedures or instances of poor practices which might have an adverse effect upon the quality of the ISS.
8.5	8.5 Integration Verification and Validation (IV&V) Agent
8.5.0-1	Canada may elect to acquire the services of an IV&V Agent to verify or validate elements of the ISS.
8.5.0-2	The Contractor must provide the IV&V Agent with access to the ISS Information Items and Data, within 48 hours of receiving a visit request.
9	9 Infrastructure Support Services
9.1	9.1 General
9.1.0-1	Canada requires the services specified below in order to support the project during the Acquisition Contract.
9.1.0-2	Many of these services will be transitioned to OWSS when tasked, in order to facilitate the work of the ISS LCMMs and Equipment Program Managers.
9.2	9.2 Electronic Information Environment Services
9.2.1	9.2.1 Approach
9.2.1.0-1	Canada has chosen a more dynamic and repository based approach to the management of project and technical information items, records and data, while still assuring Canada's ability of performing due diligence.
9.2.1.0-2	The approach takes advantage of the Contractor's and Canada's information management capabilities, in order to afford a more timely delivery, review and turnaround of review results. This will in turn reduce costs, effort and time in the performance of the Work.
9.2.2	9.2.2 General Features
9.2.2.0-1	The Contractor must establish and maintain an EIE service that satisfies the EIE

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	requirements listed below.
9.2.2.0-2	The Contractor must provide authorized users with access to required data to perform their activities in throughout the duration of the Contract.
9.2.2.0-3	From initiation of the contract, the EIE will evolve to provide increased capabilities.
9.2.2.0-4	The content (data) will initially be made available as specified in the acquisition SOW. The EIE must provide access to the product related data.
9.2.2.0-5	The EIE must provide remote bi-directional access, between Canada and the Contractor, to the Contract data items. The EIE capability requested by DND will not interface with DND's internal Material Acquisition and Support (MA&S) management systems such as DRMIS, NMDS and TACIS. Exchanges of information must comply with the Security Requirements Check List (SRCL) that can be found in Annex AG to this Contract.
9.2.2.0-6	The Contractor must advise the TA when any changes to content are made to the EIE
9.2.3	9.2.3 Web-browser Based Access
9.2.3.0-1	The EIE must provide users with access to data, through the use of DND's standard Internet browser application.
9.2.4	9.2.4 EIE Access
9.2.4.0-1	The Contractor must provide and maintain user account management services to establish and administer user accounts for the EIE.
9.2.4.0-2	Access to the EIE must be controlled via the use of passwords, which will be managed by the Contractor.
9.2.4.0-3	The EIE must be accessible to Canada authorised users 24 hours a day, 7 days a week, excluding Contractor planned down time.
9.2.4.0-4	The EIE must provide access to the latest released technical data.
9.2.4.0-5	The EIE must allow a user to electronically access, transfer, and post an electronic copy of the specified information items, data or records.
9.2.5	9.2.5 Modifiability
9.2.5.0-1	The EIE must be capable of evolving through the addition of extended functionality via the use of Task Authorisations.
9.3	9.3 Engineering Support Services

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9.3.1	9.3.1 Requirements Management support
9.3.1.0-1	The Contractor must maintain the Canada provided TPS-UAPS RTVM (Volume 2 Annex CB Appendix 1).
9.3.1.0-2	The Contractor must continuously update the Canada provided RTVM such that it continuously reflects the state of the ISS realisation, verification and qualification state of the system.
9.3.1.0-3	The RTVM is a DOORS module. The Contractor must ensure that the updated RTVM is able to be imported into DOORS and retain all cross-references to all other associated DOORS modules.
9.3.1.0-4	The Contractor must make the RTVM available through EIE Services as per section 9.2 of this SOW.
9.3.2	9.3.2 Problem Reporting and Support Services
9.3.2.1	9.3.2.1 Problem Reporting and resolution
9.3.2.1.0-1	The Contractor must provide a problem reporting mechanism for all services provided under section 9 of this SOW.
9.3.2.1.0-2	The Contractor must resolve and track all problems to closure.

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APPENDIX 1 TO ANNEX CA TO VOLUME 2

TECHNICAL REVIEWS FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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1	1 Formal Technical Reviews
1.1	1.1 Scope
1.1.0-1	This Appendix applies to the technical reviews to be conducted during both System Qualification and Production phases of the Integrated Soldier System (ISS) Acquisition.
1.2	1.2 Purpose
1.2.0-1	This Appendix amplifies the Technical Review work requirements of the Acquisition Statement of Work (SOW) providing guidance on the expected general conduct of technical reviews and direction on specific technical reviews.
2	2 General Review Process
2.0-1	This section provides guidance on the expected conduct of Formal Technical Reviews. It is to be used by the Contractor in the preparation of the System Engineering Management Plan (SEMP).
2.1	2.1 Review initiation
2.1.0-1	The review is initiated by the Contractor in accordance with the Master Project Schedule (MPS) and Work Breakdown Structure (WBS) (CDRL PM-003).
2.2	2.2 Review preparation
2.2.0-1	The Contractor must ensure that Canada has the necessary technical data for the review, at least 10 working days before the scheduled Technical Review Meeting (TRM) is to take place.
2.2.0-2	The Contractor must prepare the TRM agenda (CDRL PM-005) for each technical review and audit, and transmit it to Canada before the meeting.
2.2.0-3	Technical review teams must be composed of personnel competent to cover all areas to be reviewed.
2.2.0-4	Canada must be given sufficient time to review the planned agenda and data package before the meeting.
2.2.0-5	The team must consist of the minimum number of personnel required to adequately cover all areas of the review so that excessive time is not spent on discussion.
2.2.0-6	A list of Canada authorized attendees will be provided to the Contractor prior to the meeting.

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2.2.0-7	The Contractor must ensure that all information items required for the technical review are made available through the Electronic Information Environment (EIE).
2.3	2.3 Review Conduct
2.3.0-1	The Contractor must initiate, prepare, conduct and close technical reviews in accordance with the technical review process documented in the accepted SEMP (CDRL SE-001).
2.3.1	2.3.1 Review chair
2.3.1.0-1	The Technical Authority (TA) and Contractor Senior Systems Engineer must act as co-chairmen of the technical reviews.
2.3.1.0-2	Only the designated co-chairmen have decision-making responsibilities, so they must be thoroughly familiar with all aspects of the project before the review convenes.
2.3.2	2.3.2 Review results
2.3.2.0-1	Decisions, agreements, and approved action items must be recorded in the Issues-Action Item Log (IAIL) (CDRL PM-007).
2.3.2.0-2	Both Chairs are to review and sign off on the entries to the IAIL at the end of each day during which a review is being conducted.
2.3.2.0-3	The IAIL entries must be annotated such that the entry can identify the technical review it is associated with.
2.3.2.0-4	The Contractor is to assign each Action Item (AI) to an appropriate individual, with a stipulated closure date for resolution.
2.3.2.0-5	After each formal technical review, the Contractor must prepare and submit the minutes of that review (CDRL PM-006).
2.4	2.4 Review Closure
2.4.0-1	The TA will notify the Contractor of the recommendation that will be provided to the Contracting Authority (CA) resulting from the review.
2.4.0-2	There can only be one of three TA recommendations to CA for a Technical Review:
2.4.0-2.0-1	○ Approval. The TA approves the Technical Review results and recommends the closure of the review.
2.4.0-2.0-2	○ Contingent approval. The TA approves the Technical Review results contingent on identified AIs or Issues registered in the IAIL (CDRL PM-007) are tracked to closure. These items will be identified in the TAs recommendation.

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2.4.0-2.0-3	<ul style="list-style-type: none"> ○ Rejection. The TA rejects the Technical Review results, and rework will be necessary on the part of the Contractor to resolve the major issues identified during the review. The Technical Review must be re-scheduled once the issues and AIs are resolved.
2.4.0-3	These recommendations will impact continued progress and/or milestone payments.
2.5	2.5 Applicable Plans
2.5.0-1	The Contractor must perform the management and administration activities in support of Technical Review work In Accordance With (IAW) the SEMP (CDRL SE-001) and the Project Management Plan (PMP) (CDRL PM-001).
2.5.0-2	The Contractor must perform Configuration Management (CM) to ensure integrity and availability of information IAW the Configuration Management Plan (CMP) (CDRL CM-001)
2.5.0-3	The Contractor must assure the quality of Technical Review work products and process IAW the Quality Assurance Plan (QAP) (CDRL PM-002).
2.6	2.6 Review support
2.6.0-1	The Contractor must ensure that:
2.6.0-1.0-1	<ul style="list-style-type: none"> ○ Facilities, equipment and personnel for the review are provided;
2.6.0-1.0-2	<ul style="list-style-type: none"> ○ EIE services are provided to ensure transfer of information to the TA, and availability, display and recording of information items, records and data during the review.
3	3 Technical Review Checklists
3.0-1	Each Formal Technical Review has a specific series of conditions and a specific purpose.
3.1	3.1 System Requirements Allocation Review (SRAR)
3.1.1	3.1.1 Purpose
3.1.1.0-1	The main purpose of the SRAR is to ensure a clear understanding of the requirements documented in Technical Performance Specification (TPS) and associated verification criteria.
3.1.2	3.1.2 Entrance criteria
3.1.2.0-1	<ul style="list-style-type: none"> ● Kick-off meeting for the System Qualification Phase must have been conducted to the satisfaction of Canada.

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3.1.3	3.1.3 Inputs
3.1.3.0-1	<ul style="list-style-type: none"> SRAR Agenda (CDRL PM-005).
3.1.3.0-2	<ul style="list-style-type: none"> Annex CB and all appendices.
3.1.3.0-3	<ul style="list-style-type: none"> Requirements Traceability and Verification Matrix (RTVM) view of the TPS
3.1.3.0-4	<ul style="list-style-type: none"> Draft Verification and Qualification Plan (VQP) (CDRL SE-004).
3.1.3.0-5	<ul style="list-style-type: none"> TA accepted Equipment Breakdown Structure (EBS) (CDRL CM-005).
3.1.3.0-6	<ul style="list-style-type: none"> MPS and WBS (CDRL PM-003).
3.1.3.0-7	<ul style="list-style-type: none"> SRAR members must have studied the submitted documentation and prepared observations, questions and comments.
3.1.4	3.1.4 Activity
3.1.4.0-1	Perform general conduct of Technical Review as per section 2 of this appendix.
3.1.4.0-2	The SRAR is to:
3.1.4.0-2.0-1	<ul style="list-style-type: none"> Review completeness and accuracy of the required technical documentation;
3.1.4.0-2.0-2	<ul style="list-style-type: none"> Ensure traceability of requirements from the contract specification to the contractor's solution and verification method;
3.1.4.0-2.0-3	<ul style="list-style-type: none"> Confirm the contractor's understanding of system external interfaces;
3.1.4.0-2.0-4	<ul style="list-style-type: none"> Summarize technical issues and resolutions;
3.1.4.0-2.0-5	<ul style="list-style-type: none"> Assess technical risk management program and approach - identify current technical risks;
3.1.4.0-2.0-6	<ul style="list-style-type: none"> Review VQP (CDRL SE-004) and schedule;
3.1.4.0-2.0-7	<ul style="list-style-type: none"> Identify constraints to project (technical, resources, personnel etc.);
3.1.4.0-2.0-8	<ul style="list-style-type: none"> Formulate recommendations for continuing work.
3.1.5	3.1.5 Outputs
3.1.5.0-1	<ul style="list-style-type: none"> SRAR Meeting Minutes (CDRL PM-006).
3.1.5.0-2	<ul style="list-style-type: none"> SRAR annotated IAIL entries (CDRL PM-007).

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3.1.5.0-3	<ul style="list-style-type: none"> Revised RTVM.
3.1.5.0-4	<ul style="list-style-type: none"> Revised VQP (CDRL SE-004).
3.1.6	3.1.6 Exit criteria
3.1.6.0-1	In order to obtain TA SRAR recommendation to the CA for approval or contingent approval the Contractor must:
3.1.6.0-2	Obtain the acceptance of the TA on the following:
3.1.6.0-2.0-1	<ul style="list-style-type: none"> IAIL SRAR entries tracked to closure;
3.1.6.0-2.0-2	<ul style="list-style-type: none"> SRAR Minutes.
3.1.6.0-3	Obtain approval of:
3.1.6.0-3.0-1	<ul style="list-style-type: none"> Revised RTVM;
3.1.6.0-3.0-2	<ul style="list-style-type: none"> Revised VQP.
3.1.6.0-4	Obtain acceptance of:
3.1.6.0-4.0-1	<ul style="list-style-type: none"> Revised EBS
3.1.7	3.1.7 Outcome
3.1.7.0-1	<ul style="list-style-type: none"> Functional Baseline (FBL) is established by CM.
3.1.7.0-2	<ul style="list-style-type: none"> Allocated Baseline (ABL) is established by CM.
3.2	3.2 Test Readiness Review (TRR)
3.2.1	3.2.1 Purpose
3.2.1.0-1	Purpose of the TRR is to determine the readiness of the ISS and of the Contractor to perform the System Acceptance Test (SAT).
3.2.1.0-2	The Contractor must conduct a TRR prior to conducting SAT.
3.2.2	3.2.2 Entrance Criteria
3.2.2.0-1	<ul style="list-style-type: none"> The ISS and ISS system elements must have been qualified and verified IAW the approved VQP (CDRL SE-004) and their respective approved Qualification and Test Description and Procedures (QTDP)s (CDRL SE-005).

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3.2.2.0-2	<ul style="list-style-type: none"> The ISS must have passed Canada conducted Radio Frequency Radiation Hazard (RADHAZ) and Hazard of Electromagnetic Radiation to Ordnance (HERO) verification.
3.2.2.0-3	<ul style="list-style-type: none"> All SAT facilities, personnel, equipment and infrastructure must be ready.
3.2.2.0-4	<ul style="list-style-type: none"> ISS P(SAT) systems must be produced.
3.2.2.0-5	<ul style="list-style-type: none"> Approved SAT Plan (CDRL SE-007)
3.2.2.0-6	<ul style="list-style-type: none"> Approved SAT Descriptions and Procedures (SATDP) (CDRL SE-008).
3.2.3	3.2.3 Inputs
3.2.3.0-1	<ul style="list-style-type: none"> TA Approved Verification Qualification (VQ) Test Reports (CDRL SE-006).
3.2.3.0-2	<ul style="list-style-type: none"> TA Approved QTDPs (CDRL SE-005).
3.2.3.0-3	<ul style="list-style-type: none"> TA Approved SAT Plan (CDRL SE-007)
3.2.3.0-4	<ul style="list-style-type: none"> TA Approved SATDP (CDRL SE-008).
3.2.3.0-5	<ul style="list-style-type: none"> TA Approved Engineering Change Proposals (ECPs) (CDRL CM-002) since SRAR.
3.2.3.0-6	<ul style="list-style-type: none"> Contractor Configuration Status Accounting (CSA) Report (CDRL CM-008).
3.2.3.0-7	<ul style="list-style-type: none"> TA accepted EBS (CDRL CM-005).
3.2.3.0-8	<ul style="list-style-type: none"> IAIL (CDRL PM-007).
3.2.3.0-9	<ul style="list-style-type: none"> MPS and WBS (CDRL PM-003).
3.2.3.0-10	<ul style="list-style-type: none"> Quality Assurance (QA) certification of Contractor TRR readiness IAW the QAP (CDRL PM-002).
3.2.3.0-11	<ul style="list-style-type: none"> If available, Integration Verification and Validation (IV&V) Agent report and QAR report.
3.2.3.0-12	<ul style="list-style-type: none"> Revised RTVM View - Annex CB Appendix 1.
3.2.3.0-13	<ul style="list-style-type: none"> Approved VQP (CDRL SE-004).
3.2.3.0-14	<ul style="list-style-type: none"> SAT facility, equipment and infrastructure readiness status IAW the SAT Plan.
3.2.3.0-15	<ul style="list-style-type: none"> Results of Contractor SAT dry-run tests.

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3.2.3.0-16	<ul style="list-style-type: none"> Government Property Reports (CDRL PM-010).
3.2.3.0-17	<ul style="list-style-type: none"> TRR members must have studied the submitted documentation and prepared observations, questions and comments.
3.2.4	3.2.4 Activities
3.2.4.0-1	Perform general conduct of Technical Review as per section 2 of this appendix:
3.2.4.0-2	The TRR is to:
3.2.4.0-2.0-1	<ul style="list-style-type: none"> Review completeness and accuracy of the required technical documentation;
3.2.4.0-2.0-2	<ul style="list-style-type: none"> Ensure traceability of requirements from the contract specification to the allocated baseline specification(s) to the verification and qualification plans and QTDPs;
3.2.4.0-2.0-3	<ul style="list-style-type: none"> Summarize technical issues and resolutions of the IAIL;
3.2.4.0-2.0-4	<ul style="list-style-type: none"> Assess risk management program and approach - identify current technical risks;
3.2.4.0-2.0-5	<ul style="list-style-type: none"> Review VQP and schedule;
3.2.4.0-2.0-6	<ul style="list-style-type: none"> Review SAT Plan;
3.2.4.0-2.0-7	<ul style="list-style-type: none"> Review SATDP;
3.2.4.0-2.0-8	<ul style="list-style-type: none"> Identify constraints to SAT (technical, resources, personnel etc.).
3.2.5	3.2.5 Outputs
3.2.5.0-1	<ul style="list-style-type: none"> TRR Meeting Minutes (CDRL PM-006).
3.2.5.0-2	<ul style="list-style-type: none"> TRR annotated IAIL entries (CDRL PM-007).
3.2.5.0-3	<ul style="list-style-type: none"> Reviewed SAT Plan (CDRL SE-007)
3.2.5.0-4	<ul style="list-style-type: none"> Reviewed SATDP (CDRL SE-008).
3.2.5.0-5	<ul style="list-style-type: none"> QA Certification accepted.
3.2.6	3.2.6 Exit Criteria
3.2.6.0-1	In order to obtain TA TRR recommendation to the CA for approval or contingent approval the Contractor must:
3.2.6.0-2	Obtain approval of:

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3.2.6.0-2.0-1	○ Revised RTVM;
3.2.6.0-2.0-2	○ Revised SAT Plan (CDRL SE-007);
3.2.6.0-2.0-3	○ Revised SATDP (CDRL SE-008).
3.2.6.0-2.0-4	○ All VQ Test Reports (CDRL SE-006).
3.2.6.0-3	Obtain TA acceptance of the following:
3.2.6.0-3.0-1	○ Revised MPS and WBS (CDRL PM-003);
3.2.6.0-3.0-2	○ TRR Meeting Minutes (CDRL PM-006);
3.2.6.0-3.0-3	○ TRR annotated IAIL entries (CDRL PM-007);
3.2.6.0-3.0-4	○ Contractor SAT dry-run results;
3.2.6.0-3.0-5	○ QA Certification accepted.
3.3	3.3 Formal Qualification Review (FQR)
3.3.1	3.3.1 Purpose
3.3.1.0-1	FQR verifies that the ISS has completed the VQ activities to prove its full compliance with the TPS.
3.3.1.0-2	Upon completion of SAT the Contractor must conduct an FQR.
3.3.2	3.3.2 Entrance Criteria
3.3.2.0-1	● SAT completed.
3.3.2.0-2	● QA Certification that VQ program completed.
3.3.2.0-3	● Functional Configuration Audit (FCA) complete.
3.3.2.0-4	● QA Certification that FCA complete.
3.3.2.0-5	● Physical Configuration Audit (PCA) complete.
3.3.2.0-6	● Draft Environmental Health Safety Assessment (EHSA) (CDRL PM-008)
3.3.3	3.3.3 Inputs
3.3.3.0-1	● FQR Meeting Agenda (CDRL PM-005).

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3.3.3.0-2	<ul style="list-style-type: none"> SAT Report (CDRL SE-009).
3.3.3.0-3	<ul style="list-style-type: none"> Revised RTVM.
3.3.3.0-4	<ul style="list-style-type: none"> SAT IAIL entries (CDRL PM-007).
3.3.3.0-5	<ul style="list-style-type: none"> TA Accepted EBS (CDRL CM-005).
3.3.3.0-6	<ul style="list-style-type: none"> P(SAT) Configuration information.
3.3.3.0-7	<ul style="list-style-type: none"> P(SAT) ISS-S configured systems.
3.3.3.0-8	<ul style="list-style-type: none"> SAT Meeting Minutes (if conducted) (CDRL PM-006).
3.3.3.0-9	<ul style="list-style-type: none"> MPS and WBS (CDRL PM-003).
3.3.3.0-10	<ul style="list-style-type: none"> FCA Results (CDRL CM-010).
3.3.3.0-11	<ul style="list-style-type: none"> FCA Issues and IAIL entries (CDRL PM-007).
3.3.3.0-12	<ul style="list-style-type: none"> PCA results (CDRL CM-010).
3.3.3.0-13	<ul style="list-style-type: none"> PCA Issues and IAIL entries (CDRL PM-007).
3.3.4	3.3.4 Activities
3.3.4.0-1	Perform general conduct of Technical Review as per section 2 of this appendix.
3.3.4.0-2	Analyse and review:
3.3.4.0-2.0-1	<ul style="list-style-type: none"> VQ Test Reports (CDRL SE-006);
3.3.4.0-2.0-2	<ul style="list-style-type: none"> The SAT Reports (CDRL SE-009);
3.3.4.0-2.0-3	<ul style="list-style-type: none"> SAT IAIL entries (CDRL PM-007) and resolution;
3.3.4.0-2.0-4	<ul style="list-style-type: none"> TA Accepted EBS (CDRL CM-005);
3.3.4.0-2.0-5	<ul style="list-style-type: none"> FCA and PCA Configuration Audit Reports (CDRL CM-010).
3.3.5	3.3.5 Output
3.3.5.0-1	<ul style="list-style-type: none"> FQR Meeting minutes (CDRL PM-006).
3.3.5.0-2	<ul style="list-style-type: none"> FQR IAIL entries (CDRL PM-007).

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3.3.6	3.3.6 Exit Criteria
3.3.6.0-1	In order to obtain the TA recommendation to the CA for FQR approval or contingent approval, the Contractor must:
3.3.6.0-2	Obtain TA recommendation to CA accepted or conditional acceptance on the following:
3.3.6.0-2.0-1	○ Approved SAT Report (CDRL SE-009);
3.3.6.0-2.0-2	○ SAT IAIL entries (CDRL PM-007);
3.3.6.0-2.0-3	○ FCA and PCA Configuration Audit Report (CDRL CM-010).
3.3.6.0-3	The Contractor must complete tracked FQR IAIL entries to closure.
3.3.7	3.3.7 Outcome
3.3.7.0-1	The P(Prod) Product Baseline (PBL) and Production Information established by CM.
3.4	3.4 Production Readiness Review (PRR)
3.4.1	3.4.1 Purpose
3.4.1.0-1	This review examines the Production configuration information, plans and schedules from the standpoint of producibility of the system.
3.4.2	3.4.2 Entrance Criteria
3.4.2.0-1	● Kick-off meeting for the Production Phase completed.
3.4.2.0-2	● Production Configuration Information.
3.4.2.0-3	● Production Plan (CDRL SE-010)
3.4.2.0-4	● QAP (CDRL PM-002)
3.4.3	3.4.3 Inputs
3.4.3.0-1	● PRR Meeting Agenda. (CDRL PM-005).
3.4.3.0-2	● Production Plan (CDRL SE-010)
3.4.3.0-3	● QAP (CDRL PM-002)
3.4.3.0-4	● Approved Major Cat 1 ECPs (CDRL CM-002).

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3.4.3.0-5	<ul style="list-style-type: none"> • MPS and WBS (CDRL PM-003)
3.4.3.0-6	<ul style="list-style-type: none"> • IAIL (CDRL PM-007)
3.4.4	3.4.4 Activity
3.4.4.0-1	Perform general conduct of Technical Review as per section 2 of this appendix.
3.4.4.0-2	Examine the ISS production:
3.4.4.0-2.0-1	<ul style="list-style-type: none"> ○ planning documentation;
3.4.4.0-2.0-2	<ul style="list-style-type: none"> ○ existing and planned facilities;
3.4.4.0-2.0-3	<ul style="list-style-type: none"> ○ tooling and test equipment;
3.4.4.0-2.0-4	<ul style="list-style-type: none"> ○ manufacturing methods and controls;
3.4.4.0-2.0-5	<ul style="list-style-type: none"> ○ material and manpower resources;
3.4.4.0-2.0-6	<ul style="list-style-type: none"> ○ production engineering;
3.4.4.0-2.0-7	<ul style="list-style-type: none"> ○ quality control and assurance provisions - revision of the QAP (CDRL PM-002) to address Contractor proposed pre-production and production Quality Control Process.
3.4.4.0-2.0-8	<ul style="list-style-type: none"> ○ production management organization.
3.4.4.0-2.0-9	<ul style="list-style-type: none"> ○ controls over major subcontractors.
3.4.4.0-2.0-10	<ul style="list-style-type: none"> ○ completed PRR checklist.
3.4.5	3.4.5 Output
3.4.5.0-1	<ul style="list-style-type: none"> • PRR Minutes. (CDRL PM-006)
3.4.5.0-2	<ul style="list-style-type: none"> • PRR IAIL entries. (CDRL PM-007)
3.4.5.0-3	<ul style="list-style-type: none"> • Accepted Production Plan (CDRL SE-010)
3.4.5.0-4	<ul style="list-style-type: none"> • Revised QAP (CDRL PM-002)
3.4.6	3.4.6 Exit Criteria
3.4.6.0-1	In order to obtain TA PRR recommendation to the CA for approval or contingent approval the Contractor must:

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3.4.6.0-2	<ul style="list-style-type: none"> • Obtain TA recommendation of acceptance or conditional acceptance of the PRR
3.4.6.0-3	<ul style="list-style-type: none"> • Obtain TA Acceptance of:
3.4.6.0-3.0-1	<ul style="list-style-type: none"> <ul style="list-style-type: none"> ○ Production Plan (CDRL SE-010);
3.4.6.0-3.0-2	<ul style="list-style-type: none"> <ul style="list-style-type: none"> ○ QAP (CDRL PM-002).

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APPENDIX 2 TO ANNEX CA TO VOLUME 2

SUPPORT CONCEPT FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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1	1 INTRODUCTION
1.1	1.1 Purpose
1.1.0-1	This document describes the overall Support Concept for the Integrated Soldier System (ISS). The purpose of the Support Concept is to:
1.1.0-1.0-1	Provide the Contractor with a document to be used in the development of the Integrated Logistics Support (ILS) Program; and,
1.1.0-1.0-2	Provide Department of National Defence (DND) stakeholders with a consolidated view of how the ISS will be used and supported through its lifecycle. During the in service life of the ISS, the Support Concept will be used by the Equipment Management Team (EMT) to implement DND support plans.
1.2	1.2 Scope
1.2.0-1	This document is intended to describe the overall concept for fielding and supporting the ISS in service. It provides information regarding mission cycles, projected usage and DND's internal support processes and programs.
1.3	1.3 Deployable Weapons System
1.3.0-1	The ISS is designated as a Deployable Weapons System. A Deployable Weapons System is defined as a platform that is intended to be operated and maintained in a threat environment. A threat environment is defined as a location where there is <u>heightened</u> risk of injury or death to personnel due to enemy action. Therefore the support system is aimed at ensuring <u>maximum</u> operational availability.
1.3.0-2	To ensure maximum operational availability, DND will:
1.3.0-2.0-1	○ <u>maintain</u> an in-house maintenance and support capability;
1.3.0-2.0-2	○ <u>control</u> Supply support activities between Canada and theatre of operations;
1.3.0-2.0-3	○ <u>conduct</u> support activities required for Force Generation (i.e. support to pre-deployment training, operator and maintenance training);
1.3.0-2.0-4	○ <u>retain</u> Technical Authority (TA); (Design Authority will rest with the Prime Contractor);
1.3.0-2.0-5	○ <u>maintain</u> a stock of ready-use spares (operational and maintenance stocks);
1.3.0-2.0-6	○ <u>conduct</u> Operational training;

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1.3.0-2.0-7	○ <u>provide</u> Operational advice; and
1.3.0-2.0-8	○ <u>reserve</u> the right to conduct other activities for cause.
1.4	1.4 Initial Operational Capability (IOC)
1.4.0-1	A significant milestone for ISS is the declaration of Initial Operational Capability (IOC). This state will be achieved when the first Mission Specific TF (MSTF) equipped with ISS has been declared operationally ready for deployment.
1.4.0-2	IOC is the culmination of the fielding and training activities of the ISS and means the TF is ready for operational deployment. To achieve IOC, the designated Task Force (TF) will have completed both Individual and Collective Training, all ILS will have been delivered, and the in-service support system will be fully established in order to ensure the sustainment of the TF.
1.5	1.5 Mission Cycles
1.5.0-1	The following describes the projected mission cycle for ISS. A typical deployment will undergo a Pre-deployment Training Cycle of six (6) months. This would be followed by an operational mission totalling six (6) months of continuous operations i.e. “Battlefield Days (BDs)” while on a MSTF Deployment. This would be followed by a Reconstitution Cycle consisting of three (3) months reconstitution and three (3) months DND storage/limited use.
1.5.0-2	The Pre-deployment Training Cycle is divided into two three (3) month segments based on the level of intensity of the training. In the first Cycle, the level of intensity will be low, with the ISS primarily being used in a classroom and short training exercise settings. Typical system usage will be up to eight (8) operating hours per day, five (5) days per week. In the second Cycle, activity will increase from medium to high intensity training with system usage simulating that of the MSTF Deployment BD operating up to twenty four (24) hours per day, seven (7) days per week. The training exercises of this second segment can be expected to expose the ISS to all the environmental conditions and operating modes of a MSTF deployment.
1.5.0-3	The MSTF Deployment Cycle consists of one hundred and eighty (180) consecutive BDs. During this cycle the ISS will be employed world-wide across the North Atlantic Treaty Organization (NATO) defined climatic zones of C0 to C2, A1 to A3, B1 to B3 and M1 to M3 (as per NATO Standardization Agreement (STANAG) 2895 Edition 1) and operating environments of desert, jungle, mountain, tundra, arctic and high urban density terrain.
1.5.0-4	The Reconstitution cycle consists of two three (3) month segments, where the first segment includes the withdrawal of the ISS back from the MSTF (possibly directly from the Deployment theatre of operations), necessary repairs completed and return to DND Depot storage of the system. The second segment would include upkeep of the ISS and

preparation for reissue.

1.5.0-5

These Mission Cycles are summarized in Table 1 below.

1.5.0-6

Mission Cycle	Operational Intensity	Duration (months)	Usage	Total System Operating Time (hrs)	Relative Life Usage
Pre-deployment Training - Segment 1	Low/Medium	3	6 weeks Low 7 weeks Medium	400	7 %
Pre-deployment Training - Segment 2	Medium/High	3	7 weeks Medium 6 weeks High	1,204	22 %
MSTF Deployment	Medium/High	6	4 weeks Medium 22 weeks High	3,548	66 %
Reconstitution - Segment 1	Not Employed	3	None	0	0 %
Reconstitution - Segment 2	Low	3	13 weeks Low	260	5 %
Total Times		18		5,412	

Table 1 ISS Usage Profile by Mission Cycle

1.5.0-7

The ISS will be expected to perform five (5) of these combined cycles (Pre-deployment Training / MSTF Deployment / Reconstitution) in consecutive order throughout its life. Thus, the expected Service Life of the ISS will be will be 90 months (7.5 years) accumulating an expected 27,060 system operating hours.

1.6

1.6 Overall Support Concept

1.6.0-1

Since ISS is an operationally focused capability, the Concept of Support will aim to ensure maximum operational availability. Maximizing operational availability has guided the establishment of reliability parameters, which will influence the allocation of maintenance tasks, repair parts, and allocation of spares within the MSTF. The designation as a Deployable Weapons Systems will also guide the assignment of support tasks between the Canadian Forces (CF) and the Original Equipment Integrator (OEI)/Original Equipment Manufacturers (OEMs). Once fielded, overall Life Cycle management will be provided by Director General Land Equipment Program Management (DGLPEM)/Director Soldier Systems Program Management (DSSPM) at National Defence Headquarters (NDHQ). The OEI will support DSSPM by providing ongoing Optimized Weapons System Support (OWSS) throughout the life of the system. Support concepts will adhere to the fundamentals and levels of Combat Service Support (CSS) as detailed in the Land Force Sustainment doctrine and the principles of the EMT structure

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	of the Land Equipment Management System (LEMS).
2	2 FIELDING
2.1	2.1 Deployed MSTFs
2.1.0-1	Since ISS is intended to be used primarily by operationally deployable MSTFs, its introduction into service will be somewhat unique.
2.2	2.2 MSTF Based Distribution
2.2.0-1	ISS is intended to be used primarily by MSTF deployed outside Canada on Operations. As such, ISS will be issued to a MSTF only after it has been designated for operations or operational standby. It is not intended to be issued to the institutional Army. There will be a requirement to ‘train up’ to operational status before deployment. This is achieved through the Army Managed Readiness cycle.
2.3	2.3 Army Managed Readiness Cycle
2.3.0-1	The Army follows a formal structured process to ensure that units know they are selected well in advance as stand-by Forces (to be prepared for deployment) or for a known mission (Rotation). The introduction of ISS equipment will be based on the Army Managed Readiness Plan in place at the time of Project Implementation.
2.3.0-2	The Managed Readiness cycle has Army units undergo a three-phase cycle of readiness and employment every three years. The phases are: training, high readiness/operations, and reconstitution/support. It is expected that individual qualification training (initial training up to individual skill level on ISS) and collective training (collective training at the Team and Platoon level within a Company context) will take place during the training phase.
2.3.0-3	The initial fielding of ISS will enable the first designated MSTF to commence its ‘pre-rotation’ training cycle. As it becomes ready to deploy, the second MSTF will be issued ISS, and so on. As the current ‘cycle’ spans a six month period, ISS may take at least a year before becoming fully fielded.
2.4	2.4 MSTF Composition
2.4.0-1	A MSTF will be based on a Land Force Infantry unit, augmented by other Combat Arms, Combat Support and CSS. Total deployed systems will be 628 ISS per MSTF.
2.5	2.5 Centers of Excellence (CoE)
2.5.1	2.5.1 Operators
2.5.1.0-1	Since the major user of the ISS will be the Infantry, the Infantry School at the Combat

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	Training Center (CTC), CF (CF) Base Gagetown, has been designated as the Center of Excellence (CoE) for operational training. They will attend the Contractor delivered Pilot Initial Cadre Training (ICT) for the Operator Instructors and System Management Instructors.
2.5.2	2.5.2 Maintainers
2.5.2.0-1	Since technical support for Systems Management and electronic maintenance for the ISS will be provided by Signals Operators and Land Communications and Information Systems (LCIS) Technicians, the CF School of Communications and Electronics at CF Base (CFSCE) Kingston will be the primary CoE for support. They will attend the Contractor delivered Pilot ICT for the System Management Instructors and Maintenance Instructors.
2.6	2.6 Delivery of ISS
2.6.0-1	The delivery of production ISS will be by Batch Lots to the CF Supply Depot (CFSD). ISS systems, including all necessary support, will be issued from the Depot to the supporting Area/Base once a TF has been designated. The use of Batch Lots is aimed to ensure that all production components for a complete TF have been received by DND prior to a fielding decision. This will ensure the Army Managed Readiness Cycle commences only once all essential elements have been received.
2.7	2.7 Initial Training Batches
2.7.0-1	First deliveries will consist of the: Initial Training Batch (1) - the ISS systems designated for the CoEs at CTC Gagetown and CFSCE Kingston, and Initial Training Batch (2) - a quantity of operational and logistics spare systems. The issue of Training Batch systems to CoEs will be timed with the completion of ICT.
2.8	2.8 MSTF Batches
2.8.0-1	The next deliveries will be by TF Batches. The first MSTF Batch will enable the selection, through the Army Managed Readiness Plan, of the initial designated MSTF. Deliveries from the Depot will be timed with the completion of ICT.
2.9	2.9 Reconstitution
2.9.0-1	Once a MSTF has completed its operational deployment and enters its reconstitution phase, ISS will be withdrawn from the units and personnel involved. At this time, under the OWSS contract, the ISS would undergo serviceability verification, a resulting repair cycle, and be returned to DND storage until needed.
3	3 SUPPLY SUPPORT CONCEPT
3.1	3.1 Overall Concept

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3.1.0-1	As this is an operational system, the overall Supply Concept will be to support the ISS in operations and pre-deployment training through an assured inventory, effective response, and efficient inventory management of primary systems, Line Replaceable Units (LRU), and repair parts. The acquisition phase will acquire the essential contractor delivered data that will be used for the establishment of inventories, allocations, and controls based on the delivered Equipment Breakdown Structure (EBS), approved spares and repair parts, tools and test equipment and associated consumable items. This will be based on the initial data provided by the Contractor, with subsequent Project Activities such as the Logistics Support Analysis (LSA) and Initial Provisioning Conference (IPC).
3.1.0-2	A critical component will be sustainment. The project must ensure that all support required for the Army Managed Readiness Cycle initial training phase and follow-on deployment is in place in a timely manner. All equipment, spares, tools and test equipment must be in place to support fielding and on going in service support.
3.2	3.2 Cataloguing
3.2.0-1	The ISS will be catalogued into the Defence Management System, which will support the EMT and the Contractor's in service support processes. The final EBS, spares, repair parts and unique consumables, along with all necessary data that indicates accountability: grouping of systems/sub-systems, control/authorized access, allocations, Reparability (RPY) codes, safety data, and need to be recorded in the system.
3.3	3.3 IT Systems/Supply Accounting Systems
3.3.0-1	Within the Defense Management System, the CF Supply System (CFSS) controls and manages supply materiel for the DND. The CFSS application includes interfacing with other DND applications, reports, tools, objects, and supporting databases. Each application automates CF business transactions and eliminates manual management of CF supply materiel. The CFSS interfaces with:
3.3.0-1.0-1	○ Defence Resource Management Information System (DRMIS);
3.3.0-1.0-2	○ National Materiel Distribution System (NMDS); and
3.3.0-1.0-3	○ Tactical Asset Configuration Information System (TACIS).
3.4	3.4 CFSS Accountability
3.4.0-1	Within the CFSS, it will be necessary to establish an appropriate level of accountability for each item. This will be based on its initial acquisition cost, assigned RPY level (as determined by the repair analysis) and need for asset tracking (serial number control), and attractiveness. An initial rule is that an item is to be classified as accountable if the item is over \$1000; or is a critical repairable asset; or is considered to be an attractive item. Items that do not meet these requirements should be considered as consumables in

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	DRMIS/CFSS. This level of accountability will be established following completion of the maintenance and logistics supportability analysis phase.
3.5	3.5 Reparability (RPY) Codes
3.5.0-1	RPY codes will be assigned to each NATO Stock Number (NSN) during the cataloguing process. These are assigned based on what level of repair is assigned to each component. Example: RPY B (Third Line Only - Contractor) will likely be assigned to all major components.
3.6	3.6 DRMIS/CFSS Controls
3.6.0-1	All ISS catalogued NSNs will be coded in DRMIS/CFSS so that they can not be issued from the contractor or the depot without authorization from the Life Cycle Material Manager (LCMM) and/or Supply Manager. This is an internal control indicating that all inventory is under NDHQ control.
3.7	3.7 Inventory Tracking
3.7.0-1	ISS Inventories at Third Line (Depot/Contractor) and all CF Units will be tracked in the CFSS.
3.7.0-2	For Configuration Management (CM) of ISS, serial tracking of major components will be required. On operations, it is essential to ensure that the same version of ISS components and software are deployed and visible to the support system. This will be done through TACIS at all levels of maintenance. In the future, TACIS may be incorporated into DRMIS. Due to its operational importance, ISS may need an even higher level of tracking to manage operational stocks. In this case the ISS may be designated in the CFSS as a weapons system and become designated as a “Serial Tracked” system.
3.7.0-3	Bar coding for unique item identification and tracking is required In Accordance With (IAW) STANAG 2290 Edition 2. The addition of bar codes to ISS components will support inventory management and tracking at all levels of the supply chain.
3.8	3.8 Equipment Check Lists (ECL)
3.8.0-1	An ECL is an assemblage of related items of supply, which are brought together to permit them to be issued and accounted for under a single stock code. The ISS ECL will encompass specific primary components and where applicable some specialized components will be listed on the ECL but will be separately demandable.
3.9	3.9 DND Inventory
3.9.0-1	DND is required to hold in Canada an operational reserve of sufficient Weapons System spare parts to sustain at least 30 days of high-intensity operations. Minimum warehouse levels will be established to meet this requirement.

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3.9.0-2	It is expected that an additional 60 days spares will be held in theatre by the National Support Element (NSE). The mix of spare operational systems and Line Replaceable/Repairable units will depend on the operational posture adopted for dispersed operations and the repair policy adopted following the maintenance and logistics supportability analysis phase.
3.10	3.10 Centralized Holdings
3.10.0-1	Until a MSTF is designated for deployment the ISS will be held by either 25 CFSD Montreal and/or at 7 CFSD Edmonton. This will facilitate resupply of MSTF Units during pre-deployment and replenishment of MSTF Operational Stock in theatre. The ISS will only be issued to a MSTF upon direction of NDHQ.
3.11	3.11 Resupply to CF Units
3.11.0-1	During pre-deployment, ISS components which have been deemed Beyond Local Repair (BLR) will be returned to the Supply System for return to the Contactor for repair or disposal. Normal process will be to hold repairable items until an economical shipment level is reached.
3.11.0-2	While deployed, BLR items will be exchanged one for one at the NSE in Theatre from Operational stock holdings. Once minimum stock levels have been established, stocks will be automatically replenished through the CFSS from depot stock.
3.12	3.12 Contractor Accounts
3.12.0-1	An Repairable Material Request (RMA) is an account in the CFSS for the accounting of DND owned equipment that is issued / held by a Contractor, either as stock or for repair. DND will establish an RMA in the CFSS/DRMIS. This will enable the free flow of equipment and inventory tracking of repairable components between DND and the Contractor.
3.13	3.13 Repatriation of ISS
3.13.0-1	Once a MSTF has been withdrawn from operations, it is likely that all ISS will be turned in by TF personnel at an Intermediate Staging Base or Designated Rest Area. Given the high operational tempo, limited number of systems, and shipping time from a theatre, it may be necessary to ship bulk ISS directly to the Contractor to facilitate Repair and Overhaul (R&O) of systems.
4	4 MAINTENANCE SUPPORT CONCEPT
4.1	4.1 Support Principles
4.1.0-1	The concept of support will adhere to the fundamentals and levels of CSS as detailed in the Land Force Sustainment doctrine and IAW the principles of the LEMS. These will be

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	tailored as required to the sub-systems fielded and the approved Concept of Operations (CONOPS). Trained CSS personnel will be responsible to sustain the ISS for replenishment and maintenance during pre-deployment training and deployed operations.
4.1.0-2	The following principles apply to this maintenance concept:
4.1.0-2.0-1	<ul style="list-style-type: none"> Utilize engineering and maintenance design concepts to enable ISS to economically meet operational availability requirements by minimizing and simplifying maintenance without adversely impacting the required equipment reliability or operational capabilities. This will be accomplished by optimising the system availability through design (e.g. onboard diagnostics, redundancy, robust design, graceful degradation etc.);
4.1.0-2.0-2	<ul style="list-style-type: none"> Conduct maintenance activities, both by the operator and the maintainer, without the need for increasing the manpower establishment and minimized training;
4.1.0-2.0-3	<ul style="list-style-type: none"> Minimize the need to deploy additional special tools/support equipment, operational and support personnel and spares (systems, sub-systems (LRUs and repair parts (LoRUs); and
4.1.0-2.0-4	<ul style="list-style-type: none"> All major LRUs within the suites will be clearly identified for function and connectivity.
4.2	4.2 Support Guidelines
4.2.0-1	The maintenance concept is based upon the following elements:
4.2.0-1.0-1	<ul style="list-style-type: none"> While operators will be required to perform preliminary inspections and defined User Maintenance tasks (including authorized LRU removal and replacement), only skilled maintenance personnel will perform authorized repairs (LRU/LoRU);
4.2.0-1.0-2	<ul style="list-style-type: none"> At the MSTF level, First and Second Line maintenance of the ISS Command, Control, Communications, Computers and Intelligence (C4I) equipment and components and the system CM of the ISS will be conducted by the Signals Operations and Maintenance personnel. In addition to maintenance, this activity will include configuring the system, network management and other related System Management functions;
4.2.0-1.0-3	<ul style="list-style-type: none"> In principle, when repairs or reconfigurations are needed, they will be done as far forward in the maintenance chain as practicable;
4.2.0-1.0-4	<ul style="list-style-type: none"> LCIS and ISS Operators and System Managers will perform all assigned ISS Operators, First Line and Second Line maintenance functions. In view of the facts that the ISS is anticipated to have built in diagnostics and enhanced reliability, it is anticipated that no additional manpower resources or special skills will be required by the CF to support the ISS;

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4.2.0-1.0-5	<ul style="list-style-type: none"> ○ Material Technicians are responsible for the Load Carriage equipment;
4.2.0-1.0-6	<ul style="list-style-type: none"> ○ Notwithstanding the references to the traditional use of Three Lines of Maintenance used throughout, the Contractor's recommended preventive and corrective maintenance actions and servicing procedures, based on the Supportability Analysis will be used as the basis for maintenance activities and their assignment to the most appropriate Lines of Maintenance. In effect, the Contractor's Maintenance Plan may not require Second Line maintenance tasks. Note that the Contractor, as the OEI for the ISS System, will need to integrate the manufacturer's component maintenance requirements or plans into the ISS System Maintenance Plan. Once approved, the Contractor will develop the initial sparing plan for the lines of maintenance;
4.2.0-1.0-7	<ul style="list-style-type: none"> ○ The Corrective Maintenance Program is based on an economical Level of Repair Analysis (LORA), which places emphasis on "repair by replacement" and a sound preventive maintenance program. This will enable the completion of authorized repairs as rapidly and economically as possible. Maintenance induced failures should be minimized;
4.2.0-1.0-8	<ul style="list-style-type: none"> ○ Owing to the expected high level of integration of the components (Field Programmable Gated Arrays, Application Specific Integrated Circuits etc) and possible security issues, it is not expected that attempts will be made to change components on boards or within sealed units. Field Maintenance will consist of the removal and replacement of damaged, worn or otherwise unserviceable components (LRU replacement and authorized LoRU repair);
4.2.0-1.0-9	<ul style="list-style-type: none"> ○ For more complex items, such as radios and computer, LRU replacement "in-the-field" is the preferred approach with the equipment being sent directly to the Third Line support (Contractor) for repair; and
4.2.0-1.0-10	<ul style="list-style-type: none"> ○ Where practical, Third Line maintenance tasks and activities will be performed by the Contractor and managed through DSSPM. The Contractor will confirm faults found, particularly in the area of software and related hardware malfunctions (i.e. printed circuit boards) and performing Quality Assurance (QA) functions.
5	5 SUPPORT FOR OPERATIONS
5.1	5.1 Maintenance Types and Lines
5.1.0-1	The following sub-paragraphs identify the Maintenance Unit types as well as sample maintenance activities and the personnel responsible for performing these activities.
5.1.1	5.1.1 First Line Maintenance
5.1.1.0-1	The Operators and the Technicians, employed within the operational units, will perform

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	Operator and First Line maintenance activities respectively.
5.1.1.0-1.0-1	<u>Operator Maintenance</u> , which should take on average 15 minutes/day less power regeneration and includes the following activities:
5.1.1.0-1.0-1.0-1	<ul style="list-style-type: none"> Non technical pre-operational inspection and checks. System Managers will generate mission plans for download by the operator;
5.1.1.0-1.0-1.0-2	<ul style="list-style-type: none"> Scheduled Servicing, power regeneration, cleaning and preventative maintenance operations based on Contractor's instructions to ensure operational readiness of the equipment;
5.1.1.0-1.0-1.0-3	<ul style="list-style-type: none"> Performance of Built in Test (BIT) as required;
5.1.1.0-1.0-1.0-4	<ul style="list-style-type: none"> Remove and replace of LRU, Ancillary Equipment and batteries as authorized;
5.1.1.0-1.0-1.0-5	<ul style="list-style-type: none"> Reporting of system failures and usage information to maintenance personnel;
5.1.1.0-1.0-1.0-6	<ul style="list-style-type: none"> Additional activities as agreed to by the Contractor and DND.
5.1.1.0-1.0-2	<u>Technician Functions</u> - First Line Maintenance activities, as recommended by the Contractor and agreed to by DND, usually taking up to one (1) hour, will be performed by integral First Line Maintenance personnel. For example:
5.1.1.0-1.0-2.0-1	<ul style="list-style-type: none"> Maintaining stocks of spares and repair parts required for operation, servicing and maintenance;
5.1.1.0-1.0-2.0-2	<ul style="list-style-type: none"> Maintenance of power sub-systems (i.e. battery chargers);
5.1.1.0-1.0-2.0-3	<ul style="list-style-type: none"> Maintenance of Electro-optical sub-systems (i.e. Night Vision Goggles; micro-Unmanned Air Vehicles; acquired weapons sensors; and their interfaces);
5.1.1.0-1.0-2.0-4	<ul style="list-style-type: none"> Reconditioning/minor repair of textile components (i.e. vests, pouches);
5.1.1.0-1.0-2.0-5	<ul style="list-style-type: none"> Operation and maintenance of Special Tools and Test Equipment (STTE), such as BIT equipment, as required;
5.1.1.0-1.0-2.0-6	<ul style="list-style-type: none"> Confirming faults found by the operator and, for unidentified failures, finding and isolating faults;
5.1.1.0-1.0-2.0-7	<ul style="list-style-type: none"> Removal, replacement and repair of faulty LRU/LoRU, as authorized. Note: Technicians will require system management training to the level necessary to confirm repairs and network functionality;
5.1.1.0-1.0-2.0-8	<ul style="list-style-type: none"> Calibration of equipment and reprogramming software and firmware;

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5.1.1.0-1.0-2.0-9	○ Performance of limited repairs to LRU/LoRU, as authorized;
5.1.1.0-1.0-2.0-10	○ Reconditioning of spares, as authorized; and
5.1.1.0-1.0-2.0-11	○ Recording of maintenance data and real time use information.
5.1.1.0-1.0-3	Normal maintenance activity will be to back load the faulty equipment or LRU to a 2nd Line maintenance organization. Second Line Maintenance activities, as recommended by the Contractor and agreed to by DND, usually taking up to two (2) hours, will be performed by 2nd Line Maintenance personnel. If within the MSTF capability, all authorized repairs will be conducted as far forward as possible.
5.1.1.0-1.0-4	<u>Electronic fault diagnostics</u> - The fault diagnostics capability of the ISS may be facilitated by the use of BIT Equipment. Preferably, a system failure would indicate the faulty LRU on a display screen. In the event where this method is impractical or unaffordable, the system will be diagnosed to LRU level with the help of Trouble Shooting Aids/Diagrams and the use of common existing in-house test equipment; and
5.1.1.0-1.0-5	<u>Cable Repairs</u> - A high wear item, continuity checks on cables and integrity of connectors will be essential to mission success. Systems repair may involve replacement/repair of connectors; manufacture of new cables in theatre and/or repair of receptacles. Cable design, incorporating strain relief, will minimize the need for cable repair.
5.1.2	5.1.2 Second Line Repair Shop
5.1.2.0-1	The Contractors Maintenance Plan may not require Second line maintenance tasks. Faulty LRUs or LoRUs that are beyond the maintenance scope of the CF maintenance resources will be returned for repair or replacement to the Contractor as authorized.
5.1.2.0-2	At the Second Line Shop, for units without First Line capability, maintenance functions will be limited to the following:
5.1.2.0-2.0-1	○ Finding/isolating faults at LRU / LoRU level;
5.1.2.0-2.0-2	○ Replacement of faulty LRUs / LoRUs;
5.1.2.0-2.0-3	○ Repair faulty LRU / LoRU as authorized and;
5.1.2.0-2.0-4	○ Recording of maintenance information.
5.1.2.0-3	Repairable ISS components will be repaired or returned to the Contractor for assessment and repair under the R&O Contract. Repairs will be conducted by deployed workshops with access to the necessary hardstand, tools and test equipment.
5.1.2.0-3.0-1	○ Calibration of equipment, reprogramming software/firmware;

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5.1.2.0-3.0-2	○ Fault isolation and repair by replacement of assemblies, subassemblies and components;
5.1.2.0-3.0-3	○ Operation and maintenance of STTE;
5.1.2.0-3.0-4	○ Scheduled inspection/preventive maintenance of assemblies, sub-assemblies and components of items held in the CFSS; and
5.1.2.0-3.0-5	○ First and Second Line maintenance instructions will be based on the Contractor's recommended Maintenance Plan and approved by DND.
5.1.2.0-4	Technicians in the supporting maintenance organizations will perform defined First Line (for units without integral maintenance support) and assigned Second Line maintenance tasks, usually taking up to two (2) hours, as recommended by the Contractor and agreed to by DND.
5.1.3	5.1.3 Third Line Maintenance
5.1.3.0-1	It is expected that Contractor support may be sought for all other maintenance requirements. The Contractor may be tasked, on an as required basis, to provide verification of maintenance required and confirmation of services provided.
5.2	5.2 Tools & Test Equipment Distribution
5.2.0-1	Tools and test equipment required to perform First and Second Line maintenance activities are expected to be minimal. Existing in-house tools and test equipment will be used wherever possible. The relevant Contractor will identify all tools and test equipment required in support of the ISS. Required equipment not currently found in DND inventory may, based on a cost benefit analysis, be procured to support in-house maintenance responsibilities.
5.2.0-2	As a result, limited additional tools will be purchased and distributed to the applicable maintenance organizations as required.
5.3	5.3 Maintenance and Storage Facilities
5.3.0-1	<u>Maintenance Facilities</u> . Current DND facilities are considered to be adequate for the repair of the ISS at the maintenance lines identified.
5.3.0-2	<u>Storage Facilities</u> . Some ISS components may be controlled items under the Canadian Controlled Goods Regulations or other like regulations (e.g. International Traffic in Arms Regulations (ITAR)) and/or items identified IAW applicable policies and regulations, such as Hazardous Material (HAZMAT), Dangerous Goods and the Environmental Protection Act (EPA). As such, some items may be identified for controlled storage.
5.3.0-3	<u>Equipment Issue</u> . ISS will be issued to individual soldiers as part of their personal kit.

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	When not on operations, secure storage may be required in similar fashion to weapons. Storage must be done within existing facilities or security containers.
5.3.0-4	<u>Equipment Reconstitution</u> . Whenever possible, all ISS being returned from a theatre of operations will undergo thorough cleaning if mandated by Agriculture Canada. In addition, batteries will be removed and packed separately. All equipment will undergo a visual inspection, and equipment with damage will be noted and tagged or classified for serviceability prior to shipment to Canada or the Contractor.
5.4	5.4 Software Maintenance and Configuration Management
5.4.0-1	The ISS requires the dedicated management of System Release hardware, software and firmware.
5.4.0-2	It is anticipated that the software/firmware will be maintained by the Contractor, with required updates forwarded to NDHQ, through the Project Management Office (PMO) ISS Project (ISSP) ILS Manager (ILSM) or EMT ISS, as applicable. If required, updated data will be distributed electronically to each of the user units. Garrison access to a real-time, web-based application on the DND Wide Area Network (DWAN) is envisioned for the future. Updates to BIT Equipment will be distributed in the same manner.
5.5	5.5 Warranty
5.5.0-1	The PMO ISSP ILSM/TA, in conjunction with the Contractor, will determine the warranty validity for individual items of the ISS and will inform the ISSP of items/systems to be returned to the Contractor for repair under warranty. The ISSP PMO will act as coordinator for the return of all ISS items under warranty to the Contractor.
5.6	5.6 Post Warranty Unserviceable Items
5.6.0-1	Unserviceable ISS or parts thereof will be collected at the CFSD and the PMO ISSP/EMT notified. Depending on the urgency and economical repair quantity, the PMO/EMT will forward the equipment for repair or disposal under an OWSS contract.
5.7	5.7 Demilitarization and Disposal
5.7.0-1	Some components of the ISS may be designated as Controlled Goods under ITAR and the Canadian Controlled Goods Regulation and identified as such in the supply system with a Demilitarization Code (DMC) of "F". Inspection of items is to be performed by a Second Line Maintenance organization and the identified non-serviceable items are to be returned to the Contractor for repair, cannibalization or scrap. For the electronic components, it is planned to have all salvage returned to the Contractor for controlled disposal. Non-hazardous, non repairable components, that are not controlled goods or otherwise restricted for disposal within the theatre, may be disposed of on site. All disposal will be managed by DND/PMO ISSP ILSM or the EMT after transition.

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6	6 TRAINING SUPPORT CONCEPT
6.1	6.1 Overview of the Training Concept
6.1.0-1	The ISS is a Deployable Weapons Systems, issued only to MSTFs once they have been designated for operations or as standby/readiness for operations. It is not issued to the 'Institutional Army'. This fact guides the overall training requirements, which need to focus on meeting the high level of individual and collective combat readiness undertaken as a MSTF readies for combat. This will take place during the pre-deployment cycle established as part of the Army Managed Readiness Cycle once a MSTF has been designated.
6.1.0-2	A secondary objective is to support the introduction and use of the system at the School of Infantry, CTC, and the CFSCE for technical training. It should be noted that ISS will be withdrawn from MSTFs returning to Canada. Those units may not be re-selected for deployment for up to three years. As a result, operator and maintainer skill fade will occur between deployments.
6.2	6.2 Performance Oriented Training
6.2.0-1	ISS training should be performance based and must be developed IAW CF Individual Training and Education System (CFITES). Collective training should use Battle Tasks Standards. Operational performance requirements will be used as the baseline to assess both individual and collective training performance requirements.
6.3	6.3 Training Needs Analysis (TNA)
6.3.0-1	ISS training will be based upon a comprehensive TNA. A TNA is defined as the process necessary to analyse training needs to determine the outcomes of training after training has been prescribed as the solution to the performance deficiency. The TNA for the ISS will be completed by Director of Army Training (DAT) with the assistance and input of PMO ISSP and ISSP Training Development Officer. It will be used by the Project to guide the implementation of initial and follow-on training, including the transition between Project and steady-state operational training requirements.
6.4	6.4 Strategy -Train the Trainer
6.4.0-1	Approach. The "Train the Trainer" approach will be used for ISS training. In general, the Contractor will provide Pilot ICT to selected DND personnel. Pilot ICT is designed primarily to validate training.
6.4.0-2	The Contractor will then conduct ICT to MSTF representatives and conducted in three categories: Operator, System Management and Maintenance training.
6.4.0-3	Responsibility. Follow-up operator, system management and maintenance training will then become the responsibility of DND to conduct on a recurring basis. Sustainment

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	training for:
6.4.0-3.0-1	Operators and system management will be the responsibility of the CTC CoE.; and
6.4.0-3.0-2	Maintenance personnel will be the responsibility of the CFSCE.
6.4.0-4	These CoEs will provide input into all other courses that require knowledge of the operational or technical attributes of the ISS.
6.5	6.5 Individual and Collective Training
6.5.1	6.5.1 General
6.5.1-1	It is expected that ISS will ‘fundamentally affect the way the Canadian Soldier fights’. As a result, DND training needs to address both individual and collective training requirements as detailed in subsequent paragraphs in this section.
6.5.1-2	ICT will be at the individual level. As the ISS progresses and matures over time, collective training requirements will be developed and managed by CTC/CoE, including Tactics, Techniques and Procedures (TTP) development.
6.5.1-3	In addition, DND will need to ensure Lessons Learned are collected and used to influence future training requirements.
6.5.2	6.5.2 Individual Training
6.5.2.0-1	Individual Training comprises the instructional activities for individual members of the CF that provide the skills, knowledge and attitudes required in the performance of assigned duties, or upon which information can be correctly interpreted and sound judgment exercised. These activities result in a qualification being conferred upon the member.
6.5.3	6.5.3 Collective Training
6.5.3.0-1	Collective Training is the training, other than Individual Training and Education (IT&E), designed to prepare teams, units and other elements to perform military tasks IAW defined standards. Collective training includes procedural drill and the practical application of doctrines, plans and procedures to acquire and maintain tactical, operational and strategic capabilities between groups of soldiers. Collective training for ISS will involve the development by DAT/Directorate of Army Doctrine (DAD) of collective training standards to be incorporated into the second Cycle of Pre-Deployment training.
6.5.4	6.5.4 Target Population
6.5.4.0-1	ISS training faces the challenge of addressing training for a dynamic and wide-ranging target population. Variation in the characteristics of ISS trainees may be attributed to:

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6.5.4.0-1.0-1	<ul style="list-style-type: none"> ○ The need to be familiar with multiple configurations of equipment forming the ISS and their use at various levels of command;
6.5.4.0-1.0-2	<ul style="list-style-type: none"> ○ Different occupational and job experience backgrounds; and
6.5.4.0-1.0-3	<ul style="list-style-type: none"> ○ Skills fade due to non-continuous access to and use of similar technology.
6.6	6.6 Operator, System Management and Maintenance Training
6.6.0-1	The target population for the training to be developed will be required for the following classifications:
6.6.0-1.0-1	<ul style="list-style-type: none"> ○ <u>Operators</u> - The ISS will be utilized within a MSTF on deployed operations. Operators will be Combat Arms, and predominately Infantry and Combat Support. Some training on the ISS may be aimed at CSS trades assigned to operate within a MSTF on operations;
6.6.0-1.0-2	<ul style="list-style-type: none"> ○ <u>System Managers</u> - A special category of Operators and/or Maintainers will be tasked to perform the System Management functions related to Communications planning and system configuration; and
6.6.0-1.0-3	<ul style="list-style-type: none"> ○ <u>Maintainers</u> - Training will be focused on Land Communications Information System (LCIS) Technicians. Any training on new technology will be identified either through the Supportability Analysis process or as specified by the PMO ISSP ILSM. Training will be presented to Area technical personnel concurrently with the fielding of ISS equipment. Training will be conducted by CF ICT instructors. CF Technician training packages will be maintained by the CoE at CFSCE, (LCIS).
6.7	6.7 Pilot ICT and ICT Training
6.7.0-1	Designated CF Operational personnel must be capable of performing all tasks, for their respective Military Occupation Structure Identification (MOSID), to the assigned training standard.
6.7.0-2	<u>Pilot ICT Training.</u> DND personnel selected from the appropriate CoE as ISS CF Instructors, will attend the Contractor delivered Pilot ICT Operator Instructors Course, Pilot ICT Maintainer Instructors Course and Pilot ICT System Management Instructors Course.
6.7.0-3	<u>ICT Training.</u> The ISS CF Instructors will in turn train Subject Matter Experts (SMEs) capable of validating the ICT training materiel. The validation will take place following the Pilot ICT Instructors Course and lead to the approval of the final version of the ICT courseware.
6.7.0-4	<u>Pilot ICT Serials.</u> Pilot ICT is designed to validate initial training and will include training by the contractor to CF personnel who will be selected based on their SME background

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	and MOSID.
6.7.0-5	<u>ICT Serials</u> . ICT is designed to train a small group of soldiers who will then train the MSTF. To ensure that there is sufficient trained personnel at the Platoon and Company levels only a small complement of soldiers are required to be trained by the contractor.
6.8	6.8 Regenerative (Refresher) Training
6.8.0-1	There may be a requirement to obtain additional ICT courses from the Contractor. These would be required if the CoE training staff is not available to train the next rotation MSTF. In this case courses will be conducted at the CF Training Facility which may be a major Base or Area Training Center. In order to ensure the ICT training package is kept current, the Project may provide training updates to the Contractor on an as required basis. The requirement for additional courses will be articulated through the acquisition and in-service support contract(s) mechanisms in place.
6.9	6.9 Performance Standards
6.9.1	6.9.1 Performance Standards Overview
6.9.1.0-1	In order to meet both individual and operational capabilities, ISS training is to be based upon Performance Objectives (POs) and clearly defined standards. The design and development of the training is expected to be objective, measurable, and realistic with respect to the operational environment. The following sub-sections concern the training performance standards for ISS training.
6.10	6.10 Knowledge and Skill Acquisition
6.10.0-1	This sub-section outlines the knowledge and acquisition standards for the ISS. An eighty percent (80%) acquisition rate is required for ISS:
6.10.0-1.0-1	<ul style="list-style-type: none"> Operator trainers should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days;
6.10.0-1.0-2	<ul style="list-style-type: none"> Operators should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days;
6.10.0-1.0-3	<ul style="list-style-type: none"> Technician trainers should be able to acquire the required knowledge and skill levels within the time span of not more than ten (10) normal training days;
6.10.0-1.0-4	<ul style="list-style-type: none"> First Line maintainers should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days;
6.10.0-1.0-5	<ul style="list-style-type: none"> Second Line maintainers should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days;

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6.10.0-1.0-6	<ul style="list-style-type: none"> ○ System Manager trainers should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days; and
6.10.0-1.0-7	<ul style="list-style-type: none"> ○ System Managers should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days.
6.11	6.11 Time for Knowledge and Skills Retention
6.11.0-1	All ISS operators, maintainers, and system managers who achieve the initial knowledge acquisition and skills levels should be able to maintain those levels without significant degradation, throughout a normal managed readiness schedule (approximately 18 months). The retention of training manuals, student guides or computer based training aids will greatly enhance retention of skills.
6.12	6.12 Management of Training
6.12.1	6.12.1 Scheduling
6.12.1.0-1	One of the key factors in the successful introduction of a system is the proper and timely training of operators, system managers and maintainers. This premise holds true at both the individual and collective level. Training will therefore be targeted at personnel shortly after joining the MSTF and during the individual training phase of the MSTF training program. The Contractor's Training Program plan will outline the scheduling of training.
6.12.1.0-2	IAW the Army Managed Readiness System, a MSTF starts to assemble its resources, required to conduct training, nine months before deployment. Therefore, it will be incumbent of the ISSP PMO ILSM to ensure the equipment and training means are planned to be available at the early stage of the MSTF mounting. Trainers will need to be identified early in this process to ensure their availability at the earliest stage of individual training as tasked by the MSTF.
6.12.2	6.12.2 Qualification
6.12.2.0-1	A unique CF qualification number, to record that a soldier has received training IAW with training standards and training plans, shall be assigned to an individual upon successful completion of ISS training. This would add credibility to training as it would mark training as being objective; quantifiable; traceable; and to formally record the use of CF resources for Human Resources (HR) and material resource management. Furthermore, this will provide the MSTF Commander with evidence and proof that soldiers are properly trained.
6.12.3	6.12.3 Certification
6.12.3.0-1	Upon completion of ISS training, certification shall be granted in order to identify when the training was received and for what period of time the training is valid in order to justify performance competency. ISS training is valid for 18 months after training has

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	been administered as per MSTF pre-deployment checklist.
6.12.4	6.12.4 Militia/Reserves Training
6.12.4.0-1	There will be no special training for Militia/Reserve personnel. Reserve personnel called out on operations, will receive training on ISS during pre-rotation certification training for the MSTF.
6.12.5	6.12.5 Feedback
6.12.5.0-1	Feedback will be collected at all stages of the analysis, design, development, conduct, evaluation, and validation of training by PMO ISSP. Suggestions from CoE personnel, operators, mentors, and supervisors are encouraged. Post Mission reports will be analysed for Lessons Learned and feedback provided to the appropriate authorities to improve TTPs and training delivery. Suggested areas for improvement to training should be forwarded to the ISSP Training Development Officer for consolidation and consideration for further action if required.
7	7 Optimized Weapon System Support (OWSS)
7.1	7.1 General
7.1.0-1	The ISS will be supported during its in service life through an OWSS program. The need for the OWSS program results from recognition that DND has to provide effective and efficient life cycle support for new weapons systems in partnership with industry, particularly in view of limited availability of funding and HR.
7.1.0-2	A vital key to achieving an optimized in service support system is to determine, during the definition phase of a new project, the most effective and efficient manner to support the weapon system throughout its Life Cycle, with the caveat that operational support must not be compromised. From this determination, support activities which would be best completed by the Contractor are identified and included in the support system requirements for the ISS.
7.1.0-3	Accordingly, DND will be looking to acquire a number of support services to provide elements of long term support which will not be carried out in-house. Since DND is not planning to procure the complete Technical Data Package or any maintenance information beyond assigned Second Line tasks, these Support Services will be required for the life of the system.
7.1.0-4	It is expected that the Contractor may be asked to augment DND in house capabilities in the following areas:
7.1.0-4.0-1	○ Core Services -
7.1.0-4.0-1.0-1	● DND access to ISS Technical Data Package via an Electronic Information

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	Environment (EIE);
7.1.0-4.0-1.0-2	<ul style="list-style-type: none"> • Supply Support;
7.1.0-4.0-1.0-3	<ul style="list-style-type: none"> • Re-provisioning;
7.1.0-4.0-1.0-4	<ul style="list-style-type: none"> • Obsolescence Management;
7.1.0-4.0-1.0-5	<ul style="list-style-type: none"> • R&O; and
7.1.0-4.0-1.0-6	<ul style="list-style-type: none"> • CM.
7.1.0-4.0-2	<ul style="list-style-type: none"> ○ Task Based Services -
7.1.0-4.0-2.0-1	<ul style="list-style-type: none"> • System Engineering Support, Technical Investigation and Engineering Support (TIES);
7.1.0-4.0-2.0-2	<ul style="list-style-type: none"> • ILS; and
7.1.0-4.0-2.0-3	<ul style="list-style-type: none"> • Field Service Representatives.
7.2	7.2 OWSS Management
7.2.0-1	<p>During the Acquisition Phase, OWSS will be managed by the PMO ISSP ILSM as part of the ILS component of the Contract Management program. During the In-service Phase, OWSS will be managed by the ILSM as the only remaining ILS component of the Contract Management program until transfer to a DND EMT. A similar transition of responsibilities within the Contractor's organization is expected and will have to be managed accordingly.</p>

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APPENDIX 3 TO ANNEX CA TO VOLUME 2

GOVERNMENT FURNISHED EQUIPMENT FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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1 Table 1 Modular Load Carriage System Components

ITEM	NSN	DESCRIPTION	QTY	REMARKS
1	8465-20-xxx-xxxx	Chest Rig Front - Medium (Sealed Sample)	1	DSSPM 464-10
2	8465-20-xxx-xxxx	Chest Rig Back (Sealed Sample)	1	DSSPM 466-10
3	8465-20-005-5399	PRC 152 Light Assault Radio Pouch (for LCSS)	1	
4	8465-66-155-9075	90 Round Velcro Magazine Pouch	3	
5	8465-66-155-9105	Smoke/Night Vision Device Pouch	1	
6	8465-66-155-9125	40 x 2 Horizontal Pouch	2	
7	8465-66-155-9151	Utility Hydration Cover Pouch	1	
8	8465-66-158-4333	40 x 1 Pouch	2	
9	8465-66-158-4334	40 x 4 Vertical Pouch	1	
10	8465-66-158-4336	40 x 4 Horizontal Pouch	1	
11	8465-66-158-4337	Combat First Aide Medic Pouch	1	
12	8465-66-158-4344	DAGR Pouch - (5.56 60 Rd Mag Pouch)	1	
13	8465-66-158-4345	200 Round Ammunition Pouch	2	
14	8465-66-158-4356	Fragmentation Grenade x 1 Pouch	2	
15	8465-66-158-4388	Multi Tool Pouch	1	
16	8465-66-158-4411	PALS Combat Belt Medium	1	
17	8465-66-158-4547	Utility Large (FASTEX) Pouch	2	

2 Table 2 Communications Equipment

ITEM	NSN	DESCRIPTION	QTY	REMARKS
1	5820-01-554-7062	PRC/152 Radio	2	
2	5985-01-551-9607	PRC/152 Antenna	2	
3	5965-01-541-5801	PRC/152 Headset - Microphone	2	

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ITEM	NSN	DESCRIPTION	QTY	REMARKS
4	6130-01-548-7481	PRC-152 Battery Charger	1	
5	6140-01-548-7566	PRC/152 Battery, Storage, Rechargeable	2	
6	5820-01-507-3973	PRC/148 Radio	2	
7	5985-01-487-1134	PRC/148 Antenna	2	
8	5965-01-506-7576	PRC/148 Headset - Microphone	2	
9	6130-01-512-0183	PRC/148 Battery Charger	1	
10	6140-01-487-1153	PRC/148 Battery, Storage, Rechargeable	2	
11	5820-20-003-9649	PRC-117 Radio	2	
12	5985-01-424-6403	PRC-117 Antenna	2	
13	5965-00-069-8886	PRC-117 Handset	2	
14	6130-01-179-6624	PRC-117 Battery Charger	1	
15	6140-01-490-4317	PRC-117 Battery, Storage, Rechargeable	2	
16	8465-20-000-2774	PRC-117 Field Pack	2	

3 Table 3 Miscellaneous Equipment

ITEM	NSN	DESCRIPTION	QTY	REMARKS
1	5825-01-526-4783	DAGR-NAVIGATION SET,SATELLITE SIGNALS	1	
2	5855-20-004-6740	CORAL-CR-C, Sight, Thermal	1	
3	8145-20-004-6881	CORAL-CR-C, Shipping and Storage Container	1	
4	8465-20-004-6743	CORAL-CR-C, Field Pack	1	
5	6140-15-180-5984	CORAL-CR-C, Battery, Storage, Rechargeable	1	
6	6130-20-004-6756	CORAL-CR-C, Battery Charger	1	

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APPENDIX 4 TO ANNEX CA TO VOLUME 2

PERSONNEL REQUIREMENTS FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

THE PERSONNEL REQUIREMENTS APPENDIX IS HEREBY INCORPORATED IN THIS ANNEX CA BY REFERENCE AND HAS THE SAME FORCE AND EFFECT AS IF IT WERE ATTACHED HERETO.

THE COMPLETE DOCUMENT IS ATTACHED IN ITS ENTIRETY AS APPENDIX 2 TO ANNEX CA TO THE OPTIMISED WEAPON SYSTEM SUPPORT CONTRACT.

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ANNEX CB TO VOLUME 2

ISS PERFORMANCE SPECIFICATIONS

FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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1. SCOPE

This Performance Specification establishes the technical requirements that the Contractor's Integrated Soldier System (ISS) solution must meet and prove in order to comply with the ISSP Acquisition contract.

2. STRUCTURE OF THE ANNEX CB, PERFORMANCE SPECIFICATION

The Annex CB, Performance Specification is structured as described below.

2.1 Annex CB Main body

The main body of Annex CB provides the scope of the Performance Specification and its structure.

2.2 Appendix 1 - Technical Performance Specification (TPS)

The TPS establishes the functionality, performance, verification and acceptance requirements for the Integrated Soldier System-Suite (ISS-S), the System Executive Planning-Suite (SEP-Suite) and their enabling systems.

2.3 Appendix 2 - User Acceptance Performance Specification (UAPS)

The UAPS establishes the quality in-use requirements and Human Factors requirements for the ISS-S.

2.4 Appendix 3 - Mission Profiles and Operational Mode Summary

This Appendix provides information about the expected operational use of the ISS-S.

The ISS-S Mission Profiles are a time-phased descriptions of the operational events and environments that the ISS-S will be subjected to from the start to the end of specific missions. Activities, durations, operating conditions, and environmental conditions are identified for each mission.

The Operational Mode Summary provides a compilation of the missions, operating conditions and environments the ISS-S population will expect to see over its useful life cycle. It is described from the perspective of Mission Cycles / Life Expectancy, Environmental Profiles, Climatic Conditions and Mobility Modes and components usage.

2.5 Appendix 4 - Failure Definition and Scoring Criteria

This Appendix gives instructions to the Contractor on how to define the degraded and unacceptable performance that constitutes a failure in the ISS-S, or any of its sub-systems, and

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enables the categorization of these failures for the determination of the required Reliability and Maintainability (R&M) quantitative parameters.

2.6 Appendix 5 - Audio Display Test Procedures Requirements

This Appendix gives instructions to the Contractor on how Speech Intelligibility, Sound Localisation and Sound Identification are to be tested to verify that the ISS-S complies with the ISS-S Audio Display relevant TPS requirements.

2.7 Appendix 6 - System Acceptance Test Scenario Instructions

This Appendix describes the scope and approach that will be required for the ISS System Acceptance Test (SAT), and provides direction to the Contractor on how to implement the SAT in accordance with the ISS Performance specification.

2.8 Appendix 7 - MLCS Platform TDP

This Appendix defines the materials, design and construction requirements for the Modular Load Carriage System, comprising of a chest rig and a back yoke.

2.9 Appendix 8 - ISS Generic Pouches TDP

This Appendix defines the materials and construction requirements to manufacture a Pouch Attachment Ladder System (PALS) compatible pouch for ISSP electronic devices.

2.10 Appendix 9 - MLCS Conceptual Load

This Appendix describes the load carriage of close combat soldiers and establishes space claims on the MLCS for both ISS-S components and soldiers' combat equipment and consumables.

2.11 Appendix 10 - Miscellaneous Test Data and test Procedure Requirements

This Appendix provides the Contractor with test data and test procedures to be used to verify certain requirements.

2.12 Appendix 11 - Power Consumption Test Procedure Requirements

This Appendix gives instructions on how the ISS-S power consumption requirements are expected to be tested and subsequently analysed to prove that the ISS-S complies with the relevant TPS power requirements.

2.13 Appendix 12 – MLCS Verification and Quality Control Requirements

This Appendix describes to the Contractor the verification and Quality Control Requirements of the MLCS.

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APPENDIX 1 TO ANNEX CB TO VOLUME 2

TECHNICAL PERFORMANCE SPECIFICATIONS (TPS) FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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Para	TPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
1	TPS-1	Introduction			
1.1	TPS-5	Scope			
1.1.0-1	TPS-5043	This Performance Specification (PS) establishes the functionality, performance, verification and acceptance requirements for the Canadian Forces (CF) Integrated Soldier System Suite (ISS-S) and the Canadian Forces (CF) System Executive Planning Suite (SEP-Suite).			
1.2	TPS-7	System Overview			
1.2.1	TPS-5070	ISS-S			
1.2.1.0-1	TPS-5363	The ISS-S is the soldier-worn suite being purchased by Canada.			
1.2.1.0-2	TPS-5071	The following capabilities are to be part of the ISS-S: <ul style="list-style-type: none"> • Communications Suite (Radio and Antenna); • Audio Display; • Wired Push-to-Talk (PTT) Switch; • Bearing Indicator and GPS; • SAASM GPS capability; • Battle Management Software and Computer; • External Data Storage Device; • Tactical User Interface; • System Management Software; • Security Features; • Power and Cabling; and • Modular Load Carriage System. 			
1.2.1.0-3	TPS-5362	Enhanced capabilities are requested to be part of the ISS-S: <ul style="list-style-type: none"> • Growth Potential Enablers; • Wireless Push-To-Talk (PTT) Switch; • Digital Imaging Capabilities; and • Various Capability and Performance 			

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Para	TPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
		Enhancements.			
1.2.2	TPS-5074	SEP-Suite			
1.2.2.0-1	TPS-5075	The SEP-Suite is an item purchased by Canada that is not part of the ISS-S but is required for the ISS-S to operate.			
1.2.2.0-2	TPS-5364	The SEP-Suite includes the following capabilities: • System Management Software; and • Security Features.			
1.2.3	TPS-5495	ISS BMS SW running on a CF Laptop			
1.2.3.0-1	TPS-5496	The Integrated Soldier System Battle Management Software on Canadian Forces Laptop is a subset of the ISS-ES software, running on a CF laptop, used by commanders to perform static non-tactical tasks, like mission planning for example.			
1.2.4	TPS-5498	Battery Charger Set			
1.2.4.0-1	TPS-5499	The Battery Charger Set includes all the charging equipment required to recharge an ISS Rechargeable Battery Set.			
1.2.5	TPS-5076	Fitted For			
1.2.5.0-1	TPS-5077	Fitted For refers to Government Furnished Equipment (GFE). This equipment is supplied to the Contractor by Canada and is to interoperate with the ISS-S to enhance the system's capability. Fitted For equipment includes: • LCSS Radios; and • CORAL-CR-C HHTI			
1.2.5.0-2	TPS-5365	Depending on how the Contractor provides the SAASM GPS capability, the ISS-S could interoperate with the in-service DAGR.			
1.3	TPS-5398	Concept of Employment			
1.3.0-1	TPS-5399	The separate elements of the ISS that are specified in this specification are to be used by the CF as follows: • The SEP-Suite is a software package running on			

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		laptop which is to be used to plan the configuration of the ISS-S and to configure the ISS-S. • The ISS-S is the system worn and used to assist the dismounted infantry soldiers (i.e. the ISS-S Users) to accomplish their tasks. • The ISS Charging Capability is to be used to charge the ISS-S Rechargeable Batteries. • The ISS BMS SW On CF Laptop is a software package to be used by commanders to perform planning functions before the start a mission.			
2	TPS-3	Requirements			
2.1	TPS-73	System Level Requirements			
2.1.1	TPS-2369	General			
2.1.1.1	TPS-4784	Languages			
2.1.1.1.0-1	TPS-4785	The software interface to use the ISS-S BMS Software and ISS-S Configuration Application Software must fully support both official languages, French and English.	Demo	The Contractor must demonstrate that the software interface to use the ISS-S BMS Software and ISS-S Configuration Application Software fully supports both official languages, French and English.	No
2.1.1.1.0-2	TPS-5390	The software interface to use the ISS-S low-level tools, including but not limited to debugging, troubleshooting and BIT tools, must be in the English language.	Demo	The Contractor must demonstrate that the software interface to use the ISS-S low-level software tools, including debugging, troubleshooting and BIT software, is provided in English.	No
2.1.1.1.0-3	TPS-4977	The software interface to use the SEP-Suite must be in the English language.	Demo	The Contractor must demonstrate that the software interface to use the SEP-Suite software is provided in English.	No
2.1.1.2	TPS-4786	General Characteristics			
2.1.1.2.0-1	TPS-4787	The ISS-S audible noise emissions while being operated must meet MIL-STD-1474D, Requirement 2 Aural Nondetectability, Level II 100 metre nondetectability.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. The test must be based on MIL-STD-1474D, Requirement 2, Level II. The nondetectability distance must be 100 metres for all frequencies specified	No

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				in MIL-STD-1474D. For the measurement at each frequency, the Contractor must execute the following tasks: <ul style="list-style-type: none"> • Operate the ISS-S hardware controls, including but not limited to the Wired PTT, the Tactical UI touch-screen and all Tactical UI controls; • Perform an ISS Battery change; • Turn-off and turn-on all ISS-S physical devices; and • Load data on the ISS-S using the External Data Storage Device 	
2.1.1.2.0-2	TPS-2524	The ISS-S must have a way to prevent the devices that are part of the ISS-S from emitting visible light while allowing the User to perform voice communications using the ISS-CS and while the ISS-S still generates and transmits Blue PA information to the Blue PA COL.	Demo	The Contractor must demonstrate that the ISS-S can be configured to not emit any light. While not emitting any light, the Contractor must demonstrate that voice communications and Blue PA generation and transmission still function normally.	No
2.1.1.2.0-3	TPS-5123	All sound excluding mechanical noise generated by the ISS-S (excluding BMS Software running on the in-service CF-31 laptop) must be exclusively presented to the user via the ISS-S Audio Display.	Contractor's Choice	The Contractor must prove that all ISS-S generated sounds are presented exclusively to the ISS-S Audio Display.	No
2.1.1.2.0-4	TPS-5117	For every sound generated by the ISS-S, the ISS-S must provide the following capabilities: <ul style="list-style-type: none"> • a volume control to adjust audio output levels; • a volume control to turn off audio signals; and • a visual indication on the Tactical User Interface indicating that audio signals are turned off. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.1.1.2.0-5	TPS-2884	The exterior surfaces of all ISS-S electronic components and cables must be of one or more of the following colours or colour patterns: <ul style="list-style-type: none"> • Non-reflective flat green finish; • Non-reflective flat black finish; • Non-reflective flat brown finish; 	Inspection	The Contractor must show all ISS-S electronic components and cables to Canada. Canada will inspect the ISS-S electronic components and cables to confirm compliance with the requirement. The Contractor must show that the	No

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Para	TPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
		<ul style="list-style-type: none"> • Non-reflective flat gray finish; or • Canadian Disruptive Pattern - Temperate Woodland (CADPAT TM TW). 		colours selected are non-reflective and flat.	
2.1.1.2.0-6	TPS-5106	The ISS-S must be fitted to the soldier without needing to be secured to any head borne equipment and without affecting the correct securing of the helmet.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.1.1.2.0-7	TPS-5338	The ISS-S must not include storage devices that make use of moving parts to store and retrieve data, including but not limited to magnetic disks and optical drives.	Contractor's Choice	The Contractor must prove that the ISS-S does not contain any storage devices that make use of moving parts to store and retrieve data.	No
2.1.1.2.0-8	TPS-5460	If any hardware is provided as part of the SEP-Suite, the hardware that is included as part of the SEP-Suite must meet all the mandatory requirements in the Environmental section TPS-78.	Test	The Contractor must prove via tests that the hardware that is provided as part of the SEP-Suite meets all the Environmental requirements from section TPS-78.	No
2.1.1.3	TPS-2914	Nameplates and Product Marking			
2.1.1.3.0-1	TPS-4983	The ISS-S physical devices and cables must include nameplates and product markings as defined in D-02-002-001/SG-001.	Inspection	The Contractor must show all ISS-S physical devices, components and cables to Canada. Canada will inspect the ISS-S physical devices, components and cables to confirm compliance with the requirement.	No
2.1.1.3.0-2	TPS-4984	If any hardware is provided as part of the SEP-Suite, the hardware that is included as part of the SEP-Suite must include nameplates and product markings as defined in D-02-002-001/SG-001.	Inspection	The Contractor must show all SEP-Suite hardware to Canada. Canada will inspect the SEP-Suite hardware to confirm compliance with the requirement.	No
2.1.1.4	TPS-3917	Weight			
2.1.1.4.0-1	TPS-3919	The ISS-S, including batteries to support a 24 hour mission as per Section 3.1 Battlefield Day (BD) Profile of Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary, should be as light as possible.	Test	The Contractor must perform a power consumption test and provide a power consumption test report and a results analysis as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements. The power	No

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Para	TPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
				<p>consumption test report and analysis must provide the number of ISS Rechargeable Battery recharges and the number of ISS Non-Rechargeable Batteries required to complete a twenty-four (24) hour mission as per Section 3.1 Battlefield Day (BD) Profile of Volume 2, Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary.</p> <p>The weight test must be performed twice, once to measure the weight of the ISS-S with the ISS Rechargeable Batteries required to complete a twenty-four (24) hour mission, and once to measure the weight of the ISS-S with the ISS Non-Rechargeable Batteries required to complete a twenty-four (24) hour mission. The number of ISS Batteries included in each test must be as per the above power consumption test report and analysis. The average of the two weights must be the same or less than the average P(Bid) measured weight.</p> <p>In addition to the ISS Batteries, the measurements must include the ISS-ES, MLCS Platform, the MLCS ISS Pouches, all wired connectivity excluding cables to GFE, and any other equipment required to operate the ISS-S.</p>	
2.1.1.5	TPS-5332	Human Systems Integration			
2.1.1.5.0-1	TPS-3098	The following ISS-S control device(s) should be operable with one hand:	Demo	If the ISS-S configuration has not changed from P(Bid), no other	No

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Para	TPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
		<ul style="list-style-type: none"> • Voice exchange using the Wired PTT; • Zoom-in and zoom-out of a map; • Generate and transmit a quick symbol; • Local zeroize; and • Adjust Tactical User Interface Display luminance. 		<p>demonstration is required.</p> <p>Otherwise:</p> <p>The Contractor demonstrate that each of the below functions are useable with one hand while holding a weapon in the other hand:</p> <ul style="list-style-type: none"> • Voice exchange using the Wired PTT; • Zoom-in and zoom-out of a map; • Generate and transmit a quick symbol; • Local zeroize; • Adjust Tactical User Interface Display luminance. 	
2.1.1.5.0-2	TPS-3239	The feedback provided by the ISS-S software should comply with the design criteria standards as prescribed in MIL-STD-1472F, section 5.14.5.2 Standby.	Demo	The Contractor must demonstrate that feedback is provided to the User when the Tactical User Interface is not able to be interacted with when the ISS-S is working or busy. The demonstration must show the criteria (time or other) used to generate the feedback that was claimed in the bid proposal.	No
2.1.1.5.0-3	TPS-3240	The feedback provided by the ISS-S software should comply with the design criteria standards as prescribed in MIL-STD-1472F, section 5.14.5.3 Process outcome.	Demo	The Contractor must demonstrate that the ISS-S indicates to the User that a control process sequence has been completed and that the ISS-S indicates to the User that a control process has been aborted. The demonstration must include the feedback provided when a control process is aborted by the User and when a process control process is aborted automatically by the ISS-S.	No
2.1.1.5.0-4	TPS-3261	The error management/data protection provided by the ISS-S software should comply with the design criteria standards as prescribed in MIL-	Demo	The Contractor must demonstrate how the ISS-S allows the User to make corrections to data entered without	No

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Para	TPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
		STD-1472F, section 5.14.8.1 Error correction.		having to re-enter the complete information.	
2.1.1.6	TPS-5471	Quick Reference Guide			
2.1.1.6.0-1	TPS-5472	The ISS-S must have a function which allows the User to electronically view the Quick Reference Guide (QRG) contents on the Tactical User Interface display.	Demo	The Contractor must demonstrate that the ISS-S can display an electronic version of the QRG on the Tactical User Interface display and that the content of the electronic version of the QRG is the same as the content of the paper version of the QRG.	No
2.1.1.6.0-2	TPS-5473	The BMS Software running on an in-service CF-31 laptop must have a function which allows the User to electronically view the Quick Reference Guide (QRG) contents on the in-service CF-31 laptop display.	Demo	The Contractor must demonstrate that the BMS Software running on an in-service CF-31 laptop can display an electronic version of the QRG on the in-service CF-31 laptop display and that the content of the electronic version of the QRG is the same as the content of the paper version of the QRG.	No
2.1.1.6.0-3	TPS-5474	The SEP-Suite running on an in-service CF-31 laptop must have a function which allows the User to electronically view the Quick Reference Guide (QRG) contents on the in-service CF-31 laptop display.	Demo	The Contractor must demonstrate that the SEP-Suite running on an in-service CF-31 laptop can display an electronic version of the QRG on the in-service CF-31 laptop display and that the contents of the electronic version of the QRG is the same as the contents of the paper version of the QRG.	No
2.1.2	TPS-4045	Environment, Health & Safety (EHS)			
2.1.2.0-1	TPS-4048	The ISS-S, excluding the ISS Batteries and the ISS-ES Internal Batteries, must not present any environmental, health or system safety hazards of a Catastrophic or Critical mishap severity, as defined in Volume 2, Annex CE RAG.	Analysis	The analysis provided by the Contractor must clearly demonstrate to Canada that the ISS-S does not present any environmental, health or system safety hazards of a Catastrophic or Critical mishap severity. Catastrophic mishap and Critical mishap	No

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Para	TPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
				are defined in the Glossary.	
2.1.2.0-2	TPS-4050	This ISS-S, excluding the ISS Batteries and the ISS-ES Internal Batteries, must not present a Catastrophic or Critical hazard to the operator and surrounding environment even when so damaged that it allows the ingress of water or egress of internal substances.	Analysis	The analysis provided by the Contractor must clearly demonstrate to Canada that the ISS-S does not present any environmental, health or system safety hazards of a Catastrophic or Critical mishap severity when so damaged that it allows the ingress of water or egress of internal substances. Catastrophic mishap and Critical mishap are defined in the Glossary.	No
2.1.2.0-3	TPS-4054	The ISS Rechargeable Batteries and the ISS-ES Internal Batteries if provided, must comply with the Cell Safety (para 3.5.3) and Battery Safety (para 3.16) requirements of MIL-PRF-32052(CR).	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-PRF-32052(CR) para 4.4.2.3 and 3.16, or equivalent. On completion of test, cells must meet the requirements of MIL-PRF-32052(CR) para 3.5.3 and batteries must meet the requirements of MIL-PRF-32052(CR) para 3.16.	No
2.1.2.0-4	TPS-4051	The maximum allowable ISS-S surface contact temperatures must be in accordance with MIL-STD-1472F section 5.13.4.6 Thermal contact hazards for prolonged contact.	Contractor's Choice	The Contractor must prove that the ISS-S meets the requirement.	No
2.1.2.0-5	TPS-4052	The ISS-S must meet the UL94 V-0 fire retardant rating, or equivalent, for all plastic components and parts, except for cables and wires.	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW UL94 V-0 fire retardant rating.	No
2.1.2.0-6	TPS-5505	The ISS-S cables and wires must meet the 60° flammability test of SAE AS81044A (MIL-W-81044B), or equivalent, with the following requirements: - 30 sec (max) after-flame; - 3.0 inches (max) flame travel; - No flaming of tissue paper.	Test	The Contractor must prove by testing that the ISS-S cables and wires meet the requirement. Test IAW SAE AS81044A flammability test.	No

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Para	TPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
2.1.2.0-7	TPS-4055	The ISS-S must not discharge the CORAL-CR-C's laser range finder due to any fault or failure.	Analysis	The analysis provided by the Contractor must clearly demonstrate to Canada that the ISS-S will not cause a laser discharge of the CORAL-CR-C due to a fault or failure.	No
2.1.2.0-8	TPS-4057	The ISS-S must not contain any Polychlorinated Biphenyls (PCBs), halocarbons or asbestos.	Analysis	As part of submission with EHSIR, the Contractor must prove that the ISS-S does not contain any Polychlorinated Biphenyls (PCBs), halocarbons or asbestos.	No
2.1.3	TPS-78	Environmental			
2.1.3.1	TPS-291	Climatic / Natural Environments			
2.1.3.1.1	TPS-313	Operation - High Temperature			
2.1.3.1.1.0-1	TPS-317	The ISS-S must operate within normal performance limits at temperatures up to 49°C tested according to MIL-STD-810G, Method 501.5, Procedure II (using cycling as for the A1 Climatic category) or MIL-STD-810F, Method 501.4, Procedure II (using cycling as for the A1 Climatic category).	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 501.5, Procedure II (using cycling as for the A1 Climatic category, Table 501.5-III) or MIL-STD-810F, Method 501.4, Procedure II (using cycling as for the A1 Climatic category, Table 501.4-II). Operation at high temperature following diurnal cycles of the A1 climatic zone between 32°C to 49°C for at least three (3) cycles. Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use. Post-test: Test results must verify that the ISS-S still operates within normal performance limits at the rated temperature. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or	No

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				evidence of physical damage that would cause a malfunction.	
2.1.3.1.1.0-2	TPS-5155	When exposed to temperatures above 49°C and up to 60°C in an operating (power-on) state, the ISS-S should continue to operate within normal performance limits or exhibit only a temporary loss or degradation of function that is self-recovered upon returning to its rated temperature range. Tested according to MIL-STD-810G, Method 501.5, Procedure II or MIL-STD-810F, Method 501.4, Procedure II.	Test	<p>If the ISS-S configuration has not changed from P(Bid), no other test is required.</p> <p>Otherwise:</p> <p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 501.5, Procedure II or MIL-STD-810F, Method 501.4, Procedure II using constant temperature exposure. Operation at high temperatures above 49°C and up to 60°C in an operating (power-on) state. Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits at the rated temperature or if there is a degradation of function, self-recovery upon returning to its rated temperature range after the test with no lasting effects. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.</p>	No
2.1.3.1.2	TPS-315	Storage - High Temperature			
2.1.3.1.2.0-1	TPS-324	The ISS-S must operate within normal performance limits following storage at	Test	The Contractor must prove by testing that the ISS-S meets the requirement.	No

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		temperatures up to 70°C tested according to MIL-STD-810G, Method 501.5, Procedure I (using cycling as for the A1 Climatic category) or MIL-STD-810F, Method 501.4, Procedure I (using cycling as for the A1 Climatic category).		Test IAW MIL-STD-810G, Method 501.5, Procedure I (using cycling as for the A1 Climatic category, Table 501.5-III, to a maximum temperature of 70°C), or MIL-STD-810F, Method 501.4, Procedure I (using cycling as for the A1 Climatic category, Table 501.4-II, to a maximum temperature of 70°C). Non-operational storage at high temperature following the diurnal cycles of the A1 climatic zone between 33°C to a maximum of 70°C for at least seven (7) cycles. Test in storage or non-operational configuration. Post-test: Test results must verify that the ISS-S still operates within normal performance limits after the test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.	
2.1.3.1.3	TPS-314	Operation - Low Temperature			
2.1.3.1.3.0-1	TPS-323	The ISS-S must operate within normal performance limits at temperatures down to -30°C tested according to MIL-STD-810G, Method 502.5, Procedure II or MIL-STD-810F, Method 502.4, Procedure II.	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 502.5, Procedure II or MIL-STD-810F, Method 502.4, Procedure II. Operation at cold temperatures down to -30°C using constant low temperature of -30°C. Exposure time must be 24 hours. Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use. Post-test: Test results must verify that	No

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				the ISS-S still operates within normal performance limits at the rated temperature. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.	
2.1.3.1.3.0-2	TPS-2189	When exposed to temperatures below -30°C and down to -46°C in an operating (power-on) state, the ISS-S should continue to operate within normal performance limits or exhibit only a temporary loss or degradation of function that is self-recovered upon returning to its rated temperature range. Tested according to MIL-STD-810G, Method 502.5, Procedure II or MIL-STD-810F, Method 502.4, Procedure II.	Test	<p>If the ISS-S configuration has not changed from P(Bid), no other test is required.</p> <p>Otherwise:</p> <p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 502.5, Procedure II or MIL-STD-810F, Method 502.4, Procedure II. Operation at cold temperatures down to -46°C using constant low temperature of extreme rating. Exposure time must be 24 hours. Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use. Post-test: Test results must verify that the ISS-S still operates within normal performance limits at the rated temperature or if there is a degradation of function, self-recovery upon returning to its rated temperature range after the test with no lasting effects. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical</p>	No

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				damage that would cause a malfunction.	
2.1.3.1.4	TPS-316	Storage - Low Temperature			
2.1.3.1.4.0-1	TPS-325	The ISS-S must operate within normal performance limits following storage at temperatures down to -30°C tested according to MIL-STD-810G, Method 502.5, Procedure I or MIL-STD-810F, Method 502.4, Procedure I.	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 502.5, Procedure I or MIL-STD-810F, Method 502.4, Procedure I. Non-operational storage at cold temperatures down to -30°C using constant low temperature of -30°C. Exposure time must be 24 hours. Test in storage or non-operational configuration. Post-test: Test results must verify that the ISS-S still operates within normal performance limits after the test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.	No
2.1.3.1.4.0-2	TPS-2192	The ISS-S should operate within normal performance limits following storage at temperatures down to -46°C. Tested according to MIL-STD-810G, Method 502.5, Procedure I or MIL-STD-810F, Method 502.4, Procedure I.	Test	If the ISS-S configuration has not changed from P(Bid), no other test is required. Otherwise: The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 502.5, Procedure I or MIL-STD-810F, Method 502.4, Procedure I. Non-operational storage at cold temperatures down to -46°C using constant low temperature of extreme rating. Exposure time must be 24 hours. Test in storage or non-operational	No

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				configuration. Post-test: Test results must verify that the ISS-S still operates within normal performance limits after the test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.	
2.1.3.1.5	TPS-299	Humidity			
2.1.3.1.5.0-1	TPS-332	The ISS-S must operate within normal performance limits when being used or stored in a warm, humid atmosphere tested according to MIL-STD-810G, Method 507.5 Procedure I, Cycle B1 or MIL-STD-810F, Method 507.4.	Test	<p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 507.5 Procedure I, Cycle B1. Constant temperature and humidity with operation at the Natural B1 cycle and non-operational storage at the Induced B1 cycle. Number of test cycles as per Table 507.5-II. As an alternative use MIL-STD-810G, Method 507.5 Procedure II (Aggravated Cycle) for ten (10) 24-hour cycles.</p> <p>Or test IAW MIL-STD-810F, Method 507.4 for five (5) 48-hour cycles.</p> <p>Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits during and following this exposure. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would</p>	No

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				cause a malfunction.	
2.1.3.1.6	TPS-999	Thermal Shock			
2.1.3.1.6.0-1	TPS-1020	The ISS-S must operate within normal performance limits during sudden changes in temperature (thermal shock) due to transitioning through temperature changes from 24°C to 49°C and 21°C to -30°C tested according to MIL-STD-810G, Method 503.5, Procedure I D (Shocks to or from controlled ambient temperature) or MIL-STD-810F, Method 503.4, Procedure I.	Test	<p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 503.5, Procedure I D (Shocks to or from controlled ambient temperature). Multi-cycle shocks from 49°C to 24°C and 21°C to -30°C while in an operational state (power-on). Minimum of three (3) shocks in each direction, allowing enough time between to allow temperature stabilization.</p> <p>Or test IAW MIL-STD-810F, Method 503.4, Procedure I. Minimum of three (3) shocks from 49°C to 24°C, allowing enough time between to allow temperature stabilization. Minimum of three (3) shocks from 21°C to -30°C, allowing enough time between to allow temperature stabilization.</p> <p>All tests to be done while in an operational state (power-on). Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits following each cycle. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a</p>	No

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				malfunction.	
2.1.3.1.7	TPS-297	Solar Radiation			
2.1.3.1.7.0-1	TPS-329	The ISS-S must operate within normal performance limits during extended sunlight exposure with an intensity of 1120 W/m ² and a temperature of 49°C.	Contractor's Choice	<p>Test or Analysis for Actinic effects.</p> <p>Test: The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 505.5 Procedure II (Steady State for actinic effects) or MIL-STD-810F, Method 505.4, Procedure II (Steady State for actinic effects). Follow the A1 profile, while in an operational (power-on) state, with a test duration of 56 24-hour cycles. Test in operational configuration at System or Device Level.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits following each cycle. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.</p> <p>OR</p> <p>Analysis: The Contractor must prove by analysis that the ISS-S meets the requirement. The materials analysis must prove that the ISS-S meets the requirement.</p>	No
2.1.3.1.8	TPS-298	Blowing Rain			
2.1.3.1.8.0-1	TPS-331	The ISS-S must operate within normal	Test	The Contractor must prove by testing	No

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		performance limits during rainfall exposure of a minimum 1.8 mm/min and a wind velocity of a minimum 18 m/s tested according to MIL-STD-810G, Method 506.5, Procedure I or MIL-STD-810F, Method 506.4, Procedure I.		<p>that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 506.5, Procedure I (Rain and Blowing Rain) or MIL-STD-810F, Method 506.4, Procedure I (Rain and Blowing Rain). Rainfall exposure of a minimum 1.8 mm/min and a wind velocity of a minimum 18 m/s while in an operational state (power-on). Test at standard ambient temperatures, exposing all surfaces for a minimum 30 minutes duration.</p> <p>Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits during each exposure and following test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.</p>	
2.1.3.1.9	TPS-302	Sand and Dust			
2.1.3.1.9.0-1	TPS-2201	The ISS-S must operate within normal performance limits in a sand and dust environment as follows: Dust particles smaller than 150 µm at a wind speed of 8.9 m/s, and Sand particles between 150 µm to 850 µm in size at wind speeds up to 29 m/s. Test according to MIL-STD-810G, Method 510.5 (or MIL-STD-810F, Method 510.4) Procedure I for	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 510.5 (or MIL-STD-810F, Method 510.4) Procedure I for Dust and Procedure II for Sand. Dust particles smaller than 150 µm at a wind speed of 8.9 m/s. Sand particles between 150 µm to 850 µm in size at wind speeds ranging from 18 to	No

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		Dust and Procedure II for Sand, both at an ambient temperature of 49°C.		<p>29 m/s. Both at an ambient temperature of 49°C while in an operational state (power-on). For Procedure II (Sand) expose each vulnerable face at 90 minute intervals.</p> <p>Test in operational configuration at System or Device Level. During the test, all ISS-S devices and controls must be exercised as per their intended use.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits during exposure and following each test procedure. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.</p>	
2.1.3.1.10	TPS-301	Salt Fog			
2.1.3.1.10.0-1	TPS-1010	The ISS-S must operate within normal performance limits under or following exposure to salt fog conditions using four alternating 24-hour periods of salt fog exposure and drying conditions.	Contractor's Choice	<p>Test or Analysis for Salt Fog effects.</p> <p>Test: The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 509.5 or MIL-STD-810F, Method 509.4. Exposure to salt atmosphere using four alternating 24-hour periods of salt fog exposure and drying conditions. Use standard test temperature of 35°C. Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use.</p> <p>Post-test: Test results must verify that</p>	No

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				<p>the ISS-S still operates within normal performance limits following the test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.</p> <p>OR</p> <p>Analysis: The Contractor must prove by analysis that the ISS-S meets the requirement. The materials analysis must prove that the ISS-S meets the requirement.</p>	
2.1.3.1.11	TPS-300	Fungus			
2.1.3.1.11.0-1	TPS-333	The ISS-S must not contain materials that support fungus growth.	Contractor's Choice	<p>Test or Analysis.</p> <p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 508.6. Exposure to either US or European fungi IAW MIL-STD-810G, Method 508.6 Tables 508.6-I or XXIII, for at least the minimum test duration. Or Test IAW MIL-STD-810F, Method 508.5. Exposure to either US or European fungi IAW Table 508.5-I, for at least the minimum test duration. Test in operational configuration at System or Device Level. Post-test: Test results must verify that the ISS-S still operates within normal performance limits following the test and that the ISS-S is devoid of microbial</p>	No

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				<p>growth (MIL-STD-810G, Method 508.6 or MIL-STD-810F, Method 508.5 rating of 0).</p> <p>OR</p> <p>Analysis: The Contractor must prove by analysis that the ISS-S meets the requirement. The materials analysis must prove that the ISS-S meets the requirement.</p>	
2.1.3.2	TPS-2210	Induced Environments			
2.1.3.2.1	TPS-305	Shock			
2.1.3.2.1.0-1	TPS-2218	The ISS-S must operate within normal performance limits following the shocks associated with dismounted soldier operations while in an operational mode tested according to MIL-STD-810G, Method 516.6 Procedure I or MIL-STD-810F, Method 516.5 Procedure I.	Test	<p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 516.6 Procedure I (Functional Shock) or MIL-STD-810F, Method 516.5 Procedure I (Functional Shock). Use shock equivalence to MIL-STD-810G, Figure 516.6-8 for Functional Test - Ground Equipment (MIL-STD-810F, Figure 516.5-8 for Functional Test - Ground Equipment), half sine pulse at 20g's for 11ms, or terminal peak sawtooth pulse at 40 g's for 15 - 23ms. Device in an operational state (power-on). Test in operational configuration at Device Level.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits following each exposure. Visual inspection of ISS-S post-test must not show any obvious</p>	No

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				changes in materiel characteristics or evidence of physical damage that would cause a malfunction.	
2.1.3.2.1.0-2	TPS-2219	The ISS-S must operate within normal performance limits following a 1.22 metre drop tested according to MIL-STD-810G, Method 516.6 Procedure IV or MIL-STD-810F, Method 516.5 Procedure IV.	Test	<p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 516.6 Procedure IV (Transit Drop) or MIL-STD-810F, Method 516.5 Procedure IV (Transit Drop). As per MIL-STD-810G Table 516.6-VI (MIL-STD-810F Table 516.5-VI), 1.22 metre drop height in an operational configuration (no packaging) and non-operating state (power-off). Test at Device Level.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits following drops. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.</p> <p>For headset: a. no more than a ± 4 db variation in frequency response from initial reading at any frequency; and b. no more than 1 ohm or $\pm 5\%$ variation, whichever is greater, from initial impedance reading at 1000 Hz.</p>	No
2.1.3.2.2	TPS-2216	Transport Vibration			
2.1.3.2.2.0-1	TPS-2217	The ISS-S must operate within normal performance limits following exposure to the vibrations associated with transport in Ground Vehicles while in a non-operating (power-off) state. Tested according to MIL-STD-810G, Method 514.6	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 514.6 Procedure I, Category 4 using the Two-wheeled Trailer vibration exposures	No

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		Procedure I, Category 4 (or MIL-STD-810F, Method 514.5 Procedure I, Category 4) using the Two-wheeled Trailer vibration exposure profile.		shown in Figure 514.6C-2 and Table 514.6C-IV for the specified 32 minutes per axis. Or IAW MIL-STD-810F, Method 514.5 Procedure I, Category 4 using the Two-wheeled Trailer vibration exposures shown in Figure 514.5C-2 for the specified 32 minutes per axis. Tested in an operational strapped down configuration (no packaging) in a power-off state. Test in operational configuration at System or Device Level. Post-test: Test results must verify that the ISS-S still operates within normal performance limits following test. Visual inspection of ISS-S post-test does not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.	
2.1.3.2.3	TPS-303	Immersion			
2.1.3.2.3.0-1	TPS-2205	The ISS-S, excluding the ISS-S Audio Display canalphones and any other Audio Display component that is part of the headset, must operate within normal performance limits after immersion in fresh water in an operational state (power on), without preparation, for a period of 30 minutes at a depth of 1 metre tested according to MIL-STD-810G, Method 512.5 Procedure I (Immersion) or MIL-STD-810F, Method 512.4 Procedure I (Immersion).	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 512.5 Procedure I (Immersion) or MIL-STD-810F, Method 512.4 Procedure I (Immersion). 30 minutes at a depth of 1 metre in fresh water while powered on. Water temperature at 15°C and the ISS-S at 27°C above the water temperature. Test in operational configuration at System Level. Post-test: Test results must verify that the ISS-S still operates within normal	No

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				performance limits following test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.	
2.1.3.2.4	TPS-2206	Reduced Pressure			
2.1.3.2.4.0-1	TPS-2207	The ISS-S must operate within normal performance limits at an atmospheric pressure of 57.2 kPa (corresponding to a standard altitude of 4,572 metre) tested according to MIL-STD-810G, Method 500.5 Procedure II (Operation) or MIL-STD-810F, Method 500.4 Procedure II (Operation).	Test	<p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 500.5 Procedure II (Operation) or MIL-STD-810F, Method 500.4 Procedure II (Operation). ISS-S in an operational mode (power-on) at an atmospheric pressure of 57.2 kPa (corresponding to a standard altitude of 4,572 metre) for a minimum of one (1) hour at -15°C. Test in operational configuration at System or Device Level. During the test, all ISS-S devices and controls must be exercised as per their intended use.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits during and following test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.</p>	No
2.1.3.2.5	TPS-2211	Explosive Atmosphere			
2.1.3.2.5.0-1	TPS-2212	The ISS-S must not constitute a hazard in an explosive environment.	Contractor's Choice	<p>Test or Analysis.</p> <p>Test: The Contractor must prove by testing that the ISS-S meets the requirement.</p>	No

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				<p>Test IAW MIL-STD-810G, Method 511.5 Procedure I or MIL-STD-810F, Method 511.4. Make and break electrical contacts frequently.</p> <p>Test in operational configuration at System or Device Level.</p> <p>Post-test: Test results must verify that the ISS-S can operate in fuel-air explosive atmospheres without causing ignition.</p> <p>OR</p> <p>Analysis:</p> <p>The Contractor must prove by analysis that the ISS-S meets the requirement. The analysis must determine susceptibility to electrostatic build-up and ESD and prove that the ISS-S can operate in an explosive environment without causing ignition.</p>	
2.1.3.2.6	TPS-2220	Contamination by Fluids			
2.1.3.2.6.0-1	TPS-2221	<p>The ISS-S must withstand, within normal performance limits, contamination by the following fluids:</p> <ul style="list-style-type: none"> • Insect repellent (NSN 6840-01-284-3982, Crème, approx 32% Deet); • Degreasing Solvent (MIL-PRF-680B); • Weapon cleaning solvents (MIL-PRF-372D); • Lubricating oil, general purpose (MIL-PRF-32033); • Camouflage cream; • Reactive Skin Decontaminant Lotion (RSDL); • Salt water (real or simulated); • Unleaded gasoline (CAN/CGSB 3.5); 	Contractor's Choice	<p>Test or Analysis.</p> <p>Test:</p> <p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 504.1 Procedure II. Contamination fluid must be splashed on the equipment. Fluid exposure duration is as per the MIL-STD-810G defined 8 hours. Or test IAW MIL-STD-810F, Method 504. Use intermittent contamination procedures and times. Soak temperature</p>	No

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		<ul style="list-style-type: none"> Hydraulic fluid (Mineral oil / petroleum based NATO H-520/NATO H-515); Kerosene (Commercial fuel CAN/CGSB 3.3); Automatic Transmission fluid (Dexron III or Allison TES 228); Lubricant, semi-fluid, automatic weapons (MIL-L-46000); Lubricating oil, weapons, low temperature (MIL-PRF-14107); Anti-freeze (A-A-52624A Type I ethylene glycol-based and Type II propylene glycol-based); Engine oil (MIL-PRF-2104H, 15W40); and Diesel fuel (On-road CAN/CGSB 3.517). 		<p>to be 49 degrees Celsius for 8 hours.</p> <p>Ambient and contamination fluid temperature for test must be between 15 degrees and 25 degrees Celsius. Test at Device Level.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits following the test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.</p> <p>Analysis: The Contractor must prove by analysis that the ISS-S meets the requirement. The materials analysis must prove that the ISS-S meets the requirement.</p>	
2.1.3.3	TPS-312	Electromagnetic Environmental Effects (E3)			
2.1.3.3.0-1	TPS-5195	A quantity of ten (10) ISS-CS must operate concurrently, while using voice and data services, in a three (3) metre by three (3) metre space without damaging any of the ISS-CS devices.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to use ten (10) radios.	Yes
2.1.3.3.0-2	TPS-666	The ISS-S must not exhibit degradation of performance due to electromagnetic interference when ten (10) operational ISS-S nodes collocated in a room of size 3 metres by 3 metres, are performing voice exchanges, Blue PA exchanges and data exchanges as per section TPS-246 of this specification.	Analysis - and - Test	<p>Using an analysis and a test, the Contractor must prove that the performance of the ISS-S is not degraded by the presence of other ISS-S operating in close proximity.</p> <p>Analysis: The Contractor must provide an analysis</p>	No

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				<p>that proves that the ISS-S design characteristics allow the ISS-S to meet this requirement. The analysis must show that the radio out-of-band rejection, signal selectivity and out-of-band or in-band noise levels do not create an electromagnetic incompatibility that results in degradation of performance when multiple radios are operating in close proximity.</p> <p>Test: The test must be performed using at least ten (10) ISS-S nodes collocated in a room of size 3 metres by 3 metres. Each ISS-S must be able to perform voice exchanges, Blue PA exchanges and data exchanges as per section TPS-246 of this specification. The ISS-S must operate within normal performance limits during the test.</p>	
2.1.3.3.0-3	TPS-5486	The ISS Communications Suite (ISS-CS) receiver selectivity and out-of-band rejection must be sufficient to permit two ISS-CS radios separated by a distance of five (5) metres operating on adjacent frequency channels (1 channel width away), to perform voice, data and Blue PA exchanges with other ISS-CS radios located at a distance of five hundred (500) metres.	Analysis - and - Test	<p>Using an analysis and a test, the Contractor must prove that the performance of the ISS-CS is not degraded by the presence of other ISS-CS operating in close proximity on an adjacent frequency channel.</p> <p>Analysis: The Contractor must provide an analysis that proves that the ISS-S design characteristics allow the ISS-S to meet this requirement. The analysis must show that the radio out-of-band rejection, signal selectivity and out-of-band or in-</p>	No

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				<p>band noise levels do not create an electromagnetic incompatibility when two or more radio networks are operating in adjacent radio channels.</p> <p>Test: The test must be performed using at least four (4) ISS-S nodes where two (2) ISS-S nodes use one frequency channel (f1) and the other two (2) ISS-S nodes use an adjacent frequency channel (f2). The nodes that operation on frequency channel f1 must be five hundred (500) metres apart and the node operating on frequency channel f2 must also be five hundred (500) metres apart. One (1) ISS-S node on frequency channel f1 must be five (five) metres apart or less from one (1) ISS-S node on frequency channel f2. The two (2) ISS-S nodes using frequency channel f1 must perform voice, data and Blue PA exchanges while the two (2) ISS-S nodes using frequency channel f2 are also performing voice, data and Blue PA exchanges. The test must be performed while the four (4) ISS-CS radios are operating using the primary transmitted output power mode defined in TPS-5163.</p> <p>Testing may be performed in Lab environment with sufficient attenuators to simulate range (equivalent to path loss).</p>	
2.1.3.3.1	TPS-918	EMI / EMC			
2.1.3.3.1.0-1	TPS-353	The ISS-S must meet the EMCON requirement	Test	The Contractor must prove by testing	No

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		from section 5.13 of MIL-STD-464A. Frequencies tested are outside of 225-450MHz frequency range.		that the ISS-S meets the requirement. If a Wireless PTT is provided, the Wireless PTT can be disabled or turned-off for this test. The test must be performed using calibrated equipment, and it is recommended that the test be performed by an accredited EMC facility.	
2.1.3.3.1.0-2	TPS-356	The ISS-S must operate within Normal Performance Limits (as defined in Vol 2, Annex CE, References Acronyms and Glossary) when exposed to an electric field of 50V/m at frequencies of 2MHz to 18GHz.	Test	The Contractor must prove by testing that the ISS-S operates within Normal Performance Limits (as defined in Vol 2, Annex CE, References Acronyms and Glossary) when exposed to an electric field of 50V/m at frequencies of 2MHz to 18GHz. The tests must be performed using calibrated equipment, and it is recommended that the test be performed by an accredited EMC facility.	No
2.1.3.3.2	TPS-919	RADHAZ			
2.1.3.3.2.0-1	TPS-920	The ISS-S must meet the requirements of Health Canada Safety Code 6 and Canadian Forces Technical Order (CFTO) C-55-040-001/TS-001.	Analysis - and - Test	ISS-S hardware will be subject to RF safety testing in the form of an RF Safety Survey or a Specific Absorption Rate (SAR) test in accordance with CFTO C-55-040-001/TS-001 by DND SME. Compliance with this requirement will be indicated by a certification from the DND SME that the ISS-S is compliant with CFTO C-55-040-001/TS-001.	No
2.1.3.3.3	TPS-925	Electrostatic Discharge			
2.1.3.3.3.0-1	TPS-926	The ISS-S must meet all requirements from MIL STD 1686C, 5.2.2.1, Direct Contact, Non-Operating Assembly, 2000V Body/Finger or Hand/Metal HBM test; or IEC 61000-4-2 requirements for Level 1, Non-Operating, Direct Contact Discharges on connectors and interfaces.	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL STD 1686C, 5.2.2.1, Direct Contact, Non-Operating Assembly, 2000V Body/Finger or Hand/Metal HBM test; or IEC 61000-4-2	No

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				<p>requirements for Level 1, Non-Operating, Direct Contact Discharges on connectors and interfaces, as per the requirement. Test must be performed by an accredited EMC or ESD Facility. Test must be performed on a minimum of eight points on each component of the ISS-S.</p> <p>Accreditation from any of the following institutions or, if applicable, their European or international equivalents, is acceptable: International Standards Organization (ISO) Federal Communications Commission (FCC) Industry Canada (IC) American Association for Lab Accreditation (AALA) Canadian Standards Association (CSA) Underwriter Laboratory (UL) National Institute of Standards in Technology (NIST) National Association of Radio and Telecommunications Engineers (NARTE)</p> <p>Other accreditations can be considered when submitted by the Contractor.</p>	
2.1.3.3.3.0-2	TPS-1031	The ISS-S must meet all requirements from MIL STD 1686C, 5.2.2.2, Direct Contact, Operating Equipment, 4000V Hand/Metal HBM test; or IEC 61000-4-2 requirements for Level 2, Operating, Direct Contact Discharges on the component	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL STD 1686C, 5.2.2.2, Direct Contact, Operating Equipment, 4000V Hand/Metal HBM test; or IEC	No

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		surface.		<p>61000-4-2 requirements for Level 2, Operating, Direct Contact Discharges on the component surface, as per the requirement.</p> <p>Test must be performed by an accredited EMC or ESD Facility.</p> <p>Test must be performed on a minimum of eight points on each component of the ISS-S.</p> <p>Accreditation from any of the following institutions or, if applicable, their European or international equivalents, is acceptable:</p> <p>International Standards Organization (ISO)</p> <p>Federal Communications Commission (FCC)</p> <p>Industry Canada (IC)</p> <p>American Association for Lab Accreditation (AALA)</p> <p>Canadian Standards Association (CSA)</p> <p>Underwriter Laboratory (UL)</p> <p>National Institute of Standards in Technology (NIST)</p> <p>National Association of Radio and Telecommunications Engineers (NARTE)</p> <p>Other accreditations can be considered when submitted by the Contractor.</p>	
2.1.3.3.4	TPS-1032	Grounding			
2.1.3.3.4.0-1	TPS-1034	To maximise likelihood of compliance with Electromagnetic Environmental Effects requirements of section TPS-312, the maximum	Test	If the ISS-S configuration has not changed from P(Bid), no test is required.	No

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		DC resistance from every ISS-S physical device to every other ISS-S physical device should be 25 milliohms or less.		Otherwise: The Contractor must prove by testing that the ISS-S meets the requirement. The Contractor must provide a test report that provides DC resistance measurements from every ISS-S physical device to every ISS-S physical device. Measurements must be taken with a calibrated milliohm meter.	
2.1.3.3.4.0-2	TPS-1035	To maximise likelihood of compliance with Electromagnetic Environmental Effects requirements of section TPS-312, the maximum DC resistance across all connectors and interfaces on any ISS-S physical device should be 2.5 milliohms or less.	Test	If the ISS-S configuration has not changed from P(Bid), no test is required. Otherwise: The Contractor must prove by testing that the ISS-S meets the requirement. The Contractor must provide a test report that provides DC resistance measurements for every ISS-S physical device. The DC resistance from an ISS-S physical device across all connectors and interfaces must be provided in the test report. Measurements must be taken with a calibrated milliohm meter.	No
2.1.4	TPS-79	Functional Security			
2.1.4.0-1	TPS-927	Digital data consists of all digitized data stored, used and exchanged, including but not limited to digitized voice, control data and user data.			
2.1.4.1	TPS-981	Access Controls			
2.1.4.1.0-1	TPS-1467	The ISS-S should provide an access control mechanism to prevent unauthorised access.	Demo	The Contractor must demonstrate that the access control mechanism provided as part of the ISS-S does prevent unauthorized access to the system.	No

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2.1.4.1.0-2	TPS-5170	The ISS-S access control should not require multiple logins.	Demo	The Contractor must demonstrate that the access control mechanism provided as part of the ISS-S only requires a single login for access.	No
2.1.4.1.0-3	TPS-982	Only authorized users should have access to digital data stored on the Main Data Storage and on the External Data Storage Device, and digital data transmitted, received and processed by the ISS-S.	Demo	The Contractor must demonstrate that the access control mechanism controls access to digital data stored on the Main Data Storage and on the External Data Storage Device, and controls access to digital data transmitted, received and processed by the ISS-S.	No
2.1.4.1.0-4	TPS-5171	Activation of a specific ISS-S "User Profile" should be performed using a single user identification/password combination.	Demo	The Contractor must demonstrate that the access control mechanism employed to activate a user profile can be done using a simple user identification password combination.	No
2.1.4.2	TPS-964	Identification and Authentication (I&A)			
2.1.4.2.0-1	TPS-968	The ISS-S should provide an I&A function to authenticate ISS-S Users.	Demo	The Contractor must demonstrate that the I&A mechanism can be used to authenticate an ISS-S User	No
2.1.4.2.0-2	TPS-970	The ISS-S should provide an I&A function to authenticate a Wireless PTT that connects to it which does not require complex user intervention.	Demo	The Contractor must demonstrate that an authentication mechanism can be used to authenticate subsystem devices/equipment that connect wirelessly. The demonstration must show that the authentication process does not require user intervention through the BMS such as selection of wireless networks or devices, or entering of identification or password. The demonstration must be performed with more than one collocated ISS-S and Wireless PTTs being authenticated at the same time.	No

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2.1.4.2.0-3	TPS-973	The ISS-S I&A function for ISS-S User authentication should implement a user identification and password authentication technique (one factor) to access the ISS-S, with the following characteristics: <ul style="list-style-type: none"> • An authentication procedure is required to access the ISS-S computer, the data stored on the Main Data Storage and the data stored on the External Data Storage Device; • An authentication procedure is not required to provide ISS-S radio network voice and data services; and • If an Operating System inactivity timer is implemented, allow for the ISS-S User to be able to disable the ISS-S Operating System inactivity timer. 	Demo	The Contractor must demonstrate that the I&A mechanism must be used to authenticate the ISS-S User in order to access the ISS-S computer or stored (local or external) data, but that no I&A is required to access the radio network. If an Operating System inactivity timer is implemented, the Contractor must demonstrate that the I&A mechanism inactivity timer can be disabled by the ISS-S User.	No
2.1.4.2.0-4	TPS-5145	The ISS-S User password based authentication function should provide a settable number of consecutive unsuccessful entries before ISS-S lock-out that is settable from a minimum of 3 up to 15.	Demo	The Contractor must demonstrate that the I&A mechanism provides a means to set the number of allowable number of consecutive failed (unsuccessful) attempts anywhere from 3 and up to 15.	No
2.1.4.2.0-5	TPS-5146	The ISS-S User password based authentication function should provide a "lock-out time delay" that is settable from 30 seconds or less to 10 minutes or more in increments of 30 seconds or less.	Demo	The Contractor must demonstrate that the I&A mechanism allows the lock-out time delay to be set anywhere from 30 seconds or less to 10 minutes or more in increments of 30 seconds or less.	No
2.1.4.2.0-6	TPS-4082	The ISS-S should provide an ISS-S Operating System settable inactivity timer with the following characteristics: <ul style="list-style-type: none"> • When the ISS-S Operating System inactivity timer has elapsed, the ISS-S User is prevented access the ISS-S BMS software functions; • The ISS-S Operating System needs to be reactivated via User Identification and Authentication to give the ISS-S User access to 	Demo	The Contractor must demonstrate that the I&A mechanism integrates an inactivity timer for the ISS-S Operating System as per the requirement.	No

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		the ISS-S BMS software functions; and • The ISS-S voice exchanges, data reception and automated data transmission are not affected in any way by the ISS-S Operating System inactivity timer.			
2.1.4.2.0-7	TPS-4084	The ISS-S Operating System inactivity timer should be settable by the ISS-S User and be in a range from 30 seconds or less to 10 hours or more in increments of 30 seconds or less.	Demo	The Contractor must demonstrate that the I&A mechanism inactivity timer should be settable in a range from 30 seconds or less to 10 hours or more in increments of 30 seconds or less.	No
2.1.4.2.0-8	TPS-976	The ISS-S password size should be settable from a minimum of 4 characters and accept passwords of up to 16 characters or more.	Demo	The Contractor must demonstrate that the I&A mechanism minimum password size can be set from a minimum of 4 characters to up to 16 or more characters.	No
2.1.4.3	TPS-929	Data At Rest (DAR)			
2.1.4.3.1	TPS-5353	General			
2.1.4.3.1.0-1	TPS-930	Stored digital data should be secured when stored in Main Data Storage as part of the ISS-S, and when carried on External Data Storage Devices.	Demo	The Contractor must demonstrate that the Data At Rest (DAR) functionality provided as part of the ISS-S secures digital data when stored either locally or on an External Data Storage Device.	No
2.1.4.3.1.0-2	TPS-931	Stored digital data should be secured using both cryptographic encryption and integrity protection.	Demo	The Contractor must demonstrate that the Data At Rest (DAR) functionality provided as part of the ISS-S secures stored digital data using cryptographic encryption and integrity protection.	No
2.1.4.3.1.0-3	TPS-933	The encryption mechanism should provide a minimum of 128 bits of security (see NIST SP 800-57 part 1, Table 2).	Analysis - and - Demo	The Contractor must provide a detailed description of how the requirement is met. The description must clearly show how the proposed solution meets the requirement. The Contractor must also demonstrate	No

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				that the confidentiality component of the Data At Rest (DAR) functionality uses a cryptographic encryption technique that provides a minimum of 128 bits of security.	
2.1.4.3.1.0-4	TPS-934	The encryption mechanism used to secure stored data should be AES (FIPS 197).	Test	The test must consist of the Contractor providing Canada with a valid Cryptographic Algorithm Validation Program (CAVP) certificate for its AES implementation used to provide the confidentiality component of the DAR functionality of ISS-S. The test will have to have been performed by one of the third-party laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).	No
2.1.4.3.1.0-5	TPS-935	The encryption mechanism should use one of the following block cipher modes of operations: CBC (NIST SP-800-38A), CTR (NIST SP-800-38A), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D).	Test	<p>If the ISS-S configuration has not changed from P(Bid), no other test is required.</p> <p>Otherwise:</p> <p>The test must consist of the Contractor providing Canada with a valid Cryptographic Algorithm Validation Program (CAVP) certificate for its AES implementation used to provide the confidentiality component of the DAR functionality of ISS-S and implements one of the following cryptographic modes of operations: CBC, CTR, CCM or GCM. The test will have to have been performed by one of the third-party</p>	No

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				laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).	
2.1.4.3.1.0-6	TPS-936	The integrity mechanism used to protect stored data should provide an equivalent strength factor of at least 80 bits.	Test	The Contractor must demonstrate that the integrity component of the Data At Rest (DAR) functionality provided as part of the ISS-S secures the integrity of stored digital data using a mechanism providing at least 80 bits of strength.	No
2.1.4.3.1.0-7	TPS-937	The integrity of stored data should be provided using one of the following techniques: a) AES 128 bits encryption (FIPS 197) in CMAC (NIST SP-800-38B), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D) mode; b) AES 256 bits encryption (FIPS 197) in CMAC (NIST SP-800-38B), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D) mode; or c) Keyed-Hash Message Authentication Code (HMAC) as per FIPS 198-1 using one of the NIST approved hash functions (FIPS 180-3).	Test	If the ISS-S configuration has not changed from P(Bid), no other test is required. Otherwise: The test must consist of the Contractor providing Canada with a valid Cryptographic Algorithm Validation Program (CAVP) certificate for its cryptographic integrity mechanism implementation used for the DAR functionality on ISS-S and implements one of the following cryptographic modes of operations: AES-128-CMAC, AES-128-CCM, AES-128-GCM, AES-256-CMAC, AES-256-CCM, AES-256-GCM or a FIPS 198-1 approved HMAC functions. The test will have to have been performed by one of the third-party laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).	No
2.1.4.3.1.0-8	TPS-938	The encryption and integrity mechanisms	Test	If the ISS-S configuration has not	No

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		implemented for securing (confidentiality and integrity) stored data should be validated to a minimum of FIPS 140-2 Level 2 or equivalent.		changed from P(Bid), no other test is required. Otherwise: The test must consist of the Contractor providing Canada with a NIST issued FIPS 140-2 Level II validation certificate or equivalent for the cryptographic module implementing the DAR function (confidentiality and integrity) provided as part of the ISS-S	
2.1.4.3.2	TPS-129	Zeroizing			
2.1.4.3.2.0-1	TPS-954	The ISS-S must provide a zeroize function with the following characteristics: - A means to zeroize the ISS-S such that the information stored in the BMS becomes inaccessible and unusable and the ISS-CS becomes unusable in the ISS Network; and - The ISS-S needs to be able to be re-configured after zeroization	Test	The Contractor must prove, using a test, that the ISS-S User can perform a local zeroize such that the information stored in the BMS becomes inaccessible and unusable and the ISS-CS becomes unusable in the ISS Network. The Contractor must also prove, using a test, that the ISS-S can be re-configured after zeroization.	No
2.1.4.3.2.0-2	TPS-955	The means to zeroize the stored digital data may be provided by securely deleting the storage key used for securing encrypted and integrity protected digital data.			
2.1.4.3.2.0-3	TPS-956	The digital data zeroization function must use a dual activation mechanism such that the User performs two separate actions to perform the zeroization.	Demo	The Contractor must demonstrate that the local zeroize function is available to all ISS-S Users and requires a User to perform two separate actions to perform the zeroization.	No
2.1.4.3.2.0-4	TPS-957	When an ISS-S User initiates a local zeroization of the digital data, the ISS-S should send a message on the Blue PA COI indicating that the ISS-S User	Demo	The Contractor must demonstrate that when an ISS-S User initiates a local zeroization of the digital data, the ISS-S	No

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		has initiated a local zeroization, including his last known position, such that the ISS-S Users that are members of the Blue PA COI can identify the zeroized ISS-S.		sends a message on the Blue PA COI indicating that the ISS-S User has initiated a local zeroization, including his last known position, such that the ISS-S Users that are members of the Blue PA COI can identify the zeroized ISS-S.	
2.1.4.3.3	TPS-958	Over The Air Zeroizing (OTAZ)			
2.1.4.3.3.0-1	TPS-959	The ISS-S should provide a zeroize function with the following characteristics: - A means to remotely zeroize the ISS-S such that the information stored in the BMS becomes inaccessible and unusable and the ISS-CS becomes unusable in the ISS Network; and - The ISS-S needs to be able to be re-configured after remote zeroization	Demo	The Contractor must demonstrate that an ISS-S can be remotely zeroized. The Contractor must also demonstrate that the ISS-S can be re-configured after zeroization.	Yes
2.1.4.3.3.0-2	TPS-960	The ISS-S remote digital data zeroization function should require a minimum of two (2) ISS-S Users operating two (2) distinct ISS-S, to be effected on a third ISS-S.	Demo	If the ISS-S configuration has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate that an ISS-S being operated by a user that is a member of a larger group of users can be remotely zeroized by a minimum of 2 other ISS-S users (also members of the same group) while each employing their own instances of the ISS-S.	Yes
2.1.4.3.3.0-3	TPS-961	The ISS-S remote digital data zeroization function should be available to all Users.	Demo	The Contractor must demonstrate that the remote zeroize function is available to all ISS-S User.	No
2.1.4.3.3.0-4	TPS-962	The ISS-S remote digital data zeroization function should require the Users performing it to provide confirmation of the deletion request.	Demo	If the ISS-S configuration has not changed from P(Bid), no other demonstration is required.	No

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				Otherwise: The Contractor must demonstrate that the remote zeroize function is available to all ISS-S User and requires a user confirmation of his/her action before being effected.	
2.1.4.4	TPS-988	EMCON			
2.1.4.4.1	TPS-4989	Normal and Electronic Silence			
2.1.4.4.1.0-1	TPS-1481	The ISS-S must support the following emanation control (EMCON) conditions as defined by CFTO B-GL-334-001/FP-001, Standing Operating Procedures for Land Operations: • EMCON 1-electronic silence; • EMCON 4-no restrictions.	Demo	The Contractor must demonstrate how all ISS-S electronic functionality can be shutdown by the user in a simple and timely manner.	No
2.1.4.4.2	TPS-4990	Radio Silence			
2.1.4.4.2.0-1	TPS-4991	The ISS-S must support the EMCON 2-radio silence condition as defined by CFTO B-GL-334-001/FP-001, Standing Operating Procedures for Land Operations, by shutting down all radio transmissions including ISS-CS transmissions and any other wireless transmissions.	Demo	The Contractor must demonstrate compliance with this requirement by the shutdown of the RF communications including all "stay alive" protocol transmissions that may be required for ISS-CS normal operation. Canada may wish to monitor the spectrum to ensure compliance with the full RF shutdown.	No
2.1.4.4.2.0-2	TPS-2677	The ISS-S should support the EMCON 2-radio silence condition as defined by CFTO B-GL-334-001/FP-001, Standing Operating Procedures for Land Operations, by shutting down all radio transmissions including ISS-CS transmissions and any other wireless transmissions, while still receiving voice messages from another ISS-S node which breaks EMCON 2 condition.	Test	Compliance with this requirement must be indicated by test results from an accredited EMC test facility that certifies the ISS-S meets the electric field emanation levels of MIL-STD-464A, Section 5.13 or MIL-STD-461F, Section 5.17 - RE102 when in EMCON 2 condition. Since there is no transmitter, there is no fundamental frequency applicable for this test, which means that	No

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				<p>the ISS-S must meet MIL-STD-461F, Section 5.17 - RE102 throughout the complete RF spectrum. Test must show that while in EMCON 2 condition voice messages can still be received. Test must be performed by an accredited EMC Facility.</p> <p>Accreditation from any of the following institutions or, if applicable, their European or international equivalents, is acceptable: International Standards Organization (ISO) Federal Communications Commission (FCC) Industry Canada (IC) American Association for Lab Accreditation (AALA) Canadian Standards Association (CSA) Underwriter Laboratory (UL) National Institute of Standards in Technology (NIST) National Association of Radio and Telecommunications Engineers (NARTE)</p> <p>Other accreditations can be considered when submitted by the Contractor.</p>	
2.1.4.4.2.0-3	TPS-2678	While EMCON 2 Conditions are imposed on the ISS-S, the following ISS-S functionality must remain active and accessible: a. Position generation and display functions (but not position reporting functions); b. Navigation functions; and	Demo	The Contractor must demonstrate compliance with this requirement by demonstrating that the following functions remain active during EMCON 2 conditions: a. Position generation and display	No

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		c. Non-networked Battle Management System functions; and d. Non-networked System Management functions; and e. Target Acquisition functions using the CORAL-CR-C.		functions (but not position reporting functions); b. Navigation function; c. Non-networked Battle Management System functions; d. Non-networked System Management functions; e. Non-networked Target Acquisition functions using the CORAL-CR-C.	
2.1.4.5	TPS-939	Data In Transit (DIT)			
2.1.4.5.0-1	TPS-940	When digital data is transmitted from one ISS-S to another it must be secured using cryptographic encryption and provide data integrity measures.	Contractor's Choice	The Contractor must prove that the requirement is met.	No
2.1.4.5.0-2	TPS-944	The encryption mechanism must provide a minimum of 128 bits of security (see NIST SP 800-57 part 1, Table 2).	Contractor's Choice	The Contractor must prove that the encryption mechanism provides at least 128 bits of security.	No
2.1.4.5.0-3	TPS-945	The encryption mechanism used to secure transmitted data must be AES (FIPS 197).	Test	The test must consist of the Contractor providing Canada with a valid Cryptographic Algorithm Validation Program (CAVP) certificate for its AES implementation used for used to provide the confidentiality component of the DIT functionality of ISS-S. The test will have to have been performed by one of the third-party laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).	No
2.1.4.5.0-4	TPS-946	The encryption mechanism must use one of the following block cipher modes of operations: OFB (NIST SP-800-38A), CFB (NIST SP-800-38A), CTR (NIST SP-800-38A), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D).	Test	The test must consist of the Contractor providing Canada with a valid Cryptographic Algorithm Validation Program (CAVP) certificate for its AES implementation used to provide the confidentiality component of the DIT	No

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				functionality of ISS-S and implements one of the following cryptographic modes of operations: OFB, CFB, CTR, CCM or GCM. The test will have to have been performed by one of the third-party laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).	
2.1.4.5.0-5	TPS-947	The integrity mechanism used to protect transmitted data must provide an equivalent strength factor of at least 16 bits.	Contractor's Choice	The Contractor must prove that the requirement is met.	No
2.1.4.5.0-6	TPS-948	The integrity of transmitted data should be provided using one of the following techniques: a) AES 128 bits encryption (FIPS 197) in CMAC (NIST SP-800-38B), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D) mode; b) AES 256 bits encryption (FIPS 197) in CMAC (NIST SP-800-38B), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D) mode; c) Keyed-Hash Message Authentication Code (HMAC) as per FIPS 198-1 using one of the NIST approved hash functions (FIPS 180-3); or d) using a Cyclic-Redundancy-Checksum (CRC) of at least 16 bit calculated over the plain text data and encrypted along with the plain text data using the cryptographic encryption algorithm.	Test	If the ISS-S configuration has not changed from P(Bid), no other test is required. Otherwise: The test must consist of the Contractor providing Canada with a valid Cryptographic Algorithm Validation Program (CAVP) certificate for its cryptographic integrity mechanism implementation used for the DIT functionality on ISS-S as per the requirement. The test will have to have been performed by one of the third-party laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).	No
2.1.4.5.0-7	TPS-949	The encryption and integrity mechanisms implemented for securing data in transit should be validated to a minimum of FIPS 140-2 Level 2 or equivalent.	Test	If the ISS-S configuration has not changed from P(Bid), no other test is required.	No

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				Otherwise: The test must consist of the Contractor providing Canada with a NIST issued FIPS 140-2 Level II validation certificate or equivalent for the cryptographic module implementing the DIT function (confidentiality and integrity) provided as part of the ISS-S	
2.1.4.6	TPS-4087	TRANSEC			
2.1.4.6.0-1	TPS-4089	As per CNSSI 4009, TRANSEC is defined as: "Component of COMSEC resulting from the application of measures designed to protect transmissions from interception and exploitation by means other than cryptanalysis."			
2.1.4.6.0-2	TPS-4088	The ISS-S should provide TRANSEC functionality using one of the following techniques: <ul style="list-style-type: none"> • Spread Spectrum; • Frequency Hopping; or • Spread Spectrum and Frequency Hopping 	Contractor's Choice	The Contractor must provide a detailed description of how the requirement is met. The description must clearly show how the proposed solution meets the requirement. The Contractor must also demonstrate that the TRANSEC functionality provided as part of the ISS-S provides a set of measures designed to protect transmissions from interception and exploitation by means other than cryptanalysis.	No
2.1.4.6.0-3	TPS-5335	The TRANSEC functionality described in TPS-4088 should be available on all the ISS-S provided frequency bands.	Contractor's Choice	The Contractor must provide a detailed description of how the requirement is met. The description must clearly show how the proposed solution meets the requirement. The Contractor must also demonstrate	No

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				that the TRANSEC functionality provided as part of the ISS-S provides a set of measures designed to protect transmissions from interception and exploitation by means other than cryptanalysis.	
2.1.4.7	TPS-987	Key Management			
2.1.4.7.0-1	TPS-5148	Key management is the ensemble of processes, techniques, procedures, hardware and software used to manage the life cycle of cryptographic keying material. Key management includes "Key Ordering", "Key Generation", "Key Production", "Key Storage/Archiving", "Key Distribution", "Key Usage", "Key Destruction" and "Key Accounting". The key management functionality has to be designed to provide the cryptographic keying material "Confidentiality" and "Integrity" throughout its life cycle.			
2.1.4.7.0-2	TPS-5149	At a minimum, the ISS-S security services will comprise the mandatory Data In Transit (DIT) security service. Other likely security services are: Data At Rest (DAR) and TRANSEC. All of these security services will require cryptographic keying material for their operations.			
2.1.4.7.0-3	TPS-5150	An ISS Key Management function, which includes "Key Generation", "Key Production" and "Key Distribution", must be provided through a Key Management Planning (KMP) tool, to manage the keying material used by any of the ISS-S security services.	Demo	The Contractor must demonstrate that the ISS solution includes a KMP tool with a Key Management function, including demonstrating the following functions: "Key Generation", "Key Production" and "Key Distribution".	No
2.1.4.7.0-4	TPS-1482	The ISS Key Management function must provide a minimum strength of 128 bits of security (see NIST SP 800-57 part 1, Table 2) to protect the confidentiality of the cryptographic keying material used by the ISS-S security services throughout	Contractor's Choice	The Contractor must prove that the Key Management function provides at least 128 bits of security to protect the confidentiality of the cryptographic keying materiel.	No

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		their life cycle (generation, production, storage, distribution, usage and destruction).			
2.1.4.7.0-5	TPS-5151	The ISS Key Management function must provide a minimum of 32 bits of integrity to protect cryptographic keying material used by the ISS-S security services throughout their life cycle (generation, production, storage, distribution, usage and destruction).	Contractor's Choice	The Contractor must prove that the Key Management function provides at least 32 bits of integrity to protect the confidentiality of the cryptographic keying material.	No
2.1.4.7.0-6	TPS-1497	The Key Management Planning (KMP) tool must be integrated with the System Executive and Planning Suite (SEP-Suite).	Demo	The Contractor must demonstrate that the ISS KMP tool is integrated to the SEP-Suite.	No
2.1.4.7.1	TPS-4992	Key Generation & Production			
2.1.4.7.1.0-1	TPS-5152	Key Generation is the process of randomly generating a key with an appropriate number of bits. The random number generation technique used to produce the key has to be designed to provide at least as much entropy as the size of the keying material it is required to produce. For example, to produce a 128 bit key requires a random number generator capable of producing at least 128 bits of entropy will be needed. Key Production is the process of transforming a random key into a key that can be consumed by an end cryptographic device. Typical steps in the production would be the addition of attributes indicating the type of usage for the key (i.e. Traffic Encryption Key -TEK- or Key Encryption Key - KEK - or others), the level of security a key can be used to protect, integrity checks on the key and possibly encrypting the key (i.e. wrapping the key using another key - KEK) to secure its transfer to another destination or for local storage.			
2.1.4.7.1.0-2	TPS-1492	The ISS Key Management function must use a random number generation technique that provides a minimum of 128 bits of entropy for the	Contractor's Choice	The Contractor must prove that the Key Management function uses a random number generation technique that	No

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		generation of ISS-S cryptographic keying material.		provides a minimum of 128 bits of entropy.	
2.1.4.7.1.0-3	TPS-4090	The ISS key generation and production function should be implemented with the help of a FIPS 140-2 Level 2 or equivalent validated cryptographic module providing a random number generator with a minimum of 128 bits of entropy and the necessary cryptographic services to generate and produce keying material with a minimum of 128 bits of confidentiality and 32 bits of integrity.	Test	If the ISS-S configuration has not changed from P(Bid), no other test is required. Otherwise: The test must consist of the Contractor providing Canada with a NIST issued FIPS 140-2 Level II validation certificate or equivalent for the cryptographic module implementing the key generation and production function provided as part of the ISS Key Management function.	No
2.1.4.7.2	TPS-4993	Key Distribution			
2.1.4.7.2.0-1	TPS-5153	Key Distribution is the process of transporting a key that has been securely generated and produced to its final destination into an end cryptographic unit (ECU) for its usage and ultimate destruction. In the context of this procurement, the ECU is the ISS-S. The distribution process may involve the storage of the key in external system during transport and might also require transformation of the key (such as unwrapping it and wrapping it again) before it reaches its final destination. The confidentiality and the integrity of the key are to be maintained at all times during the key distribution process.			
2.1.4.7.2.0-2	TPS-4994	The ISS Key Management function must provide a means to distribute cryptographic keying material from one working instance of an ISS KMP tool to the destination ISS-S for usage while ensuring their confidentiality and integrity.	Demo	The Contractor must demonstrate that the ISS Key Management function provides a means to distribute cryptographic keying material from an ISS KMP tool to a destination ISS-S while ensuring their confidentiality and	Yes

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				integrity.	
2.1.4.7.2.0-3	TPS-4995	The ISS Key Management function should provide a means to distribute cryptographic keying material from one working instance of an ISS KMP tool to another while ensuring their confidentiality and integrity.	Demo	The Contractor must demonstrate that the ISS Key Management function provides a means to distribute cryptographic keying material from one instance of a KMP tool to another instance of a KMP tool while ensuring their confidentiality and integrity.	No
2.1.4.7.2.0-4	TPS-1488	The ISS Key Management function should provide an Over-The-Air-Rekey (OTAR) function.	Demo	The Contractor must demonstrate that the ISS Key Management function provided as part of the ISS provides a means to perform the rekeying of an ISS-S over the air.	Yes
2.1.4.7.2.0-5	TPS-4093	The key distribution function, including any key distribution device, should be implemented with the help of a FIPS 140-2 Level 2 or equivalent, validated cryptographic module providing the necessary cryptographic services to distribute keying material with a minimum of 128 bits of confidentiality and 32 bits of integrity.	Test	If the ISS-S configuration has not changed from P(Bid), no other test is required. Otherwise: The test must consist of the Contractor providing Canada with a NIST issued FIPS 140-2 Level II validation certificate or equivalent for the cryptographic module implementing the key distribution function provided as part of the ISS Key Management function.	No
2.1.4.8	TPS-4266	EMSEC			
2.1.4.8.0-1	TPS-4267	The ISS-S Audio Display, when connected to both the ISS-S radio and an LCSS GFE radio, must provide at least 40dB of isolation between the two security domains.	Test	The Contractor must provide a certificate of compliance from an accredited facility that indicates that the ISS-S Audio Display provides at least 40 dB of channel isolation between the two security domains.	No
2.1.4.8.0-2	TPS-4268	The ISS-S Audio Display, when connected to both	Contractor's	The Contractor must prove that this	No

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		the ISS-S radio and an LCSS GFE radio, should not enable a direct conductive path between the LCSS GFE radio and the ISS-S while the ISS-S radio is transmitting.	Choice	requirement is met by analysing the absence of any direct electrical link between connection channels on the audio display. Alternatively, any electrical link between the channels that passes through an electrical device must be analysed to show that the channel has insufficient bandwidth to support a covert data channel for unintended signals.	
2.1.5	TPS-80	Reliability, Availability and Maintainability			
2.1.5.0-1	TPS-2036	The ISS-S and all its subsystems are to be capable of operation without loss of function throughout its expected service life across the full spectrum of environments and operating conditions specified above and defined in Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary.			
2.1.5.1	TPS-2039	Reliability			
2.1.5.1.1	TPS-2043	Mission Reliability			
2.1.5.1.1.0-1	TPS-2044	The ISS-S must have a Mean Time Between Critical Failures (MTBCF) of at least 750 hours (minimum acceptable value), when used as per Volume 2, Annex CB, Appendix 3 Mission Profile and Operation Mode Summary. A critical failure is an event that results in the loss or degradation below normal performance limits of a Critical Function, as defined in Volume 2, Annex CB, Appendix 4 - Failure Definition and Scoring Criteria.	Analysis - and - Test	The Contractor must provide the final system MTBCF value with quantitative evidence that the actual system MTBCF is not less than that specified in the requirement. The MTBCF must be verified by system / LRU level test and analysis, including cables and connectors, based on the usage profile of Volume 2, Annex CB, Appendix 3 Mission Profile and Operation Mode Summary, and failure determination as per Volume 2, Annex CB, Appendix 4 - Failure Definition and Scoring Criteria. The reliability assessment of the MTBCF	No

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				<p>must identify any limitations of the assessment, their effects on the MTBCF estimate, and any inferences on the requirement compliance. The confidence interval of the estimate must be provided. Any potential RAM related problem areas or issues associated with the Contractor's solution, such as cabling and connector durability under realistic field use, must be identified, its impact on the MTBCF assessed, and failure mitigation solutions and corrective action plans described.</p> <p>The above requirements apply equally for any Non-developmental or COTS/MOTS products making up part or all of the system.</p>	
2.1.5.1.2	TPS-2048	Basic Reliability			
2.1.5.1.2.0-1	TPS-2049	The ISS-S must have a Mean Time Between Failure (MTBF) of at least 500 hours (minimum acceptable value), when used as per Volume 2, Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary. A failure is defined as the inability of the ISS-S to perform within previously specified limits or an intended function. In the determination of the MTBF it includes Critical Function Failures, Essential Function Failures and Non-Essential Function Failures as defined in Volume 2, Annex CB, Appendix 4 - Failure Definition and Scoring Criteria.	Analysis - and - Test	<p>The Contractor must provide the final system MTBF value with quantitative evidence that the actual system MTBF is not less than that specified in the requirement. The MTBF must be verified by system / LRU level test and analyses, including cables and connectors, based on the usage profile of Volume 2, Annex CB, Appendix 3 Mission Profile and Operation Mode Summary, and failure determination as per Volume 2, Annex CB, Appendix 4 - Failure Definition and Scoring Criteria.</p> <p>The reliability assessment of this MTBF must identify any limitations of the</p>	No

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				assessment, their effects on the MTBF estimate, and any inferences on the requirement compliance. The confidence interval of the estimate must also be provided. Any potential RAM related problem areas or issues associated with the Contractor's solution, such as cabling and connector durability under realistic field use, must be identified, its impact on the MTBF assessed, and failure mitigation solutions and corrective action plans described. The above requirements apply equally for any Non-developmental or COTS/MOTS products making up part or all of the system.	
2.1.5.2	TPS-2055	Maintainability			
2.1.5.2.1	TPS-2056	Maintenance Concept			
2.1.5.2.1.0-1	TPS-2057	To maximise the Operational Availability of the ISS-S, repairs are to be conducted as far forward as possible. To achieve this, the maintenance concept is based on the ability to detect and isolate faults (using BIT or other method), and the replacement of subsystems and modules (LRUs - Line Replaceable Units) rather than repair. Refer to Annex CA Appendix 2 Support Concept for details on the overall Maintenance Concept.			
2.1.5.2.1.0-2	TPS-2058	The ISS-S must be designed so that the User can detect, isolate and remove a faulty LRU and replace, configure and check-out the new LRU.	Contractor's Choice	The Contractor must prove that the design supports User detection and isolation of faulty LRUs, and replacement, configuration and check-out of new LRUs.	No
2.1.5.2.2	TPS-2059	Maintainability General Requirements			

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2.1.5.2.2.0-1	TPS-4199	If tools are required to perform ISS-S Operator Maintenance, make emergency repairs or remove and replace an LRU, there must be only one multifunction tool to perform all of the above tasks.	Demo	The Contractor must prove that the multifunction tool is the only tool required by the ISS-S User to make emergency repairs or remove and replace an LRU.	No
2.1.5.2.2.0-2	TPS-2066	The failure of any ISS-S LRU must not induce or cause damage in another ISS-S LRU.	Contractor's Choice	The Contractor must provide adequate assurances of this requirement through such methods as a FMEA/FMECA or other applicable analyses.	No
2.1.5.2.3	TPS-2069	ISS-S User Maintenance			
2.1.5.2.3.0-1	TPS-2071	ISS-S User maintenance must be limited to system checks, inspections, cleaning and replacement of faulty LRUs.	Contractor's Choice	The Contractor must prove that the ISS-S meets the requirement.	No
2.1.5.2.3.0-2	TPS-2070	ISS-S User maintenance, excluding replacement of faulty LRUs, must not exceed a mean time of 15 minutes per Battlefield Day.	Contractor's Choice	The Contractor must prove that the ISS-S meets the requirement.	No
2.1.5.2.3.0-3	TPS-2072	The ISS-S must not need to be dismantled to conduct system checks and inspection.	Contractor's Choice	The Contractor must prove that the ISS-S meets the requirement.	No
2.1.5.2.3.0-4	TPS-2073	The ISS-S must withstand normal daily cleaning with mild detergent and water without any degradation in operation or reliability.	Contractor's Choice	The Contractor must prove that the ISS-S will withstand daily cleaning with mild detergent and water.	No
2.1.5.2.4	TPS-2076	Mission Service Restoration			
2.1.5.2.4.0-1	TPS-2077	The Maximum Mission Time to Restore System (MaxMTTRSys) by the User must not be greater than 15 minutes at the 90th percentile (based on a log-normal distribution). This includes fault detection and isolation, replacement of the faulty LRU, and confirming repair.	Test	The Contractor must prove that the MaxMTTRSys is not greater than that specified through a Maintainability Demonstration test. Guidance on applicable tests is provided in MIL-HDBK-470A Appendix B.	No
2.1.5.2.4.0-2	TPS-2078	The Maximum Mission Time to Restore Service (MaxMTTRSvc) must not be greater than 30 minutes at the 90th percentile (based on a log-normal distribution). This includes fault detection and isolation, replacement and reconfiguration of the faulty LRU, adjustment, calibration, and checks. Service is considered restored when the	Test	The Contractor must prove that the MaxMTTRSvc is not greater than that specified through a Maintainability Demonstration test. Guidance on applicable tests is provided in MIL-HDBK-470A Appendix B.	No

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		ISS-S node is fully operational and has full data and voice access to the ISS-S network.			
2.1.5.2.5	TPS-2082	Preventive Maintenance			
2.1.5.2.5.0-1	TPS-2083	The ISS-S should not require any preventive maintenance beyond the daily operator checks, inspection and cleaning, and ISS-S Audio Display canalphone replacement.	Analysis	<p>If the ISS-S configuration and preventive maintenance tasks have not changed from P(Bid), no other information is required.</p> <p>Otherwise:</p> <p>The Contractor must describe the required daily operator checks, inspection and cleaning, and Audio Display in-ear standard insert replacement frequency.</p>	No
2.1.5.2.5.0-2	TPS-2084	The ISS-S must not exceed a mean time of 1.5 hours of preventive maintenance per 154 operating hours (weekly) beyond daily operator checks, inspection and cleaning, and ISS-S Audio Display Canalphone replacement.	Analysis	<p>If the ISS-S configuration and preventive maintenance tasks have not changed from P(Bid), no other analysis is required.</p> <p>Otherwise:</p> <p>The Contractor must provide a description of the proposed preventive maintenance tasks, their frequency and times for completion.</p>	No
2.1.5.3	TPS-2085	Built In Test (BIT) and Fault Detection			
2.1.5.3.0-1	TPS-2087	The ISS-S should incorporate embedded Built In Test (BIT) functionality to detect, diagnose and isolate system faults and failures as per Volume 2, Annex CB, Appendix 4 - Failure Definition and Scoring Criteria, and when used as per Volume 2, Annex CB, Appendix 3 Mission Profile and Operation Mode Summary.	Analysis - and - Demo	<p>Analysis - If the ISS-S configuration has not changed from P(Bid), no other analysis is required.</p> <p>Otherwise:</p> <p>The Contractor must update the analysis provided at bid time.</p>	No

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				<p>In addition to the analysis, the Contractor must provide a demonstration.</p> <p>Demo - The Contractor must demonstrate the BIT coverage, initiation, obtrusiveness, reporting, suppression and logging capabilities, and prove that they function as described in the analysis and in the design documentation.</p> <p>The demonstration must prove that the ISS-S's Built In Test (BIT) functionality can detect, diagnose and isolate system faults and failures as per Annex CB, Appendix 4 - Failure Definition and Scoring Criteria, when used as per Annex CB, Appendix 3 Mission Profile and Operation Mode Summary.</p>	
2.1.5.4	TPS-2377	Software Fault Recovery			
2.1.5.4.0-1	TPS-2378	The ISS-S should monitor software application operations for faults and failures.	Contractor's Choice	The Contractor must provide evidence that the ISS-S software can detect software failures.	No
2.1.5.4.0-2	TPS-2380	The ISS-S should allow the user to restart applications.	Demo	The Contractor must demonstrate that the ISS-S software applications can be restarted.	No
2.1.5.5	TPS-2117	Service Life			
2.1.5.5.0-1	TPS-2119	The operation, reliability and maintainability of the ISS-S, excluding ISS Batteries and ISS-ES Internal Batteries, must not be degraded as a result of being transported by land, sea or air, or by storage for up to 8 years under the Basic climatic conditions defined in Volume 2, Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary.	Contractor's Choice	The Contractor must prove that the operation, reliability and maintainability of the ISS-S, excluding ISS Batteries and ISS-ES Internal Batteries, will not be degraded as a result of being transported by land, sea or air, or by storage for up to 8 years under the Basic climatic conditions defined in Volume 2,	No

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				Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary.	
2.2	TPS-74	Subsystem Functional Requirements			
2.2.1	TPS-5341	Modular Load Carriage System			
2.2.1.1	TPS-5343	ISS MLCS Platform			
2.2.1.1.0-1	TPS-5373	The ISS MLCS Platform, including any augmentation required to allow for the ISS-ES installation and cable/wire routing, must be designed and built in accordance with Annex CB, Appendix 7, MLCS Platform TDP.	Inspection	The Contractor must design and build the ISS MLCS Platform in accordance with Annex CB, Appendix 7, MLCS Platform TDP. Compliance to this requirement will be verified by DND in accordance with the instructions and procedures defined in Section 2 of Annex CB, Appendix 12 - MLCS Verification and QC Requirements.	No
2.2.1.1.0-2	TPS-5380	The ISS MLCS Platform must be provided in two different sizes; medium and small, as per the TDP found in Annex CB, Appendix 7, MLCS Platform TDP.	Inspection	The Contractor must show that the ISS MLCS Platform is provided in both medium and small sizes, as per Annex CB, Appendix 7, MLCS Platform TDP.	No
2.2.1.2	TPS-3471	ISS MLCS Pouches			
2.2.1.2.0-1	TPS-5381	The ISS MLCS Pouches must be designed and built in accordance with Annex CB, Appendix 8, ISS Generic Pouches TDP.	Inspection	The Contractor must design and build the ISS MLCS Pouches in accordance with Annex CB, Appendix 8, MLCS Generic Pouches TDP. Compliance to this requirement will be verified by DND in accordance with the instructions and procedures defined in Section 3 of Annex CB, Appendix 12 - MLCS Verification and QC Requirements.	No
2.2.1.3	TPS-5441	ISS MLCS Load and Fit			
2.2.1.3.0-1	TPS-5430	An ISS MLCS Pouch must be provided with every ISS-S physical device that is not secured directly on the ISS MLCS Platform.	Contractor's Choice	The Contractor must prove that every ISS-S physical device that is not secured directly to the ISS MLCS Platform is accompanied with an ISS MLCS Pouch.	No

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2.2.1.3.0-2	TPS-5431	Every ISS-S physical device must be secured on the User in one of the following ways: Secured directly within or upon the ISS MLCS Platform; or <ul style="list-style-type: none"> • Inserted in an ISS MLCS Pouch which is secured on the ISS MLCS Platform; or • Inserted in an ISS MLCS Pouch which is secured on a Combat Pouch with PALS exterior; or • Inserted in an ISS MLCS Pouch which is secured under a Combat Pouch; or • Inserted in an ISS MLCS Pouch which is secured on another ISS MLCS Pouch with PALS exterior. 	Demo	The Contractor must prove that the ISS-S physical devices are secured to the ISS MLCS Platform as per the requirement.	No
2.2.1.3.0-3	TPS-5432	For all four (4) roles defined in Annex CB, Appendix 9 - Conceptual Load, once the Combat Pouches for the role and the complete ISS-S is secured on the ISS MLCS Platform, the User must have access to the contents of all the Combat Pouches without having to move or remove any pouch or physical device.	Demo	The Contractor must demonstrate that for all roles identified in Appendix 9 - Conceptual Load, the User has access to the contents of all the Combat Pouches, as per the requirement.	No
2.2.1.3.0-4	TPS-5433	For all four (4) roles defined in Annex CB, Appendix 9 - Conceptual Load, once the Combat Pouches for the role and the complete ISS-S is secured on the ISS MLCS Platform, one shoulder of the MLCS Platform must remain clear for weapon butt placement.	Demo	The Contractor must demonstrate that for all roles identified in Appendix 9 - Conceptual Load, one shoulder of the MLCS Platform remains clear for weapon butt placement.	No
2.2.1.3.0-5	TPS-5435	All Combat Ammunition Pouches should remain on the waistline, as per Volume 2, Annex CB, Appendix 9 - Conceptual Load.	Demo	The Contractor must demonstrate that for all roles identified in Volume 2, Annex CB, Appendix 9 - Conceptual Load, every Combat Ammunition Pouch remains on the waistline when wearing the ISS-S.	No
2.2.1.3.0-6	TPS-5434	The Combat Frag Grenade Pouches and Smoke Grenade Pouches should remain on the waistline, as per Volume 2, Annex CB, Appendix 9 - Conceptual Load.	Demo	The Contractor must demonstrate that for all roles identified in Volume 2, Annex CB, Appendix 9 - Conceptual Load, the Combat Frag Grenade Pouches and	No

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				Smoke Grenade Pouches remain on the waistline when wearing the ISS-S.	
2.2.1.3.0-7	TPS-5436	The two (2) Combat 200 Round Ammunition Pouches worn by the C9 Gunner must remain on the waistline, at the position shown in Annex CB, Appendix 9 - Conceptual Load.	Demo	The Contractor must demonstrate that for the C9 Gunner role identified in Appendix 9 - Conceptual Load, the two (2) Combat 200 Round Ammunition Pouches remain on the waistline when wearing the ISS-S.	No
2.2.1.3.0-8	TPS-5437	The Utility Hydration Cover must remain at the position shown in Annex CB, Appendix 9 - Conceptual Load.	Demo	The Contractor must demonstrate that for all roles identified in Appendix 9 - Conceptual Load, the Utility Hydration Cover remains at the position shown in the Appendix.	No
2.2.1.3.0-9	TPS-5439	ISS MLCS Pouches and ISS physical devices must not be secured to the Combat First Aid Medic pouch.	Demo	The Contractor must demonstrate that there are no ISS MLCS Pouches or ISS physical devices secured to the Combat First Aid Medic Pouch.	No
2.2.1.3.0-10	TPS-5440	The AN/PRC-152 Radio Pouch must be attached at chest height or higher, on the front or on the back of the ISS MLCS Platform.	Demo	The Contractor must demonstrate that the AN/PRC-152 radio can operate as intended with the ISS-S, while the AN/PRC-152 Radio Pouch is attached as per the requirement.	No
2.2.1.3.0-11	TPS-5366	All ISS-S requirements within this specification must be met while the ISS-S is secured to the small MLCS Platform worn by the soldier and while the ISS-S is secured to the medium MLCS Platform worn by the soldier, for all four (4) roles described in Annex CB, Appendix 9 - Conceptual Load.	Contractor's Choice	The Contractor must prove that all requirements found in this TPS are met, as per the MLCS Platform sizes and the roles found in Annex CB, Appendix 9 - Conceptual Load, as per the requirement.	No
2.2.2	TPS-87	Battle Management System			
2.2.2.0-1	TPS-4792	The Battle Management System Performance Specifications include all the hardware specifications related to the data storage, processing unit and displays included in the ISS-S.			

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		These specifications also include all the Battle Management software capabilities.			
2.2.2.1	TPS-2478	Tactical User Interface			
2.2.2.1.1	TPS-5354	General			
2.2.2.1.1.0-1	TPS-2483	The ISS-S must include a Tactical User Interface.	Inspection	If the ISS-S Tactical User Interface has not changed from P(Bid), no other inspection is required. Otherwise: The Contractor must show that a Tactical User Interface is included as part of its ISS-S solution.	No
2.2.2.1.1.0-2	TPS-2482	The Tactical User Interface must not be head or helmet mounted.	Inspection	If the ISS-S Tactical User Interface mounting method has not changed from P(Bid), no other inspection is required. Otherwise: The Contractor must show where the Tactical User Interface is to be worn and demonstrate that it is not to be worn on the head or helmet.	No
2.2.2.1.1.0-3	TPS-2507	The Tactical User Interface must have a control to turn off the display without shutting down the ISS-S.	Demo	If the ISS-S Tactical User Interface has not changed from P(Bid), no other inspection is required. Otherwise: The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.1.0-4	TPS-5218	The Tactical User Interface must allow the control and display of all supported Battle Management Software functions included in section TPS-5125.	Contractor's Choice	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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2.2.2.1.2	TPS-2480	Resolution			
2.2.2.1.2.0-1	TPS-2488	The Tactical User Interface display must support a minimum resolution of 100 pixels per inch (PPI), both horizontally and vertically.	Contractor's Choice	The Contractor must provide proof that he meets this requirement.	No
2.2.2.1.2.0-2	TPS-2489	The Tactical User Interface display should support a resolution of more than 100 pixels per inch (PPI), both horizontally and vertically.	Contractor's Choice	The Contractor must provide proof that he meets this requirement as proposed at bid time.	No
2.2.2.1.3	TPS-465	Luminance			
2.2.2.1.3.0-1	TPS-5347	The Tactical User Interface display maximum luminance level must be at least 300 cd/m2.	Contractor's Choice	The Contractor must prove that the Tactical UI display can operate with a luminance of at least 300cd/m2.	No
2.2.2.1.3.0-2	TPS-5405	The Tactical User Interface display minimum luminance level must be 1 cd/m2 or less.	Contractor's Choice	The Contractor must prove that the Tactical UI display can operate with a luminance of 1cd/m2 or less.	No
2.2.2.1.3.0-3	TPS-5385	The ISS-S User should have the ability to limit the Tactical User Interface display luminance output to the spectral range of 450 to 525 nm for night operations.	Contractor's Choice	The Contractor must prove that the ISS-S User has the ability to limit the Tactical User Interface display luminance output to the spectral range of 450 to 525 nm.	No
2.2.2.1.3.0-4	TPS-517	The Tactical User Interface display luminance must be adjustable by the User using a variable control, over the full range of supported luminance levels (i.e. dimmest to brightest), with one of the following control characteristics: • A control that provides at least five (5) discrete steps; or • An infinitely variable control.	Demo	The Contractor must demonstrate that the ISS-S Tactical User Interface display luminance can be adjusted by the User as per the requirement.	No
2.2.2.1.3.0-5	TPS-5348	The Tactical User Interface display should provide a low-luminance setting control that is variable by the User across the luminance range of 1 cd/m2 to the full off position.	Contractor's Choice	The Contractor must prove that the Tactical User Interface display luminance can be adjusted from 1 cd/m2 to the full off position.	No
2.2.2.1.3.0-6	TPS-5219	The Tactical User Interface display luminance should adjust to ambient lighting conditions without human intervention, which is to be overridable by the manual variable control described in TPS-517.	Demo	The Contractor must demonstrate that the ISS-S Tactical User Interface display luminance can adjust automatically. The demonstration must also show that the	No

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				ISS-S Tactical User Interface display luminance control can be switched between "manual" mode and "automatic" mode.	
2.2.2.1.4	TPS-2545	Text Entry Capability			
2.2.2.1.4.0-1	TPS-5252	A hard keyboard or a software keyboard are both acceptable solutions for the Text Entry Capability.			
2.2.2.1.4.0-2	TPS-2546	The Tactical User Interface must include a Text Entry capability.	Demo	If the ISS-S Text Entry capability has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate the method used for text entry.	No
2.2.2.1.4.0-3	TPS-4099	If a hard keyboard solution is provided for the Text Entry capability, it must be integrated in the same casing as the display.	Inspection	If the hard keyboard solution has not changed from P(Bid), no other inspections are required. Otherwise: If a hard keyboard is still used, the Contractor must show that the hard keyboard is integrated in the same casing as the display.	No
2.2.2.1.4.0-4	TPS-2551	The Text Entry capability must allow text input to the Battle Management Software.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.4.0-5	TPS-2547	The Text Entry capability should respect the QWERTY layout.	Inspection	The Contractor must show that the keyboard has a QWERTY layout.	No
2.2.2.1.4.0-6	TPS-2548	The Text Entry capability should include all 94 ASCII printable characters, where all lowercase alphanumeric characters are accessible using a single keystroke.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.4.0-7	TPS-4104	The Text Entry capability must provide feedback to	Demo	The Contractor must demonstrate that	No

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		the ISS-S User each time a character is selected.		the ISS-S meets this requirement.	
2.2.2.1.5	TPS-471	Touch Screen Interface			
2.2.2.1.5.0-1	TPS-3930	The Tactical User Interface must include a Touch Screen interface.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.5.0-2	TPS-565	The Touch Screen must allow the ISS-S User to interact with the Battle Management Software.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.5.0-3	TPS-2393	The Touch Screen must allow the ISS-S User to interact with entities, menu items and locations on the map by pointing and selecting them.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.5.0-4	TPS-3110	The Touch Screen should comply with the design criteria standards as prescribed in MIL-STD-1472F, section 5.4.6.3 Positive indication.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.5.0-5	TPS-1462	When displaying the map, the Touch Screen must allow the ISS-S User to select a point on the ground and generate a Military Grid Reference System (MGRS) 10 figure grid reference with UTM map reference sheet for this point.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.5.0-6	TPS-1919	The Touch Screen must be used for any software function that requires the ISS-S User to provide input or create entities on the map.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.5.0-7	TPS-2542	If the Tactical User Interface is accessible using a stylus pen, it must also be useable without the provided stylus.	Demo	The Contractor must demonstrate that the ISS-S Touch Screen can be operated without a provided stylus.	No
2.2.2.2	TPS-448	Main Processing Unit			
2.2.2.2.0-1	TPS-752	With a specified set of ISS-S functions executed, CPU histograms of utilization averaged over a 10 minute period must not exceed 50% of the total possible utilization.	Test	The Contractor must prove via a test that the ISS-S meets this requirement. The test report must show that the average CPU utilization over a 10 minute period does not exceed 50% of total possible utilization. Events to be integrated in the test must include: • 5 voice transmissions of 10 seconds each, 10 voice receptions of 10 seconds each;	No

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				<ul style="list-style-type: none"> • Blue PA (5 second report rate within a 30 node network); • transmission and reception of 500 KB of data; and • Load a map, load a hand drawing with at least 5 elements, load a route with at least 5 waypoints, and add a waypoint. 	
2.2.2.2.0-2	TPS-5221	With a specified set of ISS-S functions executed, volatile memory histograms of utilization averaged over a 10 minute period must not exceed 50% of the total possible utilization.	Test	<p>The Contractor must prove via a test that the ISS-S meets this requirement. The test report must show that the average volatile memory utilization over a 10 minute period does not exceed 50% of total possible utilization. Events to be integrated in the test must include:</p> <ul style="list-style-type: none"> • 5 voice transmissions of 10 seconds each, 10 voice receptions of 10 seconds each; • Blue PA (5 second report rate within a 30 node network); • transmission and reception of 500 KB of data; and • Load a map, load a hand drawing with at least 5 elements, load a route with at least 5 waypoints, and add a waypoint. 	No
2.2.2.2.0-3	TPS-4804	With a specified set of ISS-S functions executed, CPU histograms of utilization averaged over a 10 minute period should use as little CPU resources as possible.	Test	<p>The Contractor must prove via a test that the ISS-S meets this requirement. The test report must show that the average CPU utilization over a 10 minute period does not exceed the utilization claimed at bid. Events to be integrated in the test must include:</p> <ul style="list-style-type: none"> • 5 voice transmissions of 10 seconds each, 10 voice receptions of 10 seconds each; • Blue PA (5 second report rate within a 	No

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				30 node network); • transmission and reception of 500 KB of data; and Load a map, load a hand drawing with at least 5 elements, load a route with at least 5 waypoints, and add a waypoint.	
2.2.2.2.0-4	TPS-5222	With a specified set of ISS-S functions executed, volatile memory histograms of utilization averaged over a 10 minute period should use as little memory resources as possible.	Test	The Contractor must prove via a test that the ISS-S meets this requirement. The test report must show that the average volatile memory utilization over a 10 minute period does not exceed the volatile memory utilization claimed at bid. Events to be integrated in the test must include: • 5 voice transmissions of 10 seconds each, 10 voice receptions of 10 seconds each; • Blue PA (5 second report rate within a 30 node network); • transmission and reception of 500 KB of data; and Load a map, load a hand drawing with at least 5 elements, load a route with at least 5 waypoints, and add a waypoint.	No
2.2.2.2.0-5	TPS-2523	The ISS-S computer hosting the BMS application must go from a completely turned off state to a state where BMS applications can be accessed (cold start) in 120 seconds or less, excluding the time required by the User to enter his log-in information.	Test	If the ISS-S computer hosting the BMS application and the BMS Software have not changed from P(Bid), no other test is required. Otherwise: The Contractor must perform a test that proves that the ISS-S computer hosting the BMS application goes from a completely turned-off state to a normal	No

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				operational state. The test starts when the ISS-S computer hosting the BMS application is turned on, and the test ends when the User is able to load a map and interact with the map. The time for the User to log-in to the ISS-S computer is excluded from the test.	
2.2.2.3	TPS-454	Main Data Storage			
2.2.2.3.0-1	TPS-5504	It is recognized that the Main Data Storage does not have to be fixed or embedded. It can be augmented with a secondary storage unit.			
2.2.2.3.0-2	TPS-1466	The ISS-S must have a Main Data Storage where data at rest and applications are stored to be accessible for use.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.3.0-3	TPS-2511	The ISS-S Main Data Storage must have enough data storage to retain 8 GB of data. The storage used for applications is excluded.	Contractor's Choice	The Contractor must provide proof that the ISS-S Main data storage has 8 GB of data storage available excluding storage used for applications. The proof must include the size of the storage device used and the actual storage space required for all the ISS-S software applications.	No
2.2.2.3.0-4	TPS-2512	The ISS-S Main Data Storage should have enough data storage to retain more than 8 GB of data, storage used for applications excluded.	Contractor's Choice	The Contractor must provide proof that the ISS-S Main data storage has the available data storage claimed at bid, excluding storage used for applications. The proof must include the size of the storage device used and the actual storage space required for all the ISS-S software applications.	No
2.2.2.3.0-5	TPS-2691	Any unstructured data must be saved in separate files that the ISS-S User can select, open, delete and exchange.	Demo	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.3.0-6	TPS-675	The ISS-S User must be able to save any amount	Contractor's	The Contractor must prove that the ISS-	No

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		of files and entities, of all types supported by the ISS-S, on the ISS-S Main Data Storage as long as there is storage space available.	Choice	S meets this requirement.	
2.2.2.4	TPS-453	External Data Storage Device			
2.2.2.4.0-1	TPS-1351	The ISS-S must have an External Data Storage Device that can be removed from the ISS-S and connected to other ISS-S. The External Data Storage Device is not required to meet the following requirements: <ul style="list-style-type: none"> - All requirements of section TPS-78 Environmental; - TPS-4983; - TPS-2884; and - TPS-4052. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.4.0-2	TPS-5223	The ISS-S must have an External Data Storage Device that can be removed from the ISS-S and connected to an in-service CF-31 laptop.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.4.0-3	TPS-5463	Once configured, the ISS-S must operate normally when the External Data Storage Device is not connected to the ISS-S.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.4.0-4	TPS-574	The ISS-S User must be able to transfer the following data between the Main Data Storage and External Data Storage Device: <ul style="list-style-type: none"> • TPS-1921 Map Formats; • TPS-399 Routes; and • TPS-1721 Hand Drawings. 	Demo	If the ISS-S External Data Storage Device has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate how the ISS-S meets this requirement by transferring a least two maps, two routes and two hand drawings inclusively between the Main data storage and External Data Storage Device. Each item can be transferred separately.	No

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2.2.2.4.0-5	TPS-4935	The SEP should have the capability to transfer Maps between the SEP-Suite and External Data Storage Devices.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.4.0-6	TPS-2504	The External Data Storage Device must be commercially available.	Contractor's Choice	The Contractor must prove that the External Data Storage Device can be purchased from at least 3 different independent manufacturers.	No
2.2.2.4.0-7	TPS-758	The External Data Storage Device must have enough data storage to retain 4 GB of information.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.4.0-8	TPS-760	The External Data Storage Device should have enough data storage to retain more than 4 GB of information.	Contractor's Choice	The Contractor must prove that the External Data Storage Device is of the claimed size.	No
2.2.2.4.0-9	TPS-1353	The ISS-S should display download percentage completion status when transferring data between the Main Data Storage and the External Data Storage Device.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.4.0-10	TPS-2503	The External Data Storage Device must be a different device than the Main Data Storage.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.5	TPS-5125	Battle Management Software			
2.2.2.5.1	TPS-5355	General			
2.2.2.5.1.0-1	TPS-1350	The ISS-S Battle Management Software must run on the ISS-S computer and use an Operating System that is commercially available.	Contractor's Choice	If the ISS-S Operating System has not changed from P(Bid), no other proof is required. Otherwise: The Contractor must prove that the Operating System is not be a unique solution for ISS-S and is used in at least 3 other systems provided by different solution providers.	No
2.2.2.5.1.0-2	TPS-5224	It is recognized that some functions of the BMS Software are not going to be available as per the nature of CF-31 laptops (e.g. Comms, Navigation,			

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2.2.2.5.1.0-3	TPS-5126	<p>Touch Screen, CORAL-CR-C interfaces, etc...).</p> <p>The ISS-S Battle Management Software must function on an in-service CF-31 laptop, when operating with Windows XP and when operating with Windows 7, and support all Mandatory requirements below and all Rated requirements below that are provided on the ISS-S BMS:</p> <ul style="list-style-type: none"> - TPS-427 Maps; - TPS-2947 Coordinate Reference Systems; - TPS-401 Bearing; - TPS-402 Distance Measurement; - TPS-399 Routes; - TPS-1721 Hand Drawing; - TPS-4819 Quick Symbols; - TPS-1990 Enemy, Friendly, Unknown, Neutral Symbols; - TPS-2012 Tactical Graphics; - TPS-366 Intervisibility; - TPS-2395 Time Appreciation tool; and - TPS-2530 Overlays; <p>and with the following exceptions:</p> <ul style="list-style-type: none"> - capabilities that require over-the-air data exchange are excluded; - capabilities that require a GPS receiver or a bearing indicator are excluded; and - references to ISS-S Main Data Storage is to be interpreted as the CF-31 hard drive. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.1.0-4	TPS-5127	The ISS-S must support information exchange of all ISS-S data between an in-service CF-31 laptop and an ISS-S computer using the External Data Storage Device.	Demo	<p>The Contractor must demonstrate that the following data types can be exchanged between the ISS-S computer and the CF-31 laptop:</p> <ul style="list-style-type: none"> • Routes; • Hand Drawing; • Quick Symbols; • Enemy, Friendly, Unknown and Neutral 	No

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				entities (if provided); • Tactical Graphics (if provided); • Graphical Plans (if provided); • Time Appreciation Tables (if provided); • Imagery (if provided); and • Text Documents (if provided).	
2.2.2.5.2	TPS-427	Maps			
2.2.2.5.2.1	TPS-5356	General			
2.2.2.5.2.1.0-1	TPS-2440	The ISS-S must have a Map display capability.	Demo	The Contractor must demonstrate that a Map Display capability is present.	No
2.2.2.5.2.1.0-2	TPS-3936	The ISS-S must support map geo-referencing.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.2.1.0-3	TPS-4109	The Map display capability must support the display of grid lines.	Demo	If the ISS-S Map Display capability has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate that grid lines are displayed whenever maps are displayed using the Tactical User Interface.	No
2.2.2.5.2.1.0-4	TPS-5400	The ISS-S Map display capability must support the details included in the supported map formats specified in TPS-1921 either by: • simultaneously displaying, as map overlays, combinations of raster maps, vector maps and DTED elevation models of an area of interest; or • tailoring a custom map with the SEP-Suite using combinations of raster maps, vector maps and DTED elevation models of an area of interest as described in TPS-5466 and displaying the resulting map.	Demo	The Contractor must demonstrate that the ISS-S User is able to display simultaneously all the elements included in variations of the map formats specified in TPS-1921. The Contractor will do so using one of the following scenarios: - by loading on the ISS-S Map Display a raster map, a vector map and a DTED elevation model of a given area and displaying the maps; or - by using the SEP-Suite to tailor a map using a raster map, a vector map and a	No

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				DTED elevation model of a given area and the resulting map is to be distributed to an ISS-S and displayed by the ISS-S Map Display. In both cases, the Contractor must demonstrate that the level of details of the original maps are retained when displaying the map.	
2.2.2.5.2.1.0-5	TPS-1343	Based on the calculation to meet requirement TPS-582, the ISS-S User must be able to display an indicator showing the True North whenever the map is displayed.	Contractor's Choice	The Contractor must demonstrate that an indicator showing the true north can be shown whenever a map is displayed. The ISS-S must offer the option of activating or deactivating the indicator. True north indicator is required as opposed to magnetic north. The Contractor must prove that the indicator meets the required performance from TPS-582.	No
2.2.2.5.2.2	TPS-1921	Formats			
2.2.2.5.2.2.0-1	TPS-731	The Map display capability must support and display, Compressed ARC Digitized Raster Graphics (CADRG), GeoTIFF and GeoPDF, either by: • Supporting and Display the above map formats in their native format; or • Supporting and Displaying a custom map that includes the information from the above formats as described in TPS-5466.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.2.2.0-2	TPS-4813	The Map Display capability should support and display National Imagery Transmission Format (NITF, MIL-STD-2500B) and NATO Secondary Image Format (NSIF, STANAG 4545) either by: • Supporting and Display the above map formats in their native format; or • Supporting and Displaying a custom map that	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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		includes the information from the above formats as described in TPS-5466.			
2.2.2.5.2.2.0-3	TPS-732	The Map Display capability must support and display Esri Shapefiles and Vector Product Format (VPF) either by: <ul style="list-style-type: none"> • Supporting and Display the above map formats in their native format; or • Supporting and Displaying a custom map that includes the information from the above formats as described in TPS-5466. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.2.2.0-4	TPS-733	The Map Display capability must support the Digital Terrain Elevation Data (DTED) level 0, 1 and 2 model for terrain elevation either by: <ul style="list-style-type: none"> • Supporting and Display the above map formats in their native format; or • Supporting and Displaying a custom map that includes the information from the above formats as described in TPS-5466. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.2.3	TPS-432	Maps functions			
2.2.2.5.2.3.1	TPS-433	Zoom			
2.2.2.5.2.3.1.0-1	TPS-1713	The Map display capability must allow zooming in and out on the map.	Demo	The Contractor must demonstrate that a zooming function, in and out, can be performed while using any supported map formats.	No
2.2.2.5.2.3.1.0-2	TPS-553	The zooming functionality must provide sufficient zooming such that an area of 10000 square meters or less makes maximum use of the map display.	Demo	If the ISS-S configuration has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate that an area of 10000 square meters or less	No

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				can be shown making maximum use of the map display using the zooming functionality.	
2.2.2.5.2.3.1.0-3	TPS-4794	The zooming functionality must allow an ISS-S User to clearly distinguish a minimum of eight (8) entities distributed within a square area of 10000 square metres.	Demo	The Contractor must demonstrate that 8 entities loaded within an area of 10000 square meters are clearly distinguishable.	No
2.2.2.5.2.3.1.0-4	TPS-2692	The zooming functionality must provide sufficient zooming out so that it is possible to display a map area of at least 225 square kilometres.	Demo	If the ISS-S configuration has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate that the zooming out functionality can display an area of at least 225 square kilometres.	No
2.2.2.5.2.3.1.0-5	TPS-1714	The ISS-S User must be able to display a Graphic Scale on the map that adjusts itself based on the level of zoom.	Demo	If the ISS-S configuration has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate that the scale is present and adjusts itself any area size displayed.	No
2.2.2.5.2.3.1.0-6	TPS-747	When zooming in and out, the Map display functionality should switch automatically between maps of different ratios, when they are available, according to the zoom being displayed.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.5.2.3.2	TPS-434	Map orientation			
2.2.2.5.2.3.2.0-1	TPS-1463	By default, the Map display functionality must display maps oriented with the North facing up on the screen.	Demo	If the ISS-S configuration has not changed from P(Bid), no other demonstration is required.	No

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				Otherwise: The Contractor must demonstrate by loading 3 different maps and showing that the maps are oriented with the North facing up on the screen.	
2.2.2.5.2.3.2.0-2	TPS-748	As a navigation default setting, the Map display functionality must keep the user icon centered with respect to the map display, with the option to change the setting such that the map is fixed and the user icon moves with respect to the map display.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.2.3.2.0-3	TPS-1464	When using the Map display functionality, the ISS-S User should be able to orient the map in any direction.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.2.3.2.0-4	TPS-608	The Map display functionality should include a user selected option to have the map orientation continuously adjust itself to have the bearing of the user facing up on the display, with the following characteristics: <ul style="list-style-type: none"> • The rotation of the map is made by steps of 10 degrees or less; • The bearing is calculated using the direction of travel of the User when he is travelling; • The bearing is calculated using the facing direction of the User when he is not travelling. 	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.5.2.3.3	TPS-435	Pan			
2.2.2.5.2.3.3.0-1	TPS-750	The map display functionality must have a Pan capability.	Demo	If the ISS-S configuration has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate that	No

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				the User can use the pan function to change the map area being displayed.	
2.2.2.5.3	TPS-365	Navigation			
2.2.2.5.3.1	TPS-5464	General			
2.2.2.5.3.1.0-1	TPS-5465	The ISS-S User must be able to activate a route in order to navigate along that route.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.1.0-2	TPS-2949	When a User is navigating along an active route, the ISS-S User should be able to display the Estimated Time of Arrival to the last waypoint of the route.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.1.0-3	TPS-5112	The ISS-S should provide a bread crumbs feature, that can be toggle on/off, displaying the real path travelled by the ISS-S node.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.1.0-4	TPS-3046	The symbol indicating the User's own position should also indicate the direction of travel when the user is travelling and the facing direction when the user is standing still.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.1.0-5	TPS-1909	When an ISS-S User is navigating along an active route and deviates more than a determined distance from the route, the ISS-S User should be notified by means of an Advisory signal as described in TPS-5482.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.2	TPS-2947	Coordinate Reference Systems			
2.2.2.5.3.2.0-1	TPS-2948	The ISS-S User must be able to display the MGRS 10 figure grid reference with UTM map reference of any selected waypoints, entities or points on the map.	Demo	If the ISS-S configuration has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate that waypoints, entities (Blue PA, Quick Symbols, Enemy Symbols, etc...) and any points on the map are associated with a MGRS 10 figure grid of the UTM	No

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				map coordinate system whenever these items are displayed on a map.	
2.2.2.5.3.2.0-2	TPS-4788	The ISS-S User should be able to display positional information using either MGRS 10 figure grid reference with UTM map reference or latitude/longitude, in degrees, minutes and seconds map reference system.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.3	TPS-401	Bearing			
2.2.2.5.3.3.0-1	TPS-1338	The ISS-S User must be able to calculate the bearing between two points on a map.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.3.0-2	TPS-2364	The ISS-S User must be able to display the bearing of his/her direction of travel and his/her direction faced while standing still.	Demo	If the ISS-S configuration has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate that the ISS-S displays the bearing information faced by the User for both when he/she is standing still and when he/she is travelling, including transitions between standing still and moving.	No
2.2.2.5.3.3.0-3	TPS-1339	The ISS-S User must be able to display the following information on the map: 1) The bearing between two points selected by the User; 2) The bearing currently faced by the User; 3) When the User is travelling along a predefined route, the bearing from the User to the next waypoint; 4) When the User is travelling along a predefined route, the bearing to any waypoint the User selects.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.3.0-4	TPS-1340	The ISS-S User must be able to display bearing	Demo	The Contractor must demonstrate that	No

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		information either in degrees or mils.		the ISS-S meets this requirement.	
2.2.2.5.3.3.0-5	TPS-5110	The ISS-S User should be able to display bearing information in degrees and in mils.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.4	TPS-1342	On-screen Compass			
2.2.2.5.3.4.0-1	TPS-5379	The ISS-S must include an integrated electronic compass.	Demo	If the ISS-S configuration has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.5	TPS-402	Distance Measurement			
2.2.2.5.3.5.0-1	TPS-715	The ISS-S must include a Distance Measurement function.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.5.0-2	TPS-716	Using the Distance Measurement function, the ISS-S User must be able to measure and display the distance along a straight line: 1) between two points selected on the map; 2) between the User's location and a selected point on the map; and 3) between the User's location and a selected entity.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.5.0-3	TPS-717	The Distance Measurement function must be available to the User whenever the map is displayed.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.5.0-4	TPS-718	The Distance Measurement function should measure and display automatically the following information: 1) the distance of a Route inputted by the ISS-S User; 2) the distance remaining to the final waypoint of a Route; and 3) the distance travelled along the Route.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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2.2.2.5.3.5.0-5	TPS-719	The ISS-S must display distance information using the International System of units (SI).	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.5.0-6	TPS-5111	The ISS-S User should be able to display distance information in one of the following systems: 1) International System of units (SI); and 2) Imperial.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.4	TPS-421	GUI			
2.2.2.5.4.1	TPS-5357	General			
2.2.2.5.4.1.0-1	TPS-5415	In this section, entities include waypoints, Blue PA data, items on overlays, quick symbols, items of hand drawings, etc... which must be loaded and accessible on the Tactical User Interface. Active entities do not include any files (routes, overlays, etc...) saved on the Main or External Data storage and not opened.			
2.2.2.5.4.2	TPS-2360	Colours			
2.2.2.5.4.2.0-1	TPS-1744	The ISS-S GUI must present a minimum of 256 colour graphics.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.5.5	TPS-4818	Graphical Data Types			
2.2.2.5.5.1	TPS-2539	Blue PA			
2.2.2.5.5.1.0-1	TPS-2585	The ISS-S must have a Blue PA generation functionality that generates a MGRS 10 figure grid reference with UTM map reference indicating the ISS-S own position.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.5.1.0-2	TPS-2596	The ISS-S own position must be based on the information generated by the navigation and positioning functions specified in TPS-96.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-3	TPS-2587	The Blue PA generation functionality must generate a Blue PA message after a configured time interval has passed since the last Blue PA message, without requiring intervention from the User.	Test	The Contractor must prove through testing that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-4	TPS-4820	In addition to the Blue PA messages generated as part of TPS-2587, the Blue PA generation	Test	The Contractor must prove through testing that the ISS-S meets this	No

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		functionality should generate a Blue PA message after the user has travelled a configured distance since the last Blue PA message, without requiring intervention from the User.		requirement.	
2.2.2.5.5.1.0-5	TPS-4836	Blue PA messages must be exchanged over-the-air using the Blue PA rule described in TPS-4182	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-6	TPS-4100	The ISS-S must indicate to the User when Blue PA is unreliable. Information is treated as unreliable if any of the following conditions are met: a) no Blue PA message was received for a predetermined period of time; and b) when the originating node is operating in a GPS-denied or GPS-degraded environment as described in TPS-4101.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	Yes
2.2.2.5.5.1.0-7	TPS-2721	ISS-S nodes for which Blue PA is unreliable, as defined by TPS-4100, must be distinguishable from other nodes and be visibly unique from all other entities shown on the display.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-8	TPS-4101	When the ISS-S detects GPS-denied or a GPS-degraded environment, as defined in TPS-4207 and TPS-5408, an indication must be sent to all nodes on the Blue PA COI.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-9	TPS-2717	By default, the ISS-S must display all ISS-S nodes within the ISS-S Network (via the Blue PA COI).	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.5.1.0-10	TPS-3045	The symbol indicating the User's own position must be different than all other nodes.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-11	TPS-4122	The ISS-S should offer an automatic aggregation mode which automatically displays either Commanders or centre of mass of section and platoon depending on the level of zoom.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-12	TPS-2019	The ISS-S User should be able to view only the Blue PA from ISS-S nodes registered to selected COIs.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-13	TPS-2023	The ISS-S User should be able to display different	Demo	The Contractor must demonstrate that	No

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		COIs according to one of three positional information display modes: centered on the Commander, centre of mass (aggregated), or individual soldier positions.		the ISS-S meets this requirement.	
2.2.2.5.5.1.0-14	TPS-5462	The ISS-S must mutually exchange Blue PA between ten (10) ISS-S within 30 seconds from initiation of the Blue PA function at each ISS-S.	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes. The 30 seconds time interval includes the time to launch any Blue PA viewer.	No
2.2.2.5.5.2	TPS-399	Routes			
2.2.2.5.5.2.0-1	TPS-704	In the following subsection, a Route refers to a series of waypoints linked together, indicating to the user a path he is to follow.			
2.2.2.5.5.2.0-2	TPS-641	The ISS-S User must have the capability to generate and select waypoints on the map.	Demo	The Contractor must demonstrate that the waypoints can be created by selecting points on the map using the Tactical User Interface.	No
2.2.2.5.5.2.0-3	TPS-1691	The ISS-S must include a Route Planning function that allows the ISS-S User to create routes by inputting and linking waypoints together.	Demo	The Contractor must demonstrate that Routes can be created by linking several waypoints using the Tactical User Interface.	No
2.2.2.5.5.2.0-4	TPS-5091	The Route planning function must support Routes of at least 200 waypoints.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.2.0-5	TPS-707	When using the Route planning function, the ISS-S User must be able to modify Routes by deleting or adding waypoints at the end of the Route.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.2.0-6	TPS-1973	When using the Route planning function, the ISS-	Demo	The Contractor must demonstrate that	No

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		S User should be able to modify Routes by selecting, modifying, deleting or adding waypoints anywhere in the Route, whether it is at the beginning, the end or between two waypoints.		the ISS-S meets this requirement.	
2.2.2.5.5.2.0-7	TPS-1692	The ISS-S User must be able to save multiple Routes on the Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S can save at least 10 Routes on the Main Data Storage.	No
2.2.2.5.5.2.0-8	TPS-4155	The ISS-S User must be able to display multiple Routes at the same time.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.2.0-9	TPS-706	When multiple Routes are displayed, the ISS-S User should be able to toggle selected Routes on and off.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.2.0-10	TPS-5113	When multiple Routes are displayed, they must be visually distinguishable from one another.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.2.0-11	TPS-4837	Routes must be exchanged over-the-air using the Manual rule described in TPS-2565	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.2.0-12	TPS-4838	When a Route is exchanged between two ISS-S, the receiving ISS-S User should be able to make modifications to the received Route.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.2.0-13	TPS-4842	When a Route is exchanged between two ISS-S, the receiving ISS-S User should be able to make a copy of the received Route.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3	TPS-1721	Hand Drawing			
2.2.2.5.5.3.0-1	TPS-2708	The ISS-S must support Hand Drawing Graphical data types by allowing the ISS-S User to draft tactical sketches, as per Section 4 of Annex CB, Appendix 10, whenever the map is displayed.	Demo	If the ISS-S Hand Drawing capability has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate that a Hand Drawing function is present. The Contractor must produce the two hand drawings provided in Section 4 of Annex CB, Appendix 10.	Yes

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2.2.2.5.5.3.0-2	TPS-5114	The Hand Drawing capability should support multiple colours.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement and must specify how many colors the ISS-S Hand Drawing capability is supporting.	No
2.2.2.5.5.3.0-3	TPS-1726	The Hand Drawings must be geo-referenced and associated to the map on which they are drawn.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3.0-4	TPS-5502	The ISS-S User must be able to make modifications to a Hand Drawing when creating it and when displaying it.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3.0-5	TPS-5503	The ISS-S User must be able to delete Hand Drawings.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3.0-6	TPS-2610	The ISS-S User must be able to save multiple Hand Drawings on the Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3.0-7	TPS-4160	The ISS-S User must be able to select which Hand Drawings to display from the ones saved on his/her ISS-S.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3.0-8	TPS-4161	The ISS-S User must be able to display multiple Hand Drawings at the same time.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3.0-9	TPS-4843	Hand Drawings, as per Section 4 of Annex CB, Appendix 10, must be exchanged over-the-air using the Manual rule described in TPS-2565.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement by producing the two hand drawings provided in Section 4 of Annex CB, Appendix 10 and having two ISS-S nodes exchange the hand drawings over-the-air.	Yes
2.2.2.5.5.3.0-10	TPS-4844	When a Hand Drawing is exchanged between two ISS-S, the receiving ISS-S User should be able to make modifications to the received Hand Drawing.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3.0-11	TPS-4845	When a Hand Drawing is exchanged between two ISS-S, the receiving ISS-S User should be able to make copies of the received Hand Drawing.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3.0-12	TPS-4878	When multiple Hand Drawings are displayed, the ISS-S User should be able to toggle selected Hand Drawings on and off.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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2.2.2.5.5.4	TPS-4819	Quick Symbols			
2.2.2.5.5.4.0-1	TPS-4822	The ISS-S must support Quick Symbols Graphical data types by allowing the ISS-S User to generate, display and manage the following Quick Symbols: <ul style="list-style-type: none"> • Yellow Circle; • Green Square; • Red Diamond; • Black Triangle. • Blue Rectangle 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.4.0-2	TPS-5409	The ISS-S Quick Symbols must be geo-referenced.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.4.0-3	TPS-4847	Quick Symbols must be exchanged over-the-air using the Automatic rule described in TPS-2562.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.5	TPS-1990	Enemy, Friendly, Unknown and Neutral Symbols			
2.2.2.5.5.5.0-1	TPS-5425	It is expected that the ISS-S User will be able to manually create, display and manage Friendly symbols for those friendly forces not equipped with an ISS-S.			
2.2.2.5.5.5.0-2	TPS-4905	The ISS-S should support Enemy, Friendly, Unknown and Neutral data types by allowing the ISS-S User to create, display and manage the following symbols described in B-GL-334-001/FP-001 whenever the map is displayed: <ul style="list-style-type: none"> • TAM 105.03 UNIT ICONS, section 2 (Unit Icons) • TAM 105.04 EQUIPMENT ICONS, section 2 (Equipment Icons), and • TAM 105.06 IRREGULAR WARFARE 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.5.0-3	TPS-5410	The ISS-S Enemy, Friendly, Unknown and Neutral symbols should be geo-referenced.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.5.0-4	TPS-4113	For presentation purpose, when displaying the symbols specified in TPS-4905, except TAM 105.06 IRREGULAR WARFARE, the ISS-S should use the Friend, Hostile, Unknown and Neutral	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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		affiliation symbols used for Land Units, Land Equipment and Land Installations, presented in B-GL-334-001/FP-001 TAM 105.02, Figure 2.			
2.2.2.5.5.0-5	TPS-2003	When the ISS-S User selects an Enemy, Friendly, Unknown and Neutral symbol on the Map Display, the following fields indicated in B-GL-334-001/FP-001 TAM 105.02, Table 1 "Symbol Modifier Fields" should be accessible and modifiable when required by the ISS-S User: 1) A - Symbol Indicator 2) B - Size Indicator 3) D - Task Force Indicator 4) F - Reinforced or Detached 5) M - Higher Formation 6) S - HQ Indicator / Location Offset Indicator 7) T - Unique Designation	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.0-6	TPS-4866	Symbols should include a free text field accessible and modifiable when required by the ISS-S User in the same way as the fields specified in TPS-2003	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.0-7	TPS-4867	When a User modifies a field indicated in TPS-2003, the ISS-S should modify the graphical representation of the icon according to the placement of modifiers indicated in B-GL-334-001/FP-001 TAM 105.02, Figure 4 "Unit Size Indicators" and Figure 5 "Symbol Modifier Field Positions for Units, Installations and Equipment"	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.0-8	TPS-4110	The ISS-S User should be able to query symbols for additional information by selecting a symbol to bring up an information box next to it.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.0-9	TPS-1993	The ISS-S User should be able to link pictures, images or other files to any Enemy, Friendly, Neutral and Unknown symbol on the map.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.0-10	TPS-1994	The ISS-S User should be able to change an Enemy, Friendly, Neutral and Unknown symbol	Demo	The Contractor must demonstrate how to change the status of an entity (e.g. from	No

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		into another one amongst those four categories by selecting a symbol and making modifications to its parameters.		neutral to enemy) and modify its parameters.	
2.2.2.5.5.0-11	TPS-3904	All Enemy, Friendly, Neutral and Unknown symbols should include the time it was created and time of modifications.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.0-12	TPS-4875	The ISS-S should exchange Enemy, Friendly, Neutral and Unknown symbols over-the-air using the Automatic rule described in TPS-2562.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.0-13	TPS-1998	When the ISS-S User wants to add an Enemy, Friendly, Neutral and Unknown symbol on the map, the ISS-S User should be able to select it from a list that includes every Enemy, Friendly, Neutral and Unknown symbols.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.0-14	TPS-2572	Symbols should be grouped by categories in the list of selectable symbols to ease user selection.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.6	TPS-2012	Tactical Graphics			
2.2.2.5.5.6.0-1	TPS-2600	When displaying the map, the ISS-S should have the capability to create, display and manage the following Tactical Graphics described in B-GL-334-001/FP-001: <ul style="list-style-type: none"> • Advance to contact (page TAM 102-2) • Ambush (page TAM 102-2) • Attack (page TAM 102-2) • Attack by fire (page TAM 102-2) • Block (page TAM 102-2) • Breach (page TAM 102-2) • Bypass (page TAM 102-2) • Canalize (page TAM 102-2) • Capture (page TAM 102-2) • Clear (page TAM 102-3) • Cover (page TAM 102-3) • Disrupt (page TAM 102-4) • Delay (page TAM 102-4) 	Demo	The Contractor must demonstrate that the ISS-S supports Tactical Graphics data types by accessing, creating and displaying Tactical Graphics.	No

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		<ul style="list-style-type: none"> • Deny (page TAM 102-4) • Destroy (page TAM 102-4) • Fix (page TAM 102-6) • Interdict (page TAM 102-6) • Isolate (page TAM 102-6) • Neutralize (page TAM 102-7) • Occupy (page TAM 102-7) • Penetrate (page TAM 102-7) • Relief in Place (page TAM 102-7) • Retain (page TAM 102-7) • Secure (page TAM 102-8) • Seize (page TAM 102-8) • Support by Fire (page TAM 102-8) • Suppress (page TAM 102-8) • Withdraw (page TAM 102-9) • General or Unspecified Command and Control Point (page TAM 105-21) • Coordination point (page TAM 105-21) • Friendly Presence (page TAM 105-22) • Friendly Planned or On Order (page TAM 105-22) • Enemy Known (page TAM 105-22) • Enemy Suspected or Templated (page TAM 105-22) • Observation post (OP) / Outpost (page TAM 105-26) • Friendly Ground Axis of Supporting attack (page TAM 105-29) • Friendly Ground Axis of Main Attack (page TAM 105-29) • Enemy Confirmed (page TAM 105-29) • Obstacle Line (page TAM 105-30) • Anti-tank ditch (page TAM 105-30) • Abatis (page TAM 105-30) • AT minefield (page TAM 105-31) 			

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		<ul style="list-style-type: none"> • AP minefield (page TAM 105-31) • Trip wire (page TAM 105-32) • Bridge or gap (page TAM 105-33) • Double apron fence (page TAM 105-34) • Low wire fence (page TAM 105-34) • High wire fence (page TAM 105-34) • Single concertina (page TAM 105-34) • Double strand concertina (page TAM 105-34) • Point/Single Target (page TAM 105-37) 			
2.2.2.5.5.6.0-2	TPS-5411	The ISS-S Tactical Graphics should be geo-referenced.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.6.0-3	TPS-1944	When displaying the map, the ISS-S User should be able to add text annotation to a point on a map.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.6.0-4	TPS-4942	The ISS-S should exchange Tactical Graphics and text annotation over-the-air using the Automatic rule described in TPS-2562	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.6	TPS-366	Intervisibility			
2.2.2.5.6.0-1	TPS-720	In this subsection, the term Intervisibility refers to the capability to determine and display a full 360 degrees Line Of Sight assessment from a selected point or series of points on a map.			
2.2.2.5.6.0-2	TPS-721	When displaying the map, the ISS-S should include an Intervisibility function which uses DTED level 2 elevation when calculating Line Of Sight.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.6.0-3	TPS-722	When using the Intervisibility function, the ISS-S User should be able to select a point on the map and have the Intervisibility displayed on the map for this point.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.6.0-4	TPS-724	When using the Intervisibility function, the ISS-S User should be able to select multiple points on the map and have the Intervisibility simultaneously displayed on the map for all points.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.7	TPS-3946	Time, clock, daily alarms			
2.2.2.5.7.0-1	TPS-3947	The ISS-S User must be able to display the time	Demo	The Contractor must demonstrate that	No

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		from multiple time zones.		the ISS-S meets this requirement.	
2.2.2.5.7.0-2	TPS-3949	The ISS-S User must be able to set the local time, date and time zone.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.7.0-3	TPS-3950	The ISS-S must provide a stop watch, count down timer and daily alarms.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.8	TPS-2528	Mission Planning Tools			
2.2.2.5.8.1	TPS-2395	Time Appreciation Tool			
2.2.2.5.8.1.0-1	TPS-2398	The ISS-S should include a Time Appreciation Tool which allows the ISS-S User to create, save, load, delete and modify Time Appreciation Tables.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.8.1.0-2	TPS-2399	The Time Appreciation Tables should be based on the format presented in B-GL-332-008/FP-001, section 807.01, Figure 8-1 "Example of a time estimate for a platoon attack".	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.8.1.0-3	TPS-2400	The Time Appreciation Tables should include columns for activity names, time required for the activity and end time for the activity.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.8.1.0-4	TPS-2401	The Time Appreciation Tables should present the User with the current time.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.8.1.0-5	TPS-2402	The Time Appreciation Tool should automatically calculate the end time of each activity and the total time based on the amount of time required for each activities entered by the ISS-S User.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.8.1.0-6	TPS-2404	The Time Appreciation Tool should allow the User to save Time Appreciation Tables in a printable text format.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9	TPS-379	Reports & Returns			
2.2.2.5.9.1	TPS-5397	General			
2.2.2.5.9.1.0-1	TPS-4858	Reports & Returns must be exchanged over-the-air using the Manual rule described in TPS-2565.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9.1.0-2	TPS-1309	The ISS-S should automatically populate all known information to the appropriate field of the Report & Return being generated with the option to change the information entered into a data field by using	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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		the following means: 1) cut/copy/paste; 2) direct entry from the Text Entry Capability if available; 3) selecting an object or location on the map display (where applicable); 4) CORAL-CR-C (where applicable).			
2.2.2.5.9.2	TPS-387	Fire Mission			
2.2.2.5.9.2.0-1	TPS-1325	The ISS-S User must be able to receive, generate, display and manage the pre-formatted Fire Mission including all fields specified in B-GL-334-001/FP-001 SOP 704.08 plus an "Adjustments" and "Altitude" field.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.9.2.0-2	TPS-1326	When a Fire Mission is sent over the air, the ISS-S should provide a way to send updates to the "Adjustments" field to the Fire Mission over the air.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9.2.0-3	TPS-1327	The Battle Management System must use the information provided by the CORAL-CR-C to complete the Fire Mission Report and Return fields whenever the CORAL-CR-C is used to acquire a target.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9.2.0-4	TPS-1328	The ISS-S User must be able to fill the Fire Mission Report "Direction" and "Target Location" fields automatically by selecting a point or an entity on the map.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9.2.0-5	TPS-1329	If the Map display has DTED elevation data for the target location, the ISS-S User should be able to fill the "Altitude" field automatically by selecting a point or an entity on the map.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9.3	TPS-5393	Contact Report			
2.2.2.5.9.3.0-1	TPS-5394	The ISS-S User must be able to receive, generate, display and manage the pre-formatted Contact Report specified in B-GL-334-001/FP-001 SOP 703.04.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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2.2.2.5.9.3.0-2	TPS-2664	The ISS-S must generate a Contact Report when the ISS-S User adds an Enemy symbol on his Tactical User Interface.	Demo	The Contractor must generate a Contact Report by adding an Enemy entity on the map using the Tactical User Interface. The Contact Report should be received by all members of the configured COI.	No
2.2.2.5.9.3.0-3	TPS-2665	The ISS-S must display the appropriate Enemy symbol when receiving a Contact Report, based on the contents of this Contact Report.	Demo	The Contractor must demonstrate that the Enemy entity specified in a Contact Report appears on the map display of all ISS-S Users who received the Contact Report.	No
2.2.2.5.9.4	TPS-2554	Other Supported Reports & Returns			
2.2.2.5.9.4.0-1	TPS-5494	The ISS-S User must be able to receive, generate, display and manage the following pre-formatted, structured Reports & Returns specified in B-GL-334-001/FP-001: CASEVACREQ (702.02) and Situation Report (704.33).	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.9.4.0-2	TPS-1305	The ISS-S User should be able to receive, generate, display and manage the following pre-formatted, structured Reports & Returns specified in B-GL-334-001/FP-001: INCREP (704.02), STRIKEWARN [NUC] (SOP 704.04), NBC 1 to 6 - Biological/Chemical/Nuclear Reports (SOP 704.05), BOMBREP (SOP 704.06), FM.CFF (SOP 704.07), EODINCREP (SOP 704.14), FM.FMC (SOP 704.18), FM.MTO (SOP 704.19), FM.SUB (SOP 704.20), BOMBWARN (SOP 704.22), ROEIMPL (SOP 704.29).	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9.4.0-3	TPS-5395	The ISS-S User should be able to receive, generate, display and manage the following pre-formatted, structured Reports & Returns specified in B-GL-334-001/FP-001: PERSREP (SOP 702.03), COMCAREP (SOP 703.01), INTREP (703.02), PRETECHREP (SOP 703.05), BARREP (SOP 704.10), OBSREP (SOP 704.11), SCATMINORD/WARN/REP (SOP 704.13),	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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		PTLREP (SOP 704.15), EWJAMREP (SOP 704.16), MIJIWARNREP (SOP 704.17), SCATMINREQ (SOP 704.21), DMLORD (SOP 704.23), RTERECCEORD/REP (SOP 704.24), RBTRECCEORD/REP (SOP 704.25), GAPRECCEORD/REP (SOP 704.26), BRDMLRECCEORD/REP (SOP 704.27), MINLAYRECCEORD/MINLAYRECCEREP (SOP 704.28), MINLAYORD/MINLAYREP (SOP 704.28), METREP (SOP 704.32).			
2.2.2.5.9.4.0-4	TPS-5396	The ISS-S User should be able to receive, generate, display and manage the following pre-formatted, structured Reports & Returns specified in B-GL-334-001/FP-001: ARRESREP (SOP 702.01), RFTDEM [PERS] (SOP 702.04), PWPERSREC (702.05), INTSUM (SOP 703.06), Conventional Minefield Intention to Lay (SOP 704.12).	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9.4.1	TPS-388	ADREP			
2.2.2.5.9.4.1.0-1	TPS-2662	The ISS-S User should be able to receive, generate, and manage ADREP Reports & Returns with the following fields: 1) Title (ADREP); 2) Time of delivery; 3) Pickup location; 4) Ammo; 5) POL; 6) Rations; 7) Water; 8) Misc.	Demo	The Contractor must generate and send an ADREP. The Contractor must demonstrate that the received ADREP is saved.	No
2.2.2.5.10	TPS-417	Imagery			
2.2.2.5.10.0-1	TPS-483	The ISS-S should display images with a resolution of 3968x2976 and lower, encoded in the JPEG format.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement. The Contractor must confirm the minimal resolution the ISS-S can display.	Yes

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2.2.2.5.10.0-2	TPS-4124	The ISS-S User should be able to import and display images encoded in a NITF format	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.10.0-3	TPS-3942	The ISS-S User should be able to zoom in and out on a displayed image.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.10.0-4	TPS-3944	The ISS-S User should be able to pan on a displayed image.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.10.0-5	TPS-3943	The ISS-S should scale images such that it can be displayed entirely on the display without the User having to pan to see the full picture.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.10.0-6	TPS-2675	The ISS-S User should be able to save images on the Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.10.0-7	TPS-486	The ISS-S User should be able to annotate pictures and save the annotated pictures.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.10.0-8	TPS-4859	The ISS-S should exchange Images over-the-air using the Manual rule described in TPS-2565	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.10.0-9	TPS-5306	If TPS-4795 is provided, the ISS-S User should be able to display and save the still imagery from the digital camera(s).	Demo	The Contractor must demonstrate that the ISS-S can display the still imagery formats provided by the digital camera, at least one format per supported commercial camera or at least one format from the integrated camera.	No
2.2.2.5.11	TPS-406	Text Messaging			
2.2.2.5.11.0-1	TPS-2420	The ISS-S should have a Text Messaging capability that allows the ISS-S User to type free text messages and send them to one or more other Users.	Demo	The Contractor must create a short text message, select at least three ISS-S Users and send the Text Message. The three ISS-S receiving the text message must confirm the reception of the text message.	Yes
2.2.2.5.11.0-2	TPS-2422	The ISS-S should have the capability to receive and display Text messages.	Demo	The Contractor must demonstrate that the ISS-S Users who are selected as recipients can receive and display text messages.	Yes
2.2.2.5.11.0-3	TPS-1520	When receiving a new Text Message, the ISS-S User should be notified by means of an Advisory	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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		Signal as described in TPS-5482.			
2.2.2.5.11.0-4	TPS-2683	All Text Messages sent or received by the ISS-S should be saved on the Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.11.0-5	TPS-2427	The ISS-S User should be able to delete the sent and received Text Messages.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.11.0-6	TPS-5339	When using the Text Messaging capability, the ISS-S User should be able to attach files to text messages, and to detach files from messages and save them in the Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.11.0-7	TPS-4862	The ISS-S should exchange Text Messages over-the-air using the Manual rule described in TPS-2565	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.12	TPS-2657	Text Documents			
2.2.2.5.12.0-1	TPS-2684	The ISS-S should read and display Text Documents written in the following formats: a) Plain Text, b) RTF (Rich Text Format), c) Portable Document Format (PDF).	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.12.0-2	TPS-2685	The ISS-S User should be able to generate Text Documents in RTF.	Demo	The Contractor must generate a text document and save it to the Main data storage.	No
2.2.2.5.12.0-3	TPS-2689	The ISS-S User should be able to write Orders, Warning Orders, and Frag Orders using Text Documents.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.12.0-4	TPS-2688	The ISS-S User should be able to create, modify and reuse templates when writing Orders, Warning Orders, and Frag Orders.	Demo	The Contractor must load a template or an old version of an Orders document, modify it and save it on the Main data storage.	No
2.2.2.5.12.0-5	TPS-4863	The ISS-S User should be able to save Text Documents on the Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.12.0-6	TPS-4864	The ISS-S should exchange Text Documents over-the-air using the Manual rule described in TPS-2565.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13	TPS-2530	Overlays			

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2.2.2.5.13.0-1	TPS-613	The ISS-S Overlays should allow the ISS-S User to display on the map as overlay separation all the Graphical Data types defined in TPS-4818.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.13.0-2	TPS-5412	The ISS-S Overlays should be geo-referenced.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-3	TPS-2715	The ISS-S Overlays should present and supporting Enemy, Friendly, Unknown and Neutral Symbols and Blue PA using the following Overlay separation: <ul style="list-style-type: none"> • Enemy; • Friendly and Blue PA; and • Neutral and Unknown. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-4	TPS-4879	Different Hand Drawings and Routes should be presented as different ISS-S Overlays.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-5	TPS-2695	The ISS-S User should be able to toggle on or off any ISS-S Overlay.	Demo	The Contractor must load on the display at least four different Graphical data types and display them and hide them in different combinations (1 overlay active with 3 hidden, 2 overlays active with 2 hidden, etc...).	No
2.2.2.5.13.0-6	TPS-4040	When an Overlay is turned on by the ISS-S User, the ISS-S should display all data entities associated to the Overlay.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-7	TPS-4041	When an Overlay is turned off by the User, the ISS-S should not display any data entity associated to the Overlay.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-8	TPS-2696	The ISS-S User should be able to view all available ISS-S Overlays at the same time.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-9	TPS-5488	The ISS-S User should be able to save multiple Overlays on the Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-10	TPS-5489	The ISS-S User should be able to select which Overlays to display from the ones saved on his/her ISS-S.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-11	TPS-5490	The ISS-S should exchange Overlays over-the-air	Demo	The Contractor must demonstrate that	No

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		using the Manual rule described in TPS-2565		the ISS-S meets this requirement.	
2.2.2.5.13.0-12	TPS-5491	When an Overlay is exchanged between two ISS-S, the receiving ISS-S User should be able to make modifications to the received Overlay.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-13	TPS-5492	When an Overlay is exchanged between two ISS-S, the receiving ISS-S User should be able to make copies of the received Overlay.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14	TPS-361	Alarms and Alerts			
2.2.2.5.14.0-1	TPS-4918	Definitions: Warning - A signal that indicates the existence of a hazardous condition requiring immediate action to prevent loss of life, equipment damage, or a service interruption. Caution - A signal that indicates the existence of a condition requiring attention but not immediate action. Advisory - A signal that indicates a safe or normal configuration, condition of performance, or operation of essential equipment or attracts attention and imparts information for routine action purposes.			
2.2.2.5.14.0-2	TPS-5479	The ISS-S should have an Alarms and Alerts capability that allows the ISS-S User to notify and be notified of the existence of conditions requiring different degrees of attention.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.0-3	TPS-4922	Audio alarms for Warning and Caution signals should be readily distinguishable.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.0-4	TPS-3145	The ISS-S should not present more than seven different non-verbal audio signals to the user.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.0-5	TPS-5480	For every Warning signals, the ISS-S should provide the following characteristics and capabilities:	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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		<ul style="list-style-type: none"> - The generation of an audio alarm; - The display of a distinct visual alert on the Tactical User Interface defining the respective Warning signal; - The Warning signal is not configurable by the ISS-S User; and - A self-test for training purpose. 			
2.2.2.5.14.0-6	TPS-5481	<p>For every Caution signals, the ISS-S should provide the following characteristics and capabilities:</p> <ul style="list-style-type: none"> - The generation of an audio alarm; - The display of a distinct visual alert on the Tactical User Interface defining the respective Caution signal; - The Caution signal is configurable by the ISS-S User; and - A self-test for training purposes. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.0-7	TPS-5482	<p>For every Advisory signals, the ISS-S should provide the following characteristics and capabilities:</p> <ul style="list-style-type: none"> - The display of a distinct visual alert on the Tactical User Interface defining the respective Advisory signals; - The Advisory signal is configurable by the ISS-S User; and - A self-test for training purposes. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1	TPS-3966	Emergency Alerts			
2.2.2.5.14.1.0-1	TPS-3968	<p>The ISS-S should have an Emergency Alert capability which allows the ISS-S User to generate the following Emergency Alerts:</p> <ul style="list-style-type: none"> • Imminent Air Attack, • Biological or Chemical attack, • Friendly nuclear strike, • All Clear. 	Demo	The Contractor must generate an Emergency Alert for the four types of Alert specified in this requirement.	No
2.2.2.5.14.1.0-2	TPS-4829	When receiving an Emergency Alert message, the	Demo	The Contractor must demonstrate that	No

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		ISS-S User should be notified by means of a Warning signal as described in TPS-5480.		the ISS-S meets this requirement.	
2.2.2.5.14.1.0-3	TPS-3969	When generating a Friendly nuclear strike Alert, the ISS-S User should have the option of inputting graphically: <ul style="list-style-type: none"> • Location of the strike, • Date-time of the strike, • A circle centred on the entity indicating the Minimum safe distance One, as defined in STANAG 2104, • A circle centred on the entity indicating the Minimum safe distance Two, as defined in STANAG 2104. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.0-4	TPS-3973	When generating a Friendly nuclear strike Alert, the ISS-S User should have the option of attaching text to the Alert.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.0-5	TPS-3971	When generating a Biological or Chemical attack Alert, the ISS-S User should have the option of inputting graphically: <ul style="list-style-type: none"> • The location of the entity, • Date-Time of the attack, • The contour of an area indicating the contaminated zone, • The downwind direction. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.0-6	TPS-3974	When generating a Biological or Chemical attack Alert, the ISS-S User should have the option of attaching text to the Alert.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.0-7	TPS-3970	The Imminent Air Attack Alert should consist of a structured message with the following fields: <ul style="list-style-type: none"> • Date-time of enemy sighting, • Location of observer, • Direction of the enemy, • Free text. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.0-8	TPS-3975	When the ISS-S User generates an Imminent Air	Demo	The Contractor must demonstrate that	No

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		Attack Alert, the Date-time of enemy sighting and location of observer fields should be automatically generated by the ISS-S.		the ISS-S meets this requirement.	
2.2.2.5.14.1.1	TPS-3977	Generation of Emergency Alerts			
2.2.2.5.14.1.1.0-1	TPS-3978	The ISS-S should automatically generate an Alert Message upon creation of any Emergency Alert listed in TPS-3968.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.1.0-2	TPS-3980	All Emergency Alert Messages should be broadcasted automatically to all nodes on the ISS-S Network and take precedence over any other data communications.	Demo	The Contractor must demonstrate that all Nodes of the ISS-S Network are receiving the Emergency Alerts.	No
2.2.2.5.14.1.2	TPS-3982	Reception of Emergency Alerts			
2.2.2.5.14.1.2.0-1	TPS-3983	When receiving an Emergency Alert Message, the ISS-S should generate a dedicated audio Alarm and visual Alert.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.2.0-2	TPS-3984	The ISS-S should not allow the ISS-S User to disable the audio alarm and visual alert associated with an Emergency Alert Message.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.2.0-3	TPS-3987	Reception of an All clear Emergency Alert should remove all Visual Alerts and clear Audio Alarms.	Demo	The Contractor must send an Emergency Alert other than the All Clear Alert. Then, the Contractor must send an All Clear Emergency Alert. The Contractor must demonstrate that ISS-S of the receiving Nodes will generate associated visual alerts and audio alarms that will be removed automatically once the All Clear Emergency Alert is received.	No
2.2.2.5.15	TPS-4835	Data Exchange Capabilities			
2.2.2.5.15.0-1	TPS-4180	The ISS-S must have the capability to send any information associated to the Automatic rule using the Manual rule instead when the ISS-S User decides to resend the information.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.0-2	TPS-4117	The ISS-S should time-stamp every message	Demo	The Contractor must demonstrate that	No

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		being exchanged.		the ISS-S meets this requirement.	
2.2.2.5.15.0-3	TPS-4118	The ISS-S User should be able to display the message time-stamp.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.1	TPS-2561	Rules			
2.2.2.5.15.1.0-1	TPS-2726	The ISS-S must support the following Rules: • Automatic; • Blue PA; • Manual.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.1.1	TPS-2562	Automatic			
2.2.2.5.15.1.1.0-1	TPS-2727	When an ISS-S User sends information based on the "Automatic" Rule, the information must be sent to the configured COI(s) as soon as the information entry is completed and confirmed.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.1.2	TPS-4182	Blue PA			
2.2.2.5.15.1.2.0-1	TPS-4181	Blue PA must be sent automatically to the Blue PA COI.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.1.3	TPS-2565	Manual			
2.2.2.5.15.1.3.0-1	TPS-1685	When an ISS-S User sends information based on the "Manual" Rule, the system must present to him the possible COIs and recipients list so that the User can select one or more recipients from the lists.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.1.3.0-2	TPS-5487	When an ISS-S User receives information from another ISS-S User, the ISS-S User must be able to forward the information to members of a COI or to one or more ISS-S Users.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.1.3.0-3	TPS-2736	The information must be sent to all Users selected recipients list.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.2	TPS-1890	Address Lists			
2.2.2.5.15.2.0-1	TPS-1891	The ISS-S should have an Address List functionality that provides a list of all ISS-S Users with their ORBAT positions.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.2.0-2	TPS-1893	The Address List should include only the Nodes detected by the Presence service specified in	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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		TPS-2939.			
2.2.2.5.15.2.0-3	TPS-2943	The Address list should present the ORBAT Position of the detected nodes.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.2.0-4	TPS-2944	The Address list should group ORBAT positions by platoon, section and detachments.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.2.0-5	TPS-1894	When the ISS-S User sends a message, file or information other than Blue PA, the Address List functionality should allow him/her to select the individual Users or group of Users to whom the message is to be sent.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.2.1	TPS-2939	Presence service			
2.2.2.5.15.2.1.0-1	TPS-5142	The Presence Service gives the opportunity to the ISS-S User to determine, when required, if a certain node has joined the network or not for a particular COI. This service tells the ISS-User which node can receive information or not at a given time.			
2.2.2.5.15.2.1.0-2	TPS-2940	The ISS-S should have a Presence Service that detects which nodes are reachable through the ISS-S network.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.15.2.1.0-3	TPS-2941	The Presence service should automatically update the list of connected nodes every two (2) minutes or faster.	Test	The Contractor must prove through testing that the ISS-S meets this requirement.	No
2.2.3	TPS-94	Audio Display			
2.2.3.0-1	TPS-4271	The ISS-S Audio Display function supports the presentation of voice communications coming from the ISS-CS via integrated speakers and the generation of voice communications to the ISS-CS via one or more microphones. The ISS-S Audio display function also provides hearing protection for the soldiers while allowing them to still hear and distinguish all environmental sounds and noises.			
2.2.3.1	TPS-4270	General Description			

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2.2.3.1.1	TPS-5358	General			
2.2.3.1.1.0-1	TPS-4272	An ISS-S Audio Display must be provided as a function of the ISS-S.	Inspection	<p>If the ISS-S configuration has not changed from P(Bid), no other inspection is required.</p> <p>Otherwise:</p> <p>The Contractor must show the ISS-S Audio Display to Canada. Canada will inspect the ISS-S Audio Display to confirm that all the ISS-S Audio Display components required in this TPS are present.</p>	No
2.2.3.1.1.0-2	TPS-4299	<p>The ISS-S Audio Display must include:</p> <ul style="list-style-type: none"> • a Headset that includes two canalphones that emit the audio signal to the ear, microphone(s) that collect the User's voice signal and microphones to collect the sound from the environment; • a Noise Reduction System (NRS); • a Talk Through Circuit (TTC) to convey safe levels of environmental noise; • Control Circuitry to enable and control the audio signals between the radios and the Headset; • a Wired Push-To-Talk (PTT) to enable transmission of voice communications on two voice COIs (on one or two radios) sequentially; 	Contractor's Choice	<p>If the ISS-S configuration has not changed from P(Bid), no other verification is required.</p> <p>Otherwise:</p> <p>The Contractor must prove that all the items required in the requirement are present in the proposed ISS-S Audio Display.</p>	No
2.2.3.1.1.0-3	TPS-3170	The ISS-S Audio Display must be provided to both ears.	Contractor's Choice	<p>If the ISS-S configuration has not changed from P(Bid), no other verification is required.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S Audio Display is provided to both ears.</p>	No

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2.2.3.1.1.0-4	TPS-5137	Using the ISS-S Audio Display and the ISS-S radio, the ISS-S User must be able to perform sequential voice transmissions to two voice COIs on the ISS-S radio.	Demo	The Contractor must demonstrate how the ISS-S Audio Display can perform sequential voice transmissions on two voice nets while using the ISS-S radio.	No
2.2.3.1.1.0-5	TPS-3171	Using the ISS-S Audio Display, the ISS-S radio and one of the LCSS GFE radios, the ISS-S User must be able to perform sequential voice transmissions on two voice COIs, where one voice COI is associated with the ISS-S radio and the other voice COI is associated with the LCSS GFE radio; both radios are simultaneously used.	Demo	The Contractor must demonstrate how the ISS-S Audio Display can perform sequential voice transmissions on two voice nets, where one voice net is associated with the ISS-S radio and the other voice net is associated with an LCSS GFE radio.	No
2.2.3.1.1.0-6	TPS-3173	Using the ISS-S Audio Display and the ISS-S radio, the ISS-S User must be able to listen to two voice COIs simultaneously, with one net to each ear.	Demo	The Contractor must demonstrate how the ISS-S Audio Display can listen to two voice nets, a voice net to each ear, while using the ISS-S radio.	No
2.2.3.1.1.0-7	TPS-5374	Using the ISS-S Audio Display, the ISS-S radio and one of the LCSS GFE radios, the ISS-S User must be able to listen to two voice COIs simultaneously, one voice COI per radio, with one net to each ear.	Demo	The Contractor must demonstrate how the ISS-S Audio Display can listen to two voice nets simultaneously, the voice net associated with the ISS-S radio to one ear and the voice net associated with a LCSS GFE radio to the other ear.	Yes
2.2.3.1.1.0-8	TPS-3174	The ISS-S Audio Display should display the same or different information to the right and left ear based on ISS-S User preference.	Demo	The Contractor must demonstrate all functions that were claimed to be met at bid time and prove that all claimed functions are supported as per the requirement.	No
2.2.3.1.2	TPS-4291	Interface Requirements			
2.2.3.1.2.0-1	TPS-4292	The ISS-S Audio Display must be worn, used and operated with the following list of radios: a) ISS-S radio; b) LCSS GFE radio for dismounted forces, as identified below: i) AN/PRC-148 MBITR; ii) AN/PRC-152;	Demo	The Contractor must demonstrate that the ISS-S Audio Display can be worn, used and operated using the ISS-S radio and a LCSS GFE radio simultaneously. All the radios in the list of LCSS GFE radios must be demonstrated: AN/PRC-148 MBITR, AN/PRC-152 and AN/PRC-	No

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		iii) AN/PRC-117F.		117F.	
2.2.3.1.2.0-2	TPS-4293	The ISS-S Audio Display must connect to, operate with and meet the interface specifications of all the LCSS GFE Radios listed in TPS-4292.	Contractor's Choice	The Contractor must prove that the ISS-S Audio Display can operate with and meets the interface specifications of the LCSS-S GFE Radios: AN/PRC-148 MBITR, AN/PRC-152 and AN/PRC-117F.	No
2.2.3.1.3	TPS-4413	Headset and Canalphones			
2.2.3.1.3.0-1	TPS-4415	All cables connecting to the ISS-S Audio Display headset must be protected by strain relief.	Contractor's Choice	The Contractor must prove that the ISS-S Audio Display headset is protected by a strain relief.	No
2.2.3.1.3.0-2	TPS-4307	Headbands and neckbands must not be part of the ISS-S Audio Display.	Contractor's Choice	The Contractor must prove that the ISS-S Audio Display headset does not include or require a headband or neckband.	No
2.2.3.1.3.0-3	TPS-5169	The canalphones must be replaceable and be available in the following two variations: 1) As universal canalphones; and 2) As custom canalphones.	Contractor's Choice	The Contractor must prove that the ISS-S Audio Display can be fitted to the ISS-S User when using universal canalphones and when using custom canalphones which are customized to fit the ISS-S User's ears.	No
2.2.3.1.4	TPS-4340	Talk-Through Circuit (TTC)			
2.2.3.1.4.0-1	TPS-4343	The ISS-S Audio Display TTC must have a switch to enable and disable the TTC function.	Demo	If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required. Otherwise: The Contractor must demonstrate that the TTC function can be turned ON and turned OFF.	No
2.2.3.1.4.0-2	TPS-4341	The TTC must allow the ambient sound to be transmitted to the wearer's ear when the ISS-S Audio Display mode selector switch is set to the	Demo	If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required.	No

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		Talk-Through Circuit mode.		Otherwise: The Contractor must demonstrate that the TTC function allows ambient sounds to reach the User's ears.	
2.2.3.1.4.0-3	TPS-3163	The ISS-S Audio Display TTC should allow the ISS-S User to selectively enhance hearing by 3 dB.	Contractor's Choice	The Contractor must prove that the TTC function can enhance hearing by at least 3 dB.	No
2.2.3.1.5	TPS-4310	Noise Reduction System			
2.2.3.1.5.0-1	TPS-4998	In the 125Hz to 1kHz frequency range, the ISS-S Audio Display must provide at least 20dB of attenuation at the ear when the external environmental noise is at a level above 107dBA.	Test	The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	No
2.2.3.1.5.0-2	TPS-4999	In the 125Hz to 1kHz frequency range, the ISS-S Audio Display should provide more than 20dB of attenuation at the ear when the external environmental noise is at a level above 107dBA.	Test	If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required. Otherwise: The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	No
2.2.3.1.5.0-3	TPS-5000	In the 125Hz to 1kHz frequency range, the ISS-S Audio Display must keep the audio level at the ear below 87dBA when the environmental noise level is between 87dBA and 107dBA.	Test	The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	No
2.2.3.1.5.0-4	TPS-5001	In the 1kHz to 4kHz frequency range, the ISS-S Audio Display must provide at least 30dB of attenuation at the ear when the external environmental noise is at a level above 117dBA.	Test	The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	No
2.2.3.1.5.0-5	TPS-5002	In the 1kHz to 4kHz frequency range, the ISS-S Audio Display should provide more than 30dB of attenuation at the ear when the external	Test	If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required.	No

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		environmental noise is at a level above 117dBA.		Otherwise: The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	
2.2.3.1.5.0-6	TPS-5003	In the 1kHz to 4kHz frequency range, the ISS-S Audio Display must keep the audio level at the ear below 87dBA when the environmental noise level is between 87dBA and 117dBA.	Test	The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	No
2.2.3.1.5.0-7	TPS-5004	While the TTC is ON, the ISS-S Audio Display must not provide any attenuation when the environmental noise is at a level less than 80dBA.	Test	The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	No
2.2.3.1.5.0-8	TPS-3161	The ISS-S Audio Display must provide protection from impulse noise above 140dB(C) peak.	Test	The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	No
2.2.3.1.5.0-9	TPS-5204	If ISS-S Audio Display makes use of Active Noise Cancellation techniques, the ISS-S User must be able to disable that ISS-S Audio Display's Active Noise Cancellation function.	Demo	The Contractor must demonstrate how the ISS-S meets the requirement.	No
2.2.3.1.6	TPS-4345	Voice Microphone			
2.2.3.1.6.0-1	TPS-4347	The ISS-S Audio Display must not make use of throat microphones.	Contractor's Choice	If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required. Otherwise: The Contractor must prove that the ISS-S Audio Display does not make use of throat microphones.	No
2.2.3.2	TPS-5333	Human Systems Integration			
2.2.3.2.0-1	TPS-3156	When operating the ISS-CS and the ISS-S Audio Display, the end-to-end over-the-air speech intelligibility of the ISS-S must meet a minimum	Test	The Contractor must prove that the ISS-S meets the requirement by executing a test in accordance with the Speech	No

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		Modified Rhyme Test score of 91% (after correction for guessing factored-in), when tested in accordance with section 3 - Speech Intelligibility, of Volume 2, Annex CB, Appendix 5 - Audio Display Test Procedure Requirements.		Intelligibility test procedure found in section 3 - Speech Intelligibility of Volume 2, Annex CB, Appendix 5 - Audio Display Test Procedure Requirements.	
2.2.3.2.0-2	TPS-3157	The ISS-S User's ability to identify sounds while wearing an operational ISS-S Audio Display must not be reduced by more than five (5) percent compared to when not wearing an audio display. Sound identification must be tested in accordance with the test plan in section 5 - Sound Identification, of Volume 2, Annex CB, Appendix 5 - Audio Display Test Procedure Requirements.	Test	The Contractor must prove that the ISS-S Audio Display meets the requirement by executing a test in accordance with the Sound Identification test procedure found in section 5 - Sound Identification, of Volume 2, Annex CB, Appendix 5 - Audio Display Test Procedure Requirements.	No
2.2.3.2.0-3	TPS-3158	The ISS-S User's ability to localize sound to within plus or minus 45 degrees in the horizontal plane while wearing an operational ISS-S Audio Display must not be reduced by more than fifteen (15) percent compared to when not wearing an audio display. Sound localization must be tested in accordance with the test plan in section 4 - Sound Localization, of Volume 2, Annex CB, Appendix 5 - Audio Display Test Procedure Requirements.	Test	The Contractor must prove that the ISS-S Audio Display meets the requirement by running a test in accordance with the Sound Localization test procedure found in section 4 - Sound Localization, of Volume 2, Annex CB, Appendix 5 - Audio Display Test Procedure Requirements.	No
2.2.3.3	TPS-5165	Audio Display Control Circuitry			
2.2.3.3.0-1	TPS-5167	The ISS-S Audio Display Control Circuitry must provide EMSEC separation between security domains for voice communications, as specified in section TPS-4266.	Contractor's Choice	The Contractor must prove that the ISS-S Audio Display Control Circuitry provides EMSEC separation as per the requirement.	No
2.2.3.4	TPS-4400	Wired Push-To-Talk (PTT) Switch			
2.2.3.4.0-1	TPS-4401	The ISS-S Wired PTT Switch must have two (2) PTT switches, one per enabled voice COI.	Contractor's Choice	If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required. Otherwise:	No

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				The Contractor must prove that each PTT switch can be used to transmit voice on a radio voice COI.	
2.2.3.4.0-2	TPS-4403	Using a single ISS-S radio, the ISS-S Wired PTT Switch must allow sequential voice transmission to two (2) voice COIs.	Contractor's Choice	<p>If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required.</p> <p>Otherwise:</p> <p>The Contractor must prove that a PTT switch is used to transmit on one voice COI and the other PTT switch is used to transmit on the other voice COI.</p>	No
2.2.3.4.0-3	TPS-4404	Using an ISS-S radio and a LCSS GFE radio, the ISS-S Wired PTT Switch must allow sequential voice transmission to two (2) voice COIs of different security domains, one voice COI per radio.	Contractor's Choice	The Contractor must prove that a PTT switch is used to transmit on a voice COI on the ISS-S radio and the other PTT switch is used to transmit on a voice COI on an LCSS GFE radio. The proof must include all the LCSS GFE radios: AN/PRC-148 MBITR, AN/PRC-152 and AN/PRC-117F.	No
2.2.3.5	TPS-5027	Wireless Push-To-Talk (PTT) Switch			
2.2.3.5.0-1	TPS-4276	<p>The ISS-S Audio Display should include a Wireless Push-To-Talk (PTT) to enable transmission of voice communications on two voice COIs (on one or two radios) sequentially, with the following considerations:</p> <ul style="list-style-type: none"> ○ If the Wireless PTT battery can provide power lasting at least the 18 months cycle of the MISSION PROFILES AND OPERATIONAL MODE SUMMARY as per table 11 of Volume 2, Annex CB, Appendix 3, then the Wireless PTT battery is not considered a Power Domain; 	Contractor's Choice	<p>If the ISS-S configuration has not changed from P(Bid), no other verification is required.</p> <p>Otherwise:</p> <p>The Contractor must prove that all the items required in the requirement are present in the proposed ISS-S Audio Display.</p>	No

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		<ul style="list-style-type: none"> If the Wireless PTT battery can't provide power lasting at least the 18 months cycle of the MISSION PROFILES AND OPERATIONAL MODE SUMMARY as per table 11 of Volume 2, Annex CB, Appendix 3, an extra Power Domain has to be considered, however the requirements in section TPS-5443 ISS Batteries become less restrictive; it is acceptable that the ISS Batteries be either rechargeable "OR" non rechargeable. 			
2.2.3.5.0-2	TPS-5028	The ISS-S Wireless PTT Switch should consist of a wireless PTT switch with a mounting system that allows it to be attached to the weapon.	Demo	<p>If the ISS-S Audio Display Wireless PTT configuration has not changed from P(Bid), no other inspection is required.</p> <p>Otherwise:</p> <p>The Contractor must demonstrate how the ISS-S Wireless PTT is to be attached to the weapon.</p>	No
2.2.3.5.0-3	TPS-5029	The ISS-S Wireless PTT Switch should have two (2) PTT switches, one per enabled voice COI.	Contractor's Choice	<p>If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required.</p> <p>Otherwise:</p> <p>The Contractor must prove that each PTT switch can be used to transmit voice on a radio voice COI.</p>	No
2.2.3.5.0-4	TPS-5030	Using a single ISS-S radio, the ISS-S Wireless PTT Switch should allow sequential voice transmission to two (2) voice COIs..	Contractor's Choice	<p>If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required.</p> <p>Otherwise:</p> <p>The Contractor must prove that while using the ISS-S radio, a PTT switch is</p>	No

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				used to transmit on one voice COI and the other PTT switch is used to transmit on the other voice COI.	
2.2.3.5.0-5	TPS-5031	Using an ISS-S radio and a LCSS GFE radio, the ISS-S Wireless PTT Switch should allow sequential voice transmission to two (2) voice COIs of different security domains, one voice COI per radio.	Contractor's Choice	The Contractor must prove that a PTT switch is used to transmit on a voice COI on the ISS-S radio and the other PTT switch is used to transmit on a voice COI on an LCSS GFE radio. The proof must include all the LCSS GFE radios: AN/PRC-148 MBITR, AN/PRC-152 and AN/PRC-117F.	No
2.2.4	TPS-96	Position Generation and Navigation			
2.2.4.0-1	TPS-4203	It is expected that dismounted soldiers use GPS for reporting the location of individuals, sections and platoons. Navigation sensor may also provide help for fire support missions.			
2.2.4.0-2	TPS-4204	The ISS-S must be fitted with an integrated Global Positioning System receiver.	Contractor's Choice	If the type of Global Positioning System receiver and its associated integration has not changed from P(bid), no other verification required. Otherwise: The Contractor must provide a detailed description of the Global Positioning System receiver components and the integration details into the ISS-S. This includes but is not limited to GPS make and model, specification, integration location, antenna type and a description of all physical interfaces.	No
2.2.4.0-3	TPS-4207	The ISS-S must provide the User with a warning indication that he operates in a GPS-degraded or GPS-denied environment under any of the following conditions:	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes. Test must	No

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		<ul style="list-style-type: none"> • GPS receiver's fix is invalid or estimated for 10 seconds; • GPS receiver has access to less than 4 satellites for 10 seconds; and • The average C/No is less than 30 dB-Hz for 10 seconds 		<p>include normal, degraded and denied GPS environment, including transition from one to the other. Testing should include the use of a GPS simulator to trigger the events and the fading environment. Testing to include the below conditions:</p> <ul style="list-style-type: none"> - GPS receiver's fix is invalid or estimated for 10 seconds; - GPS receiver has access to less than 4 satellites for 10 seconds; and - The average C/No is less than 30 dB-Hz for 10 seconds 	
2.2.4.0-4	TPS-4208	The ISS-S GPS must provide position information for 10 digit UTM grid reference.	Demo	The Contractor must demonstrate the ISS-S displays the actual position of the soldier using the 10 digit UTM grid reference system.	No
2.2.4.0-5	TPS-582	The ISS-S must provide the bearing of the direction faced by the User in relation with the True North, while travelling and while standing still, with an accuracy of at least 5 degrees.	Test	The Contractor must perform a test and measure the bearing accuracy while moving at 10km/h, 0.5km/h and standing still. The test jig is to turn in 45 degree resolution and measurements must be taken until 360 degrees is achieved. Repeat clockwise and counter-clockwise. Ensure that accuracy is at least 5 degrees. The Contractor must use Tactical User Interface to get the ISS-S bearing readings.	No
2.2.4.0-6	TPS-2436	The ISS-S should provide the bearing of the direction faced by the User in relation with the True North, while travelling and while standing still, with an accuracy of better than 5 degrees.	Test	The Contractor must perform a test and measure the bearing accuracy while moving at 10km/h, 0.5km/h and standing still. The test jig is to turn in 45 degree resolution and measurements must be taken until 360 degrees is achieved. Repeat clockwise and counter-clockwise.	No

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				Ensure that accuracy is at least as good as what the Contractor claimed at bid time.. The Contractor must use Tactical User Interface to get the ISS-S bearing readings.	
2.2.4.0-7	TPS-4209	The ISS-S must provide the bearing of the direction faced by the User in relation with the True North of the Battle Management System.	Demo	The Contractor must demonstrate that the BMS successfully and accurately receives and display the bearing on the BMS.	No
2.2.4.1	TPS-4210	GPS Receiver Performance			
2.2.4.1.0-1	TPS-4212	The ISS-S integrated GPS receiver must have a minimum position accuracy of 13m horizontal with 95% confidence in unobstructed terrain.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes. Test must be repeated to gather appropriate statistics. Test to be performed under unobstructed open terrain.	No
2.2.4.1.0-2	TPS-4213	The ISS-S integrated GPS receiver should have a minimum position accuracy of 22m vertical with 95% confidence in unobstructed terrain.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes. Test must be repeated to gather appropriate statistics. Test to be performed under unobstructed open terrain.	No
2.2.4.1.0-3	TPS-4215	Warm Start applies to a receiver that has been provided estimates of local position, date and time information, ground speed and track, if available, and non-current Space Vehicle (SV) information.			
2.2.4.1.0-4	TPS-4216	Hot Start applies to a receiver that contains a valid and current cryptovariable key and has been provided actual local position, date and time information and, ground speed and track, if available, and current Space Vehicle (SV) information.			

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2.2.4.1.0-5	TPS-4217	The ISS-S integrated GPS receiver must not exceed the following Time To First Fix in unobstructed terrain: <ul style="list-style-type: none"> • 60 seconds for a Warm Start; • 5 second for a Hot Start. 	Test	<p>The Contractor must prove through testing that the ISS-S meets this requirement. Test to be done using at least ten (10) ISS-S nodes. Test must be repeated by each node a minimum of 10 times to gather appropriate statistics. Test to be performed under unobstructed open terrain with no signal jamming.</p> <p>For the Warm Start test, the ISS-S must have been powered down for at least 2 hours. For the Hot Start test the ISS-S must have been turned off for at least 1 minute.</p> <p>For Hot start:</p> <ol style="list-style-type: none"> Present horizontal position is known to within 21 m; Present vertical position is known to within 28 m; Present velocity is known to within 0.4 m/sec; Present time is known to within 200 nanoseconds; The current satellite navigation message is in memory. 	No
2.2.4.2	TPS-4223	Military GPS			
2.2.4.2.0-1	TPS-4224	Military GPS device: A GPS capable of tracking and decoding the encrypted P(Y) code.			
2.2.4.2.0-2	TPS-4225	<p>Military GPS capability is to be provided by either:</p> <ul style="list-style-type: none"> • Providing and proving an interface to the CF in-service DAGR; or • Integrating a Military Grade GPS in the ISS-S <p>Note: If the DAGR interface concept is chosen, the ISS-S is to be fitted with an integrated GPS</p>			

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		receiver (commercial based).			
2.2.4.2.0-3	TPS-5214	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM); or • Interfacing with a CF in-service DAGR.	Demo	The Contractor must demonstrate that a military GPS mode has been implemented as part of the solution and that it is either: - ISS-S has an integrated SAASM receiver; or - ISS-S has an interface to a DAGR.	No
2.2.4.2.0-4	TPS-5215	To operate in military GPS mode, the ISS-S should have an integrated military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM).	Demo	The Contractor must demonstrate that a military GPS mode has been implemented using an integrated SAASM receiver solution	No
2.2.4.2.0-5	TPS-5427	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM); or • Interfacing with a CF in-service DAGR by physically connecting the CF in-service DAGR to the ISS-S, meeting the CF in-service DAGR interface specifications, and operating the CF in-service DAGR.	Analysis - and - Demo	If an integrated military grade GPS receiver is provided, the Contractor does not need to perform a demonstration or an analysis. If an interface to the CF in-service DAGR is provided, the Contractor must demonstrate that a military GPS mode has been implemented by interfacing with a CF in-service DAGR. The analysis must detail the physical and electrical connectivity and interface that will be provided including design characteristics and conformance to DAGR physical interfaces (IS-GPS-164). The Contractor must also describe what messages are exchanged between the CF in-service DAGR and the ISS-S, including message formats and protocol.	No
2.2.4.2.0-6	TPS-5216	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based	Demo	If an integrated military grade GPS receiver is provided, the Contractor does not need to perform a demonstration.	No

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		on a Selective Availability / Anti-Spoofing Module (SAASM); or • Interfacing with a CF in-service DAGR such that the CF in-service DAGR provides position information to the ISS-S while it is connected to the ISS-S.		If an interface to the CF in-service DAGR is provided, the Contractor must demonstrate that when in military GPS mode using the DAGR, the DAGR provides all position information to the ISS-S.	
2.2.4.2.0-7	TPS-5414	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM); or • Interfacing with a CF in-service DAGR such that when a CF in-service DAGR is connected to the ISS-S, all position related information called-up in this specification is provided to the User using the ISS-S Tactical User Interface display.	Demo	If an integrated military grade GPS receiver is provided, the Contractor does not need to perform a demonstration. If an interface to the CF in-service DAGR is provided, the Contractor must demonstrate that when the DAGR is used, the User does not need to use the DAGR display. All position related information is accessible and useable using the ISS-S Tactical User Interface.	No
2.2.4.2.0-8	TPS-4226	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which has a minimum position accuracy of 10.5m horizontal radial error with 95% confidence, in unobstructed terrain; or • Interfacing with a CF in-service DAGR.	Test	If an integrated military grade GPS receiver is provided, the Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes. Test must be repeated to gather appropriate statistics. Test to be performed under unobstructed open terrain. If an interface to the CF in-service DAGR is provided, the Contractor does not need to perform a test.	No
2.2.4.2.0-9	TPS-5413	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which has a minimum position accuracy	Test	If an integrated military grade GPS receiver is provided, the Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes. Test	No

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		of 19.1m vertical error with 95% confidence, in unobstructed terrain; or • Interfacing with a CF in-service DAGR.		must be repeated to gather appropriate statistics. Test to be performed under unobstructed open terrain. If an interface to the CF in-service DAGR is provided, the Contractor does not need to perform a test.	
2.2.4.2.0-10	TPS-4229	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which support IS-GPS-153D messages generated by the Military GPS. The minimum message set must be: • 4 (24-Channel Time Mark Data); • 5040 (Current Status); and • 5044 (Warnings); or • Interfacing with a CF in-service DAGR.	Contractor's Choice	If an integrated military grade GPS receiver is provided, the Contractor must prove that the ISS-S meets this requirement. The proof must include: - Extracting the minimum messages sets from the military GPS receiver as described in the requirement; and - Proof that shows how the messages are implemented in the solution. If an interface to the CF in-service DAGR is provided, the Contractor does not need to provide any proof.	No
2.2.4.2.0-11	TPS-4231	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which provides the soldier with a warning indication when the ISS-S Military GPS receiver has identified possible jammer or spoofer as per message 5044 of IS-GPS-153D. The minimum warning IDs are: • 10 - Possible spoofers; • No CV's for today; and • 60 to 63 - Possible jamming; or	Test	If an integrated military grade GPS receiver is provided, the Contractor must prove through testing that the ISS-S meets this requirement and prove that warning indications is provided to the soldier when under jamming or spoofing. Test to be conducted in a laboratory environment where spoofing and jamming environment will be generated through GPS simulator and signal generators. Test must be conducted on at least 5 ISS-S nodes simultaneously.	No

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		<ul style="list-style-type: none"> Interfacing with a CF in-service DAGR. 		If an interface to the CF in-service DAGR is provided, the Contractor does not need to perform a test.	
2.2.4.2.0-12	TPS-5408	<p>The ISS-S must operate in military GPS mode by either:</p> <ul style="list-style-type: none"> Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which, in addition to the warning indications specified in requirement TPS-4207, provide the User with a warning indication that he operates in a GPS-degraded or GPS-denied environment under the following conditions: <ul style="list-style-type: none"> Any warning indication from a Military GPS Receiver as per TPS-4231 ; and Warning indication from the Military GPS based message 4 from IS-GPS-153D on State 3 Operation flag set (GPS degraded) and neither State 3 nor State 5 flag set (GPS denied). Interfacing with a CF in-service DAGR. 	Test	<p>If an integrated military grade GPS receiver is provided, the Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes. Test must include normal, degraded and denied GPS environment, including transition from one to the other. Testing should include the use of a GPS simulator to trigger the events and the fading environment. Testing to include the below conditions:</p> <ul style="list-style-type: none"> - Any warning indication from a Military GPS Receiver as per TPS-4231 - Warning indication from the Military GPS based message 4 from IS-GPS-153D on State 3 Operation flag set (GPS degraded) and Neither State 3 nor State 5 flag set (GPS denied). <p>If an interface to the CF in-service DAGR is provided, the Contractor does not need to perform a test.</p>	No
2.2.4.2.0-13	TPS-4230	<p>The ISS-S should operate in military GPS mode by either:</p> <ul style="list-style-type: none"> Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which provides the Estimated Horizontal Error (EHE) every 10 seconds to the BMS; or Interfacing with a CF in-service DAGR. 	Contractor's Choice	If an integrated military grade GPS receiver is provided, the Contractor must show that it extracts EHE from the military GPS receiver and makes information available to the soldier through BMS and display. This must include a variation in EHE so that updates to EHE are also shown.	No

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				Variation in the EHE should be induced by a GPS simulator. If an interface to the CF in-service DAGR is provided, the Contractor does not need to provide any proof.	
2.2.4.2.0-14	TPS-4232	When operating in military GPS mode, the ISS-S must process the Military grade GPS information in priority over any other GPS device within the ISS-S.	Contractor's Choice	The Contractor must prove that when in military GPS mode priority is given to the military grade GPS position information over any other GPS device within the ISS-S. Verification to be conducted in a laboratory environment. Verification must include having the ISS-S turned on with a non-military GPS active and operating normally (i.e. providing GPS position information to the ISS-S) and then going into military GPS mode by turning on or connecting the military grade GPS. The source of navigation information in the ISS-S must be from the military grade GPS. This only applies when the proposed ISS-S solution has more than one GPS receiver instance. This requirement is considered met if the military GPS mode with an integrated SAASM is the only implementation of GPS receiver in the proposed ISS-S.	No
2.2.4.2.0-15	TPS-4233	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which allows the User to load Military	Contractor's Choice	If an integrated military grade GPS receiver is provided, the Contractor must prove that Key loading interface for GPS key material is available and functional. The Contractor must also prove that the	No

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		GPS cryptographic keys and confirm keyed state; or • Interfacing with a CF in-service DAGR.		user can verify the keyed state of the military GPS receiver. Verification to be conducted in a laboratory environment. Verification must include having a non-keyed ISS-S, loading Keys into the military GPS receiver and verifying that the keys have been correctly imported. Keyed Status must be verified at each step. If an interface to the CF in-service DAGR is provided, the Contractor does not need to provide any proof.	
2.2.4.2.0-16	TPS-4234	The ISS-S should operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which performs direct P(Y)-Code Acquisition while meeting the Time To First Fix requirement of TPS-4217; or • Interfacing with a CF in-service DAGR.	Test	If an integrated military grade GPS receiver is provided, the Contractor must prove that after Key loading, the ISS-S will perform direct P(Y)-Code Acquisition. Verification will required loading the receiver with the Black Monthly key (BCVm), ensure the receiver clock is within about 10 seconds of the correct time. Turn the receiver off and back on such that a Warm Start is triggered. Repeat the test but turn the receiver off and back on such that a Hot Start is triggered. For both Warm Start and Hot Start cases, record the channel tracking data (message 4) and prove that all channels started tracking P(Y)-code without first tracking C/A code. For both Warm Start and Hot Start cases, Time To First Fix for must be measured and meet the times specified in TPS-4217.	No

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				Verification must be performed with no assistance from other supporting GPS devices. If an interface to the CF in-service DAGR is provided, the Contractor does not need to perform a test.	
2.2.4.2.0-17	TPS-4236	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which simultaneously processes L1/L2 dual frequency GPS signal reception; or • Interfacing with a CF in-service DAGR.	Contractor's Choice	If an integrated military grade GPS receiver is provided, the Contractor must prove that the military GPS mode of the ISS-S can receive and use L1 and L2 frequencies available for the P(Y) code. Message 4 from IS-GPS-153D includes tracked frequencies and can be used for verification. Verification must be performed with no assistance from other supporting GPS devices. If an interface to the CF in-service DAGR is provided, the Contractor does not need to provide any proof.	No
2.2.5	TPS-97	Communication			
2.2.5.0-1	TPS-1616	The ISS-CS includes all the communications functions that are required to enable the soldier to use voice and data services to fulfil their mission as set out in Section 1 of the TPS. Communications functions will reside on ISS-S functional entities, including radios and computer operating systems (i.e. communications networking functions). The ISS-S will use an audio display permitting soldiers to talk and listen through the radio provided by the ISS-CS. The ISS-CS is distinct and separate from the LCSS and LCSS communications devices.			No
2.2.5.0-2	TPS-1668	Communications functions for dismounted			No

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		commanders include the use of 2 radios. The first radio will be the ISS-S radio procured by the ISS-S and will provide voice and data communications with dismounted soldiers. The second radio, a LCSS radio operating at a SECRET level, will be provided as GFE for voice communications with LCSS-equipped vehicles and other dismounted commanders. Dismounted commanders will have a visual display for interaction and control of some ISS-S radio functions from the Battle Management System.			
2.2.5.0-3	TPS-1669	Communications functions for dismounted soldiers include voice and data communications. The ISS-S will have a visual display for interaction and control of some radio functions from the Battle Management System.			No
2.2.5.1	TPS-795	General			
2.2.5.1.0-1	TPS-796	The ISS-CS must provide a communications function, device or set of devices that allows the ISS-S User to send and receive digital voice and data concurrently within any allocated COI.	Demo	The Contractor must successfully demonstrate voice and data being used and transferred between 2 or more radios within the allocated COIs. The Contractor must demonstrate that soldiers can talk and listen to voice with an ISS-CS device and that a computer connected to an ISS-CS can exchange data/information using any application with an opposite similarly configured computer.	Yes
2.2.5.1.0-2	TPS-800	The ISS-CS must provide an operational communication system for voice and data communications between dismounted soldiers at section and platoon for company level operations.	Analysis	If the ISS-S configuration has not changed from P(Bid), no other analysis is required. Otherwise: The Contractor must provide an analysis	Yes

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				of the ISS-S voice and data behaviour when exchanged between dismounted soldiers at the section and platoon levels and also between section and platoon levels. The Contractor must provide an analysis of how their ISS-S solution meets the requirement.	
2.2.5.1.0-3	TPS-4254	<p>The ISS-S must provide concurrent communication services for a forty-five (45) soldier organisation (i.e., platoon with company assets), operationally dispersed over a circular area with two thousand (2000) metre diameter, where the following services are concurrently in use:</p> <ul style="list-style-type: none"> • Four (4) concurrent section voice exchanges; • Blue PA exchanges between all stations within ten (10) seconds; and • Data distribution of a twenty (20) kilobyte message from a sender to all stations of a data COI within thirty (30) seconds; <p>While using the following COI configuration:</p> <ul style="list-style-type: none"> • Four (4) concurrent section voice exchanges (eight (8) nodes per section voice COI); • One (1) concurrent platoon, with company assets, voice exchange (twenty-one (21) nodes per platoon-cmd voice COI); • One (1) concurrent platoon-wide Blue PA exchange (forty-five (45) nodes per platoon-wide Blue PA COI); • Four (4) concurrent section data exchanges (eight (8) nodes per section data COI); and • One (1) concurrent platoon, with company assets, data exchange (twenty-one (21) nodes per platoon-cmd data COI). 	Analysis - and - Demo	<p>Analysis: If the ISS-S configuration has changed from P(Bid), an updated analysis of how their ISS-S solution meets the requirement is required.</p> <p>Demo: The Contractor must demonstrate that all the communication services specified in the requirement can concurrently be provided for a 45 soldier organisation dispersed over a two thousand (2000) metre diameter.</p>	Yes
2.2.5.1.0-4	TPS-5158	The ISS-S should provide concurrent	Analysis	If the ISS-S configuration has not	Yes

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		<p>communication services for a forty-five (45) soldier organisation (i.e., platoon with company assets), operationally dispersed over a circular area with two thousand (2000) metre diameter, including four (4) concurrent section voice exchanges where three (3) voice COIs automatically utilize any separate dynamically allocated ISS-CS node as a relaying station, using the following COI configuration:</p> <ul style="list-style-type: none"> • Four (4) concurrent section voice exchanges (eight (8) nodes per section voice COI); • One (1) concurrent platoon, with company assets, voice exchange twenty-one (21) nodes per platoon-cmd voice COI); • One (1) concurrent platoon-wide Blue PA exchange (forty-five (45) nodes per platoon-wide Blue PA COI); • Four (4) concurrent section data exchanges (eight (8) nodes per section data COI); and • One (1) concurrent platoon, with company assets, data exchange twenty-one (21) nodes per platoon-cmd data COI). 		<p>changed from P(Bid), no other analysis is required.</p> <p>Otherwise: The Contractor must provide a detailed description of the ISS-S voice COI behaviour when 4 concurrent voice COIs are operated within radio range of each other, including 3 voice COIs that utilize separate ISS-CS nodes as dynamically allocated relaying stations.</p>	
2.2.5.1.0-5	TPS-5159	<p>The ISS-S should provide concurrent communication services for a forty-five (45) soldier organisation (i.e., platoon with company assets), operationally dispersed over a circular area with two thousand (2000) metre diameter, for Blue PA exchanges between all stations within ten (10) seconds where a minimum of three (3) ISS-CS nodes as dynamically allocated relaying stations are utilized, using the following COI configuration:</p> <ul style="list-style-type: none"> • Four (4) concurrent section voice exchanges (eight (8) nodes per section voice COI); • One (1) concurrent platoon, with company assets, voice exchange (twenty-one (21) nodes 	Analysis	<p>If the ISS-S configuration has not changed from P(Bid), no other analysis is required.</p> <p>Otherwise: The Contractor must provide a detailed description of the ISS-S voice COI behaviour when Blue PA exchanges occur between all 45 nodes within 10 seconds, with at least 3 ISS-S nodes are dynamically allocated as relaying stations.</p>	Yes

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		per platoon-cmd voice COI); • One (1) concurrent platoon-wide Blue PA exchange (forty-five (45) nodes per platoon-wide Blue PA COI); • Four (4) concurrent section data exchanges (eight (8) nodes per section data COI); and • One (1) concurrent platoon, with company assets, data exchange (twenty-one (21) nodes per platoon-cmd data COI).			
2.2.5.1.0-6	TPS-5160	The ISS-S should provide concurrent communication services for a forty-five (45) soldier organisation (i.e., platoon with company assets), operationally dispersed over a circular area with two thousand (2000) metre diameter, for data distribution of a twenty (20) kilobyte message from a sender to all stations within thirty (30) seconds where a minimum of three (3) ISS-CS nodes as dynamically allocated relaying stations are utilized, using the following COI configuration: • Four (4) concurrent section voice exchanges (eight (8) nodes per section voice COI); • One (1) concurrent platoon, with company assets, voice exchange (twenty-one (21) nodes per platoon-cmd voice COI); • One (1) concurrent platoon-wide Blue PA exchange (forty-five (45) nodes per platoon-wide Blue PA COI); • Four (4) concurrent section data exchanges (eight (8) nodes per section data COI); and • One (1) concurrent platoon, with company assets, data exchange (twenty-one (21)) nodes per platoon-cmd data COI).	Analysis	If the ISS-S configuration has not changed from P(Bid), no other analysis is required. Otherwise: The Contractor must provide a detailed description of the ISS-S voice COI behaviour when a 20 kilobyte message is distributed from 1 node to all 45 nodes within 30 seconds, including 3 separate ISS-S nodes as dynamically allocated relaying stations.	Yes
2.2.5.1.1	TPS-244	Capacity			
2.2.5.1.1.0-1	TPS-2633	Each ISS-CS must provide communications capacity for concurrent reception of two	Test	The Contractor must prove through testing that two simultaneous voice COIs	Yes

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		independent voice COI and for transmission on either voice COI when selected.		can be received at any chosen comms suite by the operator. The Contractor must use 3xcomms suites at a minimum. The Contractor must successfully demonstrate that the operator can speak and transmit on a voice COI while a second voice COI is also being spoken on. The Contractor must demonstrate that one voice COI does not interfere with any other voice COI.	
2.2.5.1.1.0-2	TPS-2634	Each ISS-CS must provide communications capacity for concurrent transmission and reception of two voice COIs, two data COIs and a Blue PA COI for the exchange of User Services (TPS-246). NOTE: Only one voice COI is selected for outbound transmission at any point in time.	Test	The Contractor must prove through testing that in addition to TPS-2633, data can also be sent between the ISS-CS. The Contractor must use 3xcomms suites at a minimum. The Contractor must demonstrate the exchange of both large files (at least 1MB in size) and positional updates (small synchronous sequenced data units). The voice service must be demonstrated concurrently without noticeable audio gaps or audio distortions (e.g. choppy audio, squeals, chirps, pops, etc).	Yes
2.2.5.1.1.0-3	TPS-1622	The ISS-S communications network must support a minimum of five (5) concurrent, non-overlapping voice COIs located within a circular area with two hundred (200) metre diameter for dismounted close combat operations.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes. Test configurations to include some nodes co-sited and spread-out. The operators must be able to clearly hear voice at all stations in each COI (i.e., clear separation of voice within the allocated spectrum plan for high quality voice service to all stations).	Yes
2.2.5.1.1.0-4	TPS-4261	The ISS-CS must perform network synchronisation	Test	The Contractor must prove through	No

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		and meet the functional and performance requirements defined in this specification in a GPS-denied environment.		testing that the ISS-S meets the requirement. Test to be done using at least three (3) ISS-S nodes.	
2.2.5.1.2	TPS-245	Mobility and Movement			
2.2.5.1.2.0-1	TPS-833	Once set up with its initial data fill, the ISS-S communications network must adapt (i.e. no manual interaction for data services) to support connectivity changes due to mobility, topology, or attrition while maintaining reachability between ISS-S nodes, without requiring human intervention.	Analysis - and - Test	<p>Analysis: If the ISS-S configuration has changed from P(Bid), an updated analysis of how their ISS-S solution meets the requirement is required.</p> <p>Test: The Contractor must prove through testing that the ISS-S can adapt to changes in the network due to movement (e.g., node out of range, changes in node position, round-the-corner with multiple nodes using buildings to block signal) and attrition (turning off central nodes attached to a voice or data COI). Operators must confirm voice or data service at the start and end of the "change action - move, topology change, and attrition". The communications suites will be evaluated in a lab environment using simulated soldier movement patterns for repeatability and comparability.</p>	Yes
2.2.5.1.2.0-2	TPS-1623	When groups of ISS-S nodes move within radio range of one or more other ISS-S nodes, the ISS-CS must provide voice service with no more than one (1) voice service interruption longer than two hundred and fifty (250) milliseconds over a one (1) hour period when there is no change in voice relays while data is being exchanged on the network.	Test	<p>The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes.</p> <p>Test to be done in a lab environment.</p>	No

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2.2.5.1.2.0-3	TPS-2635	When groups of ISS-S nodes move within radio range of one or more other ISS-S nodes, the ISS-CS must provide Blue PA service with the loss of no more than two (2) sequential Blue PA messages per minute per user.	Analysis	If the ISS-S configuration has not changed from P(Bid), no other analysis is required. Otherwise: The Contractor must provide a detailed description of the ISS-S Blue PA behaviour when groups of ISS-S nodes come into radio range of each other. The Contractor must provide an analysis of how their ISS-S solution meets the requirement.	Yes
2.2.5.1.3	TPS-242	Operational Modes			
2.2.5.1.3.0-1	TPS-804	Any group of ISS-CS, once loaded with an initial configuration fill, should establish a dismounted peer network without human intervention as the standard operating mode.	Demo	The Contractor must demonstrate that any group of ISS-S nodes can automatically establish a dismounted peer network without operator intervention.	Yes
2.2.5.1.3.0-2	TPS-803	Once a dismounted peer network has been established, the ISS-CS, loaded with its persistent configuration fill, should provide voice and data services without operator intervention other than applying power to the device.	Demo	The Contractor must demonstrate that voice and data can be used between communications suites following the cold start of an unpowered unit. Demonstration will include the operator using voice and data services (i.e. send a text message) between all communications suites once the network is established. Pre-condition: 2 or more communications suites will be active in a dismounted peer network and 1 communications suite will be powered off prior to demonstration start.	Yes
2.2.5.1.3.0-3	TPS-2622	Once a dismounted peer network has been established between several ISS-S nodes, any new ISS-S node must allow soldiers to exchange	Test	The Contractor must prove through testing that voice can be used within 60 seconds following the cold start of an	No

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		voice messages within sixty (60) seconds of applying power to the ISS-CS.		unpowered unit. Test to be done using at least three (3) ISS-S nodes.	
2.2.5.1.3.0-4	TPS-2623	Once a dismounted peer network has been established, the ISS-S must exchange Blue PA messages within ninety (90) seconds of applying power to the ISS-CS.	Test	The Contractor must prove through testing that Blue PA messages can be generated and delivered within 90 seconds following the cold start of an unpowered unit. Test to be done using at least three (3) ISS-S nodes.	No
2.2.5.2	TPS-246	User Services			
2.2.5.2.1	TPS-247	Voice			
2.2.5.2.1.1	TPS-5359	General			
2.2.5.2.1.1.0-1	TPS-836	Voice speech inputs and outputs for soldiers must be provided through the ISS-S Audio Display connected to the ISS-CS. The ISS-S Audio Display is defined in TPS-94.	Demo	The Contractor must demonstrate that the ISS-S User can both listen and speak on the communications suite using audio display.	No
2.2.5.2.1.1.0-2	TPS-2638	The ISS-CS must provide individual, user-selectable voice COIs for voice exchanges (i.e. listen/speak) between COI members, where the User can enable two (2) voice COIs from at least five (5) programmed voice COIs.	Demo	The Contractor must demonstrate that an ISS-S User can both listen and speak on separate user-selected (i.e. enabled) Voice COIs. The Contractor must demonstrate that multiple voice COIs can be used separately. Demonstration to be done using at least ten (10) ISS-S nodes and at least five (5) programmed Voice COIs representing platoon and section.	No
2.2.5.2.1.2	TPS-249	Voice Service			
2.2.5.2.1.2.0-1	TPS-2124	The ISS-S voice service will enable an all-informed voice COI with a single person speaking and multiple listeners.			No
2.2.5.2.1.2.0-2	TPS-837	In the normal configuration, the ISS-S must provide voice service to enable the individual soldier to communicate vocally through the ISS-CS radio while all physical devices that are a part of the ISS-S are operational and worn by the User.	Demo	The Contractor must demonstrate that a soldier's voice is converted to audio using the ISS-CS radio. The demonstration must be performed in the normal configuration where all ISS-S	No

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				devices are operational and worn by the User.	
2.2.5.2.1.2.0-3	TPS-5478	In the simple configuration, the ISS-S must provide voice service to enable the individual soldier to communicate vocally through the ISS-CS radio while only the physical devices hosting the ISS-CS, the ISS-S Audio Display, and the ISS battery(ies) required to power those physical devices are operational and worn by the User while meeting the following requirements: <ul style="list-style-type: none"> • All mandatory requirements in section TPS-94 (Audio Display) • If a Wireless PTT is provided, all provided requirements in section TPS-5027 (Audio Display - Wireless PTT Switch) • All mandatory requirements in section TPS-247 (Communication - User Services - Voice) with the exception of the following: <ul style="list-style-type: none"> a) TPS-2638: Only 2 voice COIs must be programmed b) TPS-847: Only 2 voice COIs must be programmed 	Demo	The Contractor must demonstrate that a soldier's voice is converted to audio using the ISS-CS radio. The demonstration must be performed the simple configuration where only the physical devices hosting the ISS-CS, the ISS-S Audio Display and the ISS battery(ies) required to power those physical devices are operational and worn by the User. The demonstration must show that all TPS requirements identified in this requirement are met.	No
2.2.5.2.1.2.0-4	TPS-5477	In the simple configuration, the ISS-S must provide voice service to enable the individual soldier to communicate vocally through the ISS-CS radio while only the physical devices hosting the ISS-CS, the ISS-S Audio Display, and the ISS battery(ies) required to power those physical devices are operational and worn by the User while meeting the following requirements: <ul style="list-style-type: none"> • TPS-4112, 1816, 4930, 5376, 5377 and 5378 (Configuration) • All mandatory requirements in section TPS-939 (Functional Security - Data In Transit) • All mandatory requirements in section TPS-988 	Analysis	The Contractor must provide an analysis that proves that when using the simple configuration, the TPS requirements identified in this requirement are met. The analysis must include a normal configuration versus simple configuration comparison using ISS-S architecture details that proves that if the TPS requirements identified in this requirement are met using the normal configuration they are also met when using the simple configuration.	No

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		(Functional Security - EMCON) • All mandatory requirements in section TPS-4266 (Functional Security - EMSEC) • All mandatory requirements in section TPS-5443 (Power and Data Infrastructure - Power Sources - ISS Batteries) • All mandatory requirements in section TPS-5446 (Power and Data Infrastructure - Power Sources - ISS-ES Internal Batteries) • TPS-5452 (Power and Data Infrastructure - Power Sources - Power Monitoring) • TPS-3909 and 2120 (Communication - Communications Coverage - Relay) • All mandatory requirements in section TPS-271 (Communication - Radio)			
2.2.5.2.1.2.0-5	TPS-840	The ISS-CS voice service must be activated by a soldier pressing the ISS-S Audio Display's PTT switch, as defined in TPS-94.	Demo	The Contractor must demonstrate that each PTT switch provided by the vendor (e.g. wired, wireless, on the radio) activates the PTT service and allows the speaker to transmit voice to listening communications suites.	No
2.2.5.2.1.2.0-6	TPS-5461	The ISS-S must mutually exchange voice messages between ten (10) ISS-S within sixty (60) seconds from power-on of all ISS-S devices.	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. The analysis must prove that on average the ten (10) ISS-S can exchange voice messages within sixty (60) seconds of powering-on all ISS-S devices. Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at	No

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				least ten (10) ISS-S nodes.	
2.2.5.2.1.3	TPS-250	Voice Communities of Interest			
2.2.5.2.1.3.0-1	TPS-847	The ISS-CS must present and make available to the User five (5) or more programmed voice COIs, where the User can enable at least two (2) of the programmed voice COIs and assign them to available PTT switches and controls.	Demo	The Contractor must demonstrate that five (5) or more voice COIs can be programmed and are selectable for use by the communications suite operator and demonstrate the use of every programmed voice COI by concurrently enabling two (2) of the programmed voice COIs and assigning the enabled voice COIs to available PTT switch. Repeat the demonstration until all programmed voice COIs have been assigned to PTT switches and confirmed operational.	No
2.2.5.2.1.3.0-2	TPS-2641	The voice service should cause a speaker to time out when a voice transmission switch remains in the active position for longer than ninety (90) seconds on any voice COI or provide other mechanisms to allow remaining members of a voice COI to continue using the voice COI.	Test	The Contractor must successfully demonstrate that when a voice transmission switch is in the active position for longer than ninety (90) seconds that the speaker role is relinquished (i.e., PTT timeout) such that another communications suite can take on the speaker role. In the case of a full duplex system, the voice COI must be usable even when a single PTT switch within a group of communications suites is depressed for ninety (90) seconds or longer.	No
2.2.5.2.1.4	TPS-253	Voice Encoding			
2.2.5.2.1.4.0-1	TPS-2133	If voice codec other than STANAG 4591 is proposed, the base data stream should be less than or equal to sixteen (16) kilobits per second for each voice channel.	Contractor's Choice	The Contractor must provide evidence that the ISS-S voice codec base data stream is less than or equal to 16 kbps for each voice channel.	No
2.2.5.2.2	TPS-255	Data			

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2.2.5.2.2.1	TPS-256	Data Exchange			
2.2.5.2.2.1.0-1	TPS-859	The ISS-S communications network must provide end-to-end data distribution between instances of the Battle Management System.	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network provides communications between multiple ISS-S nodes for the Battle Management System.	Yes
2.2.5.2.2.2	TPS-257	Data Types			
2.2.5.2.2.2.0-1	TPS-860	The ISS-S communications network must support the transmission of multiple data types as defined in this specification.	Demo	The Contractor must demonstrate that the ISS-S communications network provides support for multiple data types defined in the specification.	Yes
2.2.5.2.2.3	TPS-258	Delivery to Communities of Interest			
2.2.5.2.2.3.0-1	TPS-861	The ISS-S communications network must distribute data and voice to all network-reachable ISS-S nodes subscribed to a defined COI.	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network provides distribution of voice and data to network-reachable ISS-S nodes.	Yes
2.2.5.2.2.3.0-2	TPS-862	Data exchanges sent from an ISS-S to a Community of Interest must be distributed to all Community of Interest instances (one-to-many transfer).	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network provides data exchange only to COI subscribers and to all COI subscribers.	Yes
2.2.5.2.2.3.0-3	TPS-864	The ISS-S must permit users to select Communities of Interest for data exchange.	Contractor's Choice	The Contractor must provide evidence that the ISS-S data COIs can be selected by the user and that data COI memberships are changeable to include/exclude members.	Yes
2.2.5.2.2.4	TPS-259	Data Transfer Modes			
2.2.5.2.2.4.0-1	TPS-865	The ISS-CS must exchange Internet Protocol packets with the BMS Computer, if the ISS-CS and BMS functions are hosted in different physical devices.	Contractor's Choice	If the ISS-CS and BMS functions are hosted in different physical devices, the Contractor must provide evidence that the ISS-S exchanges Internet Protocol packets with the BMS Computer. If the ISS-CS and BMS functions are hosted in the same physical device, no	No

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				proof is required.	
2.2.5.2.2.5	TPS-263	Grade of Service			
2.2.5.2.2.5.1	TPS-5360	General			
2.2.5.2.2.5.1.0-1	TPS-876	The ISS-CS must provide resource reservation or prioritization mechanisms within the ISS communications network for low latency services (e.g., voice, Blue PA).	Analysis - and - Test	<p>Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. Analysis will examine the communications traffic profile to be used, the ISS-CS resource reservation or prioritization mechanisms, and provide the expected test results for low latency services.</p> <p>Test: The Contractor must prove through testing that when operated under a saturated data communications load (i.e. communications operating at or beyond full capacity), the low latency services (voice, Blue PA, and any other low-latency services) are passed between ISS-S nodes through the ISS-S communications network. The test results must be correlated with the analysis.</p>	No
2.2.5.2.2.5.2	TPS-2138	Voice			
2.2.5.2.2.5.2.0-1	TPS-2139	The ISS-S voice service must provide end-to-end voice service between two ISS-CS nodes, with one (1) intervening ISS-CS relay node, having a maximum end-to-end one-way voice delay of less than four hundred (400) milliseconds.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least three (3) ISS-S nodes.	No
2.2.5.2.2.5.2.0-2	TPS-4068	The ISS-S voice service should provide end-to-end voice service between two ISS-CS nodes, with one (1) intervening ISS-CS relay nodes,	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at	No

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		having a maximum end-to-end one-way voice delay of less than two hundred (200) milliseconds.		least three (3) ISS-S nodes.	
2.2.5.2.2.5.3	TPS-2142	Blue PA			
2.2.5.2.2.5.3.0-1	TPS-2143	The Blue PA service must have a maximum end-to-end one-way delay of less than four (4) seconds between ten (10) ISS-S nodes in the same Blue PA COI and operating within two hundred and fifty (250) metres in open and complex terrain under a network loading consistent with a section. NOTE: A position transmitted by any node will be received by the other nine (9) nodes within four (4) seconds.	Analysis - and - Test	<p>Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. Analysis must examine the communications traffic profile to be used, the ISS-CS behaviour and provide the expected test results for Blue PA service in both open and complex terrain. It is expected that scripted conditions would be used for reproducibility of complex terrain under lab conditions.</p> <p>Test: The Contractor must prove through testing that when operated under a saturated data communications load (i.e. communications operating at or beyond full capacity), Blue PA messages from a source are delivered to all destinations within the required time using the required range in open and complex terrain. The test results must be correlated with the analysis.</p> <p>For complex terrain, the Contractor in testing can use an attenuator model (distance) validated by Canada. The Contractor can also have a changing topology to simulate movement through terrain, where only some nodes can see every other node to ensure some</p>	No

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2.2.5.2.2.5.3.0-2	TPS-2642	The Blue PA service must have a maximum end-to-end one-way delay of less than ten (10) seconds between thirty (30) ISS-S nodes in the same Blue PA COI and operating within a circle of one thousand (1000) metres diameter in open terrain under a network loading consistent with a platoon and its sections. NOTE: A position transmitted by any node will be received by the other twenty nine (29) nodes within ten (10) seconds.	Analysis - and - Test	relaying. Analysis: If the ISS-S configuration has not changed from P(Bid), no other analysis is required. Otherwise: The Contractor must provide a detailed analysis of the ISS-S Blue PA end-to-end one way delay to show how their ISS-S solution meets the requirement. Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least thirty (30) ISS-S nodes.	No
2.2.5.2.2.5.3.0-3	TPS-2643	The Blue PA service should have a maximum end-to-end one-way delay of less than fifteen (15) seconds between forty-five (45) ISS-S nodes in the same Blue PA COI and operating within a circle of two thousand (2000) metres diameter in open terrain under a network loading consistent with a platoon with company assets. NOTE: A position transmitted by any node will be received by the other forty-four (44) nodes within fifteen (15) seconds.	Analysis	Analysis: If the ISS-S configuration has not changed from P(Bid), no other analysis is required. Otherwise: The Contractor must provide a detailed analysis of the ISS-S Blue PA end-to-end one way delay to show how their ISS-S solution meets the requirement. The Contractor may use the results of previous Blue PA testing to prove through analysis that the requirement can be met by their system.	No
2.2.5.3	TPS-243	Communications Coverage			
2.2.5.3.0-1	TPS-808	The ISS-CS is expected to provide voice and data services to dismounted soldiers, sections, platoons, and company in suburban, urban,			No

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		forested, jungle, caves, sewers, and desert environments.			
2.2.5.3.1	TPS-812	Relay			
2.2.5.3.1.0-1	TPS-5189	Definition: relaying: The concept of relaying user data and possibly control information between ISS-CS mobile devices through one or more relay stations using allocated spectrum. The purpose of enabling relay is to enhance coverage, range, throughput, and capacity of the ISS-S communications network. The relaying function may include network routing.			
2.2.5.3.1.0-2	TPS-5190	Definition: relay link: An ISS-CS mobile device radio link between a pair of ISS-CS devices. Relayed traffic can be sent in either direction between devices.			
2.2.5.3.1.0-3	TPS-5191	Definition: relay path: Concatenation of k consecutive relay links ($k \geq 1$) between ISS-CS mobile devices.			
2.2.5.3.1.0-4	TPS-5192	Definition: relay traffic: Traffic traveling over a relay link.			
2.2.5.3.1.0-5	TPS-5193	Definition: relaying device: An ISS-CS mobile device that conforms to this specification and whose functions are 1) to relay user data and possibly control information between other stations, and 2) to execute processes that indirectly support mobile multi-hop relay.			
2.2.5.3.1.0-6	TPS-3908	A cluster of ISS-CSs forming an ISS-S communications network must have no single point of failure.	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network has no single point of failure.	Yes
2.2.5.3.1.0-7	TPS-5161	Once configured, the ISS-CS should allow for any ISS-CS node to relay data services in response to individual soldier tactical movement without requiring human intervention.	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network provides automatic reconfiguration of relays for data services to network-reachable ISS-S nodes. The Contractor	Yes

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				<p>must demonstrate that any random node (i.e. not pre-selected or pre-configured) implements relay functions when required by topology changes due to movement.</p> <p>The test procedure requirements defined in Appendix 10 - Miscellaneous Test Data and Test Procedure Requirements, Section 3 - Automatic Relay Test Procedure Requirements must be used as a baseline for the Contractor's verification proposal. The Contractor's verification proposal must be a scaled-up version (include more nodes) than what is described in Appendix 10.</p>	
2.2.5.3.1.0-8	TPS-4079	Once configured, the ISS-CS should allow for any ISS-CS node to relay voice services in response to individual soldier tactical movement without requiring human intervention.	Contractor's Choice	<p>The Contractor must provide evidence that the ISS-S communications network provides automatic reconfiguration of relays for voice services to network-reachable ISS-S nodes. The Contractor must demonstrate that any random node (i.e. not pre-selected or pre-configured) implements relay functions when required by topology changes due to movement.</p> <p>The test procedure requirements defined in Appendix 10 - Miscellaneous Test Data and Test Procedure Requirements, Section 3 - Automatic Relay Test Procedure Requirements must be used as a baseline for the Contractor's verification proposal. The Contractor's verification proposal must be a scaled-up</p>	Yes

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				version (include more nodes) than what is described in Appendix 10.	
2.2.5.3.1.0-9	TPS-3909	When configured to do so, each ISS-CS must act as voice and data relays for other ISS-CSs in the network.	Demo	<p>The Contractor must demonstrate that both voice relay and data relay functions are present and that any given ISS-CS can function as per the requirement.</p> <p>The test procedure requirements defined in Appendix 10 - Miscellaneous Test Data and Test Procedure Requirements, Section 3 - Automatic Relay Test Procedure Requirements must be used as a baseline for the Contractor's verification proposal. The Contractor's verification proposal must be a scaled-up version (include more nodes) than what is described in Appendix 10.</p>	Yes
2.2.5.3.1.0-10	TPS-4253	The ISS-S communications network must provide data distribution up to a range of at least two thousand (2000) metres in all terrain configurations (i.e. open terrain to complex terrain) either through direct radio link communication or through the use of radio relays.	Analysis - and - Test	<p>Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation.</p> <p>Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least two (2) ISS-S nodes.</p>	Yes
2.2.5.3.1.0-11	TPS-3910	The ISS-S communications network should provide data distribution up to a range of at least six thousand (6000) metres in all terrain configurations (i.e. open terrain to complex terrain) either through direct radio link communication or through the use of radio relays.	Analysis - and - Test	<p>Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation.</p> <p>Test:</p>	Yes

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				The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using a number of ISS-S nodes to be defined by the Contractor.	
2.2.5.3.1.0-12	TPS-1620	The ISS-S communications network must relay voice communications a minimum of two (2) radio hops for Voice COI extension.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least three (3) ISS-S nodes.	Yes
2.2.5.3.1.0-13	TPS-2438	The ISS-S communications network should relay voice communications a minimum of four (4) radio hops.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes.	Yes
2.2.5.3.1.0-14	TPS-1621	The relay of any single service must not consume all available bandwidth in the relaying ISS-CS.	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes.	No
2.2.5.3.1.0-15	TPS-2120	The ISS-S communications network must switch between known relay points, without human intervention, in less than four (4) seconds, tested as per Volume 2, Annex CB, Appendix 10 - Miscellaneous Test Data and Test Procedure Requirements, Section 2 - Relay Transfer Test Procedure Requirements.	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test must be performed as per Volume 2, Annex CB, Appendix 10 -	No

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				Miscellaneous Test Data and Test Procedure Requirements, Section 2 - Relay Transfer Test Procedure Requirements.	
2.2.5.3.1.0-16	TPS-4255	The ISS-S communications network should switch between known relay points, without human intervention, in less than two (2) seconds, tested as per Volume 2, Annex CB, Appendix 10 - Miscellaneous Test Data and Procedure Requirements, Section 2 - Relay Transfer Test Procedure Requirements.	Analysis - and - Test	<p>Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation.</p> <p>Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test must be performed as per Volume 2, Annex CB, Appendix 10 - Miscellaneous Test Data and Test Procedure Requirements, Section 2 - Relay Transfer Test Procedure Requirements.</p>	No
2.2.5.3.1.0-17	TPS-816	The ISS-S communications network should configure relay points for data services, without human intervention, within fifteen (15) seconds of beaconing from a new, previously unknown, node.	Analysis - and - Test	<p>Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation.</p> <p>Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes.</p>	No
2.2.5.3.1.0-18	TPS-880	A minimum group of forty-five (45) ISS-CS must operate as a single ISS-S communications network for voice and data where all nodes are within 1 radio hop (i.e. no relay).	Analysis	<p>Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement.</p>	No
2.2.5.3.1.0-19	TPS-1650	A minimum group of thirty (30) ISS-CS must	Test	The Contractor must prove through	Yes

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		operate as a single ISS-S communications network for voice and data where 66% of nodes are separated by two (2) radio hops (e.g., 3 sections separated by distance or terrain with relaying between sections).		testing that the ISS-S meets the requirement. Test to be done using at least thirty (30) ISS-S nodes.	
2.2.5.3.1.0-20	TPS-1658	The ISS-S communications network must operate in open terrain at a range of two thousand (2000) metres between two ground-based ISS-CS devices using an intermediating ground-based ISS-CS relaying node.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least three (3) ISS-S nodes.	No
2.2.5.3.1.0-21	TPS-3911	An ISS-S communications network of 10 ISS-CSs must communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster two thousand (2000) metres in diameter and no ISS-S is more than one thousand (1000) metres from another ISS-S.	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes.	Yes
2.2.5.3.1.0-22	TPS-3913	An ISS-S communications network of 10 ISS-CSs should communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster six thousand (6000) metres in diameter and no ISS-S is more than two thousand (2000) metres from another ISS-S.	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes.	Yes
2.2.5.3.1.0-23	TPS-3914	An ISS-S communications network of ten (10) ISS-CSs must communicate voice and data with each other in an urban environment (as defined in	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the	Yes

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		Annex CE to Volume 2), where suites are deployed in a randomly distributed cluster five hundred (500) metres in diameter.		<p>requirement. The analysis must provide expected test results for correlation. The urban environment must be as per the glossary definition of urban environment found in Annex CE to Volume 2.</p> <p>Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes. The urban environment must be as per the glossary definition of urban environment found in Annex CE to Volume 2.</p>	
2.2.5.3.1.0-24	TPS-3915	An ISS-S communications network of ten (10) ISS-CSs should communicate voice and data with each other in an urban environment (as defined in Annex CE to Volume 2), where ISS-Ss are deployed in a randomly distributed cluster two thousand (2000) metres in diameter.	Analysis - and - Test	<p>Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. The urban environment must be as per the glossary definition of urban environment found in Annex CE to Volume 2.</p> <p>Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes. The urban environment must be as per the glossary definition of urban environment found in Annex CE to Volume 2.</p>	Yes
2.2.5.3.2	TPS-817	Range Extension			
2.2.5.3.2.0-1	TPS-819	The ISS-CS should be configurable to prevent any single communications node from being the preferred relay for more than forty (40) nodes.	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network meets the requirement.	No

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2.2.5.4	TPS-265	Network			
2.2.5.4.1	TPS-881	Data Network Convergence			
2.2.5.4.1.0-1	TPS-883	When routing is used between ten (10) ISS-CS nodes, the ISS-CS must choose an alternate data network path within ten (10) seconds of an established path being broken.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes.	No
2.2.5.4.1.0-2	TPS-5429	When routing is used, the ISS-CS routing update frequency parameter must be configurable.	Demo	The Contractor must demonstrate that the ISS-S communications network provides a configurable routing update frequency parameter as defined in the specification.	No
2.2.5.4.2	TPS-269	System Access Time			
2.2.5.4.2.0-1	TPS-884	The ISS-CS must provide voice service within two hundred and fifty (250) milliseconds following a push-to-talk action by the User.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes.	No
2.2.5.4.3	TPS-270	Addressing			
2.2.5.4.3.0-1	TPS-826	The ISS-CS must integrate with Internet Protocol version 4 addressing (IETF RFC 791, 1918 and 4632).	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network provides IPv4 addressing as defined in the requirement.	No
2.2.5.4.3.0-2	TPS-2150	The ISS-S must provide mechanisms to prevent assignment of duplicate Internet Protocol addresses.	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network prevents assignment of duplicate IP addresses in ISS-S nodes.	No
2.2.5.4.3.0-3	TPS-2151	The ISS-CS should detect duplicate Internet Protocol addresses and reconfigure a new non-duplicate Internet Protocol address to any conflicting nodes without human intervention.	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network detects duplicate IP addresses in network-reachable ISS-S nodes and provides automatic reconfiguration to ISS-S nodes with conflicting addresses.	No
2.2.5.4.3.0-4	TPS-825	The ISS-S must provide unique addresses for a fleet of 16,384 ISS-S kits, including all devices in the ISS-S.	Analysis	The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide	No

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				expected test results for correlation.	
2.2.5.5	TPS-271	Radio			
2.2.5.5.1	TPS-3896	Transmitted Power			
2.2.5.5.1.0-1	TPS-5163	The ISS-CS must have a primary transmitted output power mode that can support all mandatory requirements found in the following sections: • TPS-97 - Communication; and • TPS-312 - Electromagnetic Environmental Effects (E3)	Contractor's Choice	The Contractor must provide evidence that the ISS-CS is used to support all of the TPS functional requirements. The Contractor must use the primary transmitted output power mode identified at bid time to meet all TPS Communications mandatory requirements defined in TPS-97 and the mandatory Electromagnetic Environmental Effects (E3) requirements defined in TPS-312.	Yes
2.2.5.5.1.0-2	TPS-4069	The ISS-CS should provide selectable or adaptive radio transmitted output power levels.	Test	The Contractor must prove through testing that the ISS-S meets the requirement.	No
2.2.5.5.1.0-3	TPS-4070	The ISS-CS should provide a lower transmitted output power mode to reduce power by 6 dB or more.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to measure power differential between power modes.	No
2.2.5.5.2	TPS-272	Transmission range			
2.2.5.5.2.0-1	TPS-890	The ISS-CS must operate at a range of five hundred (500) metres between two ISS-CS devices in an urban canyon within an urban environment as defined in Annex CE to Volume 2, where buildings are located on both sides of the canyon.	Analysis - and - Test	The Contractor must prove through testing that the ISS-S meets the requirement. The urban environment must be as per the glossary definition of urban environment found in Annex CE to Volume 2. The test must be performed in an urban canyon where a 500m unobstructed path is available the two (2) ISS-S nodes. The urban canyon must include buildings on both sides of the canyon.	Yes
2.2.5.5.2.0-2	TPS-1652	The ISS-CS must provide point-to-point	Test	The Contractor must prove through	No

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		communications between two unobstructed (open space, line of sight) dismounted soldiers separated by a distance of one thousand (1000) metres while sustaining both voice and data at no less than eighty (80) kilobits per second of internet protocol (IP) data throughput after error correction.		testing that the ISS-S meets the requirement. The test to be done using two (2) ISS-S nodes.	
2.2.5.5.2.0-3	TPS-1653	The ISS-CS should provide point-to-point communications between two unobstructed (open space, line of sight) dismounted soldiers separated by a distance of one thousand (1000) metres while sustaining both voice and data at more than eighty (80) kilobits per second of internet protocol (IP) data throughput after error correction.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at two (2) ISS-S nodes.	No
2.2.5.5.2.0-4	TPS-1655	The ISS-CS must sustain all communications (i.e. sufficient link margin) to a receiving ISS-CS through an obstacle producing an attenuation of 15 dB at a range of three hundred (300) metres from the transmitter.	Analysis - and - Test	<p>Analysis: The Contractor must provide a link budget analysis proving that their implementation meets the requirement.</p> <p>Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least two (2) ISS-S nodes.</p> <p>The test must include the highest and lowest frequency channel provided by the Contractor within the Primary Operating Band required to comply with TPS-893 and TPS-5162.</p>	No
2.2.5.5.2.0-5	TPS-4256	The ISS-CS must sustain all communications to a receiving ISS-CS through 2 obstacles producing an attenuation of 8 dB each where the 2 obstacles are separated by five (5) metres and the ISS-CS devices are separated by five point five (5.5)	Analysis - and - Test	<p>Analysis: The Contractor must provide a link budget analysis proving that their implementation meets the requirement.</p>	No

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		metres.		Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least two (2) ISS-S nodes. The test must include the highest and lowest frequency channel provided by the Contractor within the Primary Operating Band required to comply with TPS-893 and TPS-5162.	
2.2.5.5.2.0-6	TPS-1657	The ISS-CS must meet all range requirements (i.e. no reduced range performance) when worn by a standing soldier in full combat load, as per the conceptual loads found in Volume 2, Annex CB, Appendix 9 - MLCS Conceptual Load.	Contractor's Choice	If the ISS-S configuration has not changed from P(Bid), no other analysis is required. Otherwise: The Contractor must provide evidence that the range requirements are met in their implementation while the soldier is wearing a full combat load as described in the requirement.	No
2.2.5.5.3	TPS-275	Frequencies / Frequency Planning			
2.2.5.5.3.0-1	TPS-5196	The ISS-CS is expected to operate in a single operating frequency band at any point in time.			
2.2.5.5.3.0-2	TPS-5162	The ISS-CS must meet all TPS performance requirements within the mandatory 225-450 MHz UHF band (i.e. Primary Operating Band) using frequency channels having a fixed channel size.	Contractor's Choice	The Contractor must provide evidence that all TPS performance requirements are met in their implementation as described in the requirement.	No
2.2.5.5.3.0-3	TPS-893	The ISS-CS must provide a minimum of twenty (20) orthogonal frequency channels within the 225 - 450 MHz band while meeting the user service performance requirements described in section TPS-246.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done in a lab environment using at least six (6) ISS-S nodes to measure the channel characteristics including effects from	No

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2.2.5.5.3.0-4	TPS-4071	The ISS-CS should provide a minimum of forty (40) orthogonal frequency channels within the 225 - 450 MHz band while meeting the user service performance requirements described in section TPS-246.	Test	adjacent channels. The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done in a lab environment using at least six (6) ISS-S nodes to measure the channel characteristics including effects from adjacent channels.	No
2.2.5.5.3.0-5	TPS-5500	The ISS-CS should provide a minimum of five (5) orthogonal frequency channels within the 420 - 450 MHz band while meeting the user service performance requirements described in section TPS-246.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done in a lab environment using at least six (6) ISS-S nodes to measure the channel characteristics including effects from adjacent channels.	No
2.2.5.5.3.0-6	TPS-894	In addition to the 225 - 450 MHz band, the ISS-CS should operate in the 902 - 928 MHz frequency band (i.e. Secondary Operating Band) without having to change the ISS-CS hardware, while providing the following characteristics: <ul style="list-style-type: none"> • provide a minimum of ten (10) orthogonal frequency channels; • provide communications capacity for concurrent reception of two (2) independent voice COI and for transmission on either voice COI when selected; • operate within RADHAZ limits defined in this specification; • support a minimum of five (5) concurrent, non-overlapping voice COIs located within a circular area with two hundred (200) metre diameter for dismounted close combat operations; • distribute data and voice to all network-reachable ISS-S nodes subscribed to a defined COI; • provide single hop (i.e. direct path) or multi-hop (i.e. relay path) capability for data distribution to 	Test	The Contractor must prove through testing that the ISS-S meets all claimed requirement functions. Test to be done using at least six (6) ISS-S nodes to measure the channel characteristics including effects from adjacent channels. Tests should be conducted concurrently with other similar tests conducted in the Primary Operating Band.	No

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		extend the network range to at least two thousand (2000) metres in open terrain with data throughput equivalent or greater than data throughput measured in the Primary Operating Band; <ul style="list-style-type: none"> • using a network of ten (10) ISS-CS, communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster two thousand (2000) metres in diameter and no ISS-S is more than one thousand (1000) metres from another ISS-S; and • using a network of ten (10) ISS-CS, communicate voice and data with each other in an urban environment (as defined in Annex CE to Volume 2) where ISS-Ss are deployed in a randomly distributed cluster five hundred (500) metres in diameter. 			
2.2.5.5.3.0-7	TPS-5199	In addition to the 225 - 450 MHz band, the ISS-CS should operate in the 1210 - 1415 MHz frequency band (i.e. Secondary Operating Band) without having to change the ISS-CS hardware, while providing the following characteristics: <ul style="list-style-type: none"> • provide a minimum of ten (10) orthogonal frequency channels; • provide communications capacity for concurrent reception of two (2) independent voice COI and for transmission on either voice COI when selected; • operate within RADHAZ limits defined in this specification; • support a minimum of five (5) concurrent, non-overlapping voice COIs located within a circular area with two hundred (200) metre diameter for dismounted close combat operations; • distribute data and voice to all network-reachable ISS-S nodes subscribed to a defined COI; • provide single hop (i.e. direct path) or multi-hop 	Test	The Contractor must prove through testing that the ISS-S meets all claimed requirement functions. Test to be done using at least six (6) ISS-S nodes to measure the channel characteristics including effects from adjacent channels. Tests should be conducted concurrently with other similar tests conducted in the Primary Operating Band.	No

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		(i.e. relay path) capability for data distribution to extend the network range to at least two thousand (2000) metres in open terrain with data throughput equivalent or greater than data throughput measured in the Primary Operating Band; • using a network of ten (10) ISS-CS, communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster two thousand (2000) metres in diameter and no ISS-S is more than one thousand (1000) metres from another ISS-S; and • using a network of ten (10) ISS-CS, communicate voice and data with each other in an urban environment (as defined in Annex CE to Volume 2) where ISS-Ss are deployed in a randomly distributed cluster five hundred (500) metres in diameter.			
2.2.5.5.3.0-8	TPS-5201	In addition to the 225 - 450 MHz band, the ISS-CS should operate in the 2360 - 2473 MHz frequency band (i.e. Secondary Operating Band) without having to change the ISS-CS hardware, while providing the following characteristics: • provide a minimum of ten (10) orthogonal frequency channels; • provide communications capacity for concurrent reception of two (2) independent voice COI and for transmission on either voice COI when selected; • operate within RADHAZ limits defined in this specification; • support a minimum of five (5) concurrent, non-overlapping voice COIs located within a circular area with two hundred (200) metre diameter for dismounted close combat operations; • distribute data and voice to all network-reachable ISS-S nodes subscribed to a defined COI;	Test	The Contractor must prove through testing that the ISS-S meets all claimed requirement functions. Test to be done using at least six (6) ISS-S nodes to measure the channel characteristics including effects from adjacent channels. Tests should be conducted concurrently with other similar tests conducted in the Primary Operating Band.	No

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		<ul style="list-style-type: none"> • provide single hop (i.e. direct path) or multi-hop (i.e. relay path) capability for data distribution to extend the network range to at least two thousand (2000) metres in open terrain with data throughput equivalent or greater than data throughput measured in the Primary Operating Band; • using a network of ten (10) ISS-CS, communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster two thousand (2000) metres in diameter and no ISS-S is more than one thousand (1000) metres from another ISS-S; and • using a network of ten (10) ISS-CS, communicate voice and data with each other in an urban environment (as defined in Annex CE to Volume 2) where ISS-Ss are deployed in a randomly distributed cluster five hundred (500) metres in diameter. 			
2.2.5.5.4	TPS-3923	Spectrum Access Flexibility			
2.2.5.5.4.0-1	TPS-3924	Where spectrum availability is limited within a frequency band, the ISS-CS should have the capability to be programmed to operate with a reduced occupied bandwidth while providing a reduced level of service for five (5) or more voice COIs, one Blue PA COI, and ten (10) kilobits per second on one Data COI (point-to-point).	Analysis	<p>If the ISS-S configuration has not changed from P(Bid), no other analysis is required.</p> <p>Otherwise: The Contractor must provide a detailed description of the ISS-S behaviour when programmed to operate with a reduced occupied bandwidth. The Contractor must provide an analysis of how their ISS-S solution meets the requirement.</p>	No
2.2.5.5.4.0-2	TPS-5384	The ISS-CS should permit an ISS-S User to change between Primary Operating Band and Secondary Operating Bands within sixty (60) seconds and without requiring special devices.	Demo	<p>Demonstration The Contractor must demonstrate that the ISS-CS can switch between Primary Operating Band and Secondary Operating Bands as required.</p>	No

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				Demonstration to be done using at least two (2) ISS-S nodes.	
2.2.5.5.4.1	TPS-4072	Spectrum Efficiency			
2.2.5.5.4.2	TPS-4073	Occupied Bandwidth			
2.2.5.5.4.2.0-1	TPS-4075	The ISS-CS maximum occupied bandwidth (as defined in the Glossary in Volume 2, Annex CE) in the 225 - 450 MHz frequency band must be no more than 5 MHz with the following characteristics: - At +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) must be at 20 dB below peak power or less; and - At +/- 5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) must be at 60 dB below peak power or less.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. The test measurement techniques must be based on using 100 kHz resolution bandwidth (RBW) and 10 kHz video bandwidth (VBW) for making measurements both inside and outside the containment bandwidth.	No
2.2.5.5.4.2.0-2	TPS-5484	The ISS-CS maximum occupied bandwidth (as defined in the Glossary in Volume 2, Annex CE) the in the 225 - 450 MHz frequency band should be no more than 5 MHz with the following characteristics: - At +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 40 dB below peak power or less; and - At +/- 3.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 60 dB below peak power or less.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. The test measurement techniques must be based on using 100 kHz resolution bandwidth (RBW) and 10 kHz video bandwidth (VBW) for making measurements both inside and outside the containment bandwidth.	No
2.2.5.5.4.2.0-3	TPS-4252	The ISS-CS maximum occupied bandwidth (as defined in the Glossary in Volume 2, Annex CE) in the 225 - 450 MHz frequency band should be no more than 2.5 MHz with the following characteristics: - At +/- 1.25 MHz from the center frequency, the	Test	The Contractor must prove through testing that the ISS-S meets the requirement. The test measurement techniques must be based on using 100 kHz resolution bandwidth (RBW) and 10 kHz video bandwidth (VBW) for making	No

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		signal (including spurious and out-of-band emissions) should be at 20 dB below peak power or less; and - At +/- 3 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 60 dB below peak power or less.		measurements both inside and outside the containment bandwidth.	
2.2.5.5.4.2.0-4	TPS-3926	The ISS-CS maximum occupied bandwidth (as defined in the Glossary in Volume 2, Annex CE) in the 902 - 928 MHz frequency band should be no more than 2.5 MHz with the following characteristics: - At +/- 1.25 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 20 dB below peak power or less; and - At +/- 3 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 60 dB below peak power or less.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. The test measurement techniques must be based on using 100 kHz resolution bandwidth (RBW) and 10 kHz video bandwidth (VBW) for making measurements both inside and outside the containment bandwidth.	No
2.2.5.5.4.2.0-5	TPS-3927	The ISS-CS maximum occupied bandwidth (as defined in the Glossary in Volume 2, Annex CE) in the 1210-1415 MHz frequency band should be no more than 2.5 MHz with the following characteristics: - At +/- 1.25 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 20 dB below peak power or less; and - At +/- 3 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 60 dB below peak power or less.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. The test measurement techniques must be based on using 100 kHz resolution bandwidth (RBW) and 10 kHz video bandwidth (VBW) for making measurements both inside and outside the containment bandwidth.	No
2.2.5.5.4.2.0-6	TPS-3928	The ISS-CS maximum occupied bandwidth (as defined in the Glossary in Volume 2, Annex CE) in	Test	The Contractor must prove through testing that the ISS-S meets the	No

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		the 2360-2473 MHz frequency band should be no more than 5 MHz with the following characteristics: - At +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 20 dB below peak power or less; and - At +/- 3.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 60 dB below peak power or less.		requirement. The test measurement techniques must be based on using 100 kHz resolution bandwidth (RBW) and 10 kHz video bandwidth (VBW) for making measurements both inside and outside the containment bandwidth.	
2.2.5.5.5	TPS-278	Configuration Persistence			
2.2.5.5.5.0-1	TPS-879	The ISS-CS must store its radio and network configuration so that its devices can be powered off and restarted without requiring a new configuration.	Demo	The Contractor must demonstrate that radio and network configuration storage function is present and functions during a power cycle event as per the requirement.	No
2.2.5.5.5.0-2	TPS-1649	The ISS-CS must retain its radio and network configuration for a period of at least two (2) minutes or more upon removal of ISS Batteries.	Test	The Contractor must prove through testing that the ISS-S meets the requirement.	No
2.2.5.5.6	TPS-280	User Configurable Functions			
2.2.5.5.6.0-1	TPS-4258	The ISS-CS must provide a volume control for adjusting audio output levels presented to the User.	Demo	The Contractor must demonstrate that volume control function is present and adjusts audio output levels presented to the User as per the requirement.	No
2.2.5.5.7	TPS-281	Radio Device Interfaces			
2.2.5.5.7.0-1	TPS-4259	The ISS-CS must support one or more of the following interfaces: • IEEE 802.3 - Ethernet; • Universal Serial Bus - serial communications.	Contractor's Choice	The Contractor must provide evidence that ISS-CS interface requirements are met in their implementation as described in the requirement.	No
2.2.5.5.7.0-2	TPS-2646	The ISS-CS must provide an interface to make voice inputs and outputs available to the ISS-S Audio Display. The ISS-S Audio Display is defined in TPS-94.	Inspection	Contractor's qualification item must include a voice interface for use with an external audio display.	No

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2.2.5.5.8	TPS-282	Radio Antennas			
2.2.5.5.8.0-1	TPS-903	The ISS-CS must include a removable antenna.	Analysis	The Contractor must prove that a physical antenna is present. The Contractor must also provide a description of the antenna's physical characteristics including dimension, geometry, gain, connector type and the impedance presented by the antenna across the radio's communication band.	No
2.2.5.5.8.0-2	TPS-2167	The ISS-CS radio antenna must be interchangeable without requiring special tools.	Demo	Contractor must demonstrate that the original antenna can be removed and replaced with a second antenna. No tools are to be used. Standard issue tools for all Army soldiers may be used with Canada's approval.	No
2.2.5.5.9	TPS-906	Software-Defined Radio			
2.2.5.5.9.0-1	TPS-5202	The ISS-CS is expected to operate using a single radio waveform at run-time.			
2.2.5.5.9.0-2	TPS-907	The ISS-CS must use a software-defined radio that permits functional upgrades and technology insertion of the radio without modifying hardware or interfaces to the radio and use existing ISS-CS ports to perform the upgrades.	Analysis	The Contractor must provide a detailed description of how an alternate firmware can be applied to the ISS-CS which permits upgrades of single functions and the insertion of new technology (e.g. new waveforms). The analysis will identify available resources (volatile memory, CPU, interfaces, etc) which are potentially usable to affect the upgrades or technology insertion. The analysis must show that the upgrade is performed using existing ISS-CS ports and can be performed without sending the ISS-CS radio to a Contractor site.	No
2.2.5.5.9.0-3	TPS-832	The ISS-CS must permit replacement, in whole or part, of the entire physical layer software, including	Contractor's Choice	If the ISS-S configuration has not changed from P(Bid), no other analysis	No

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		layer elements, for enhanced performance without changing the physical device and associated interfaces.		is required. Otherwise: The Contractor must provide evidence that physical layer software requirements are met in their implementation as described in the requirement.	
2.2.5.5.9.0-4	TPS-4260	The ISS-CS must permit replacement, in whole or part, of the entire media access control layer software, including layer elements, for enhanced performance without changing the physical device and associated interfaces.	Contractor's Choice	If the ISS-S configuration has not changed from P(Bid), no other analysis is required. Otherwise: The Contractor must provide evidence that media access control layer software requirements are met in their implementation as described in the requirement.	No
2.2.5.5.10	TPS-277	Codec			
2.2.5.5.10.0-1	TPS-896	The ISS-CS should permit the replacement of radio voice codec without changing radio hardware and interfaces to the radio.	Contractor's Choice	The Contractor must provide evidence that replacement requirements are met in their implementation as described in the requirement. The Contractor must provide evidence that an alternate codec can function on the ISS-CS without hardware or interface changes.	No
2.2.6	TPS-98	Power and Data Infrastructure			
2.2.6.1	TPS-4446	General			
2.2.6.1.0-1	TPS-5470	The ISS-S is to be integrated with certain GFE. It is expected that the ISS-S provides data connectivity to the electronic GFE that are referenced in this specification. But the electronic GFE is expected to operate using its own power sources, hence the ISS-S is not expected to provide power to the electronic GFE.			

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2.2.6.1.0-2	TPS-4509	The ISS-S must complete eight (8) hours of continuous operation without recharge or replacement of any ISS Battery, where the eight (8) hours of operation are as per Section 3.1 Battlefield Day (BD) Profile (dividing all time for each task by three (3)) of Volume 2, Annex CB, Appendix 3 Mission Profile and Operation Mode Summary.	Test	The Contractor must perform a power consumption test and provide a test report and an results analysis as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements. The test report and analysis must prove that the ISS-S can complete eight (8) hours of continuous operation without recharge or replacement of any ISS Battery as per the requirement.	No
2.2.6.1.0-3	TPS-4510	The ISS-S should complete twenty-four (24) hours of continuous operation without recharge or replacement of any ISS Battery, where the twenty-four (24) hours of operation is as per Section 3.1 Battlefield Day (BD) Profile of Volume 2, Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary.	Test	The Contractor must perform a power consumption test and provide a test report and an results analysis as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements. The test report and analysis must prove that the ISS-S can complete twenty-four (24) hours of continuous operation without recharge or replacement of any ISS Battery as per the requirement.	No
2.2.6.2	TPS-4500	Power Sources			
2.2.6.2.1	TPS-5443	ISS Batteries			
2.2.6.2.1.0-1	TPS-5444	ISS Batteries must be provided with the ISS-S, where ISS Batteries includes the ISS Rechargeable Batteries, the ISS Non-Rechargeable Batteries and, if provided as part of the ISS-S, the ISS Battery Loading / Storage Devices.	Inspection	The Contractor must show the ISS Batteries, including the ISS Rechargeable Batteries, the ISS Non-Rechargeable Batteries and, if provided, the ISS Battery Loading / Storage Devices.	No
2.2.6.2.1.0-2	TPS-4449	The ISS-S must operate using the ISS Rechargeable Batteries and using the ISS Non-Rechargeable Batteries.	Contractor's Choice	The Contractor must prove that the ISS-S can operate using the ISS Rechargeable Batteries and the ISS Non-Rechargeable Batteries.	No

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2.2.6.2.1.0-3	TPS-5208	The ISS Non-Rechargeable Batteries must be manufactured and available from at least two different, independent vendors.	Contractor's Choice	<p>If the types of ISS Non-Rechargeable Batteries used on the ISS-S have not changed from P(Bid), no other verification is required.</p> <p>Otherwise:</p> <p>The Contractor must provide the part number for all ISS Non-Rechargeable Batteries that are required for their ISS-S to function that were not part of the bid ISS-S, and prove that those batteries are manufactured by at least two independent companies by providing name, address and point of contact of each companies. Canada reserves the right to verify with the companies. These batteries must be the same ones that are used throughout system verification, including for TPS-3919, TPS-4509 and TPS-4510.</p>	No
2.2.6.2.1.0-4	TPS-5173	The ISS-S should require as few ISS Battery types as possible.	Contractor's Choice	<p>If the types of batteries used on the ISS-S have not changed from P(Bid), no other verification is required.</p> <p>Otherwise:</p> <p>The Contractor must provide a count of the number of different battery types that are required to operate the ISS-S. The count must be provided within the test report and analysis performed as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements.</p>	No

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2.2.6.2.1.0-5	TPS-5209	The ISS-S User must not require any tools to replace ISS Batteries.	Contractor's Choice	The Contractor must prove that the ISS Batteries can be changed without the use of tools.	No
2.2.6.2.1.0-6	TPS-5179	The ISS Batteries must be replaceable by the ISS-S User while meeting the following performance parameters: - Replace the ISS Batteries without the loss of data on any ISS-S device; and - Replace the ISS Batteries and the ISS-S is fully operational within 30 seconds of replacing the ISS Batteries.	Demo	The Contractor must replace all ISS Batteries and demonstrate that: 1) The ISS-S does not lose any data when replacing the ISS Batteries; and 2) The ISS-S is fully operational within 30 seconds of replacing the ISS Batteries.	No
2.2.6.2.1.0-7	TPS-5445	The ISS Rechargeable Batteries must be chargeable using the Battery Charger Set.	Demo	The Contractor must demonstrate that the ISS Rechargeable Batteries can be charged using the Battery Charger Set.	No
2.2.6.2.1.0-8	TPS-4511	After 200 charge/discharge cycles, the ISS Rechargeable Batteries must store a charge of 80% of their rated capacity in amp-Hr.	Test	The Contractor must provide a test report that proves that the ISS Rechargeable Batteries retain 80% of their capacity after 200 recharge cycles. The following conditions are assumed for this test: • Temperature: 25° ± 10°C • Relative humidity: 20 to 80 percent • Atmospheric pressure: Site pressure	No
2.2.6.2.2	TPS-5446	ISS-ES Internal Batteries			
2.2.6.2.2.0-1	TPS-5447	If ISS-ES Internal Batteries are provided, the ISS-ES Internal Batteries must be included as part of the ISS-ES.	Contractor's Choice	If the ISS-S Power Architecture has not changed from P(Bid) or if the ISS-S does not include ISS-ES Internal Batteries, no other verification is required. Otherwise: The Contractor must describe their ISS-S power architecture, including where the ISS-ES Internal Batteries are located.	No

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2.2.6.2.2.0-2	TPS-5448	If ISS-ES Internal Batteries are provided, the ISS-ES Internal Batteries must be rechargeable.	Analysis	<p>If the ISS-S Power Architecture has not changed from P(Bid) or if the ISS-S does not include ISS-ES Internal Batteries, no other verification is required.</p> <p>Otherwise:</p> <p>The Contractor must describe their ISS-S power architecture, including where the ISS-ES Internal Batteries are located.</p>	No
2.2.6.2.2.0-3	TPS-5449	If ISS-ES Internal Batteries are provided, the ISS-ES Internal Batteries must be charged using the ISS Batteries without having to remove the ISS-ES Internal Batteries from their operational location, without having to remove the ISS Batteries from their operational location, and without any User-impact on the ISS-ES operation.	Demo	<p>If ISS-ES Internal Batteries are provided as part of the ISS-ES, the Contractor must demonstrate that the ISS-ES Internal Batteries get charged using the ISS Batteries while the User is wearing and operating the ISS-S.</p> <p>If ISS-ES Internal Batteries are not provided, the Contractor does not need to perform a demonstration.</p>	No
2.2.6.2.2.0-4	TPS-5451	If ISS-ES Internal Batteries are provided, the ISS-ES Internal Batteries must store a charge of 80% of their rated capacity in amp-Hr after 200 charge/discharge cycles.	Test	<p>If ISS-ES Internal Batteries are provided as part of the ISS-ES, the Contractor must provide a test report that proves that the ISS-ES Internal Batteries can retain 80% of their capacity after 200 recharge cycles. The following conditions are assumed for this test:</p> <ul style="list-style-type: none"> • Temperature: 25° ± 10°C • Relative humidity: 20 to 80 percent • Atmospheric pressure: Site pressure <p>If ISS-ES Internal Batteries are not provided, the Contractor does not need to provide any proof.</p>	No

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2.2.6.2.3	TPS-367	Power Monitoring			
2.2.6.2.3.0-1	TPS-5452	The ISS Rechargeable Batteries, excluding the Wireless PTT batteries, must include a State of Charge indication on the battery that indicates the ISS Rechargeable Battery's energy level, with the following minimum characteristics: <ul style="list-style-type: none"> • Indicate when the battery energy level is low; • Indicate when the battery energy level is between low and high; and • Indicate when the battery energy level is high. 	Test	The Contractor must provide a test report that proves that the State of Charge indicator for the ISS Rechargeable Batteries provides an indication to the User when the battery energy level is low, the battery energy level is between low and high, and the battery energy level is high. The test must prove that the energy level indications are representative of the description provided at bid time.	No
2.2.6.2.3.0-2	TPS-5453	The ISS Non-Rechargeable Batteries, excluding the Wireless PTT batteries, should include a State of Charge indication on the battery that indicates the ISS Non-Rechargeable Battery's energy level, with the following minimum characteristics: <ul style="list-style-type: none"> • Indicate when the battery energy level is low; • Indicate when the battery energy level is between low and high; and • Indicate when the battery energy level is high. 	Test	The Contractor must provide a test report that proves that the State of Charge indicator for the ISS Non-Rechargeable Batteries provides an indication to the User when the battery energy level is low, the battery energy level is between low and high, and the battery energy level is high. The test must prove that the energy level indications are representative of the description provided at bid time.	No
2.2.6.2.3.0-3	TPS-1732	For every connected ISS Battery, excluding the Wireless PTT batteries, the ISS-S Tactical User Interface must allow the User to see the State of Charge of the connected ISS Battery, indicating the energy level of every connected ISS Battery, with the following minimum characteristics: <ul style="list-style-type: none"> • Indicate when the battery energy level is low, in addition to generating an Advisory signal as described in TPS-5482; • Indicate when the battery energy level is between low and high; and • Indicate when the battery energy level is high. 	Test	The Contractor must provide a test report that proves that the Tactical User Interface provides a State of Charge indication to the User when the ISS Batteries energy level is low, the ISS Batteries energy level is between low and high, and the ISS Batteries energy level is high. The low energy level indication must also include an Advisory. The test must prove that the energy level indications are representative of the description provided at bid time.	No

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2.2.6.2.3.0-4	TPS-5454	If ISS-ES Internal Batteries are provided, the User must be able to know the State of Charge of every ISS-ES Internal Battery, indicating the energy level of every ISS-ES Internal Battery, with the following minimum characteristics: <ul style="list-style-type: none"> • Indicate when the battery energy level is low; • Indicate when the battery energy level is between low and high; and • Indicate when the battery energy level is high. 	Test	If ISS-ES Internal Batteries are provided as part of the ISS-ES, the Contractor must provide a test report that proves that the State of Charge indicator for the ISS-ES Internal Battery provides an indication to the User when the battery energy level is low, the battery energy level is between low and high, and the battery energy level is high. The test must prove that the energy level indications are representative of the description provided at bid time. If ISS-ES Internal Batteries are not provided, the Contractor does not need to provide any proof.	No
2.2.6.3	TPS-5455	Battery Charger Set			
2.2.6.3.0-1	TPS-5456	A Battery Charger Set must be provided to charge the ISS Rechargeable Batteries.	Contractor's Choice	The Contractor must prove that the Battery Charger Set can charge the ISS Rechargeable Batteries.	No
2.2.6.3.0-2	TPS-5493	The Battery Charger Set must charge an ISS Rechargeable Battery Set within eight (8) hours from a fully discharge condition to a fully charge condition.	Contractor's Choice	The Contractor must prove that the Battery Charger Set can charge a complete ISS Rechargeable Batteries Set in eight (8) hours. The number of ISS Rechargeable Batteries to charge must be as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements.	No
2.2.6.3.0-3	TPS-5457	The Battery Charger Set must accept and use the following power inputs to charge the ISS rechargeable batteries: <ul style="list-style-type: none"> - Alternating current (AC): 100V to 240V, 50Hz to 60Hz; and - Direct current (DC): 28VDC Nominal. 	Contractor's Choice	The Contractor must prove that the Battery Charger Set supports the power inputs specified in the requirement.	No
2.2.6.3.0-4	TPS-5458	The Battery Charger Set AC input used to charge	Demo	The Contractor must demonstrate that	No

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		the ISS rechargeable batteries must by default include a NEMA 5-15P connector that fits in standard Canadian wall sockets.		the Battery Charger Set AC input includes and uses a NEMA 5-15P connector that fits in standard Canadian wall sockets.	
2.2.6.3.0-5	TPS-5459	When the Battery Charger Set is used to charge the ISS Rechargeable Batteries, the User must be able to see the State of Charge of every ISS Rechargeable Battery, indicating the energy level of every ISS Rechargeable Battery, with the following minimum characteristics: - Indicate when the battery energy level is low; and - Indicate when the battery energy level is high.	Test	The Contractor must provide a test report that proves that when the ISS Rechargeable Batteries are being charged, the User can see the State of Charge of the batteries being charged. The test report must also prove that the State of Charge indicator provides an indication to the User when the battery energy level is low and when the battery energy level is high.	No
2.2.6.4	TPS-4748	Connectors and Wired Connectivity			
2.2.6.4.0-1	TPS-5337	One common set of ISS-S Connectors and Wired Connectivity Materiel (including all cables and wires) must support all the conceptual loads as defined in Volume 2, Annex CB, Appendix 9 - MLCS Conceptual Load while meeting all ISS-S requirements.	Contractor's Choice	The Contractor must prove that their ISS-S Connectors and Wired Connectivity solution can accommodate all the conceptual loads with on common set if ISS-S Connectors and Wired Connectivity.	No
2.2.6.4.0-2	TPS-5428	The ISS-S must not include any radio frequency connectivity between ISS-S physical devices except for the Wireless PTT Switch defined in TPS-5027, if provided.	Contractor's Choice	The Contractor must prove that their ISS-S does not use any radio frequency connectivity between ISS-S physical devices except for the Wireless PTT Switch defined in TPS-5027, if provided.	No
2.2.6.4.0-3	TPS-5176	The ISS-S User must not require any tools to mate and un-mate ISS-S connectors.	Demo	The Contractor must demonstrate that each ISS-S connector can be mated and unmated while without using tools.	No
2.2.6.4.0-4	TPS-4754	The ISS-S connectors, excluding the ISS Non-Rechargeable Battery connector located on the battery, must have a lifetime of at least 2,000 mating cycles without requiring any maintenance.	Test	The Contractor must provide a test report proving that the connector types used on the ISS-S still function after 2,000 mating cycles. Test report can exclude the mating cycles for the ISS	No

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				Non-Rechargeable Batteries.	
2.2.6.4.0-5	TPS-4755	The ISS-S connectors, excluding the ISS Non-Rechargeable Battery connector located on the battery, should have a lifetime of more than 2,000 mating cycles without requiring maintenance.	Test	The Contractor must provide a test report proving that the connector types used on the ISS-S Batteries still function after having been mated and unmated the claimed number of mating cycles. Test report can exclude the mating cycles for the ISS Non-Rechargeable Batteries.	No
2.2.6.4.0-6	TPS-5177	The ISS-S must provide protection against connecting devices incorrectly.	Contractor's Choice	The Contractor must prove that when performing connector mating and unmating operations, it is not possible to cause any physical damage to the ISS-S when: <ul style="list-style-type: none"> • Attempting to connect an ISS-S connector to every other ISS-S connector; and • Attempting to connect an ISS-S connector to every other ISS-S connector at an angle where mating is impossible. 	No
2.2.6.4.0-7	TPS-5178	The ISS-S computer must continue to operate within normal performance limits when a physical device, excluding the ISS Batteries and ISS-ES Internal Batteries, is being connected to it or being disconnected from it.	Demo	The Contractor must demonstrate that when any physical device is disconnected from the computer, applications that do not require that the physical device continue to function within normal performance limits and applications that require that physical device function with some level of degradation without affecting any other application. The Contractor must demonstrate that when any physical device is connected to the computer, all applications continue to function within normal performance	No

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				limits. ISS Batteries and ISS-ES Internal Batteries are excluded from this requirement.	
2.2.6.4.0-8	TPS-5382	The ISS-S must include a removable protective cover for every connector that is part of an ISS-S physical device, where the protective cover is attached to the ISS-S physical device.	Inspection	The Contractor must show that every ISS-S connector includes a removable protective cover and that all the protective covers are attached to the ISS-S.	No
2.2.6.5	TPS-4801	External interfaces			
2.2.6.5.0-1	TPS-4909	The ISS-S should include a general purpose USB interface, which is a different physical port than the USB interface referenced in requirement TPS-5419 and not used during ISS-S operation.	Demo	The Contractor must demonstrate that the USB interface can be used to connect and exchange information with a USB compatible device.	No
2.2.6.5.0-2	TPS-4911	The ISS-S should include a general purpose Ethernet interface, which is a different physical port than the Ethernet interface referenced in requirement TPS-5419 and not used during ISS-S operation.	Demo	The Contractor must demonstrate that the Ethernet interface can be used to connect and exchange information with Ethernet compatible device.	No
2.2.7	TPS-99	Sensor			
2.2.7.1	TPS-4970	Digital Camera			
2.2.7.1.0-1	TPS-4795	The ISS-S should import pictures to the ISS-S computer in one of two ways: • Interface with commercial digital cameras, which allows the ISS-S User to import imagery from at least three (3) commercially available cameras from three (3) different manufacturers; or • Include an integrated digital camera with the below characteristics within the ISS-S: - Digital zoom of at least x4; - Still imagery resolution of at least 640 pixels by 480 pixels; - A built-in flash; - Allows the ISS-S User to enable and disable	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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		the flash; - An automatic picture taking mode (point and shoot); - Allows the ISS-S User to disable all light emissions; - Does not emit any sounds or allows the ISS-S User to disable all emitted sounds; and - An auto off (i.e. shutdown) function.			
2.2.7.2	TPS-4976	CORAL-CR-C			
2.2.7.2.0-1	TPS-4486	The ISS-S must physically connect to, operate with and meet the interface specification of the CF in-service AN/PAS-503 CORAL-CR-C HHTI.	Demo	The Contractor must demonstrate that the ISS-S can connect to and exchange information with the CORAL-CR-C.	No
2.2.7.2.0-2	TPS-5325	The ISS-S must generate an accurately geo-referenced entity on the map when using the laser range finder function of the CORAL-CR-C.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.7.2.0-3	TPS-5327	The ISS-S must display the MGRS 10 grid reference with UTM map coordinates of an entity lased by the CORAL-CR-C.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.7.2.0-4	TPS-5386	The ISS-S should allow the ISS-S User to identify an entity on his/her map display generated by the CORAL-CR-C as one of the following: - A Quick Symbol as specified in TPS-4819; - An Enemy, Friendly, Neutral or Unknown as specified in TPS-1990; - A Tactical Graphic as specified in TPS-2012.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.8	TPS-104	System Management			
2.2.8.0-1	TPS-1037	System Management (SM) includes all the network administration background functions that are required to enable the main BMS and communication functions to work, including network management and configuration, individual ISS-S software and devices configuration, etc.			
2.2.8.0-2	TPS-1038	The ISS-S User system management capabilities are limited to monitoring the ISS-S and the			

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		network and installing configurations. Qualified ISS-S Users are expected to distribute configuration parameters, debug ISS-S nodes and monitor network health. ISS-S Users are expected to perform SM related functions on a software identified as the Configuration Application Software that is to run on the ISS-S. SEP functions include the configuration of parameters, network planning, BMS settings configuration, etc. The SEP is expected to perform his planning on a specialised planning software, accessible through a in-service CF-31 or Standalone PC. The software is identified here as the SEP-Suite.			
2.2.8.0-3	TPS-1039	Using the SEP-Suite, the SEP is responsible to create an ISS Network Plan for a given operation. It is expected that the ISS Network Plan will take the form of Configuration Files such that qualified personnel can load them on the ISS-S of their respective Users. Considering that the SEP is a Bn/Battle Group asset, he/she is to create an ISS Network Plan for four Coys within this Bn/Battle Group. That translates into more than 600 ISS-S. It is important that the concept of Configuration Files offers flexibility and simplicity for the SEP and the ISS-S User. Also, it is expected that the ISS Network Plan be available in human readable format. As part of the ISS Network Plan, the SEP will create COIs to which services (Voice, Data or Blue PA) will be assigned and network resources (frequencies, channels, time slots, etc...) will be allocated. It is expected that every ISS-S will be initially configured from a blank state with the possibility to reconfigure once deployed. It is expected that a User is to have the flexibility to join and leave any available COIs			

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2.2.8.1	TPS-2962	System Executive and Planning (SEP) Suite			
2.2.8.1.0-1	TPS-3043	The SEP-Suite must be installable and executable on an in-service CF-31 laptop, when operating with Windows XP and when operating with Windows 7, which is its only expected mode of operation.	Demo	The Contractor must install the SEP-Suite on an in-service CF-31 and provide a demonstration of the software applications. The SEP-Suite must work whether the CF-31 is operating with Windows XP or Windows 7.	No
2.2.8.1.0-2	TPS-5376	The SEP-Suite must be used to plan the configuration of the ISS-S nodes.	Demo	The Contractor must demonstrate that the SEP-Suite is used to plan the configuration of the ISS-S nodes.	Yes
2.2.8.1.0-3	TPS-5378	Once the ISS-S nodes are configured, the SEP-Suite must not be required to operate the ISS-S.	Demo	The Contractor must demonstrate that once the ISS-S nodes are configured, the SEP-Suite does not need to be used to operate the ISS-S nodes.	Yes
2.2.8.1.0-4	TPS-5377	Once the ISS-S nodes are configured, the ISS-S nodes must meet all TPS requirements without requiring any other device or infrastructure.	Contractor's Choice	The Contractor must prove that once the ISS-S nodes are configured, no other devices or infrastructures are required to operate the ISS-S nodes.	No
2.2.8.1.1	TPS-5387	Key Management Planning Tool			
2.2.8.1.1.0-1	TPS-5388	The SEP-Suite must include a Key Management Planning (KMP) tool.	Demo	The Contractor must demonstrate how the SEP-Suite KMP tool functions.	No
2.2.8.1.2	TPS-2966	Communication Network Planning			
2.2.8.1.2.1	TPS-5361	General			
2.2.8.1.2.1.0-1	TPS-4112	The SEP-Suite must include a Communication Network Planning (CNP) tool that allows the SEP to configure all parameter settings required for proper configuration of the ISS-S nodes.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to configure all parameter settings required for proper configuration of the ISS-S nodes.	Yes
2.2.8.1.2.1.0-2	TPS-1816	When using the CNP, the SEP must be able to plan and distribute an ISS Network Plan with all ISS-S devices starting from a blank state (no IP address or User name) and achieving a fully operational network where all ISS-S can exchange voice and data over-the-air.	Demo	The Contractor must demonstrate that CNP Tool allows the SEP to plan and distribute an ISS Network Plan with all ISS-S devices starting from a blank state (no IP address or User name) and achieving a fully operational network	Yes

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				where all ISS-S are capable of exchanging voice and data over-the-air.	
2.2.8.1.2.1.0-3	TPS-1157	The CNP should produce an ISS Network Plan in human readable format that captures all the configuration parameters included in the ISS Network Plan upon request from the SEP.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to produce an ISS Network Plan in human readable format that captures all the configuration parameters included in the ISS-S network plan.	No
2.2.8.1.2.2	TPS-2992	Prepare ISS Network Plan			
2.2.8.1.2.2.0-1	TPS-1132	The SEP must be able to create and save an ISS Network Plan using the ISS Communication Network Planning (CNP) tool.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to create and save an ISS Network plan using the ISS Communication Network Planning (CNP) tool.	No
2.2.8.1.2.2.0-2	TPS-3041	The CNP should allow a previous ISS Network Plan to be modified and saved as a new ISS Network Plan.	Demo	The Contractor must demonstrate that CNP Tool allows the SEP to modify a previous ISS Network Plan and save it as a new ISS Network Plan.	No
2.2.8.1.2.2.0-3	TPS-1139	When using the CNP, The SEP must be able to create and give unique names to all COIs in the ISS Network Plan.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to create and give unique names to all COIs in the ISS Network plan.	Yes
2.2.8.1.2.2.0-4	TPS-2998	When using the CNP, the SEP must be able to associate a service among the following to each COI: • Blue PA; • Data; • Voice.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.8.1.2.2.0-5	TPS-1135	When using the CNP, the SEP must be able to enter Frequencies and IP addresses and other required parameters based on imposed constraints.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to enter Frequencies and IP addresses and other required parameters based on imposed constraints.	Yes
2.2.8.1.2.2.0-6	TPS-3002	When using the CNP, the SEP must be able to	Demo	The Contractor must demonstrate that	Yes

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		allocate network resources to COIs.		the CNP Tool allows the SEP to allocate network resources to COIs.	
2.2.8.1.2.2.0-7	TPS-3003	The CNP must allow configuration of spare COIs.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to configure spare COIs.	Yes
2.2.8.1.2.2.0-8	TPS-2999	If the communications network requires configuration of relays, the CNP must allow for planning of relays.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to plan for relays.	Yes
2.2.8.1.2.2.0-9	TPS-3008	When using the CNP, the SEP must be able to assign network addresses to the communication devices.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to assign network addresses to the communication devices.	Yes
2.2.8.1.2.2.0-10	TPS-4930	The CNP must allow distribution of the ISS Network Plan to the individual ISS-S.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to distribute the ISS network plan to an individual ISS-S.	Yes
2.2.8.1.2.3	TPS-2994	Validation Plan			
2.2.8.1.2.3.0-1	TPS-3009	The CNP should identify network resource conflicts that are known to prevent the ISS Network to function.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to identify network resource conflicts that are known to prevent the ISS Network to malfunction.	Yes
2.2.8.1.2.4	TPS-2996	ORBAT			
2.2.8.1.2.4.0-1	TPS-1162	When using the CNP, the SEP should be able to create an ISS ORBAT based on a predefined list of at least 300 positions that can include the following groups: • Platoon; • Section; • Detachment. Examples of Coy and PI size ORBAT are illustrated in Section 5 of Volume 2, Annex CB, Appendix 10.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes

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2.2.8.1.2.4.0-2	TPS-2997	The ORBAT should be presented in a hierarchical format.	Demo	The Contractor must demonstrate that the ORBAT can be presented in a hierarchical format.	No
2.2.8.1.2.4.0-3	TPS-3005	When using the CNP, the SEP should be able to assign ISS-S Users to specific COIs based on the ORBAT.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.8.1.2.4.0-4	TPS-1140	The CNP should provide a way to ensure that all ORBAT positions are included in the ISS Network Plan.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.8.1.2.4.0-5	TPS-2936	The SEP should be able to use the CNP tool's ORBAT to build multiple platoon-level (i.e. up to 45 nodes) ISS Network Plans. Examples of Coy and PI size ORBAT are illustrated in Section 5 of Volume 2, Annex CB, Appendix 10.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.8.1.2.5	TPS-4929	Alternate ISS Network Plan			
2.2.8.1.2.5.0-1	TPS-3004	When using the CNP, the SEP should be able to develop an alternate ISS Network Plan using a different part of the frequency spectrum.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to develop an alternate ISS Network Plan using a different part of the frequency spectrum.	No
2.2.8.1.2.5.0-2	TPS-4936	When using the CNP, the SEP should be able to distribute the alternate ISS Network Plan using the same mean as for the main ISS Network Plan.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.8.1.2.5.0-3	TPS-1064	The ISS-S User should be able to select an alternate ISS Network Plan saved on his system without having to restart the system.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.8.1.3	TPS-2969	Map Distribution			
2.2.8.1.3.0-1	TPS-1818	When using the SEP-Suite, the SEP must be able to import the maps defined in TPS-1921 and distribute them to individual ISS-S.	Demo	The Contractor must demonstrate that the SEP-Suite allows the SEP to import the maps defined in TPS-1921 and distribute them to individual ISS-S.	Yes
2.2.8.1.3.0-2	TPS-5466	If conversion or modification to the maps is required in order to meet TPS-1818, the maps	Contractor's Choice	The Contractor must prove the maps being distributed to individual ISS-S	No

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		being distributed to individual ISS-S must retain the same level of details and precision as the original maps.		retain the same level of details and precision as the original maps.	
2.2.8.1.4	TPS-2968	Battle Management Software Configuration			
2.2.8.1.4.1	TPS-1792	Blue PA messages reporting parameters			
2.2.8.1.4.1.0-1	TPS-1793	When using the SEP-Suite, the SEP should be able to configure the Blue PA reporting in terms of time and distance as specified in TPS-2587 and TPS-4820 with the following settings: 1) Automatic Blue PA reporting based on time = ON/OFF; 2) Time interval value for Blue PA reporting = x seconds.; 3) Automatic Blue PA reporting based on distance = ON/OFF; and 4) Distance interval value for Blue PA reporting = x meters.	Demo	The Contractor must demonstrate that the SEP-Suite has the following Blue PA messages settings: 1) Time-Based Automation - ON/OFF; 2) Time Interval; 3) Distance-Based Automation - ON/OFF; 4) Distance Interval.	Yes
2.2.8.1.4.1.0-2	TPS-1800	The default Time-Based Automation setting should be that Blue PA report messages are sent after the Time interval has passed.	Demo	The Contractor must demonstrate that for Blue PA Time-Based Automation, messages are sent after the Time interval has passed.	No
2.2.8.1.4.1.0-3	TPS-1802	When using the SEP-Suite, the SEP should be able to configure the Blue PA reporting time interval in increments of 5 sec. starting at 5 sec. and up to at least 1 min.	Demo	The Contractor must demonstrate that the SEP-Suite allows the SEP to configure the Blue PA reporting time interval in increments of 5 sec. starting at 5 sec. and up to at least 1 min.	No
2.2.8.1.4.1.0-4	TPS-1806	The default Distance-Based Automation setting should be that Blue PA report messages are sent after the user has travelled passed the Distance interval.	Demo	The Contractor must demonstrate that the Blue PA Distance-Based Automation setting should be that Blue PA messages are sent after the user has travelled passed the Distance interval.	No
2.2.8.1.4.1.0-5	TPS-1808	When using the SEP-Suite, the SEP should be able to configure the Blue PA reporting distance interval in increments of 5 m starting at 5 m and up	Demo	The Contractor must demonstrate that the SEP-Suite allows the SEP to configure the Blue PA reporting distance	No

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		to at least 50 m.		interval in increments of 5 m starting at 5 m and up to at least 50 m.	
2.2.8.2	TPS-5401	Configuration Application Software			
2.2.8.2.0-1	TPS-4034	The ISS-S User should be able to measure and analyse the total message traffic within COIs and provide traffic analysis to determine operational status and isolate operational irregularities.	Demo	The Contractor must demonstrate that the ISS-S allows an ISS-S User to measure and analyse the total message traffic within COIs and provide traffic analysis to determine operational status and isolate operational irregularities.	No
2.2.8.2.0-2	TPS-1066	The ISS-S User should be able to monitor data transfer progress.	Demo	The Contractor must demonstrate that the ISS-S User can monitor data transfer progress.	No
2.2.8.2.0-3	TPS-1109	The ISS-S User should be able to perform an automated network connectivity test on any COI.	Demo	The Contractor must demonstrate that an ISS-S User can perform an automated network connectivity test on any COI.	No
2.2.8.2.0-4	TPS-4938	The Automated network connectivity test should verify that data can be sent and received to and from all ISS-S registered on the COI.	Demo	The Contractor must demonstrate that an automated network connectivity test verifies that data can be sent and received to and from all ISS-S registered on the COI.	No
2.2.8.3	TPS-2963	User Profile			
2.2.8.3.0-1	TPS-5143	Several ISS-S Users are required to change some of their ISS-S configuration parameters and/or individual settings such as COIs, ORBAT positions, frequencies, etc... during a course of an operation. It would be advantageous to the ISS-S User that his/her last used ISS-S configuration parameters and/or individual settings prior to a log-off are saved and recovered upon log-in under a specific User Profile. The concept of a "User Profile" is defined as a logical grouping of user specific settings such as list of COI a given user may			

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		access, rank and position of a user and other such items that may pertain to an individual user and be used for individual accountability.			
2.2.8.3.0-2	TPS-5468	The ISS-S User should be assigned a specific User Profile based on his/her specific configuration parameters.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.8.3.0-3	TPS-5144	The ISS-S access control should store multiple "User Profile" while only allowing a single profile to be active at any given time.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.8.3.0-4	TPS-1055	The ISS-S User must be able to view a list of all COIs he can select.	Demo	The Contractor must demonstrate that the ISS-S User can view a list of all COIs he can select.	No
2.2.8.3.0-5	TPS-2972	The list of COIs on the ISS-S must indicate their associated service types (Voice, Data or Blue PA).	Demo	The Contractor must demonstrate that the list of COIs indicate their associated service types (Voice, Data or Blue PA).	No
2.2.8.3.0-6	TPS-1058	The ISS-S User must be able to join and leave any COI from the list of COIs.	Demo	The Contractor must demonstrate that the ISS-S User can join and leave any COI from the list of COIs.	Yes
2.2.8.3.0-7	TPS-1060	The ISS-S User must be able to view to which COIs he is a member.	Demo	The Contractor must demonstrate that the ISS-S User can view which COIs he is a member.	No
2.2.8.3.0-8	TPS-2933	Upon log-in, the ISS-S User should be able to select their ORBAT position based on a predefined list of positions.	Demo	The Contractor must demonstrate how an ISS-S User can select his ORBAT position after log-in procedures.	Yes
2.2.8.3.0-9	TPS-4183	The ISS-S User should be able to modify his ORBAT position based on a predefined list of positions without rebooting the system.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.8.4	TPS-4926	Configuration Files			
2.2.8.4.0-1	TPS-3015	All parameters configured using the SEP-Suite should be distributed using Configuration Files.	Demo	The Contractor must demonstrate that the SEP-Suite allows the SEP to distribute the Configuration files.	Yes
2.2.8.4.0-2	TPS-4931	The CNP should allow distribution of the ISS Network Plan to the individual ISS-S by saving it in a Configuration File.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to distribute the ISS network plan to the	No

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				individual ISS-S by saving it in a Configuration File.	
2.2.8.4.0-3	TPS-4933	When using the SEP-Suite, the SEP should be able to transfer Configuration files to an External Data Storage Device.	Demo	The Contractor must demonstrate that the SEP-Suite allows the SEP to transfer Configuration files to an External Data Storage Device.	No
2.2.8.4.0-4	TPS-1083	The ISS-S User should be able to transfer Configuration Files between the Main and External Data Storage Devices.	Demo	The Contractor must demonstrate that the ISS-S allows the ISS-S User to transfer Configuration Files between the Main and External Data Storage Devices.	No
2.2.8.4.0-5	TPS-2977	The ISS-S User should be able to configure his ISS-S using Configuration Files saved on his Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S User is able to configure his ISS-S using configuration files saved on his Main Data Storage.	No
2.2.8.4.0-6	TPS-1081	The ISS-S User should be able to view the current Configuration File identifier and time-stamp.	Demo	The Contractor must demonstrate that the ISS-S User is able to view the current Configuration file identifier and time-stamp.	No
2.2.8.4.0-7	TPS-3033	The ISS-S User should be able to transfer Configuration Files to other ISS-S over-the-air.	Demo	The Contractor must demonstrate that the ISS-S User is able to distribute Configuration files over-the-air from one ISS-S to another.	No
2.2.8.4.0-8	TPS-1103	The ISS-S User should be able to review the configuration settings included in Configuration Files, in human readable form, to verify completeness.	Demo	The Contractor must demonstrate that the ISS-S User is able to review the configuration settings included in Configuration Files, in human readable form, to verify completeness.	No
2.2.8.5	TPS-223	Application Management			
2.2.8.5.0-1	TPS-1199	The ISS-S software and firmware must be replaceable using existing ISS-S ports.	Demo	The Contractor must demonstrate that trained personnel is able to install new firmware, software or software versions on any ISS-S by using existing ISS-S ports and without having to send any	No

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Para	TPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
				device to a Contractor site.	
2.2.9	TPS-5417	LCSS Data Interoperability			
2.2.9.1	TPS-5418	Data Infrastructure			
2.2.9.1.0-1	TPS-5419	The ISS-S must include an LCSS interface in the form of an IEEE 802.3 Ethernet port or a USB port for data exchange with the LCSS.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.9.2	TPS-1544	Battle Management System			
2.2.9.2.0-1	TPS-4184	The ISS-S must exchange the following information with LCSS through a wired network connections via the LCSS interface using the Variable Message Format (VMF) as described in the MIL-STD-6017A: - K02.4 Call For Fire; - K04.1 Observation Report; - K05.1 Position Report; - K05.14 Situation Report; and - K07.1 Medical Evacuation Request.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.9.2.0-2	TPS-5501	Every VMF message that the ISS-S exchanges via the LCSS interface must use a VMF header that conforms to MIL-STD-2045-47001Dch1.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.9.2.0-3	TPS-878	The ISS-S applications using the LCSS interface should support Differentiated Services Code Points in packets (as defined in IETF RFC 2474, 2475 and 3260) for integration with the Land Command Support System (LCSS).	Demo	Contractor must demonstrate that DiffServ-marked packets from an LCSS network can be treated with priority on a loaded ISS-CS network. Also, Contractor must demonstrate that outgoing packets from the ISS-CS to an external LCSS network can be marked with DiffServ markings in accordance with LCSS-defined priorities.	No
2.2.9.3	TPS-2650	Communications			
2.2.9.3.1	TPS-3929	Networking			
2.2.9.3.1.0-1	TPS-5420	The ISS-S LCSS Interface must default to the use of private address spaces as defined in IETF RFC 1918.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No

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Para	TPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
2.2.9.3.1.0-2	TPS-5421	The ISS-S LCSS Interface should allow system management to reconfigure the system to interoperate with other IETF IPv4-compliant network equipment using standard IPv4 unicast address spaces other than those defined in IETF RFC 1918.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.9.3.1.0-3	TPS-5422	If IP multicast is used in support of the ISS-S LCSS Interface, the ISS-S LCSS Interface must comply with IETF RFC 5771.	Demo	If IP multicast is used in support of the ISS-S LCSS Interface, the Contractor must demonstrate that the ISS-S LCSS Interface supports IP multicast and complies with IETF RFC 5771. If IP multicast is not used, the Contractor must demonstrate how the ISS-S can support multicast services.	No
2.2.9.3.1.0-4	TPS-5423	The ISS-S LCSS Interface must support the User Datagram Protocol (UDP) as defined in IETF STD 0006 and Internet Protocol as defined in IETF STD 0005.	Demo	The Contractor must demonstrate that the ISS-S LCSS Interface supports the User Datagram Protocol (UDP) as defined in IETF STD 0006 and Internet Protocol as defined in IETF STD 0005.	No
2.2.9.3.1.0-5	TPS-5424	The ISS-S LCSS Interface must support a Maximum Transmission Unit (MTU) of 1500 bytes without IPv4 fragmentation.	Analysis	The Contractor must provide documentation proving the MTU size of the ISS-S LCSS Interface.	No

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APPENDIX 2 TO ANNEX CB TO VOLUME 2

USER ACCEPTANCE PERFORMANCE SPECIFICATIONS (UAPS) FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
1	UAPS-142	Hardware			
1.1	UAPS-54	System Assembly			
1.1.1	UAPS-145	System Assembly			
1.1.1.0-1	UAPS-10	The system assembly of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If system assembly aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
1.1.1.0-2	UAPS-153	The system assembly of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If system assembly aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
1.2	UAPS-60	Input Device Usability			
1.2.1	UAPS-61	Text Entry Capability			

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
1.2.1.0-1	UAPS-62	The text entry capability of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If text entry aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.2.1.0-2	UAPS-154	The text entry capability of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If text entry aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.2.2	UAPS-63	Text Messaging			
1.2.2.0-1	UAPS-17	The communication text messaging function of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If text messaging aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
1.2.3	UAPS-64	Pointing / Selecting Controls			
1.2.3.0-1	UAPS-65	The controls for pointing/selecting (includes tabbing, drawing, and menu selection) of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If controls for pointing/selecting aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
1.2.3.0-2	UAPS-155	The controls for pointing/selecting (includes tabbing, drawing, and menu selection) of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If controls for pointing/selecting aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
1.2.4	UAPS-66	Device Controls			

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
1.2.4.0-1	UAPS-67	The device controls (includes PTT and other hardware controls) of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If device control aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.2.4.0-2	UAPS-156	The device controls (includes PTT and other hardware controls) of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If device control aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.3	UAPS-69	Displays			
1.3.1	UAPS-70	Daytime Visual Display			

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
1.3.1.0-1	UAPS-71	The daytime visual display(s) of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If daytime visual display aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.3.1.0-2	UAPS-157	The daytime visual display(s) of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If daytime visual display aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.3.2	UAPS-72	Night-time Visual Display Operation			
1.3.2.0-1	UAPS-73	The night time operation of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If night time operation aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
1.3.2.0-2	UAPS-158	The night-time operation of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If night-time operation aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.3.3	UAPS-74	Audio Display Physical Design			
1.3.3.0-1	UAPS-9	The audio display(s) physical design of the ISS-S should achieve a high degree of user acceptance.	Contractor's Choice	If audio display aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.3.4	UAPS-75	Voice Communications			

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
1.3.4.0-1	UAPS-78	The voice communication function of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If voice communication aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.3.4.0-2	UAPS-159	The voice communication function of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If voice communication aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.3.5	UAPS-76	Natural Hearing Restoration			
1.3.5.0-1	UAPS-77	The ability for the ISS-S audio display to provide natural hearing restoration (sound localization and sound discrimination) must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If audio display aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
1.3.5.0-2	UAPS-160	The ability for the ISS-S audio display to provide natural hearing restoration (sound localisation and sound discrimination) should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If audio display aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.3.6	UAPS-79	Audio Display Canalphones Fit	-	-	-
1.3.6.0-1	UAPS-130	The fit of the audio display of the ISS-S must be acceptable to at least 70% of soldiers, for use under operational conditions.	Contractor's Choice	If audio display aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.3.7	UAPS-146	Security / Stability			

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
1.3.7.0-1	UAPS-82	The security/stability of the ISS-S Audio Display canalphones must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If security/stability aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.3.7.0-2	UAPS-161	The security/stability of the ISS-S Audio Display canalphones should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If security/stability aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.4	UAPS-56	Suitability for Right and Left-handed Users	-	-	-
1.4.1	UAPS-147	Suitability for Right Handed Users	-	-	-

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
1.4.1.0-1	UAPS-41	The ISS-S must be acceptable for use under operational conditions to right handed soldiers.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.4.2	UAPS-148	Suitability for Left-handed Users	-	-	-
1.4.2.0-1	UAPS-58	The ISS-S must be acceptable for use under operational conditions to left handed soldiers.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
2	UAPS-143	Software			
2.1	UAPS-83	Graphical User Interface			
2.1.1	UAPS-84	System-Level Graphical User Interface			

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
2.1.1.0-1	UAPS-85	The system-level Graphical User Interface of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If system-level Graphical User Interface aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
2.1.1.0-2	UAPS-162	The system-level Graphical User Interface of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If system-level Graphical User Interface aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
2.1.2	UAPS-86	User Interface Response Time			

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
2.1.2.0-1	UAPS-46	The ISS-S user interface response time should be completely acceptable to soldiers under operational conditions.	Contractor's Choice	<p>If system-level Graphical User Interface aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
2.1.3	UAPS-87	BMS Navigation			
2.1.3.0-1	UAPS-88	The BMS Navigation function of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If navigation function aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
2.1.3.0-2	UAPS-163	The BMS Navigation function of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If navigation function aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
2.1.4	UAPS-89	BMS Planning			
2.1.4.0-1	UAPS-90	The BMS planning function of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If planning function aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
2.1.4.0-2	UAPS-164	The BMS planning function of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If planning function aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
2.1.5	UAPS-91	BMS - PA/SA			
2.1.5.0-1	UAPS-92	The BMS position and situation awareness function of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If position and situation awareness aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
2.1.5.0-2	UAPS-165	The BMS position and situation awareness function of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If position and situation awareness aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
2.1.6	UAPS-94	Target Designation Usability			

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
2.1.6.0-1	UAPS-18	The target designation capability of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If target designation aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
2.1.6.0-2	UAPS-166	The target designation capability of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If target designation aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
2.1.7	UAPS-96	Target Hand-off Usability			
2.1.7.0-1	UAPS-19	The target hand off capability of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If target hand off aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
2.1.7.0-2	UAPS-167	The target hand-off capability of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If target hand-off aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3	UAPS-144	System Functionality			
3.1	UAPS-103	Mobility			
3.1.1	UAPS-149	Mobility			
3.1.1.0-1	UAPS-104	While wearing the ISS-S, dismounted soldier mobility must be acceptable to soldiers while under operational conditions.	Contractor's Choice	If mobility aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
3.1.1.0-2	UAPS-168	While wearing the ISS-S, dismounted soldier mobility should be completely acceptable to soldiers while under operational conditions.	Contractor's Choice	If mobility aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.2	UAPS-112	Compatibility			
3.2.1	UAPS-113	Personal Weapons Compatibility			
3.2.1.0-1	UAPS-114	The ISS-S must be acceptable to soldiers under operational conditions with C7A2 and 9mm pistol.	Contractor's Choice	If weapons compatibility aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
3.2.1.0-2	UAPS-169	The ISS-S should be completely acceptable to soldiers under operational conditions with C7A2 and 9mm pistol.	Contractor's Choice	If weapons compatibility aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.2.2	UAPS-115	Platoon Weapons Compatibility			
3.2.2.0-1	UAPS-116	The ISS-S must be acceptable to soldiers under operational conditions with C9A2, C7A2 M203, M72 SRAAW (L), grenade - fragmentation and smoke, CARL GUSTAV SRAAW (M).	Contractor's Choice	If weapons compatibility aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.2.2.0-2	UAPS-170	The ISS-S should be completely acceptable to soldiers under operational conditions with C9A2, C7A2 M203, M72 SRAAW (L), grenade - fragmentation and smoke, CARL GUSTAV SRAAW (M).	Contractor's Choice	If weapons compatibility aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
3.2.3	UAPS-117	PPE Compatibility			
3.2.3.0-1	UAPS-118	The ISS-S must be acceptable to soldiers under operational conditions with their Personal Protective Equipment defined as: fragmentation vest with the CG634 and ballistic eyewear.	Contractor's Choice	<p>If PPE compatibility aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
3.2.3.0-2	UAPS-171	The ISS-S should be completely acceptable to soldiers under operational conditions with their Personnel Protective Equipment defined as: fragmentation vest with the CG634 and ballistic eyewear.	Contractor's Choice	<p>If PPE compatibility aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
3.2.4	UAPS-124	Other Equipment Compatibility			
3.2.4.0-1	UAPS-125	The ISS-S must be acceptable to soldiers under operational conditions with the PRC-152/148 radio, AN/PVS-14 (MNVG), GF hydration system, CTS small pack, CTS ruck sack, and individual floatation device.	Contractor's Choice	<p>If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
3.2.4.0-2	UAPS-172	The ISS-S should be completely acceptable to soldiers under operational conditions with the PRC-152/148 radio, AN/PVS-14 (MNVG), CF hydration system, CTS small pack, CTS ruck sack, and individual floatation device.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.2.5	UAPS-126	Vehicle Compatibility			
3.2.5.0-1	UAPS-127	The ISS-S must be acceptable to soldiers for use under operational conditions with the following vehicles: G Wagon and LAV III.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.2.5.0-2	UAPS-173	The ISS-S should be acceptable to soldiers for use under operational conditions with the following vehicles: G-Wagon and LAV III.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.2.6	UAPS-119	CBRN Compatibility			

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
3.2.6.0-1	UAPS-139	The ISS-S should be completely acceptable to soldiers for use under operational conditions with the C4 gas mask, gas mask carrier and CF CBRN drills.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.3	UAPS-150	Compatibility - Handwear			
3.3.1	UAPS-120	Overall Handwear Compatibility			
3.3.1.0-1	UAPS-121	The ISS-S must be acceptable to soldiers under operational conditions with the in-service gloves.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.3.1.0-2	UAPS-174	The ISS-S should be completely acceptable to soldiers under operational conditions with the in-service gloves.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.3.2	UAPS-140	Handwear - Audio Display Wired PTT			

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
3.3.2.0-1	UAPS-50	The ISS-S Audio Display Wired PTT Switch (as defined in TPS-4400) <u>should</u> be <u>completely</u> acceptable to soldiers for use under operational conditions with temperate combat gloves, Mortar gloves, and CBRN gloves.	Contractor's Choice	If Audio Display Wired PTT Switch aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.3.3	UAPS-141	Handwear - Audio Display Wireless PTT			
3.3.3.0-1	UAPS-123	The ISS-S Audio Display Wireless PTT (as defined in TPS-5027) should be completely acceptable to soldier under operational conditions for compatibility with temperate gloves, Mortar gloves, and CBRN gloves.	Contractor's Choice	If Audio Display Wireless PTT Switch aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.4	UAPS-105	Fit and Adjustability			
3.4.1	UAPS-151	Fit and Adjustability			

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
3.4.1.0-1	UAPS-106	The overall fit and adjustability of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.4.1.0-2	UAPS-175	The overall fit and adjustability of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.5	UAPS-107	Comfort			
3.5.1	UAPS-108	Body Physical Comfort			
3.5.1.0-1	UAPS-109	The overall impact of the ISS-S on body physical comfort (below the neck) must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
3.5.1.0-2	UAPS-176	The overall impact of the ISS-S on body physical comfort (below the neck) should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.5.2	UAPS-137	Head / Ear Physical Comfort			
3.5.2.0-1	UAPS-138	The overall impact of the ISS-S on head (including ears) and neck comfort should be completely acceptable to soldier under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.5.3	UAPS-110	Thermal Comfort			
3.5.3.0-1	UAPS-111	The overall impact of the ISS-S on thermal comfort should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.6	UAPS-98	Combat Load Compatibility			
3.6.1	UAPS-99	Combat Load Accessibility			

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
3.6.1.0-1	UAPS-100	Overall combat load accessibility must be acceptable to soldiers wearing the ISS-S, for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.6.1.0-2	UAPS-177	Overall combat load accessibility should be completely acceptable to soldiers wearing the ISS-S, for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.6.2	UAPS-101	Combat Load Configurability / Modularity			
3.6.2.0-1	UAPS-102	ISS-S combat load modularity/configurability must be acceptable to soldiers wearing the ISS-S, for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
3.6.2.0-2	UAPS-178	ISS-S combat load modularity/configurability should be completely acceptable to soldier for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.6.3	UAPS-131	Combat Load Capacity			
3.6.3.0-1	UAPS-133	Overall combat load capacity must be acceptable to soldiers wearing the ISS-S, for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.6.3.0-2	UAPS-179	Overall combat load capacity should be completely acceptable to soldiers wearing the ISS-S, for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.6.4	UAPS-134	ISS-S Component Modularity / Configurability			

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
3.6.4.0-1	UAPS-135	ISS-S component modularity/configurability should be completely acceptable to soldiers wearing the ISS-S, for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.7	UAPS-128	Detectability			
3.7.1	UAPS-152	Detectability			
3.7.1.0-1	UAPS-129	The overall impact of the ISS-S on detectability must be acceptable to soldiers, for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.7.1.0-2	UAPS-180	The overall impact of the ISS-S on detectability should be completely acceptable to soldiers, for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No

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APPENDIX 3 TO ANNEX CB TO VOLUME 2

MISSION PROFILES AND OPERATIONAL MODE SUMMARY FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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HISTORY

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1. Introduction

1.1 The ISS-S Mission Profile is a time-phased description of the operational events and environments that the ISS-S will be subjected to from the start to the end of a specific mission. Activities, durations, operating conditions, and environmental conditions are identified for each mission. This is described in terms of the Operational Environment and specific Mission Profiles.

1.2 The Operational Mode Summary provides a compilation of the missions, operating conditions and environments the ISS-S population will expect to see over its useful life cycle. It is described from the perspective of Mission Cycles / Life Expectancy, Environmental Profiles, Climatic Conditions, Mobility Modes and Component Usage.

1.3 In determining the usage for some components of the ISS-S, time (or system operating hours) may not be the most adequate measure. In some cases, the number of cycles may be more appropriate. These special cases are identified in section 5 - Special Component Usage, where the component, measures and expected values are provided to relate their usage to the system operating time.

2. Operational Environment

2.1 The ISS-S is to operate within the Army of Tomorrow Land Operations 2021 Adaptive Dispersed Operations (ADO) Force Employment Concept (FEC), which is characterized by adaptable, networked, and integrated manoeuvre forces. These forces will alternatively disperse and aggregate over extended distances to identify, influence, and defeat the full spectrum threats. As such, the ISS-S will be deployed world-wide across the full spectrum of terrain and climates, including jungle, mountain, tundra, desert, arctic, coastal regions, complex high density urban, etc.

2.2 The climates, induced environments and mobility platforms expected are detailed in the Environmental Profiles section below.

2.3 The majority of the operators of the ISS-S will be Infantry Officers and Non Commissioned Members (NCMs) that are required to work as part of an aggressive, disciplined team. In determining the various mission profiles expected for the ISS-S over its entire life cycle, the expected tasks and activities of an infantry soldier, working within this team, through the various phases of deployment and training, are used as the baseline. An infantry soldier is a soldier within the Land Component of a Mission Specific Task Force (MSTF) who is normally a member of the Combat Arms and who is required to undertake the tasks identified at Table 1 below as a dismounted combatant. This user is qualified at the Basic Infantry Qualification level and is employable within a rifle section as a Rifleman.

Table 1 – Key Dismounted Soldier Tasks

Serial	Description	Task
1	Tasks primarily related to immediate combat or the preparation for immediate combat	Detect, locate and identify targets Engage threat targets Fight at close quarters Adopt fire positions Conduct patrols Move undetected Prepare defensive fighting positions Emplace obstacles Overcome obstacles Employ camouflage Determine location and bearing Communicate with the chain of command Participate in CBRN operations
2	Tasks related to planning/logistic preparation	Gather tactical information Prepare reports Move cross country out of contact Communicate Participate in operations other than war Mount/dismount tactical transport
3	Tasks primarily related to sustainability	Administer medical first aid Prepare and consume nutrition Carry heavy loads Rest and conduct personal hygiene Set-up/operate equipment Maintain/repair equipment Employ survival techniques

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3. Mission Profiles

The ISS-S will typically be deployed within a MSTF, whose expected operational mission profile will follow an average twenty-four (24) hour Battlefield Day (BD). Outside of MSTF use, the ISS-S will be subjected to Pre-deployment Training and Reconstitution Phase usages. Each of these profiles will be described below.

3.1 Battlefield Day (BD) Profile

The Baseline User, over an average twenty-four (24) hour BD, can be expected to undertake the following representative activities:

- a. Rest - five (5) hours (broken into blocks, not continuous);
- b. Miscellaneous Work - two (2) hours;
- c. Dismounted patrol /advance to contact - seven (7) hours (carrying a loaded patrol pack);
- d. Sentry - four (4) hours;
- e. Travel in tactical transport - two (2) hours;
- f. Eat/hydrate - one (1) hour (broken into blocks); and
- g. Combat - three (3) hours.

3.1.1 Table 2 shows the expected operating times, by BD activity, that the Tactical User Interface will be used / viewed by the User, as well as the expected amount of time that the Communication device will spend in Standby, Transmit, and Receive modes, considering voice, data and geo-referencing positional awareness (Blue PA) requirements. The ISS-S electronic components will be in a power-on state for the entire BD with the exception of the Rest - No Activity portion where the ISS-S will be turned off and the Travel in Tactical Transport activity where the radio will be turned off. See section 6 - Basic Assumptions for Usage Determination, for an explanation of the assumptions used to determine Tactical User Interface and Communication device usage.

3.1.2 Table 2 indicates that the Tactical User Interface will be in use for 5 hours over a 24 hour BD, for an overall active usage of 20.8% per BD. It is expected that whenever the Tactical User Interface is in use during the BD, the display luminance will be set to at least 200 cd/m² on average. Although the Tactical User Interface is in active use only 5 hours of the BD, it will be in a power-on mode for 22 hours of the 24 hours.

3.1.3 Table 2 indicates that the Communication device will be in use for 20 hours over a 24 hour BD, for an overall usage of 83.3% per BD. The time spent transmitting and receiving Blue PA, Voice and Data only includes user-generated traffic. Network control traffic, collision detection and avoidance, COMSEC, and any other non-user-generated traffic and overhead are not included in those times. The Communication device standby time includes the time that the device does not

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transmit or receive any traffic, but also includes the time spent transmitting and receiving network control traffic, collision detection and avoidance, COMSEC, and any other non-user-generated traffic and overhead. The Communication device must be configured to use the primary transmitted output power mode throughout the BD. The primary transmitted output power mode must be as identified by the Contractor in the bid proposal associated with TPS-5163.

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Table 2 – ISS-S Battlefield Day (BD) Usage Profile

		Tactical User Interface Use / View (hrs)	Communications							
Activity	Duration of Activity (hrs)		Standby (hrs)	Blue PA		Voice		Data		Total (hrs)
				Transmit (hrs)	Receive (hrs)	Transmit (hrs)	Receive (hrs)	Transmit (hrs)	Receive (hrs)	
Rest (no activity)	2	0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
Rest	3	0.75	2.60	0.002	0.070	0.030	0.300	0.000	0.000	3.00
Misc Work	2	0.50	1.03	0.002	0.046	0.040	0.220	0.114	0.550	2.00
Patrol/Advance to Contact	7	1.50	4.02	0.006	0.162	0.300	1.200	0.218	1.089	7.00
Sentry	4	0.40	2.08	0.003	0.093	0.080	0.440	0.218	1.088	4.00
Travel in Tac Tpt	2	0.50	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
Eat/hydrate	1	0.10	0.87	0.001	0.023	0.010	0.100	0.000	0.000	1.00
Combat	3	1.25	0.93	0.002	0.070	0.500	1.500	0.000	0.000	3.00
Totals (hrs)	24	5.00	11.52	0.016	0.464	0.960	3.760	0.551	2.728	20.00
% of Battlefield Day		20.8%	48.0%	0.1%	1.9%	4.0%	15.7%	2.3%	11.4%	83.3%

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3.2. Pre-deployment Training Profile

In Pre-deployment Training, the level of intensity will begin at a lower level than that of the BD, however usage intensity will increase over time to the BD tempo leading up to the actual Task Force deployment. Thus, Pre-deployment Training will be divided into two segments based on the level of intensity of the training. The first segment will consist of low to medium intensity training with the ISS-S primarily being used in a classroom and short training exercise setting, while the second segment will be medium to high intensity training with system usage simulating that of the BD. The training exercises of this second segment can be expected to expose the ISS-S to all the environmental conditions and operating modes of the MSTF Deployment.

3.3. Reconstitution Phase Profile

For this profile it is expected the ISS-S will come out of storage and be issued for low intensity individual/collective training. Here the ISS-S will primarily be used in a classroom and short training exercise setting.

3.4. Intensity Levels

Three intensity levels are used to categorize the expected ISS-S usage, being High, Medium and Low.

- High Intensity reflects the BD 24 hour, 7-day a week usage pattern;
- Medium Intensity usage is eight (8) operating hours per day, 5 days per week following the relative usages for the Tactical User Interface and Communications Device as for the BD;
- Low Intensity system usage is four (4) operating hours per day, 5 days per week following the relative usages for the Tactical User Interface and Communications Device as for the BD.

3.5. Mission Cycles / Life Expectancy

3.5.1 While on a MSTF Deployment (i.e. 6 month operational deployment) the ISS-S will incur four (4) weeks of Medium intensity use prior to following the mission profile of the typical BD for a period of 154 consecutive days (22 weeks). This MSTF Deployment cycle will be preceded by a Pre-deployment Training cycle of 6 months and succeeded by a Reconstitution Phase consisting of 3 months shipment, repair and storage followed by 3 months of low intensity training.

3.5.2 The Pre-deployment Training cycle is divided into two 3-month segments, as depicted in Table 3 below. Segment 1 will be six (6) weeks of low intensity training followed by seven (7) weeks of medium intensity training. Segment 2 will consist of seven (7) weeks of medium intensity training followed by six (6) weeks of high intensity training simulating that of the MSTF BDs.

3.5.3 The Reconstitution cycle consists of two 3-month segments, where the first segment includes the shipping of the ISS-S back from the MSTF Deployment theatre of operation, necessary repairs

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completed and storage of the system in a benign environment under Basic climatic conditions. In the second 3-month segment, it is expected the ISS-S will be used for low intensity training.

3.5.4 These Mission Cycles are summarized in Table 3 below. Table 4 shows this expected usage pattern by Intensity Level for one 18 month cycle.

3.5.5 The ISS-S will be expected to perform 5 of these combined cycles (Pre-deployment Training / MSTF Deployment / Reconstitution) in consecutive order throughout its life. Thus, the expected Service Life of the ISS-S will be 90 months (7.5 years) accumulating an expected 27,060 system operating hours.

Table 3 – ISS-S Usage Profile by Mission Cycle

Mission Cycle	Intensity¹	Duration (months)	Usage	Total System Operating Time (hrs)	Relative Life Usage
Pre-deployment Training - Segment 1	Low/Medium	3	6 weeks Low 7 weeks Medium	400	7 %
Pre-deployment Training - Segment 2	Medium/High	3	7 weeks Medium 6 weeks High	1,204	22 %
MSTF Deployment	Medium/High	6	4 weeks Medium 22 weeks High	3,548	66 %
Reconstitution - Segment 1	Not Employed	3	None	0	0 %
Reconstitution - Segment 2	Low	3	13 weeks Low	260	5 %
Total Times		18		5,412	

¹ Low Intensity: 4 hrs/day, 5 days/week.
Medium Intensity: 8 hrs/day, 5 days/week.
High Intensity: 24 hrs/day, 7 days/week

Table 4 – ISS-S Usage Profile by Intensity Level for 18 Month Cycle

Intensity Level	Duration (weeks)	Usage	Total System Operating Time (hrs)	Relative Life Usage
High	28	Battlefield Day	4,312	80 %
Medium	18	8 hrs/day 5 days/week	720	13 %
Low	19	4 hrs/day 5 days/week	380	7 %
Not Employed	13	None	0	0 %
Total Times	78		5,412	

3.6 Environmental Profiles

3.6.1 Standard Climatic Zones:

The ISS-S will be employed world-wide across the NATO defined climatic zones of C0 to C2, A1 to A3, B1 to B3 and M1 to M3 (as per NATO Standardization Agreement (STANAG) 2895 Edition 1) and operating environments of desert, jungle, mountain, tundra, arctic and high urban density terrain. As such, it will be exposed to a variety of natural and induced environments.

3.6.1.1 Ranges of Weather and Temperature:

The natural environments will include extreme temperatures, thermal changes, solar radiation, humidity, blowing rain, freezing rain, blowing sand and dust, salt laden atmospheres and repeated exposures to the cold-wet environment. A summary of the climatic conditions is provided in Table 5 below, with relative exposures provided in Table 6.

3.6.2 Climatic Conditions and Levels of exposition:

Table 5 describes the climates in which the ISS-S is expected to operate and Table 6 shows the expected relative duration of time, by Mission Cycle, throughout its life in those various climates.

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Table 5 – Operating Climates

Climatic Design Type	Climatic Zone	Operational Conditions			Storage And Transit Conditions	
		Ambient Air Temp (°C)	Solar Radiation (W/m ²)	Ambient Relative Humidity (%)	Induced Air Temp (°C)	Induced Relative Humidity (%)
Hot	A1 – Extreme Hot Dry	32 - 49	0 to 1120	3 to 8	33 - 71	---
	B3 - Hot Humid	31 - 41	0 to 1080	59 to 88	33 - 71	14 to 80
Basic	A2 – Hot Dry	30 - 44	0 to 1120	14 to 44	30 - 63	---
	A3 – Intermediate	28 – 39	0 to 1060	78 to 43	28 – 58	---
	B1 – Wet Warm (358 days/yr)	23 – 32	Negligible	66 to 88	23 - 32	66 to 88
	B1 – Wet Warm (7 days/yr)	24	Negligible	100	24	100
	B2 – Wet Hot	26 – 35	0 to 990	74 to 100	30 – 63	19 to 74
	C0 – Mild Cold	(-19 to -6)	Negligible	Tending To Saturation	(-21 to -10)	Tending To Saturation
Cold	C1 - Basic Cold	(-32 to -21)	Negligible	Tending To Saturation	(-33 to -25)	Tending To Saturation
	C2 - Cold	(-46 to -37)	Negligible	Tending To Saturation	(-46 to -37)	Tending To Saturation
Marine	M1 – Marine Hot	29 - 48	0 to 1120	67 to 21	30 – 69	8 to 64
	M2 – Marine Intermediate	25.5 – 53	0 to 1080	53 to 100	30 – 63	13 to 78
	M3 – Marine Cold	(-34 to -23)	Negligible	Tending To Saturation	(-34 to -23)	Tending To Saturation

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**Table 6 – Expected Life Profile - Climatic Conditions
(Based on current and near term expected operational taskings)**

Climate Type	Pre-deployment Training Cycle – Segment 1 (Low & Medium Intensity)	Pre-deployment Training Cycle – Segment 2 (Medium & High Intensity)	MSTF Deployment (Medium & High Intensity)	Reconstitution Cycle – Segment 1 (Not Employed)	Reconstitution Cycle – Segment 2 (Low Intensity)
Hot	20 %	20 %	55 %	0 %	0 %
Basic	60 %	60 %	35 %	100 %	100 %
Cold	20 %	20 %	9 %	0 %	0 %
Marine	0 %	0 %	1 %	0 %	0 %

3.7. Induced Environment

The non-naturally occurring or induced environments include mechanical vibration and shocks, immersion in water, reduced air pressure, exposure to contaminants, and intentional or unintentional Electromagnetic Radiation (EMR). The ISS-S is expected to operate reliably in all of these environments..

4. Mobility Modes

Table 7 shows the mobility modes the ISS-S will be subjected to and the expected relative duration of time, by Mission Cycle, throughout its life in those various modes.

Table 7 – Expected Life Profile – Mobility Modes

Mobility Mode	Pre-deployment Training Cycle – Segment 1 (Low & Medium Intensity)	Pre-deployment Training Cycle – Segment 2 (Medium & High Intensity)	MSTF Deployment (Medium & High Intensity)	Reconstitution Cycle – Segment 1 (Not Employed)	Reconstitution Cycle – Segment 2 (Low Intensity)
Individual Dismounted	35%	50 %	50 %	0%	10%
Tactical Land Transport	15 %	30 %	40 %	0 %	5 %
Tactical Air Transport	0 %	9 %	9 %	0 %	0 %
Tactical Sea	0 %	0 %	1 %	0 %	0 %

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Transport					
Static (Storage)	50 %	11 %	0 %	100 %	85 %

5. Special Component Usage

5.1 Cable Connectors

The usage on the cable connectors is driven by the number of mating cycles (on/off connections) rather than the system operating time. Here it is assumed that cables will have to be disconnected from a device (in most cases) to change the batteries and in doffing the system. Although this may not be the case for all devices and connections, it would be the case for some, and for the purposes of determining the use on a connector, the worst case is used. Battery life is taken to be 8 hours as that is the minimum required by the technical performance specification. In Table 8 below, the expected number of mating cycles is shown by usage intensity.

Table 8 – Connector Usage Profile by Intensity Level for 18 Month Cycle

Intensity Level (Duration per 18 mo cycle)	Expected Cable Mating Cycles	Expected No. of Mating Cycles	
		Daily	For Period
High (28 weeks)	- every 8 hours for battery change - end of Battlefield Day for rest - 1 x misc doffing & donning of system per BD	5	980
Medium (18 weeks)	- every 8 hours for battery change - end of day for storage with CQ - 1 x misc doffing & donning of system per day	3	270
Low (19 weeks)	- every 8 hours for battery change - end of day for storage with CQ - 1 x misc doffing & donning of system per day	2.5	238
Not Employed (13 weeks)	None	0	0
Total Mating Cycles per 18 month Cycle			1,488
Total Mating Cycles for ISS-S Life (5 Cycles)			7,438

5.2 Tactical User Interface

This module will consist of a Touchscreen interface and possibly an integrated hardware Keyboard. The Touchscreen will be used to work the basic GUI for the various BMS functions and menu items.

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Should the ISS-S solution not provide a keyboard, text entry for messages, orders, etc will need to be entered via the Touchscreen interface. Thus, two usage modes are foreseen, one for the number of screen taps on the Touchscreen to operate the BMS functions and the other for the number of characters to be entered on either the Keyboard or the Touchscreen for text entry. Table 9 shows the expected number of Touchscreen taps by intensity level per 18 month cycle as well as the number of characters of text entry. For the text entry an expected number of characters is provided based on an average text entry message and order size.

Table 9 – Touchscreen & Text Entry Usage Profile by Intensity Level for 18 Month Cycle

Intensity Level (Duration per 18 mo cycle)	Expected No. of Touchscreen Taps		Expected No. of Text Entry Characters	
	Daily	For Period	Daily	For Period
High (28 weeks)	878	172,088	9,550	1,871,800
Medium (18 weeks)	319	28,735	3,473	312,545
Low (19 weeks)	160	15,165	1,736	164,955
Not Employed (13 weeks)	0	0	0	0
Total per 18 month Cycle		215,988		2,349,300
Total for ISS-S Life (5 Cycles)		1,079,940		11,746,500

5.3 Device On/Off Sequences

The devices of the ISS-S will be turned off and on throughout the anticipated BD activities depending on the operational situation and operating procedures. Different on/off sequence rates by device are anticipated, with Table 10 below showing the expected number of on/off sequences by major functional device of the ISS-S. It should be noted that the devices listed in the table are based on the major functional blocks of the core system. Depending on the design and system configuration some of these, such as the GPS, may be internal to one of the other devices, in which case the on/off sequences for the integrated device should be ignored.

5.4 External Data Storage Device Use

An External Data Storage Device will be used to transfer data to/from the computer through an interface port within the computer. To provide an estimate of the usage on this port, the number of times this facility is expected to be used is provided in Table 10 below.

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Table 10 – On/Off Sequences per Device by Intensity Level for 18 Month Cycle

Intensity Level (Duration per 18 mo cycle)	Radio No. On/Off Sequences	Audio Display No. On/Off Sequences	Computer No. On/Off Sequences	Tactical UI No. On/Off Sequences	GPS No. On/Off Sequences	External Data Storage Access Port Usage
High (28 weeks)	1,372	588	588	4,508	588	588
Medium (18 weeks)	229	98	98	753	98	98
Low (19 weeks)	121	52	52	397	52	52
Not Employed (13 weeks)	0	0	0	0	0	0
Total per 18 month Cycle	1,722	738	738	5,658	738	738
Total ISS-S Life (5 Cycles)	8,610	3,690	3,690	28,290	3,690	3,690

5.5 PTT Activation

The usage on the wired PTT device is driven by the number of activation cycles for voice transmission rather than the system operating time. In Table 11 below, the number of PTT activations is shown by usage intensity. The expected number of activations estimate is based on the voice transmission time of Table 2 divided by an average voice message transmission time of 10 seconds.

Table 11 – PTT Activations by Intensity Level for 18 Month Cycle

Intensity Level (Duration per 18 mo cycle)	Expected No. of PTT Activations for Voice Transmit	
	Daily	For Period
High (28 weeks)	346	67,816
Medium (18 weeks)	126	11,324
Low (19 weeks)	63	5,976
Not Employed (13 weeks)	0	0
Total per 18 month Cycle		85,116
Total for ISS-S Life (5 Cycles)		425,580

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6. Basic Assumptions for Usage Determination

In the determination of the usage measures and values provided above, certain assumptions and basic estimates are made. These are described below.

6.1 System Use Calculations

Although the mission profiles above are based on a typical infantry soldier, the activities and format of the BD as well as the intensities and durations of the deployment and training cycles will be very similar for a Commander. However, some expected usage measures of ISS-S components differ between the infantry soldier and that of the Commander, particularly for the communications devices. In these cases the Commander's usage measures are used as they are felt to represent the highest usage and thus, the worst case scenario.

6.2 Communications:

The on-air time to transmit or receive 1 bit of data is estimated at 0.005 ms.
Blue PA is configured to transmit every 5 seconds. Assume a 100 byte payload with all framing/packet overhead for 4 ms on-air transmit. Blue PA is distributed to every soldier in a platoon COI (29 recipients).

6.3 Text Entry:

Average text message size is 70 characters.
Average orders size is 4,040 characters.

6.4 On/Off Sequences:

In determining the number of on/off sequences, it is assumed the user is able to change batteries without the system shutting-down or rebooting, and without the loss of data.

6.4.1 Radio On/Off Sequences:

Assumed the radio is turned on/off at the start/end of each BD, 2 x miscellaneous on/off sequences, and turned off upon entry to a vehicle. Assume an entry/exit every half hour of tactical transportation time.

6.4.2 Audio Display On/Off Sequences:

Assumed on/off sequences are at the start/end of each BD, and 2 x miscellaneous on/off sequences. No specific activity driven on/off sequences are assumed.

6.4.3 Computer On/Off Sequences:

Assumed on/off sequences are at the start/end of each BD, and 2 x miscellaneous on/off sequences. No specific activity driven on/off sequences are assumed.

6.4.4 Tactical UI On/Off Sequences:

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As per computer plus turned on/off as required throughout night operations. Assume 2 per hour for approximately 10 hrs of darkness.

6.4.5 GPS On/Off Sequences:

As per computer usage.

6.4.6 Storage Device Use:

Assume 3 data exchanges per BD.

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APPENDIX 4 TO ANNEX CB TO VOLUME 2

FAILURE DEFINITION AND SCORING CRITERIA FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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HISTORY

Revision	Date	Description

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This Appendix gives instructions to the Contractor on how to define the degraded and unacceptable performance that constitutes a failure in the ISS-S, or any of its sub-systems, and enables the categorization of these failures for the determination of the required Reliability and Maintainability (R&M) quantitative parameters.

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1 Introduction

- 1.1 The ISS-S Failure Definition defines the degraded and unacceptable performance that constitutes a failure in the ISS-S, or any of its sub-systems, and enables the categorization of these failures for the determination of the required Reliability and Maintainability (R&M) quantitative parameters. This is based on the functions of the system as they pertain to the relevant hardware, firmware and software components.
- 1.2 The Scoring Criteria outlines the process for reviewing and categorizing test incidents or other data used in the evaluation of the ISS-S, with the end result being consistently scored data points on which to evaluate the ISS-S RAM performance.
- 1.3 This Failure Definition and Scoring Criteria (FDSC) follows the US Army FDSC approach as described in Appendix U to US Army TRADOC Pamphlet 71-9.
- 1.4 Failure type to the level of granularity required to define the quantitative Reliability requirements, along with chargeability of the failure event cause and Built-In Test (BIT) adequacy, is included in this Failure Definition and Scoring Criteria, while scoring of maintenance demand categories is not required. If the contractor deems it advantageous or recommends that more detail be provided as to criticality, environment, maintenance demand or supply demand criteria to support a particular RAM analysis or assessment, the contractor will be responsible to prepare and structure the required data classification system, upon agreement of the DND Technical Authority.

2 Scope

- 2.1 For the purposes of the ISS-S R&M requirements, and this failure definition and scoring criteria, all physical devices and functions that are provided as part of the ISS-S are included in the ISS-S R&M requirements, with the exception of the ISS Modular Load Carriage System (MLCS) Platform.
- 2.2 Items that are not part of the ISS-S are outside the scope of this failure definition and scoring criteria. Some of these items are Government Furnished Equipment and some items are provided by the Contractor but are not part of the ISS-S. These items are listed below for clarity:
 - 2.2.1 Those components or devices provided as Government Furnished Equipment (GFE), like the PRC-152 radio, the PRC-117F radio, the PRC-148 radio, the CF in-service DAGR and the CORAL-CR-C Thermal Imager. However, the interfaces, firmware, software, cabling and connections delivered by the Contractor as part of the ISS-S are included.

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- 2.2.2 The Combat Pouches, provided as GFE, described in Annex CB, Appendix 9, Conceptual Load.
- 2.2.3 The System Executive Planning Suite (SEP-Suite) installed and operated on the CF-31 laptop. However, any system management software installed and operated on the ISS-S computer (i.e. the Configuration Application Software) is considered part of the ISS-S and included.
- 2.2.4 Any faults or failures of the Battle Management System (BMS) software while operating on the CF-31 laptop.
- 2.3 The outline of this Failure Definition and Scoring Criteria is based on discussion of the ISS-S System Functions for R&M, Critical and Essential Functions, Failure Definition and Types, Chargeability, Built-In Test (BIT), Scoring Procedure, and Parameter Evaluation. Failures are categorized using the terminology of Critical Function Failure (CFF), Essential Function Failure (EFF) and Non-Essential Function Failure (NEFF).
- 3 ISS-S System Functions for R&M**
- 3.1 The functions of the ISS-S, in general terms, are listed below. From this list, those critical and essential to the soldier's capability and effectiveness on the battlefield can be identified. If the ISS-S includes any functionality that is not included in this section, it will be deemed to be a Non-Essential function.
- 3.2 **Voice Communications:** provides network enabled voice communications for the individual soldier to the fire team / assault group / section / platoon / company level and voice connectivity to the chain of command for the passage of information. It includes all the necessary hardware, firmware and software to provide voice communication with the exception of the functions that are part of the ISS-S Audio Display. This also includes the ability to provide a voice service with the LCSS voice network through connectivity with the in-service PRC-148, RPC-152 and PRC-117F radios. The functions include the following:
- 3.2.1 ISS-S radio and antenna;
- 3.2.2 Voice network function; and
- 3.2.3 Connectivity to the PRC-148, PRC-152 and PRC-117F radios and associated functions to use the radios for their intended purpose, as defined in the Technical Performance Specification (TPS).
- 3.3 **Data Communications:** provides network enabled data communications for the individual soldier to the fire team / assault group / section / platoon / company level for the passage of information. It includes all the necessary hardware, firmware and software to enable data information exchange throughout the chain of command. The functions include the following:
- 3.3.1 ISS-S radio and antenna; and
- 3.3.2 Data network function.

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- 3.4 **Battle Management System:** provides a Battle Management System (BMS) (all hardware, firmware and software including the necessary controls and inputs) with a number of sub-modules to provide improved Situational Awareness (SA) and Common Operating Picture (COP). The BMS includes:
- 3.4.1 BMS Computer;
 - 3.4.2 BMS Tactical User Interface;
 - 3.4.3 BMS Software, which includes:
 - 3.4.3.1 Graphical User Interface;
 - 3.4.3.2 Maps View;
 - 3.4.3.3 Blue PA;
 - 3.4.3.4 Navigation;
 - 3.4.3.5 Routes;
 - 3.4.3.6 Quick Symbols;
 - 3.4.3.7 Hand Drawings;
 - 3.4.3.8 Text Entry Capability;
 - 3.4.3.9 Data Exchange between ISS-S nodes;
 - 3.4.3.10 Data Exchange between the ISS-S and the BMS applications running on CF-31 laptops;
 - 3.4.3.11 Data Exchange between the ISS-S and the SEP-Suite running on CF-31 laptops;
 - 3.4.3.12 Configuration Application Software operating on ISS-S computers; and
 - 3.4.3.13 Operating system, firmware and software drivers running on the ISS-S.
- 3.5 **Position Generation and Navigation:** provides a geo-referencing capability for navigational orientation and position generation. This functionality includes:
- 3.5.1 Bearing Indicator;
 - 3.5.2 Integrated GPS; and
 - 3.5.3 Connectivity to the CF In-Service DAGR, if provided, and associated functions to use the DAGR for its intended purpose, as defined in the TPS.
- 3.6 **Laser Range Finding:** provides for a target acquisition and information exchange function with the in-service CORAL-CR-C Thermal Imager and Laser Range Finder that outputs data to the BMS. Includes connectivity to the CORAL-CR-C and associated functions to use the CORAL-CR-C for its intended purpose, as defined in the TPS.
- 3.7 **Data Infrastructure:** provides an integrated data infrastructure. It is composed of a data bus, cabling, connectors and the hardware, firmware and software required to distribute data as required by the system.
- 3.8 **Power Infrastructure:** provides a power infrastructure to operate the ISS-ES. It is composed of power sources (distributed or centralized) and the hardware, firmware and software required to distribute power as required by the system.

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3.9 **Audio Display:** provides auditory display and controls and provides hearing protection. Includes the following:

- 3.9.1 Headset, which includes speakers and microphones;
- 3.9.2 Hearing Protection;
- 3.9.3 Wired PTT; and
- 3.9.4 Wireless PTT, if provided.

3.10 **External Data Storage:** provides the capability of transferring data between ISS-S's and between ISS-S's and CF-31 laptops.

3.11 **Load Carriage:** provides for the carriage of the individual devices of the ISS-S via the MLCS ISS Pouch Set.

3.12 **Security:** provides for the prevention of unauthorized access to the system or its information while stored and in transit. Functions include:

- 3.12.1 Data In Transit Encryption;
- 3.12.2 Encryption Key Management;
- 3.12.3 EMCON; and
- 3.12.4 Local Zeroize.

4 **ISS-S Critical and Essential Functions**

4.1 A Critical Function is any function whose loss will greatly reduce the soldier's effectiveness on the battlefield and increase risk during operations. An Essential Function is any function whose loss will significantly reduce a soldier's capability during operations. These functions have been identified as the following:

4.2 **Critical Functions:** The provision of two-way voice communications (i.e. listen/speak) is a critical function, without which will greatly reduce the soldier's effectiveness on the battlefield and increase risk during operations. This entails the provision of those functions listed in Table 1 so as to allow the ISS-CS to provide individual, user-selectable voice COIs for voice exchanges between COI members with no reduction in capacity, coverage, mobility and movement, or other specified voice requirements in the TPS.

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Table 1 – ISS-S Critical Functions

Critical Function	Minimum Capability
Voice Communications	Voice communications for the individual soldier to the fire team / assault group / section / platoon / company level. Voice service with the LCSS voice network.
Audio Display Headset	Ability to listen to up to two radios concurrently
Audio Display Wired PTT	The ability to sequentially transmit on two attached radios
Power Infrastructure	Allow the operation of the devices required for Voice Communications and Audio Display

- 4.3 **Essential Functions:** Basic Situational Awareness (SA), specifically the map view, determination of the soldier's own position and the identification of friendly positions is an essential function, without which will significantly reduce a soldier's capability during operations. This requires those functions with the minimum capability listed in Table 2.

Table 2 – ISS-S Essential Functions

Essential Function	Minimum Capability
Data Communications	Provision of a data service (including both the hardware, firmware and software) to enable the BMS Blue PA with no reduction in capacity, coverage, data exchange or other specified data requirements in the TPS.
BMS Computer	Computing platform to compute Blue PA.

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Essential Function	Minimum Capability
BMS Tactical User Interface	Operable to a minimum functionality that allows access to the BMS sub-systems required for Blue PA
BMS Graphical User Interface (GUI)	Minimum functionality that allows use of the map view
BMS Maps View	View map with own and friendly positions identified with no reduction in the formats displayed or loss of any of the map functions as specified in the TPS
BMS Blue PA	Own and friendly positions identified with no reduction in the functional requirements as specified in the TPS
BMS Data Exchange between ISS-S nodes	Minimum BMS function to allow the transmission and reception of Blue PA on the Blue PA COI.
Integrated GPS	Minimum functionality consisting of either the integrated Commercial GPS or integrated military GPS receiver providing a 10 digit UTM grid reference with no degradation in accuracy and the necessary data interchange to facilitate BMS Blue PA geo-referencing
Power Infrastructure	Allow the operation of the devices required for Blue PA
Data Infrastructure	Allow the provision of a data service to allow for all ISS-S Essential Functions to operate

4.4 **Non-Essential Functions:** Any function that is provided as part of the ISS-S and is not required to be operational to provide a Critical or Essential function as identified in sections 4.2 and 4.3 is considered to be a Non-Essential Function.

5 Failure Definition and Types

5.1 The technical definition of a failure is an event, or inoperable state, in which an item is unable to perform within previously specified normal performance limits. Typically, it is any event that requires corrective maintenance to restore the system to its normal performance standard,

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which excludes preventive maintenance, but includes any corrective maintenance activities found necessary during preventive maintenance.

- 5.2 Normal performance limits are defined as operation within the limits specified by the manufacturer and to the DND specified performance requirements. Some minor, temporary degradation of performance as it pertains to quality of image and symbol, clarity of message, or response time is acceptable, as long as the image, symbol or message is legible, understandable and timely enough as to not affect the overall function. Any degradation of the accuracy of data is not acceptable.
- 5.3 For the purposes of this Failure Definition and Scoring Criteria, events are to be categorized as Critical Function Failures (CFFs), Essential Function Failures (EFFs), Non-Essential Function Failures (NEFFs), Non-Failures, or Other Events (not applicable to R&M) as defined below:
 - 5.3.1 **Critical Function Failure:** A Critical Function Failure (CFF) is an event that results in the loss or degradation below normal performance limits of any of the Critical Functions identified in section 4.2.
 - 5.3.2 **Essential Function Failure:** An Essential Function Failure (EFF) is an event that results in the loss or degradation below normal performance limits of any of the Essential Functions identified in section 4.3.
 - 5.3.3 **Non-Essential Function Failure:** A Non-Essential Function Failure (NEFF) is an event that results in the loss or degradation below normal performance limits of any function not defined as a Critical or Essential Function, or degradation of critical or essential functions not meeting the criteria of a CFF or EFF, or minor malfunctions related to either critical, essential or non-essential functions.
 - 5.3.4 **Non-Failure:**
 - 5.3.4.1 **Induced, Damage:** This type of Non-Failure is an event that would otherwise be classed a failure, but was caused by abuse, damage, use outside its specified operating environment or range, or was induced.
 - 5.3.4.2 **Routine Operating Procedures:** These are the normal, routine operating procedures performed by the operator and prescribed in the user manual. These are tasks the operator is expected to perform to remedy a malfunction that are not charged as reliability failures. These are constrained by the following:
 - 5.3.4.2.1 For any event that would be deemed a failure, should the function be restored within five (5) minutes by the operator, using prescribed, normal routine operating procedures, service restoration actions and any on-board repair parts, no failure will be charged. In this case, it will be deemed an operator correctable action and classified a Non-

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Failure – Routine Operating Procedures. No more than a total of one (1) such operator correctable action for the same malfunction per 154 operating hours (one week of Battlefield Days), as defined in Annex CB, Appendix 3, Mission Profile and Operational Mode Summary, section 3.1, are allowed. If exceeded, all further operator correctable action failure events will be scored on their own merits as a CFF, EFF or NEFF.

5.3.4.3 Preventive Maintenance, Checks and Services (PMCS): Actions of a preventive nature that are listed in, and performed in accordance with, applicable manuals. For any recorded event that is defined as a user maintenance task, such as system checks, inspections and cleaning, or preventive maintenance task within the ISS-S Maintenance Plan and documented procedures will be classified as a Non-Failure - PMCS.

5.3.5 **Other Events (not applicable to R&M):** Events falling in this category are not applicable to R&M and will not be included in the overall R&M evaluations of the system. These events include the following:

5.3.5.1 Pre-test / Post-test check. Events observed during pre-test inspection, or other pre-test activities. All events detected after the pre-test period will be scored on their own merits. Most post-test events will be scored on their own merits. Only those post-test checkout events not pertaining to system R&M would be classified in this category.

5.3.5.2 System (hardware, firmware or software) modification. This includes all maintenance actions involved in the installation of hardware kits, software modifications, or incorporation of redesigned components, firmware or software upgrades. If the replaced component was not functioning at the time of its replacement with the modification, the event will be scored on its own merit. Subsequent malfunctions of the modification will be scored on their own merit.

5.3.5.3 Test-peculiar. Malfunctions caused by equipment that is not part of the system being tested or people not acting as test players (operators or maintenance personnel). Engineering evaluations to analyze the cause of the malfunctions, as well as any malfunctions and/or maintenance efforts caused by the engineering evaluation are scored under this category.

5.3.5.4 Test-directed abuse. Events in which the tester directs the deliberate abuse of the system (e.g., a test to over-stress the performance limit of the system), whether called for by the test plan or not.

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5.3.5.5 Unrelated damage. This includes damage caused by natural phenomena (e.g., lightning, earthquakes) or other influences beyond control of the operational elements of the system.

5.3.5.6 Non-R&M Oriented. This includes those events which may be reported, but are not events used in R&M computations. Examples include suggested improvements, reports on inadequate test procedure, unusable or unacceptable replacement parts discovered prior to or during installation, test schedule delays, and suggested human factors improvements. Recommended changes to the system support package not related to a specific test event are also covered.

5.3.5.7 Performance Limitation. An event that reports inability of a system to meet specified performance limits even though no malfunction (reliability failure) has occurred.

5.4 Table 3 summarizes which functions, whose loss or degradation below normal performance limits, would be considered a CFF or EFF.

Table 3 – Critical and Essential Function Failures

ISS-S Functions	CFF	EFF	Notes on Failure Type
Voice Communications	X		CFF if voice communications within the ISS-S network and connectivity to LCSS network does not meet minimum capability for Critical Function
Data Communications		X	EFF if provision of the data service does not meet minimum capability for Essential Functions
Data Infrastructure		X	EFF if provision of the data service does not meet minimum capability for Essential Functions
Power Infrastructure	X	X	CFF if insufficient power for voice communications devices EFF if insufficient power to devices required for providing the Blue PA

ISS-S Functions	CFF	EFF	Notes on Failure Type
			function
BMS Computer		X	EFF if the functionality does not compute Blue PA information for generation or for display.
BMS Tactical User Interface		X	EFF if functionality does not allow access to the BMS sub-systems required to provide the Blue PA function
BMS Graphical User Interface		X	EFF if does not allow use of Maps View
BMS Maps View		X	EFF if provision of maps does not meet minimum capability for Essential Functions
BMS Blue PA		X	EFF if provision of Blue PA does not meet minimum capability for Essential Functions
BMS Data Exchange between ISS-S nodes		X	EFF if the functionality does not allow Blue PA information transmission or reception on the Blue PA COL.
Integrated GPS		X	EFF if provision of GPS function does not meet minimum capability for Essential Functions
Audio Display Headset	X		CFF if does not meet minimum capability for Critical Function
Audio Display Wired PTT	X		CFF if does not meet minimum capability for Critical Function

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- 5.5 If a failure upon investigation is determined to be a No Fault Found (NFF), the failure event is still classified as a CFF, EFF, or NEFF depending on the function that was lost or degraded. This occurs when an observed failure event cannot be traced to a failed part (or firmware/software code) and the symptom disappears.
- 5.6 If performance includes sporadic, intermittent or periodic operation that causes the loss of a function, or degradation below normal performance limits, the event is scored and classified as per the definitions and categories above.

6 Chargeability

- 6.1 Once an event has been classified as a failure, categorizing the cause of the failure event is required. The following cause categories are to be used:
- 6.1.1 Hardware. This category includes not only malfunctioning hardware but also personnel-related events that are attributable to the hardware's design. For example, if the device has an exposed ON/OFF switch that is easily tripped inadvertently, the unintended power disruption may be charged to hardware, and not to the operator.
- 6.1.2 Firmware. This category includes all events attributable to the firmware of the system under test. Personnel-related incidents that are rooted in the firmware's design should be charged to firmware and not the operator. Care should be taken to distinguish between genuine firmware reliability problems and simply improperly designed firmware incapable at any time of executing a given task.
- 6.1.3 Software. This category includes all events attributable to the software of the system under test. Personnel-related incidents that are rooted in the software's design should be charged to software and not the operator. Care should be taken to distinguish between genuine software reliability problems and simply improperly designed software incapable at any time of executing a given task.
- 6.1.4 Operator. The Operator category includes all events attributable to operator error that were not rooted in hardware/firmware/software design problems, inadequate training or poorly written manuals.
- 6.1.5 Technical Documentation/Manuals. This category includes all events that are attributable to misleading, incorrect, or nonexistent, but needed information in the manuals. Poorly written manuals may cause operator or maintenance personnel errors; in these cases, manuals should be charged.
- 6.1.6 Maintenance Personnel. This category includes all events attributable to maintenance personnel errors that were not rooted in hardware/firmware/software design problems or poorly written manuals.

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- 6.1.7 **Training.** This includes any event that can be directly attributed to inadequacies in training due to omitted or incorrect training procedures or inappropriate training material, such as information above the general level of understanding of the target audience.
- 6.1.8 **Support Equipment.** These are events caused by the prescribed Special Tools and Test Equipment (STTE), common tools, support software and any auxiliary power sources.
- 6.1.9 **Built-In Test (BIT).** These are events attributable to the built-in-test, if provided.

7 Built-In Test (BIT)

- 7.1 If the ISS-S is equipped with BIT functionality for the detection, diagnosis and isolation of system faults and failures, its performance is to be recorded and adequacy determined. For the purposes of this Failure Definition and Scoring Criteria, all CFF, EFF, NEFF and Non-Failure - Routine Operating Procedures are to be further categorized by the applicable BIT categories defined below:
- 7.1.1 **Fault Detection** – a process that discovers the existence of a fault. Record if the BIT successfully detected a fault or if it failed to detect a fault it was designed to detect. If it was not designed to detect the fault, record BIT Not Applicable.
- 7.1.2 **Fault Isolation** – where a fault is detected, a process that identifies the replaceable unit where the fault may be located. Record if the BIT correctly (or not) isolated the faulty LRU. An isolation failure occurs when the BIT, having successfully detected the fault, does not isolate the fault to the single, faulty LRU.
- 7.1.3 **False Alarm** – any indication of a non-existent fault given by the BIT. False alarms are faults, where upon investigation, it is found the fault cannot be confirmed. Record if the BIT indicated a fault when none could be found as verified as a NFF or the fault could not be duplicated.

8 Scoring Procedure

The scoring procedure for each event is outlined in a questionnaire format in the paragraphs below. A process flow chart depicting this procedure is shown in Figure 1.

- 8.1 Select the appropriate category below and proceed as directed:

- 8.1.1 Event is an “Other Events (not applicable to R&M)”. Proceed to para 8.2.
- 8.1.2 Event is a “Non-Failure”. Proceed to para 8.3.
- 8.1.3 Event is a “Failure”. Proceed to para 8.4

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8.2 Other Events (not applicable to R&M). Identify the event as one of the following, and then Stop:

- 8.2.1 Pre-test / Post-test check
- 8.2.2 System (hardware, firmware or software) modification
- 8.2.3 Test-peculiar
- 8.2.4 Test-directed abuse
- 8.2.5 Unrelated damage
- 8.2.6 Non-R&M Oriented
- 8.2.7 Performance Limitation

8.3 Non-Failure. Assign the failure event to one of the following non-failure categories. If Induced, Damage or Preventive Maintenance, Checks and Services (PMCS) then Stop. If Routine Operating Procedures proceed to paragraph 8.6 BIT Adequacy:

- 8.3.1 Induced, Damage
- 8.3.2 Preventive Maintenance, Checks and Services (PMCS)
- 8.3.3 Routine Operating Procedures

8.4 Failure. Assign the failure event to one of the following failure categories and then proceed to paragraph 8.5 Chargeability:

- 8.4.1 CFF
- 8.4.2 EFF
- 8.4.3 NEFF

8.5 Chargeability. Identify the cause of the failure event, and then proceed to paragraph 8.6 BIT Adequacy:

- 8.5.1 Hardware.
- 8.5.2 Firmware.
- 8.5.3 Software.
- 8.5.4 Operator.
- 8.5.5 Technical Documentation/Manuals.
- 8.5.6 Maintenance Personnel.
- 8.5.7 Training.
- 8.5.8 Support Equipment
- 8.5.9 BIT
- 8.5.10 Unknown

8.6 BIT Adequacy. If the ISS-S is equipped with BIT, provide the following BIT performance information, then Stop:

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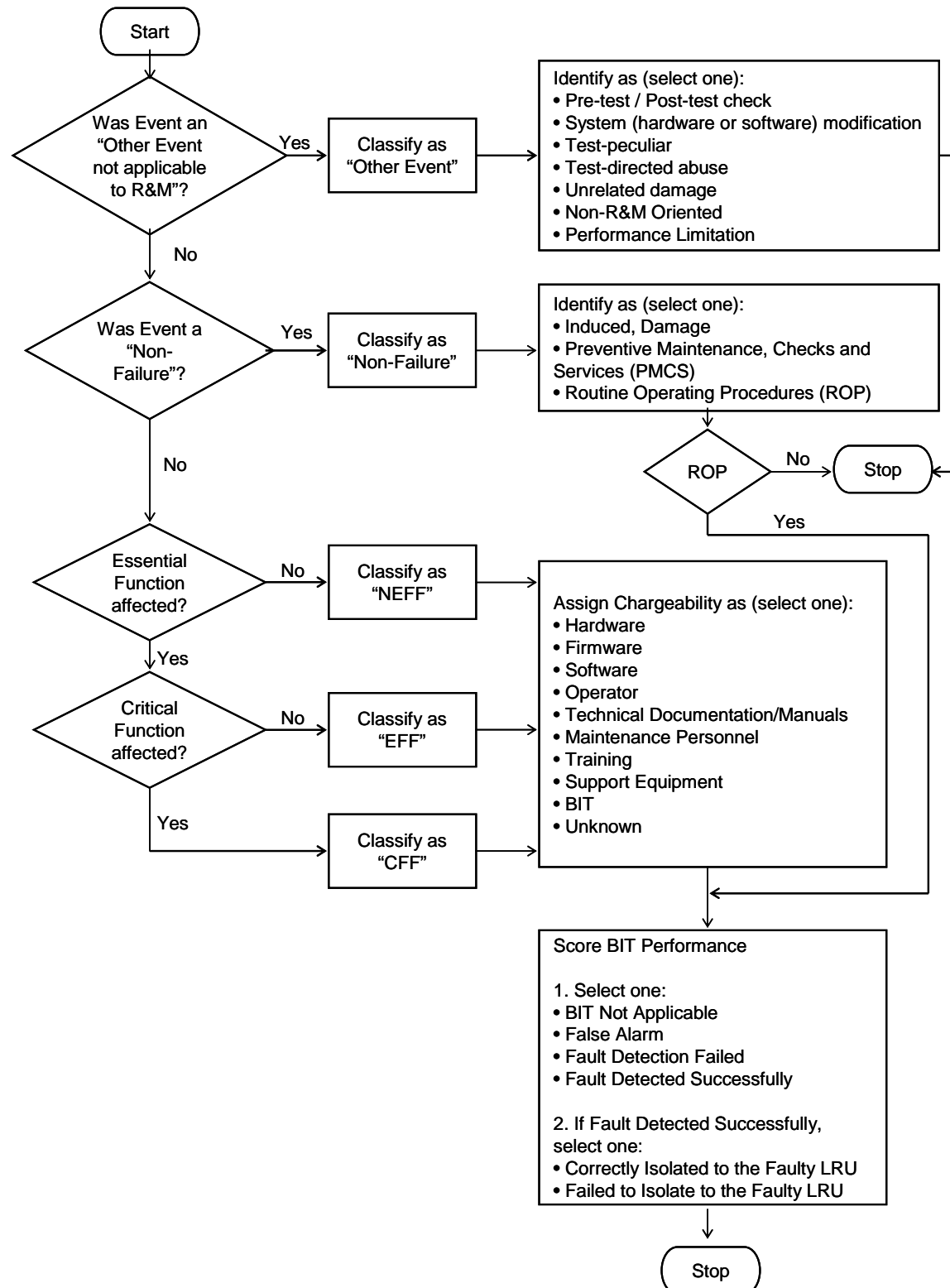
- 8.6.1 BIT Not Applicable
- 8.6.2 False Alarm
- 8.6.3 Fault Detection Failed
- 8.6.4 Fault Detected Successfully
 - 8.6.4.1 Correctly Isolated to the Faulty LRU
 - 8.6.4.2 Failed to Isolate to the Faulty LRU

9 Parameter Evaluation

9.1 Data classified in accordance with the definitions provided above will be used in the determination of the following quantitative R&M requirements:

- 9.1.1 **Mean Time Between Critical Failure (MTBCF):** defined as the total number of operating hours divided by the total number of Critical Function Failures (CFFs). For MTBCF, use CFFs only.
- 9.1.2 **Mean Time Between Failure (MTBF):** defined as the total number of operating hours divided by the total number of Critical Function Failures (CFFs), Essential Function Failures (EFFs), and Non-Essential Function Failures (NEFFs). For MTBF, use CFFs, EFFs and NEFFs.
- 9.1.3 **BIT Fault Detection: Fraction of Faults Detected (FFD)** is defined as the total number of faults successfully detected by the BIT (derived from the number of events scored in paragraph 8.6.4 Fault Detected Successfully) divided by the total number of detectable faults (derived from the addition of the number of events scored in paragraphs 8.6.4 Fault Detected Successfully and 8.6.3 Fault Detection Failed).
- 9.1.4 **BIT Fault Isolation:** is the probability that any detected fault can be isolated by the BIT to the single, faulty LRU and is measured as **Fraction of Faults Isolated (FFI)** defined as the total number of correctly isolated faults detected by the BIT (derived from the number of events scored in paragraph 8.6.4.1 Correctly Isolated to the Faulty LRU) divided by the total number of successfully detected faults (derived from the number of events scored in paragraph 8.6.4 Fault Detected Successfully).
- 9.1.5 **BIT False Alarm: False Alarm Rate** is defined as the total number of BIT false alarms (derived from the number of events scored in paragraph 8.6.2 False Alarm) divided by the total number of detected faults (derived from the addition of the number of events scored in paragraphs 8.6.4 Fault Detected Successfully and 8.6.2 False Alarm).

Figure 1 – Scoring Procedure Process Flow



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APPENDIX 5 TO ANNEX CB TO VOLUME 2

AUDIO DISPLAY TEST PROCEDURES REQUIREMENTS FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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HISTORY

Revision	Date	Description

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This Appendix gives instructions to the Contractor on how Speech Intelligibility, Sound Localization and Sound Identification are to be tested to verify that the ISS-S complies to the ISS-S Audio Display relevant TPS requirements.

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1. Introduction

1.1 This appendix presents the verification criteria and high level procedures to be followed for the ISS-S Audio Display requirements verification. This appendix is to be used as a baseline for the detailed test procedures developed by the Contractor.

1.2 The high level procedures described in this appendix are based on expert advice from DRDC Toronto scientists specializing in this field.

2. Overall Concept

2.1 Sections 3 to 5 describe the test procedure parameters that the Contractor must include in his verification tests and procedures, that will be proposed to DND, to verify compliance to the relevant TPS requirements. This document is referenced by the relevant TPS requirements.

3. Speech Intelligibility

3.1 This test must be performed by the Contractor. Canada will observe the test.

3.2 Listeners:

3.2.1 The test must be run using at least fifteen (15) different listeners.

3.2.2 Listeners must be a mix of males and females in the age bracket of eighteen (18) to fifty-five (55) years old.

3.2.3 Listeners must not have a medical history of ear problems and must have a pure-tone threshold or Pure Tone Average (PTA) no greater than 20 dB HL (i.e. no more than mild hearing loss) at 0.5, 1, 2, and 4 kHz; interaural level difference must be no greater than 15 dB at each of the four frequencies.

3.3 Test Protocol:

3.3.1 The test must be run in accordance with Acoustical Society of America (ASA) S3.2, American National Standard Method for Measuring the Intelligibility of Speech over Communication Systems.

3.3.2 The Modified Rhyme Test (MRT) must be used, as per the requirement.

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3.3.3 The Contractor must select at least four (4) male talkers and one (1) female talker to perform the test.

3.3.4 For each talker, the Contractor must randomly select a word from each of the fifty (50) MRT six-word lists provided in Table 2 of ASA S3.2 2009 to build a list of fifty (50) words for each talker.

3.3.5 Each talker must present their list of fifty (50) words to at least three (3) listeners, hence each listener will be presented with at least fifty (50) words to identify.

3.3.6 All listeners can participate in the test at the same time, but they must not be able to view and copy other listeners' responses.

3.3.7 The Contractor can record the talkers' MRT words and use the recorded MRT words to perform the test.

3.3.7.1 If recorded MRT words are used, the recording must include the talker's voice going through the ISS-S Audio Display microphone while worn in its operational position. The recordings must then be played back to the listeners by sending the voice signal to an ISS-CS radio and transmitting it over-the-air to the listeners' ISS-CS radio and ISS-S Audio Display, which must be worn in their operational position.

3.3.7.2 If a recorded list is not used, the talker must wear the ISS-CS radio and the ISS-S Audio Display and speak into the ISS-S Audio Display microphone while it is worn in its operational position. The ISS-CS radio must transmit the recorded voice over-the-air to the listeners' ISS-CS radio and ISS-S Audio Display, which are worn in their operational position.

3.3.8 The Contractor can use the environment of his choice (e.g. classroom, anechoic chamber, outdoors).

3.3.9 The listeners must not receive any visual or auditory cues during the test except for the cues identified in ASA S3.2 section 6.3.

3.3.10 The talker/recording must transmit each stimulus word to the listeners, and the listeners must attempt to identify the correct word.

3.3.11 The Contractor is allowed to provide guidance to the participants on how to configure the ISS-S Audio Display and ISS Communications Suite in preparation to running the test.

3.3.12 The Contractor is allowed to run practice trials with the participants. The practice trials are intended to familiarize the participants with the test procedure and to ensure that the instructions and the test steps have been understood. The practice trials must be run using randomly selected stimulus words, ensuring that the word lists used for the practice trials are different from the word lists used for the test.

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3.3.13 During the test, the Contractor must record the number of correctly and incorrectly identified words.

3.4 Test Results Analysis:

3.4.1 The requirement is met if the listeners achieved an overall score of ninety one percent (91%) (as per MIL-STD-1472F section 5.3.14) of correct responses; after having factored-in the correction for possible guessing as per ASA S3.2 section 8.2.

4. Sound Localization

4.1 This test must be performed by the Contractor. Canada will observe the test.

4.2 Participants:

4.2.1 The test must be run using at least sixteen (16) different participants provided by the Contractor.

4.2.2 Participants must be a mix of males and females in the age bracket of eighteen (18) to fifty-five (55) years old.

4.2.3 Participants must not have a medical history of ear problems and must have a pure-tone threshold or Pure Tone Average (PTA) no greater than 20 dB HL (i.e. no more than mild hearing loss) at 0.5, 1, 2, and 4 kHz; interaural level difference must be no greater than 15 dB at each of the four frequencies.

4.3 Test Protocol:

4.3.1 Participants must be tested individually while seated in the centre of a circular array of twelve (12) loudspeakers.

4.3.2 The loudspeakers must be positioned at the following angles while the participant is facing 0°: 15°, 45°, 75°, 105°, 135°, 165°, 195° (-165°), 225° (-135°), 255° (-105°), 285° (-75°), 315° (-45°) and 345° (-15°). The speakers should all be at the same distance from the participant's centre head position and at the approximate height of the participant's ears.

4.3.3 The stimulus will be a 300-ms broadband white noise with a 50-ms rise/decay time to minimize onset transients. The stimulus will be provided by Canada as part of package DSSPM-10-TBD. The Contractor must present the stimulus to the participants at 75 dB SPL or less.

4.3.4 The participant must be sitting squarely, focusing at a visual target straight-ahead (at 0°). The participant must not move his head during the test.

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4.3.5 Following each stimulus presentation, the participant is required to identify the loudspeaker that emitted the stimulus.

4.3.6 Each test must comprise of at least five (5) random presentations of the stimulus through each of the twelve (12) loudspeakers, for a total of sixty (60) trials per participant.

4.3.7 The Contractor is allowed to run practice trials with each participant. The practice trials are intended to familiarize the participants with a spatial sense of the loudspeaker array to ensure that instructions and test steps have been understood. The Contractor is allowed to provide feedback to the participant during the practice trials.

4.3.8 The Contractor must run two tests per participant, one test with the ears non-occluded, and one test while the participant is wearing the Contractor's ISS-S.

4.3.9 During the first test, the Contractor must record the number of correctly and incorrectly localized sounds with the participants having non-occluded hearing (not wearing the Contractor's ISS-S). A correctly localized sound is a sound that is within plus or minus forty-five degree ($\pm 45^\circ$) of the loudspeaker position.

4.3.10 During the second test, the Contractor must record the number of correctly and incorrectly localized sounds while the participant is wearing the Contractor's ISS-S with the head uncovered. A correctly localized sound is a sound that is localized to within plus or minus forty-five degree $\pm 45^\circ$ of the loudspeaker position.

4.4 Test Results Analysis:

4.4.1 The requirement is met if the percent correctly localized sounds while wearing the Contractor's ISS-S is within fifteen (15) percent of the correctly localized sounds with the ears non-occluded.

5. Sound Identification

5.1 This test must be performed by the Contractor. Canada will observe the test.

5.2 Participants:

5.2.1 The test must be run using at least sixteen (16) different participants, provided by the Contractor.

5.2.2 Participants must be a mix of males and females in the age bracket of eighteen (18) to fifty-five (55) years old.

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5.2.3 Participants must not have a medical history of ear problems and must have a pure-tone threshold or Pure Tone Average (PTA) no greater than 20 dB HL (i.e. no more than mild hearing loss) at 0.5, 1, 2, and 4 kHz; interaural level difference must be no greater than 15 dB at each of the four frequencies.

5.3 Test Protocol:

5.3.1 Participants must be tested individually while seated in front of a loudspeaker. The loudspeaker should be positioned directly in front of the participant and at the approximate height of the ears.

5.3.2 The stimulus will be provided by Canada as specified in Volume 2, Annex CE para 1.3 DSSPM related documentation. The stimulus consists of ten (10) operationally relevant sounds categorized under five categories, with two sounds per category, as follows:

1. Environment (rustling leaves, snapping twig),
2. Voice (English, Foreign),
3. Equipment (cocking of a C7 rifle, changing a C7 magazine),
4. Vehicle (LAV III, Leopard II),
5. Gun shot (Carl Gustav, C7).

5.3.3 A test must be performed by playing the ten (10) operationally relevant sound stimulus three times to each participant in a random fashion through the loudspeaker for a total of thirty (30) sounds per participant.

5.3.4 The Contractor must present each stimulus at 85 dB SPL at the participant's ears. The participant must be sitting squarely, focusing at a visual target straight-ahead (at 0°). The participant must not move his head during the test.

5.3.5 Following each stimulus presentation, the participant must identify the sound stimulus by responding to a two part question: The participant must select one (1) of five (5) categories representing the sound stimulus and then he must select one (1) of the two (2) sounds within the category.

5.3.6 Prior to the commencement of the test, the ten (10) stimuli should be presented to the participants in order to familiarize them to the sounds. The Contractor is allowed to provide feedback to the participants during the practice trial.

5.3.7 For the first test, the Contractor must record the number of correctly and incorrectly identified sounds with participants having unencumbered hearing (i.e. not wearing the Contractor's ISS-S). A correctly identified sound is a sound that the participant correctly identified out of the ten (10) operationally relevant sounds.

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5.3.8 For the second test, the Contractor must record the number of correctly and incorrectly identified sounds with participants wearing the Contractor's ISS-S. A correctly identified sound is a sound that the participant correctly identified out of the ten (10) operationally relevant sounds.

5.4 Test Results Analysis:

5.4.1 The requirement is met if the percent correctly identified sounds while wearing the Contractor's ISS-S is within five (5) percent of the correctly identified sounds with the ears non-occluded.

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APPENDIX 6 TO ANNEX CB TO VOLUME 2

SYSTEM ACCEPTANCE TEST – SCENARIO INSTRUCTIONS FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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HISTORY

Revision	Date	Description

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1 Introduction

The purpose of this document is to provide an understanding of the scope and approach that will be required for the ISSP System Acceptance Test (SAT), and to provide direction to the Contractor who is responsible to implement the SAT in accordance with the Contract requirements.

The SAT will occur at the end of the sub-system/component qualification test phase. The SAT will be the final ISSP qualification activity, following sub-system and component level qualification testing, as shown in Figure 1.

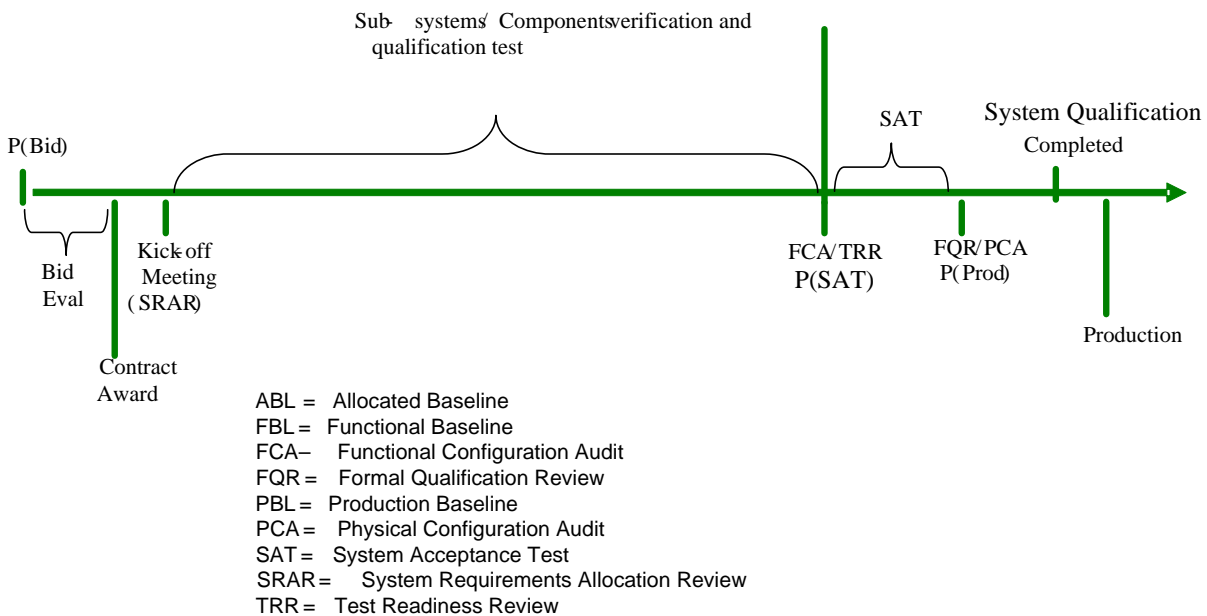


Figure 1: ISSP Major Timelines and Milestones

The contractor is required to prepare the System Acceptance Test Plan (SATP) and System Acceptance Test Description and Procedures (SATDP) documents using the information and direction provided herein, as further described in the ISSP Acquisition SOW, Volume 2, Annex CC, Appendix 2 (DIDs). Figure 2 shows the relationship between this document, the SATP and the SATDP.

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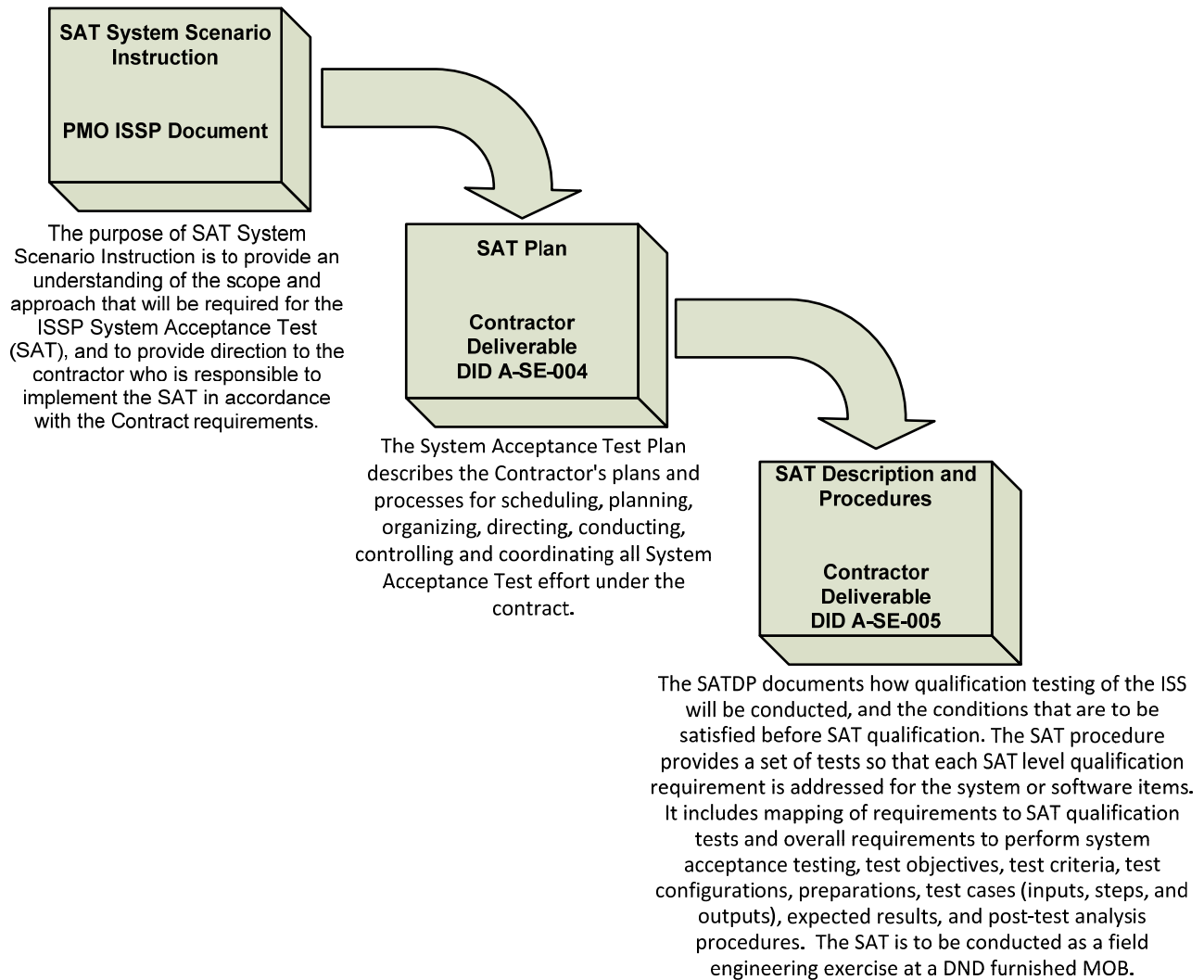


Figure 2: Relationship Between the SAT, SATP and SATDP

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2 SAT Requirement Criteria

The ISSP Technical Performance Specification (TPS) shall be used to determine which ISSP requirements will be tested at the SAT. The majority of ISSP requirements will be qualified during sub-system and component level testing. Requirements that will be qualified at the SAT meet one or several of the following criteria:

- Scale: Requirements that involve interaction between multiple instances of ISS-S;
- Range: Requirements that involve physical separation of multiple instances of ISS-S over specified distances and terrain features;
- Mobility: Requirements that involve one or several instances of the ISS-S that are moving within a specified geographical area, at a specified range of speeds;
- Topology: Requirements that involve specified network topologies or functionality including network relays and range extension and network reconfiguration and adaptation;
- Performance: Requirements that involve concurrent voice and data exchanges between ISS-S instances during which network capacity and performance are evaluated; and
- System Management: Requirements that relate to System Management, and that necessitate the use of a deployed ISS-S network to verify. This includes (but is not limited to):
 - System planning (deliberate and hasty);
 - System configuration and rapid re-configuration;
 - System monitoring; and
 - System security.

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3 Methodology

The SAT will use a core Master Event List (MEL) that contains the system events necessary to stimulate the system under test.

The operational events provide a high level link to operational and tactical scenarios, and concepts of employment. Information exchange events provide the description of the type of information being exchanged, the sources and recipients, and associated Communities of Interest (COI).

Three different ISSP network configurations will be used, to ensure that the various range, mobility, and operating conditions are created to meet the SAT requirements. The transitions between each network configuration are part of the MEL, as they provide the opportunity to test system management and network requirements.

System/Technical Events contain Test Scripts that describe the detailed technical events, system configuration and system actions to be executed. The Test Scripts are intended to be reused throughout the SAT, and combined in order to create a layering of network loads and system events. The reuse of test scripts provides the advantage of having a stable, consistent set of system level test parameters for each type of system event (e.g. section level voice communications, or platoon level positional awareness exchanges) that provide predictable and measurable behaviour and performance.

Figure 3 illustrates the relationship between the overall MEL, operational events, and the embedded system events and test scripts. It also describes the relationship between this information and the SAT System Scenario Description, the SATP and the SATDP.

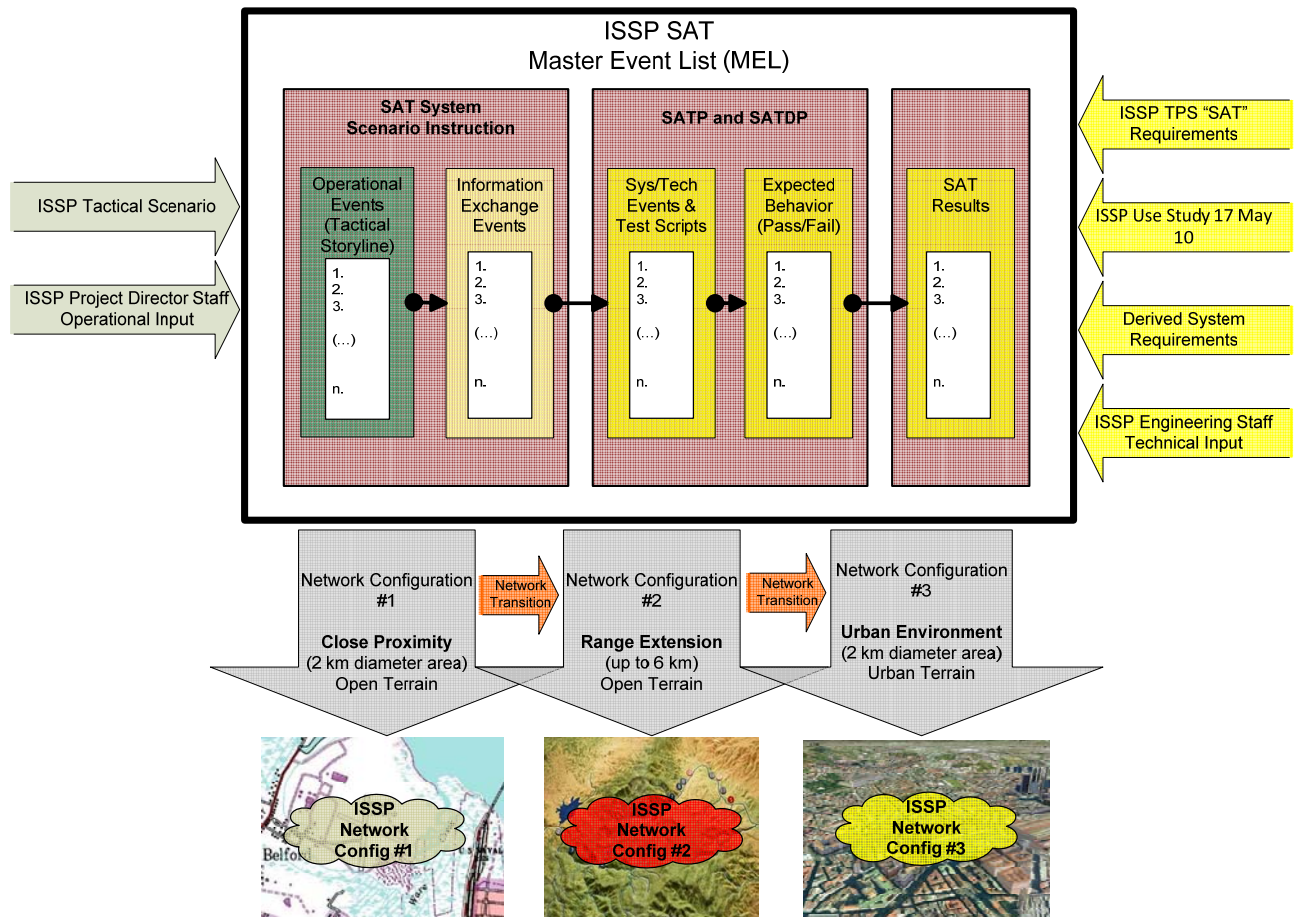


Figure 3: Conceptual Construct of the System Acceptance Test

3.1 SAT Network Configurations

3.1.1 Close Proximity

The Close Proximity network configuration will require the ISS-S instances under test to be dispersed within a 2 kilometre diameter area. The specific COI, network topology, ISS-S instance locations and mobility parameters associated with each instance will be identified in the MEL and in the Test Scripts.

The terrain features for this network configuration shall be “*open terrain*”. An indicative example of this type of terrain may be found in the CFB Petawawa training area at the following coordinates: 45°57'8.23"N 77°20'16.13"W.

3.1.2 Range Extension

The Range Extension network configuration will require the ISS-S instances under test to be dispersed across distances of up to 6 kilometres. The specific COI, network topology, ISS-S

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instance locations and mobility parameters associated with each instance will be identified in the MEL and in the Test Scripts.

The terrain features for this network configuration shall be “*open terrain*”. An indicative example of this type of terrain may be found in the CFB Petawawa training area, as defined by the corridor of terrain between the following two coordinates: 45°58'57.67"N 77°21'43.30"W and 45°56'3.67"N 77°19'19.48"W.

3.1.3 Urban Environment

The Urban Environment network configuration will require the ISS-S instances under test to be dispersed within an area with a 2 kilometre diameter. The specific COI, network topology, ISS-S instance locations and mobility parameters associated with each instance will be identified in the MEL and in the Test Scripts.

The terrain features for this network configuration shall be “*urban environment*”. It is expected that the ISS-S will operate in a mid-size urban environment with a mix of 2 and 3 story buildings.

3.2 SAT ISS-S Node Configuration

32 ISS-S instances will be used during the SAT, with 3 standard ISS-S configurations:

1. Platoon Commander Node (Pl Comd Node)
2. Section Commander / Section 2IC (Sect Comd/2IC)
3. Section Member (Sect Mbr)

The configurations above apply to COI, network, BMS, security and other configurable system settings of the ISS-S, and do not imply more than one ISS-S system variant will be used. The detailed description of these configurations will be developed by the Contractor.

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The intent is to configure the ISS-S instances (nodes) prior to the start of the SAT as described in Table 1. Selected nodes may be reconfigured during the SAT conduct, as described in the Test Scripts.

SAT Node No.	Call Sign	Role	Configuration
1	HQ1	Pl HQ	Pl Comd Node
2	S1A	1 Sect Comd	Sect Comd/2IC
3	S1B	1 Sect 2IC	Sect Comd/2IC
4	S1C	1 Sect Mbr	Sect Mbr
5	S1D	1 Sect Mbr	Sect Mbr
6	S1E	1 Sect Mbr	Sect Mbr
7	S1F	1 Sect Mbr	Sect Mbr
8	S1G	1 Sect Mbr	Sect Mbr
9	S2A	2 Sect Comd	Sect Comd/2IC
10	S2B	2 Sect 2IC	Sect Comd/2IC
11	S2C	2 Sect Mbr	Sect Mbr
12	S2D	2 Sect Mbr	Sect Mbr
13	S2E	2 Sect Mbr	Sect Mbr
14	S2F	2 Sect Mbr	Sect Mbr
15	S2G	2 Sect Mbr	Sect Mbr
16	S3A	3 Sect Comd	Sect Comd/2IC
17	S3B	3 Sect 2IC	Sect Comd/2IC
18	S3C	3 Sect Mbr	Sect Mbr
19	S3D	3 Sect Mbr	Sect Mbr
20	S3E	3 Sect Mbr	Sect Mbr
21	S3F	3 Sect Mbr	Sect Mbr
22	S3G	3 Sect Mbr	Sect Mbr
23	S4A	4 Sect Comd	Sect Comd/2IC
24	S4B	4 Sect 2IC	Sect Comd/2IC
25	S4C	4 Sect Mbr	Sect Mbr
26	S4D	4 Sect Mbr	Sect Mbr
27	S4E	4 Sect Mbr	Sect Mbr
28	S4F	4 Sect Mbr	Sect Mbr
29	S4G	4 Sect Mbr	Sect Mbr
30	MEDIC1	Pl Medic	Pl Comd Node
31	FIRES1	Att FOO	Pl Comd Node
32	MORTAR1	Att Mortar	Pl Comd Node

Table 1: Initial Configuration of ISS-S Nodes

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3.3 Community of Interest Description

A general Community of Interest (COI) allocation is described in Table 2. This depicts a typical way of managing COI membership at the Platoon and Section levels in an Infantry Company.

General COI Description and Composition

COI Name	COI Description	COI Standard Composition
PI (Voice)	All informed voice communication.	All PI Comd Nodes All Section Comd/2IC Nodes
PI (Data)	General purpose data exchanges relating to orders, COP, messaging, file exchanges, sensor data, etc.	All PI Comd Nodes All Section Comd/2IC Nodes
PI (PA)	All informed Positional Updates sent on a frequent, ongoing basis.	All PI Mbr
Sect (Voice)	All informed voice communication.	All Sect Comd/2IC Nodes (in the applicable section) All Sect Mbr (in the applicable section)
Sect (Data)	General purpose data exchanges relating to orders, COP, messaging, file exchanges, sensor data, etc.	All Sect Comd/2IC Nodes (in the applicable section) All Sect Mbr (in the applicable section)

Table 2: General Community of Interest (COI) Allocation

The specific COI and node allocation for the SAT is described in Table 3. Note that this is a baseline, start-state allocation, and that some COI and node membership changes will be required during the SAT as part of the testing. These changes will be specified in the Test Scripts once developed by the Contractor.

SAT Specific COI Names and Node Membership

SAT COI Name	COI Membership Node (Call Sign)
PI (Voice)	1 (HQ 1), 2 (S1A), 3 (S1B), 9 (S2A), 10 (S2B), 16 (S3A), 17 (S3B), 23 (S4A), 24 (S4B), 30 (MEDIC1), 31 (FIRES1), 32 (MORTAR1)
PI (Data)	1 (HQ 1), 2 (S1A), 3 (S1B), 9 (S2A), 10 (S2B), 16 (S3A), 17 (S3B), 23 (S4A), 24 (S4B), 30 (MEDIC1), 31 (FIRES1), 32 (MORTAR1)
PI (PA)	1 (HQ 1), 2 (S1A), 3 (S1B), 4 (S1C), 5 (S1D), 6 (S1E), 7 (S1F), 8 (S1G), 9 (S2A), 10 (S2B), 11 (S2C), 12 (S2D), 13 (S2E), 14 (S2F), 15 (S2G), 16 (S3A), 17 (S3B), 18 (S3C),

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SAT Specific COI Names and Node Membership

SAT COI Name	COI Membership Node (Call Sign)
	19 (S3D), 20 (S3E), 21 (S3F), 22 (S3G), 23 (S4A), 24 (S4B), 25 (S4C), 26 (S4D), 27 (S4E), 28 (S4F), 29 (S4G), 30 (MEDIC1), 31 (FIRES1), 32 (MORTAR1)
1 Sect (Voice)	2 (S1A), 3 (S1B), 4 (S1C), 5 (S1D), 6 (S1E), 7 (S1F), 8 (S1G)
1 Sect (Data)	2 (S1A), 3 (S1B), 4 (S1C), 5 (S1D), 6 (S1E), 7 (S1F), 8 (S1G)
2 Sect (Voice)	9 (S2A), 10 (S2B), 11 (S2C), 12 (S2D), 13 (S2E), 14 (S2F), 15 (S2G)
2 Sect (Data)	9 (S2A), 10 (S2B), 11 (S2C), 12 (S2D), 13 (S2E), 14 (S2F), 15 (S2G)
3 Sect (Voice)	16 (S3A), 17 (S3B), 18 (S3C), 19 (S3D), 20 (S3E), 21 (S3F), 22 (S3G)
3 Sect (Data)	16 (S3A), 17 (S3B), 18 (S3C), 19 (S3D), 20 (S3E), 21 (S3F), 22 (S3G)
4 Sect (Voice)	23 (S4A), 24 (S4B), 25 (S4C), 26 (S4D), 27 (S4E), 28 (S4F), 29 (S4G)
4 Sect (Data)	23 (S4A), 24 (S4B), 25 (S4C), 26 (S4D), 27 (S4E), 28 (S4F), 29 (S4G)

Table 3: Specific COI Allocation

3.4 Physical Venue

The ISSP SAT will take place in a field environment at a yet to be determined DND venue.

3.5 Contractor Responsibilities

The Contractor will be responsible for the planning, preparation and execution of all SAT tasks and activities.

3.6 Test Witnessing

PMO ISSP personnel will witness all phases of the SAT. At least one VIP day will be scheduled during the SAT.

3.7 Duration

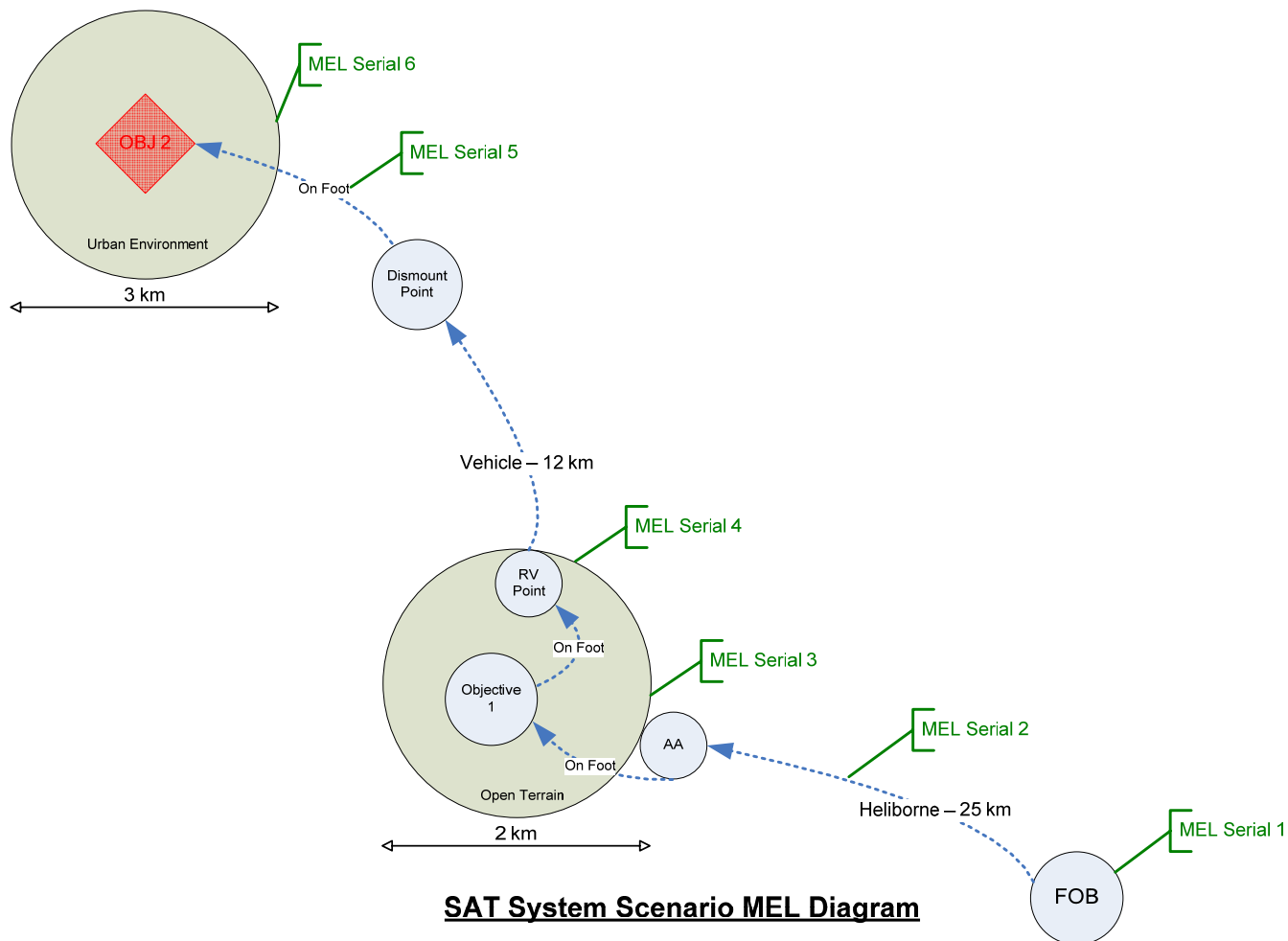
The SAT duration will be determined by the contractor, which will include setup and tear-down, but excluding shipping and transportation of personnel and equipment to and from the SAT venue.

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4 SAT Support

The Contractor will be required to plan for and supply all logistical, administrative and technical support necessary to conduct the SAT. The physical venue will be provided by the Crown, along with other Government Furnished Equipment such as in-service LCSS equipment and soldier equipment.

Attachment 1 - SAT MEL



MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
1.00	T0	Planning	The platoon is located in a Forward Operating Base. They are preparing to move out and conduct patrol operations. The Platoon Comd has received his orders from the Company Commander, and has issued a Warning Order to his platoon. The designated ISS SMEs have been tasked to prepare the ISS using the system management information provided to them by the Company HQ. The Platoon Commander issues his orders to the assembled platoon using a paper map and verbal instructions, and the platoon finishes their preparations.						
1.01	T0	System Management - Planning	SM Planning Data	SM Node	N/A	N/A	Close Proximity	SM Planning Script	TPS-5376 TPS-4112 TPS-1816 TPS-2998 TPS-1135 TPS-3002 TPS-3003 TPS-2999 TPS-3008 TPS-1818 TPS-3009 TPS-1162 TPS-1793 TPS-1058 TPS-3015 TPS-1139
2.00	T1 to T2	Configuration & Deployment	The platoon ISS SMEs are now ready to configure the ISS, and move through the platoon lines doing so. Once complete the platoon gears up, conducts a communication systems check, and boards a Chinook helicopter that transports them to the Assembly Area. After debarking and shaking out, the platoon steps off on foot to start their patrol.						TPS-5163

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
2.01	T1	System Management - Configuration	SM Configurat ion Data	SM Node	N/A	N/A	Close Proximity	SM Configuration Script	TPS-5378 TPS-4994 TPS-1488 TPS-1816 TPS-4930 TPS-1818 TPS-3015
2.02	T2	Sect Equipment/Comm Checks	Voice and Data Comms Checks	Section Comds	All Section Mbrs	Sect (Voice) Sect (Data)	Close Proximity	Sect Comm Check Script	TPS-5378 TPS-796 TPS-800 TPS-804 TPS-803 TPS-861 TPS-2633 TPS-2634 TPS-1058
2.03	T2	PI Equipment/Comm Checks	Voice and Data Comms Checks	PI HQ	All PI Comd Nodes All Sect Comd/2IC Nodes	PI (Voice) PI (Data)	Close Proximity	PI Comm Check Script	TPS-5378 TPS-796 TPS-800 TPS-804 TPS-803 TPS-861 TPS-2635 TPS-5195 TPS-2940 TPS-1058

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
3.00	T3	Execution (Patrolling)	The platoon walks through a mix of open and wooded terrain, heading towards a village 1.5km ahead. The patrol is uneventful. The platoon arrives in the village and the Platoon Commander meets with the head of the village.						TPS-796 TPS-800 TPS-4254 TPS-5158 TPS-5159 TPS-5160 TPS-2634 TPS-833 TPS-804 TPS-803 TPS-861 TPS-5195 TPS-5163 TPS-3911
3.01	T3	PI PA Reporting	Platoon PA	All PI Mbrs	All PI Mbrs	PI (PA)	Close Proximity	PI PA Script	TPS-2585 TPS-4100 TPS-2717 TPS-4254 TPS-5159 TPS-2635
3.02	T3	Section Voice C2	Section Voice	All Section Mbrs	All Section Mbrs	Sect (Voice)	Close Proximity	Sect Voice Script	TPS-2633
3.03	T3	Platoon Voice C2	Platoon Voice	All PI Voice COI Mbrs	All PI Voice COI Mbrs	PI (Voice)	Close Proximity	PI Voice Script	TPS-1622 TPS-4254 TPS-5158

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
3.04	T3	Platoon Data C2	Platoon Data	All PI Data COI Mbrs	All PI Data COI Mbrs	PI (Data)	Close Proximity	PI Data Script	TPS-859 TPS-860 TPS-862 TPS-864 TPS-4254 TPS-5160
4.00	T4 to T7	Execution (Redeployment)	After sending in a SITREP from the village, the Platoon Commander receives a FRAG O from the Company HQ, ordering the platoon to move to a RV point, link up with their vehicles, and move to a new location. Their new task is to conduct a patrol in a town located 12 km away where small pockets of enemy have been reported. Due to the steep terrain and tight quarters in the town, the platoon will dismount on the edge of the built up area, and move forward on foot towards the objective. As the platoon gets ready to redeploy, the Platoon Commander, Platoon WO and Section ICs conduct their battle procedure. Once all of this is complete, the platoon completes a communication system and equipment check then walks to the RV point.						TPS-5163
4.01	T4	Platoon Comd receives Frag O from Coy Comd to redeploy on new task.	LCSS Voice & Data	Coy HQ (external)	PI HQ	LCSS PI HQ	N/A	N/A	TPS-5374
		Platoon Comd issues Wng O to his Section Comds.	BMS Voice and Data	PI HQ	All Sect Comd/2IC Nodes	PI (Voice) PI (Data)	Close Proximity	PI BMS Script	TPS-859 TPS-860 TPS-861 TPS-862 TPS-864 TPS-613 TPS-483 TPS-4859

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
4.02	T5	Platoon Battle Procedure	BMS Voice & Data	PI HQ	All Sect Comd/2IC Nodes	PI (Voice) PI (Data)	Close Proximity	PI BMS Script	TPS-859 TPS-2399 TPS-2708 TPS-4843
4.03	T6	Section Battle Procedure	BMS Voice & Data	Section Comds	All Section Mbrs	Sect (Voice) Sect (Data)	Close Proximity	Sect BMS Script	TPS-859 TPS-860 TPS-861 TPS-862 TPS-864 TPS-2633 TPS-2634 TPS-2420 TPS-2422 TPS-4843 TPS-483 TPS-4859 TPS-2399
4.04	T7	Sect Equipment/Comm Checks	Voice and Data Comms Checks	Section Comds	All Section Mbrs	Sect (Voice) Sect (Data)	Close Proximity	Sect Comm Check Script	TPS-796 TPS-800 TPS-804 TPS-803 TPS-861 TPS-2633 TPS-2634 TPS-1058

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
4.05	T7	PI Equipment/Comm Checks	Voice and Data Comms Checks	PI HQ	All PI Comd Nodes Sect Comd/2IC Nodes	PI (Voice) PI (Data)	Close Proximity	PI Comm Check Script	TPS-796 TPS-800 TPS-804 TPS-803 TPS-861 TPS-2635 TPS-5195 TPS-2940 TPS-1058
5.00	T8 to T10	Execution (Move mounted and dismounted – extended range)	The platoon links up with their vehicles and moves forward to the new location. Aboard the vehicles, the platoon leadership continues coordinating over LCSS voice and data means. En route, the vehicle of 4 Section gets into a road accident and 4 of the section members are unable to continue with the mission. Medical evacuation request and vehicle evacuation request are conducted on LCSS. The three remaining members of the section are attached to the other sections, one soldier per section and the platoon continues with the mission. At approximately 2 km upon arrival, the platoon moves up to the dismount point, gets out of their vehicles, and prepares to move towards the objective on foot. While moving towards the town and before entering the town, the three sections spread out such that their range could vary from 2 km to 6 km.						TPS-796 TPS-800 TPS-4254 TPS-5158 TPS-5159 TPS-5160 TPS-2634 TPS-833 TPS-804 TPS-803 TPS-861 TPS-3908 TPS-3909 TPS-3913 TPS-1650 TPS-3911 TPS-5163

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
5.01	T8	Platoon moves by vehicle to Dismount Point	Platoon Voice and Data on LCSS	PI HQ	All	LCSS	N/A	N/A	N/A
5.02	T9	System Management - Reconfiguration "On-The-Fly" – Three 4 Section members are attached to the other sections (one member per section)	SM Planning Data	S4C S4D S4E	N/A	N/A	Close Proximity	SM Reconfiguration "On-The-Fly" Script	TPS-1058 TPS-2933 TPS-4183
		Sect Equipment/Comm Checks	Voice and Data Comms Checks	Section Comds	All Section Mbrs	Sect (Voice) Sect (Data)	Close Proximity	Sect Comm Check Script	TPS-796 TPS-800 TPS-804 TPS-803 TPS-861 TPS-2633 TPS-2634 TPS-1058 TPS-2940
5.03	T9 to T10	PI PA Reporting	Platoon PA	All PI Mbrs	All PI Mbrs	PI (PA)	Range Extension	PI PA Script Range Extension Script	TPS-2585 TPS-4100 TPS-2717 TPS-2635 TPS-4254 TPS-5159

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
5.04	T10	Dismounted Platoon moves toward town at extended range – Section Voice C2	Section Voice	All Section Mbrs	All Section Mbrs	Sect (Voice)	Range Extension	Sect Voice Script Range Extension Script	TPS-2633 TPS-4079 TPS-1620 TPS-2438
5.05	T10	Platoon Voice C2	Platoon Voice	All PI Voice COI Mbrs	All PI Voice COI Mbrs	PI (Voice)	Range Extension	PI Voice Script Range Extension Script	TPS-4079 TPS-1620 TPS-2438 TPS-4254 TPS-5158
5.06	T10	Platoon Data C2	Platoon Data	All PI Data COI Mbrs	All PI Data COI Mbrs	PI (Data)	Range Extension	PI Data Script Range Extension Script	TPS-859 TPS-860 TPS-862 TPS-864 TPS-4254 TPS-5161 TPS-5160 TPS-4253 TPS-3910
6.00	T10 to T13	Execution (Patrol in the Town)	The Company Commander gives the order to start the patrol, and the platoon moves forward carefully. They enter the town and continue moving tactically. Soon afterwards, 1 Section comes under fire from a suspected enemy sniper and takes cover in alleys and doorways. The sniper is located on the roof of a two story house. The Section IC spots the location of the enemy sniper, lasers the target, and sends a Call For Fire for Mortar support. At the same time, a soldier is hit in the leg by the sniper, and a Casevac is requested. Two of his section members provide first aid and take the injured soldier back to the Casualty Collection Point. One of the soldiers providing first aid took out his ISS-S kit and set it aside at which time a local child steals it and run away. The						TPS-796 TPS-800 TPS-4254 TPS-5158 TPS-5159 TPS-5160 TPS-2634 TPS-833 TPS-804

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
			Section Commander conducts a remote zeroization of the ISS-S. Following mortar fire on the designated target, the enemy fire ceases and the platoon receives order to clear the house.						TPS-803 TPS-861 TPS-3908 TPS-3909 TPS-3914 TPS-3915 TPS-5163 TPS-5195 TPS-890
6.01	T10 to T13	PI PA Reporting	Platoon PA	All PI Mbrs	All PI Mbrs Nodes	PI (PA)	Urban	PI PA Script Network Transition Script	TPS-2585 TPS-4100 TPS-2717 TPS-4254 TPS-5159 TPS-2635
6.02	T10 to T13	Section Voice C2	Section Voice	All Section Mbrs	All Section Mbrs	Sect (Voice)	Urban	Sect Voice Script Network Transition Script	TPS-2633 TPS-4079 TPS-1620 TPS-2438
6.03	T11	Targeting	Targeting	Sect Comd	N/A	N/A	Urban	Targeting Script	TPS-5325 TPS-5327
6.04	T11	CASEVACREQ	Casualty Evacuatio n Request	Sect Comd	CASEVAC1	PI (Data)	Urban	Casevac Script	TPS-860 TPS-862 TPS-864 TPS-5161 TPS-5494

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
6.05	T11	Call for Fire	Call for Fire	Sect Comd	MORTAR1	PI (Data)	Urban	Call for Fire Script	TPS-860 TPS-862 TPS-864 TPS-5161 TPS-1325
6.06	T10 to T13	Platoon Voice C2 (outdoors and indoors)	Platoon Voice	All PI Voice COI Mbrs	All PI Voice COI Mbrs	PI (Voice)	Urban	PI Voice Script Network Transition Script	TPS-4079 TPS-1620 TPS-2438 TPS-4254 TPS-5158
6.07	T10 to T13	Platoon Data C2 (outdoors and indoors)	Platoon C2 Data	All PI Data COI Mbrs	All PI Data COI Mbrs	PI (Data)	Urban	PI Data Script Network Transition Script	TPS-859 TPS-860 TPS-862 TPS-864 TPS-4254 TPS-5161 TPS-5160 TPS-4253 TPS-3910
6.08	T12 to T13	Section Voice C2 – Clearing House	Section Voice	All Section Mbrs	All Section Mbrs	Sect (Voice)	Urban	Sect Voice Script Network Transition Script	TPS-2633 TPS-4079 TPS-1620 TPS-2438
6.09	T13	Remote Zeroize	Remote Zeroize	Sect Comd	Specified node	Sect (Data)	Urban	Remote Zeroize Script	TPS-959 TPS-960

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
7.00		SAT Events Complete							

Attachment 2 - Test Script Overview

Test Script Serial	Test Script Duration	Test Script Name	Test Script Description	Test Script Activities (to be further developed by the Contractor in the SATP and SATDP)	ISS-S Instances (Nodes)	COI(s)	Notes
1	TBD by Contractor	SM Planning Script	System Management tasks and information exchanges related to planning for ISS-S deployment.	<ul style="list-style-type: none">- Create network plan and crypto plan for all ISS-S instances- Create any other required SM information such as BMS plans, ORBATS, etc	SM Node PI HQ	N/A	
2	TBD by Contractor	PI BMS Script	Platoon level BMS related tasks and information exchanges between PI Comd, PI WO, Section Comd, Sect 2ICs and other PI members as required	<ul style="list-style-type: none">- Receive and read Coy Orders- Create and share Platoon orders- Share imagery- Share COP/SA- Create and share overlay	PI HQ All Sect Comds All Sect 2ICs FIRES1 MEDIC1 MORTAR1	PI (Voice) PI (Data)	Loop as required to meet network loading / duration SAT parameters
3	TBD by Contractor	Sect BMS Script	Section level BMS related tasks and information exchanges between Sect Comd, Sect 2IC and Sect members	<ul style="list-style-type: none">- Receive and read PI Orders- Create and share Sect orders- Share imagery- Share COP/SA- Create and share overlay	All Sect Nodes	Sect (Voice) Sect (Data)	Scale from 1 to 4 Sections as required Loop as required to meet network loading / duration SAT parameters

Test Script Serial	Test Script Duration	Test Script Name	Test Script Description	Test Script Activities (to be further developed by the Contractor in the SATP and SATDP)	ISS-S Instances (Nodes)	COI(s)	Notes
4	TBD by Contractor	SM Configuration Script	System Management tasks and information exchanges related to the configuration of ISS-S equipment prior to deployment.	- Configure all ISS-S instances with required network, COI, security, BMS and other (as required) settings	All Nodes	N/A	
5	TBD by Contractor	Sect Comm Check Script	Voice, data and PA exchanges between Section COI member ISS-S equipment to ensure that all is working properly prior to deployment.	- Perform voice and data communication checks with all Section level ISS-S instances (intra-section)	All Sect Nodes	All Sect COIs	The comms checks could be manually generated, or system generated
6	TBD by Contractor	PI Comm Check Script	Voice, data and PA exchanges between Platoon COI member ISS-S equipment to ensure that all is working properly prior to deployment.	- Perform voice and data communication checks with all Platoon level ISS-S instances (includes Section level nodes that are on the Platoon COIs)	All PI Nodes	All PI COIs	The comms checks could be manually generated, or system generated
7	TBD by Contractor	Sect Voice Script	Voice exchanges between Section members	PTT Broadcast voice duty cycle: - 20 sec on / 120 sec off/rx (applicable to 70% of the script duration) - 10 sec on / 2 sec off /rx (applicable to 30% of the script duration)	All Sect Nodes	Sect (Voice)	Scale from 1 to 4 Sections as required
8	TBD by Contractor	PI PA Script	PA exchanges between Platoon members	- PA configured to minimum 10 sec refresh for all nodes	All PI Nodes	PI (PA)	

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Test Script Serial	Test Script Duration	Test Script Name	Test Script Description	Test Script Activities (to be further developed by the Contractor in the SATP and SATDP)	ISS-S Instances (Nodes)	COI(s)	Notes
9	TBD by Contractor	PI Voice Script	Voice exchanges between Section members	PTT Broadcast voice duty cycle:- 20 sec on / 120 sec off/rx (applicable to 70% of the script duration)- 10 sec on / 2 sec off /rx (applicable to 30% of the script duration)	PI HQ All Sect Comds All Sect 2ICs FIRES1 MEDIC1 MORTAR1	PI (Voice)	
10	TBD by Contractor	PI Data Script	Data exchanges between Platoon COI members (messages, reports and returns)	- Create and share a free text message - Create and share a formatted message	PI HQ All Sect Comds All Sect 2ICs FIRES1 MEDIC1 MORTAR1	PI (Data)	
11	TBD by Contractor	SM Reconfiguration "On-The-Fly" Script	SM activities required to rapidly reconfigure the ISS-S following a change in organisation and/or mission.	- Rapidly configure some ISS-S instances with required network, COI, security, BMS and other (as required) settings	Some specific Nodes	All COIs	
12	TBD by Contractor	Range Extension Script	Tests the ISS-S network over ranges of up to 6 km, and ensures that network performance is met in multi-hop relay conditions.	- Reestablish the ISS-S network along a 6 km area - Ensure that all ISS-S network parameters and functionality automatically adjust to the extended network configuration	All Nodes	All COIs	
13	TBD by Contractor	Network Transition Script	Tests the ISS-S network under urban environment network	- Move the ISS-S instances into the "urban environment" network	All Nodes	All COIs	

Test Script Serial	Test Script Duration	Test Script Name	Test Script Description	Test Script Activities (to be further developed by the Contractor in the SATP and SATDP)	ISS-S Instances (Nodes)	COI(s)	Notes
			conditions, including ability to transition from open terrain to urban environment without user intervention.	configuration <ul style="list-style-type: none"> - Ensure that all ISS-S network parameters and functionality automatically adjust to the urban network conditions and configuration 			
14	TBD by Contractor	Targeting Script	Tests the ability to generate and distribute CORAL-CR-C based targetting information	<ul style="list-style-type: none"> - Lase a designated object with the CORAL-CR-C - Verify that an accurate 10 figure coordinate is displayed on the ISS-S - Share the target information 	FIRES1 PI HQ All Sect Comds All Sect 2ICs	PI (Data)	
15	TBD by Contractor	Casevac Script	Tests the ability of the ISS-S to generate and distribute an automated medevac message	<ul style="list-style-type: none"> - Create a Casevac message - Share a Casevac message 	Sect Comd MEDIC1 PI HQ	PI (Data)	
16	TBD by Contractor	Call for Fire Script	Tests the ability of the ISS-S to generate and distribute an automated Call For Fire message	<ul style="list-style-type: none"> - Create a Call For Fire message- - Share a Call for Fire message 	FIRES1 PI HQ All Sect Comds All Sect 2ICs	PI (Data)	
17	TBD by Contractor	Remote Zeroize Script	Activities related to the conduct of a remote zeroization of an ISS-S instance.	<ul style="list-style-type: none"> - Conduct a remote zeroization to an ISS-S that has been stolen. 	Sect Member	Sect (Data)	

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APPENDIX 7 TO ANNEX CB TO VOLUME 2

MLCS PLATFORM TDP MANUFACTURING DATA FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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HISTORY

Revision	Date	Description

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1. SCOPE

1.1 This Manufacturing Data covers the material, design and construction and inspection requirements for the Modular Load Carriage System, comprising of a chest rig and a back yoke.

2. APPLICABLE DOCUMENTS

2.1 Government documents. The following documents form part of this Manufacturing Data to the extent specified herein.

- | | |
|------------------------|--|
| a. D-80-001-055/SF-001 | Label, Clothing and Equipment |
| b. D-LM-008-036/SF-000 | DND Minimum Requirements for
Manufacture's Standard Pack |
| c. D-LM-008-002/SF-001 | Specification for Marking and Storage and
Shipment |
| d. D-80-001-500/SF-001 | Specification for CADPAT TW [Canadian
Disruptive Pattern, (Temperate Woodland)]
*Available on request only |
| e. DSSPM 2-2-80-211 | Specification for Cloth Coated
Nylon/Polyurethane, 425g/m ²
*Available on request only |
| f. D-80-001-091/SF-001 | Cloth, Plain Weave Nylon- 195 g/m ² and 230 g/m ²
* Available on request only |

2.2 Other Publications. The following documents form part of the Manufacturing Data to the extent specified herein. Effective data must be that in effect on the date of manufacture.

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Majesté la Reine du chef du Canada représentée par le ministre de la Défense nationale. 2010

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- | | |
|--|--|
| a. CAN/CGSB 4.2 | Textile Test Methods |
| b. CAN/CGSB-54.1-M | Stitches and Seams |
| c. CAN/CGSB – 4GP-85-Ma | 100 % Nylon (type 6.6) Bonded Thread |
| d. CAN/CGSB-86.1-2003 | Care Labelling of Textiles |
| e. ASTM D4966 | Standard Test Method for Abrasion Resistance of Textile fabrics (Matindale Abrasion Tester Method) |
| f. MIL-W-17337 | Webbing, Textile, Woven Nylon |
| g. MIL-PRF-5038J | Tape, Textile and Webbing, Textile, Reinforcing, Nylon |
| h. MIL Commercial specification A-A-55301 | Webbing Textile, Textured or Multifilament Nylon |
| i. MIL Commercial Specification A-A-55126B | Fastener Tapes, Hook and Loop, Synthetic |

2.3 Figures. The following figures in Vol. 2, Annex CB, App. 7, Att. 1 form part of this Manufacturing Data. Figures are not to scale.

Figure 1 MLCS Chest Rig- Front Face View

Figure 2 MLCS Chest Rig- Back Panel View

Figure 3 MLCS Chest Rig Front Face- Cut Away View Showing Interior Construction

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- Figure 4 MLCS Back Yoke- Front View
- Figure 5 MLCS Back Yoke- Back View
- Figure 6 MLCS Chest Rig Front View- Showing Shoulder Tab Detail
- Figure 7 MLCS Back Yoke- Back View Showing Bottom Opening

2.4 Sealed Patterns

DSSPM 464-10	Modular Load Carriage System (MLCS), Front Chest Rig
DSSPM 466-10	Modular Load Carriage System (MLCS), Chest Rig- Back Yoke
DSSPM 259-01	Cloth, Twist, Cotton/Nylon, Lightweight, CADPAT (TW) (Disruptive Pattern Temperate) for pattern, motif, size, colour distribution, clarity and colour guidance.
DSSPM- 281-00	Cloth, Nylon, Polyurethane Coated, 425 g/m ² for construction and hand
DSSPM 281-01	Cloth, Twist, Nylon/Cotton 170 g/m ² , Canadian Average Green (For colour and IRR properties)
DSSPM 271-07	Cloth, Plain Weave, Nylon, Polyurethane Coated 230 g/m ² , Type II, Sealed for construction and finish for Type II
DSSPM 251-04	Mesh, 100% Polyester, Warp Knit CADPAT™ Light Sand, sealed for construction only

2.5 Paper Patterns. Paper patterns are held under computer code MLCS14. Sizes Medium and Small will be used.

3.0 REQUIREMENTS

3.1 Sealed Pattern. Sealed patterns will be supplied. The sealed patterns must constitute the standard in regard to any properties not specified in the Manufacturing Data.

3.2 Design. The design must be in accordance with Sealed Patterns DSSPM 464-10 and DSSPM 466-10 and must incorporate the following features.

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- a. Front chest rig includes PALS webbing grid comprised of 7 horizontal rows of 1" webbing divided into 1 ½" wide columns.
- b. Back yoke includes PALS webbing grid comprised of 8 horizontal rows of 1" webbing with 6 columns wide.
- c. Shoulder straps include wrap around tabs for securing cables.
- d. Shoulder straps with 2" wide hook and loop fastening tape
- e. Front chest rig opens at bottom to reveal a hidden plate carrier pocket inside.
- f. Front chest rig and back yoke rig include opening along bottom edge that fastens with 2" hook and loop tape.
- g. Plastic loops located along bottom edge of front and back rigs.
- h. Underside of back yoke includes plate carrying pocket pouch with 6" elastic retainer
- i. Mesh pocket located on the back of the chest rig.

3.3. Size. The MLCS includes a chest rig and a back yoke. The chest rig is available in two sizes and the back yoke is one size fits all. The two are fastened together with Velcro shoulder straps and an adjustable waist strap. This configuration is designed to fit a wide range of waist sizes. The size chart in Table 1 illustrates the waist size in relation to the vest size required.

Table 1- MLCS Size Chart

Body Measurement	Front Chest Rig Size
Waist	
Up to 38"	Small
38" and above	Medium

3.4 Materials.

3.4.1 Shell Fabric. The material for the chest rig shell must be textured high tenacity nylon, polyurethane coated, 425 g/m² cloth in accordance with specification DSSPM 2-2-80-211, Type I. The colour must be CADPAT Temperate Woodland (TW) in accordance with specification D-80-001-500/SF-001. IR Reflectance is required.

3.4.2 Lining Fabric. The shell of the chest rig must be lined with a 100 % nylon, plain weave, polyurethane coated, 230 g/m², Type II, material in accordance with specification D-80-001-091/SF-001. The colour must be Canadian Average Green (CAG). IR Reflectance is not required.

3.4.3 Polyester Mesh. The warp knitted polyester mesh used in the map pocket on the underside (lining side) of the chest rig must be in accordance with Table II. The knit construction of the mesh must be as per sealed sample DSSPM 267-01, with a minimum of

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5.4 holes per square cm (3.5 holes per square inch). The colour of the mesh material must be black. P/N 1265 from Heathcoat fabrics of Tiverton England has been known to meet this specification. IR Reflectance is not required.

Table II- Performance Requirements for Mesh

PROPERTY	METHOD	SPECIFIED REQUIREMENT	MINIMUM ACCEPTABLE	MAXIMUM ACCEPTABLE
MASS	5.1*	385 g/m ²	370 g/m ²	400 g/m ²
FIBRE CONTENT	14*	100 % Polyester		
KNITTED FABRIC COUNT	7*	Wales: 20/ inch Courses: 22/inch	Wales: 18/ inch Courses: 22/inch	Wales: 22/ inch Courses: 24/inch
BREAKING STRENGTH	9.1*	1000N	950 N	
COLOURFASTNESS TO CROCKING	22*	Dry Staining: GS 5 Wet Staining: GS 5		Dry Staining: GS 4 Wet Staining: GS 4
ABRASION	D4966**	No change in surface		

*CAN/CGSB Canadian General Standards Board, Textile Test Methods

** ASTM American Society for Testing and Materials

3.4.4 Hook and Loop Fastening Tape. The tape fasteners used in the construction of the chest rig must be 5 cm (2") for both hook and loop and 3.8 cm (1 ½") for loop only. The tape fasteners must be in accordance with commercial MIL specification A-A- 55126B Type II, Class 1.. The colour must be CAG in accordance with specification D-80-001-500/SF-001. IR Reflectance is not required.

3.4.5 Binding Tape. The binding tape used to bind all edges of the chest rig must be 25mm (1") and 19 mm (¾") on the inner pocket. The binding tape must be nylon tape, textile reinforcing, Type III in accordance with specification MIL-PRF-5038J. The colour must be CAG in accordance with specification D-80-001-500/SF-001. IR reflectance is required for the 25 mm (1") binding tape only.

3.4.6 Webbing, 25mm (1 inch), 38mm (1 1/2 inch). The "Pouch Attachment Ladder System" (PALS) on the chest rig must be constructed from 25mm (1 ") nylon webbing and the waist straps must be constructed from 38mm (1 ½ ") webbing in accordance with

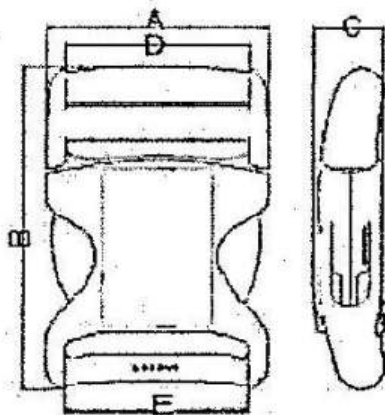
commercial MIL A-A-55301, Type III. The colour must be CAG in accordance specification D-80-001-500/SF-001. IR reflectance is required.

3.4.7 Webbing, 50 mm (2 inch). The drag handle on the back yoke of the chest rig must be 50mm (2") nylon in accordance with MIL-W-17337, Class 1 or 2. The colour must be CAG in accordance specification D-80-001-500/SF-001. IR Reflectance is required.

3.4.8 Elastic. The elastic used on the back yoke plate carrier must be in accordance with Vol 2, Annex CB, App 7, Att 4. The colour of the elastic must be black. IR Reflectance is not required.

3.4.9 Side Release Buckle Assembly, 1 ½ . The waist straps on the chest rig must include a 1 1/2" side release buckle assembly consisting of a male and female buckle. The buckles must be made of polyactel (POM) with an average breaking strength of 1,391 Newtons (312.2 lbs) and a unit weight of 24.7 grams. The dimensions must be in accordance with Diagram I. Two (2) buckle assemblies are required for each chest rig. The colour of the buckle assembly must be CAG in accordance with specification D-80-001-500/SF-001 and to sealed pattern DSSPM 281-01. P/N LB38WG from YKK has been known to meet this requirement. IRR is required.

Diagram I



DIMENSIONS

	(MM)	(INCH)
A	47.2	1.89
B	67.6	2.70
C	14.6	0.58
D	38.2	1.53
E	38.6	1.54

(All tolerance are within $\pm 0.4mm$ or 0.02")

3.4.10 Common Loop or Rectangle, 25mm (1"). The 25mm (1") plastic rectangular loops used on the bottom of the chest rig must be made of polyacetal or acetal. The colour of the loops must be CAG in accordance with specification D-80-001-500/SF-001 and sealed pattern 281-01. YKK, P/N LT25 K has been known to meet this requirement. IR Reflectance is required.

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3.4.11 Foam, 50 Kg/m³. The foam used in the shoulder straps on the back yoke must be a polymeric closed cell physically expended foam (Trade Name Zotefoam). The thickness must be 1/8" and must meet the specification at Vol. 2, Annex CB, App 7, Att. 3.

3.4.12 Thread. The thread used in the construction of the MLCS must be continuous bonded nylon in accordance with CAN/CGSB 4-GP-85, Type II, Class B, Tex 70. The thread must meet the physical requirements specified in Table 2 of CAN/CGSB 4-GP-85 for Tex Ticket no. R70 Tex. The colour must be a good visual match to CAG in accordance with sealed pattern 281-01.

3.4.13. Label. A marking label must be made in accordance with D-80-01-055/SF-001 and positioned as indicated in paragraph 3.8. The colour must be a good visual match to CAG in accordance with sealed pattern DSSPM 281-01.

3.5 Cutting. The MLCS must be cut using duplicates of Government supplied paper patterns. These patterns include seam allowance but do not include "make-up" allowance. The contractor must be responsible for any changes which may be required for make-up allowance to suit their production methods, but the design, grade or the requirements specified herein must not be changed.

3.5.1 The fabrics must be cut in the direction of the warp as shown on the paper patterns.

3.5.2 The methodology used to mark the placement of materials such as the webbing on the fabric is left to the contractors discretion. However no process where the marking damages the shell fabric is permitted.

3.5.3 The specified materials must be cut and used in accordance with best commercial standards and practices.

3.6 Sewing.

3.6.1 All seams and stitches must be in accordance with CAN/CGSB-54.1-M.

3.6.2 All stitching must be either lock stitched Type 301 or lock chain stitch 401 conforming to CCAN/CGSB-54.1M, having not less than 8 and not more than 10 stitches per inch (2.5cm).

3.6.3 The ends of all lock stitched seams and stitching and breaks in thread must be securely backstitched.

3.6.4 The stitches must present a regular even appearance without fabric pucker and must be free from skips that may result from faulty machine thread tension or other stitching malfunctions.

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3.6.5 All double needle topstitching when specified must be lock or lock-chain stitched with the needles set ¼” and where specified 3/16” apart and not less than 1/16” (1.6 mm) from the edge.

3.6.6 Bar tacks must be used to reinforce areas of the MLCS. Bar tacks must be in accordance with CGSG stitch type 304. The two sizes of bar tacks used throughout the MLCS are used 1” and 2” is used on the extraction handle. Refer to the General Sewing Instructions in Appendix 2 for size and locations.

3.7 Construction.

3.7.1 Vol. 2, Annex CB, App. 7, Att. 2 is provided as a guidance document only. It contains detailed instructions on the construction of the MLCS. It is not adapted to any particular assembly line, method or system of production. The contractor must manufacture the MLCS in accordance with the specification and the paper patterns.

3.8 Measurements. Measurements must be as shown on the applicable Figures. (Vol. 2, Annex CB, App. 7, Att. 1)

3.9 Marking Label. The MLCS chest rig and the back yoke must each include a label. The size of the label must measure 6.35cm (2 ½”) long by 7.6 (3”) wide and must be topstitched on the following locations:

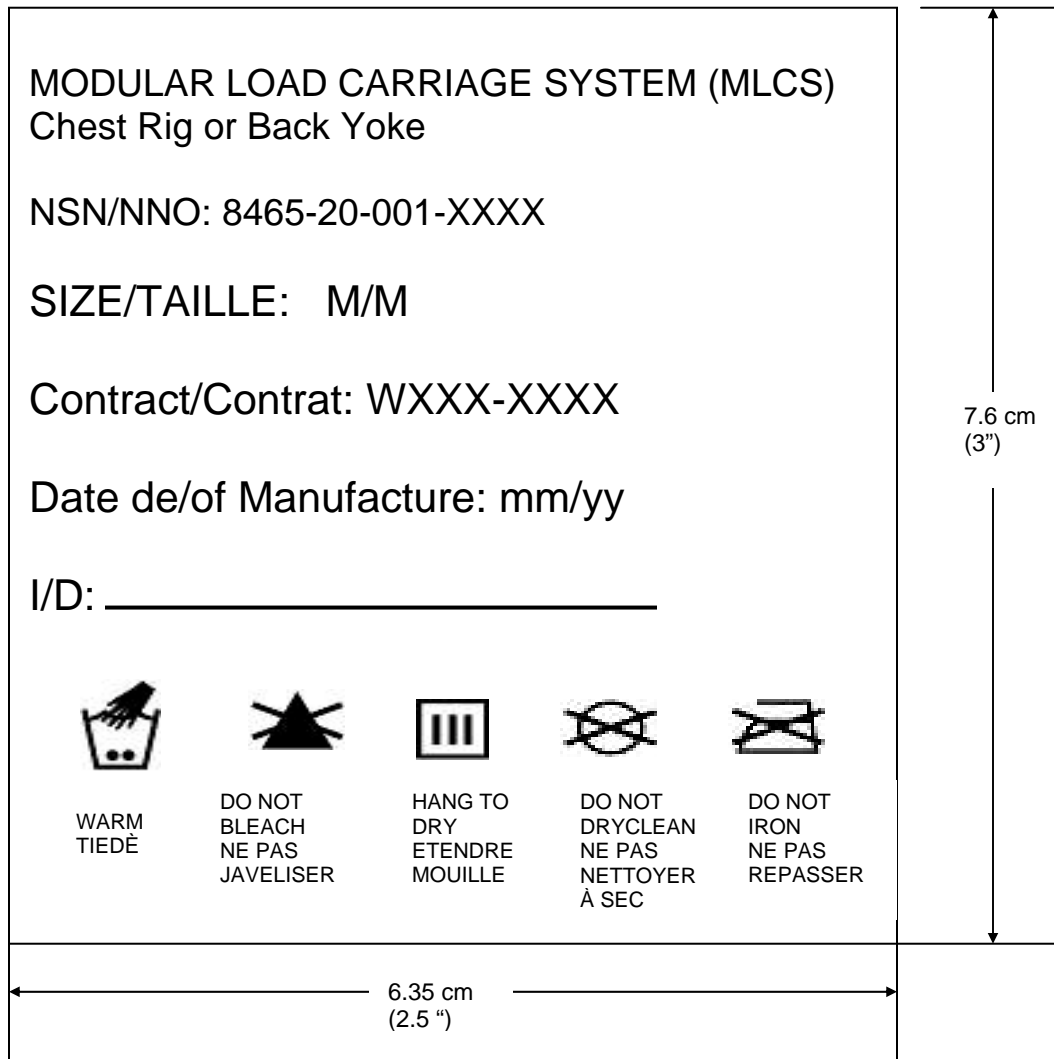
- a. Chest Rig; centered on the back lining, 3.8cm (1 ½”) down from the neck edge.
 - b. Back Yoke; centered on the back plate pouch, 5 cm (2”) down from the top edge.
- The label and marking must be in accordance with D-80-001-055/SF-100. Care symbols in accordance with CGSB/CAN-86-1-2003. See Diagram II for an example. The marking must give the following information in French and English, printed in characters not less than (3.2mm) 1/8-inch and not more than (6.4mm) ¼”-inch in height, with the exception of the “Size” which must be twice the size of the other characters.

The label markings must be legible and in indelible black ink with the following information:

- a. Contract number
- b. MLCS nomenclature
- c. NATO stock number (NSN) for each size and front chest rig and back yoke
- d. Size
- e. Month and year of manufacture and
- f. I/D (user identification)
- g. Care symbols

3.10 Packaging. Unless otherwise specified, packaging and marking as well as delivery shall be in accordance with Vol. 2, Annex CB, App 7, Att 5. and as per the term of the Contract.

Diagram II- Marking Label



ATTACHMENT 1 TO
APPENDIX 7 TO ANNEX CB TO VOLUME 2

MLCS PLATFORM DRAWINGS
FOR THE
ACQUISITION OF THE
INTEGRATED SOLDIER SYSTEM (ISS)

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HISTORY

Revision	Date	Description

Figure 1 MLCS Chest Rig Front View

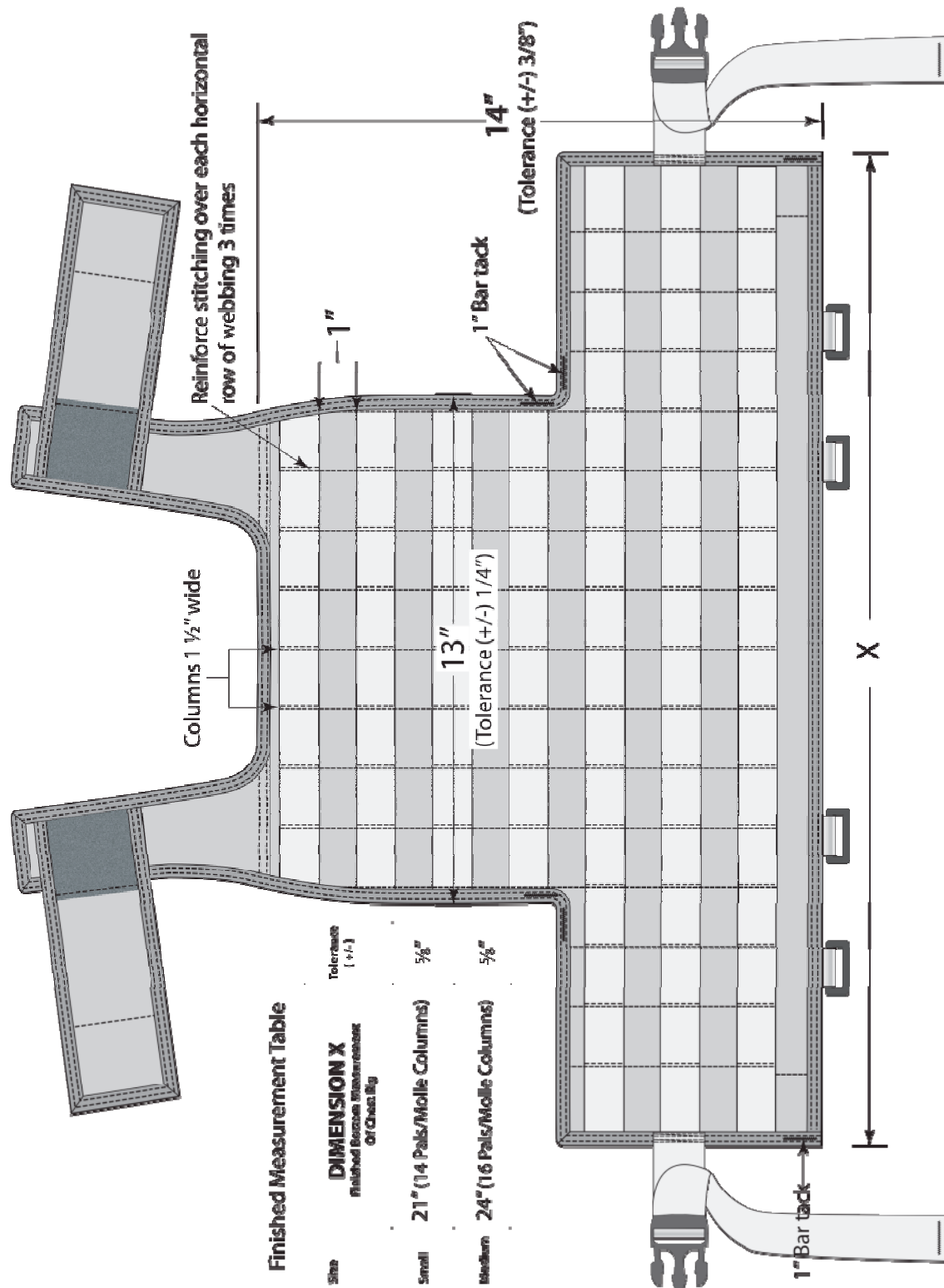


Figure 2 MLCS Chest Rig Back - Panel View

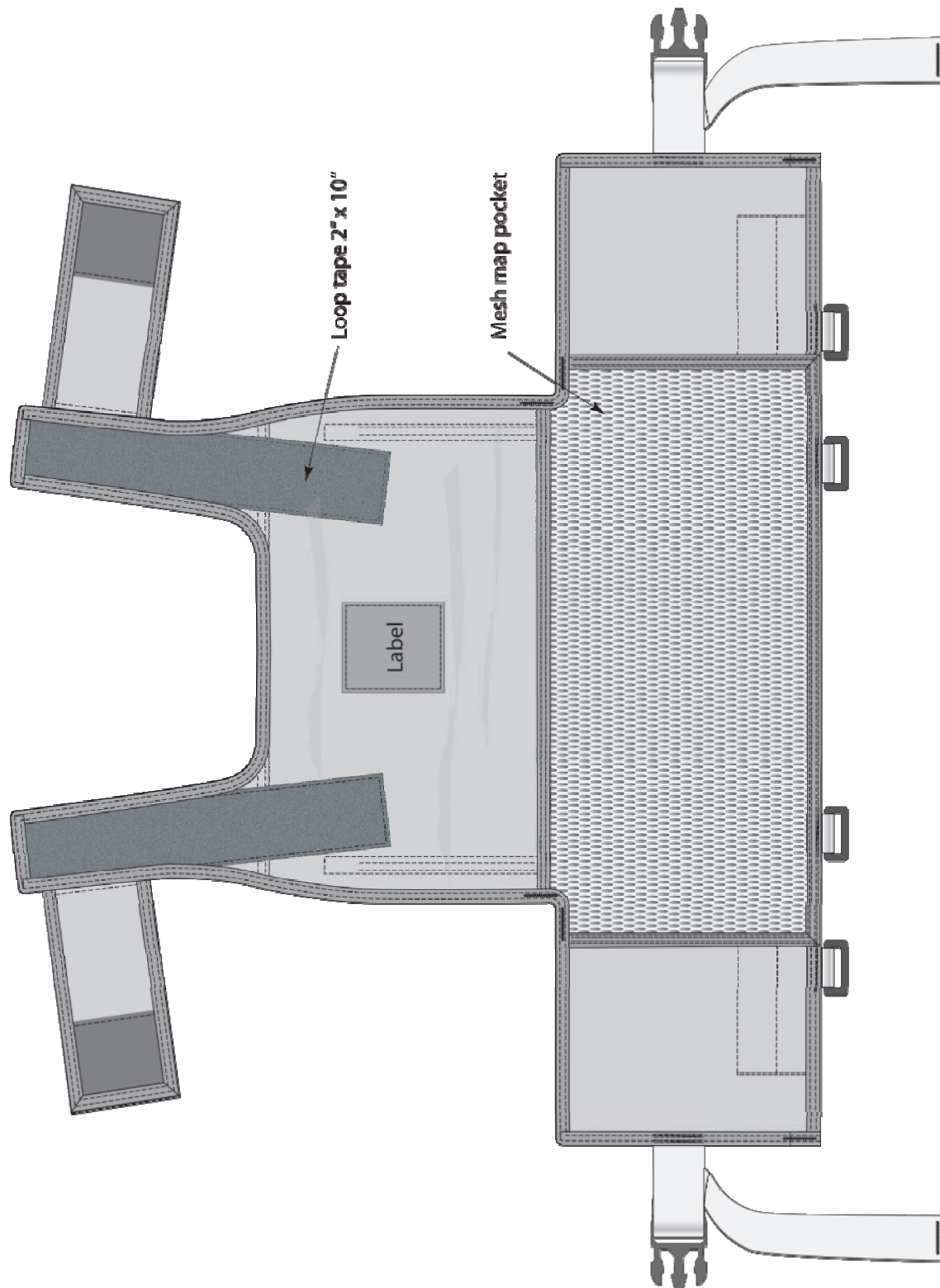


Figure 3 MLCS Chest Rig Front – Cut Away View

Showing Interior Construction

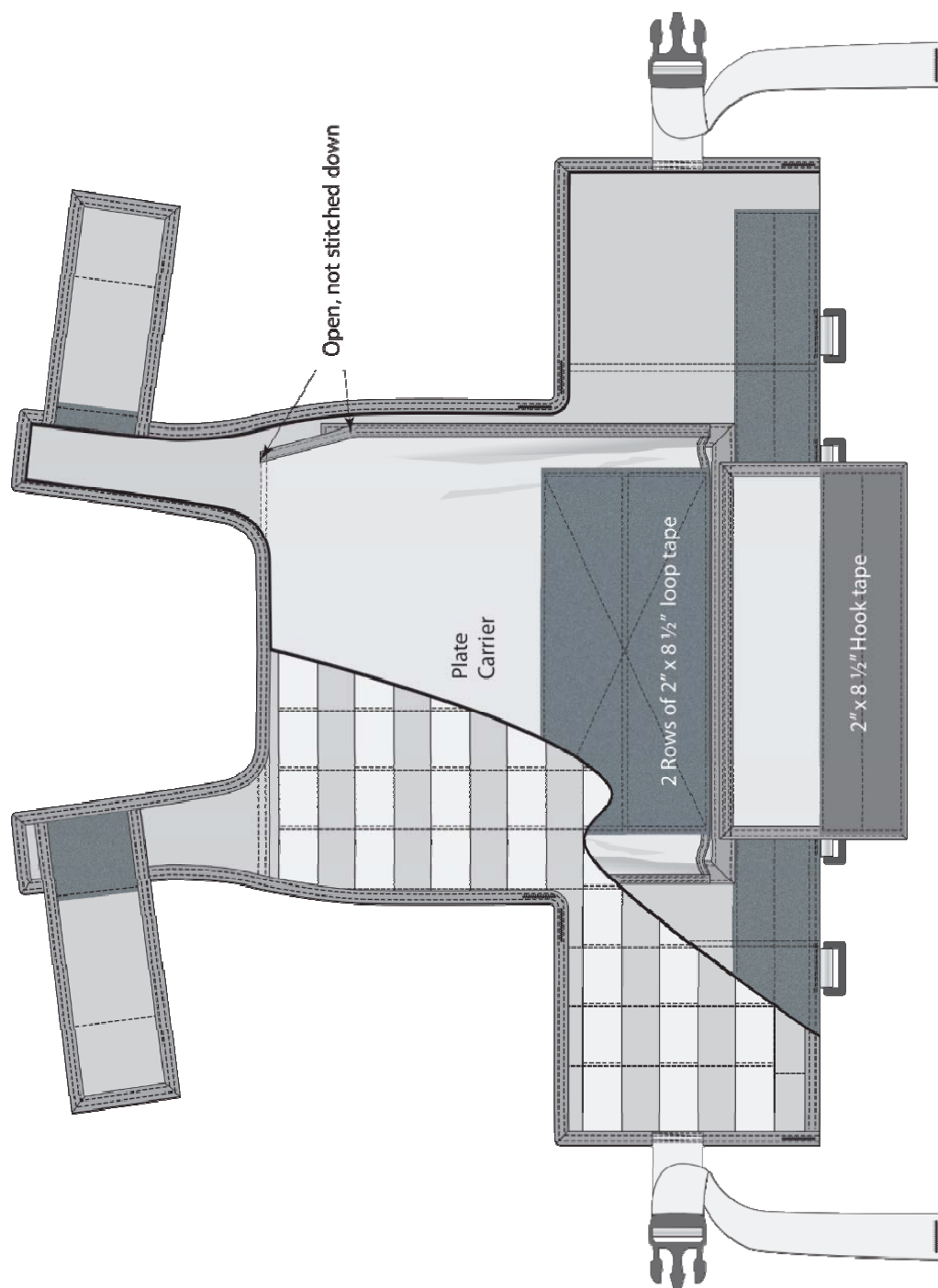


Figure 5 MLCS Back Yoke - Back View

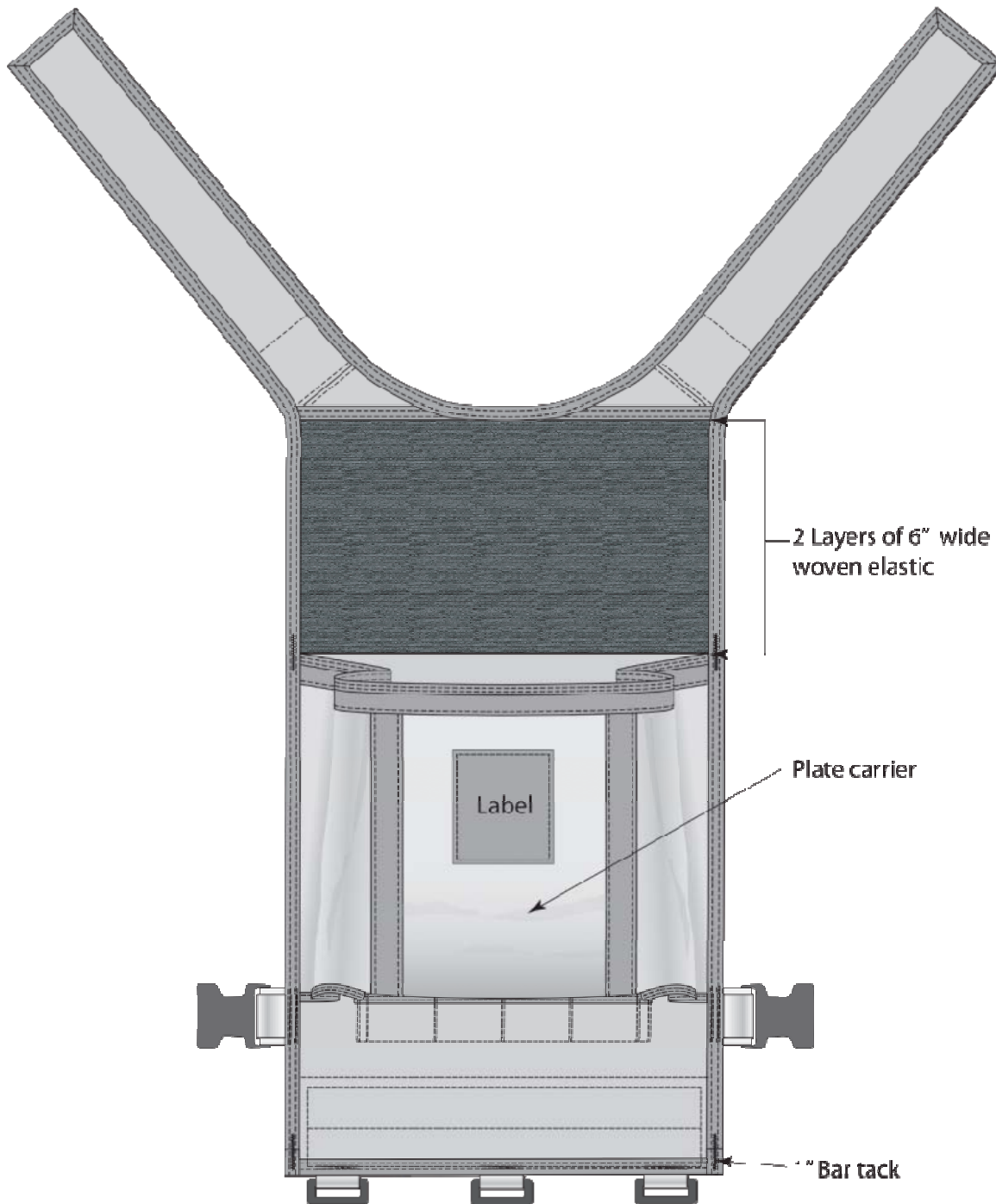


Figure 6 MLCS Chest Rig Front View Showing Shoulder Tab Detail

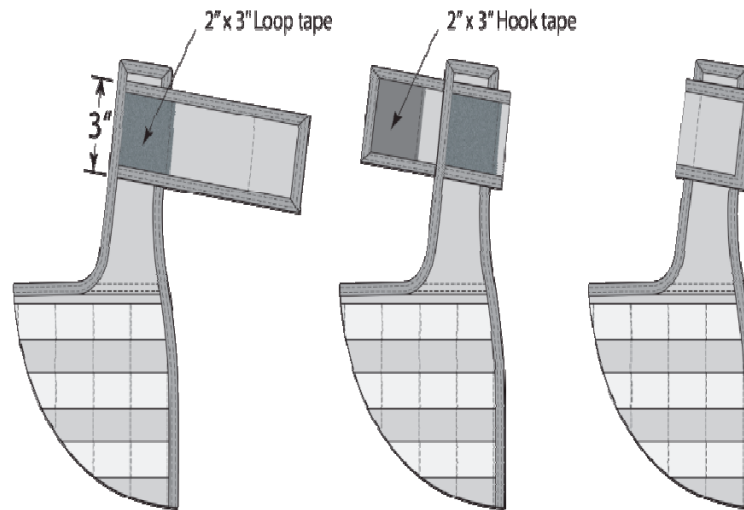
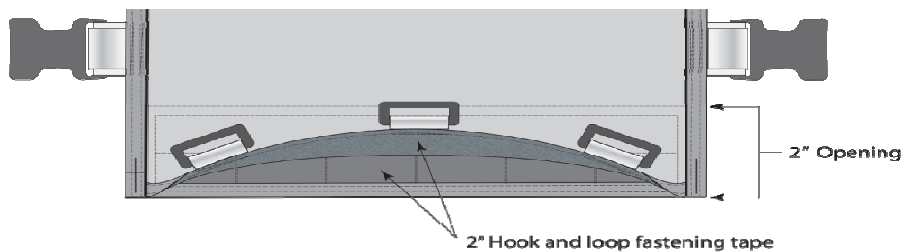


Figure 7 MLCS Back Yoke Back View Showing Bottom Opening



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ATTACHMENT 2 TO APPENDIX 7 TO ANNEX CB TO VOLUME 2

MLCS PLATFORM ASSEMBLY INSTRUCTIONS

FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)




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HISTORY

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MLCS Sewing Guidelines for components

	<p>Strap with Side Squeeze Buckle</p> <p>To prevent the buckle from sliding off the webbing straps the end of the webbing is finished with a tab. To form the tab, fold the end under 1 1/2" twice.</p> <p>To secure the tab, stitch across the end of the webbing 3X at 1/4" gauge, catching all 3 layers of the webbing. A minimum of 1" long bar tack can also be used.</p>
	<p>Bar Tack</p> <p>Stitch type 304, 28 stitches/25 mm (28 stitches/1")</p> <p>A 1" bar tack is used throughout the MLCS to secure the ends of binding tape, the top corners of the mesh map pocket, the corners of the back plate carrier pocket. The extraction handle is attached to the back with a 2" long bar tack.</p>
	<p>Sewing Hook and Loop Tape Fastener</p> <p>Topstitch tape fastener to material at 3 mm (1/8") gauge.</p>

Ends of webbing must be heat cut to prevent fraying

Stitching must be stitch type 301- lockstitch, 3-4 stitches /cm (8-10 stitches / inch)

Backstitch the ends of seams 3-4 stitches to secure the beginning and/or end of seams where no other method is used.

When stitching the columns over the horizontal webbing on the front and back panels, reinforce the stitching over each webbing with 3 rows of stitching.

Ends of binding tape must be turned under 1" and bar tacked in place.

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ASSEMBLY INSTRUCTIONS

1.0	Chest Rig- Prepare Front Shell Panel
1.1	With right sides together sew the shoulder pieces to the top panels at 9.5mm (3/8") seam allowance. Double topstitch the seam at 1.6 mm (1/16") gauge with topstitching 6mm (¼") apart.
1.2	A piece of 5 cm (2") hook fastening tape measuring 56 cm (22") for size Medium must be topstitched at 3mm (1/8") gauge to the wrong side or coated side aligned along the bottom edge of the panel.
2.0	PALS Webbing Grid
2.1	The right side of the shell material must include 7 sections of Mil Spec AA55301, 25mm (1") webbing placed across the front horizontally spaced 1" apart as per the paper patterns.
2.2	The webbing is stitched to the shell material at 3.8 cm (1 ½") intervals. The stitching must form columns on the front panel of the chest rig by starting the vertical lines of stitching at the shoulder strap seam that continues to the bottom of the last horizontal row of webbing at the bottom of the chest rig. Refer to Figure 1 in Vol. 2, Annex CB, App. 7, Att. 1, to the sealed patterns and to the paper patterns for reference.
2.3	Over each row of webbing, the webbing must be reinforced with 3 rows of stitching.
3.0	Prepare Shoulder Tabs
3.1	The shoulder tabs measure 7.6 x 20 cm (3" x 8") long and are sewn to neckline of the shoulder. Prepare the shoulder tab prior to sewing to neckline of shoulder piece by sewing on the hook and loop fastener first.
3.2	Place a piece of loop fastening tape measuring 5 x 7.6cm (2" x 3") long onto the tab end sewn to the neckline. Do not place the loop tape aligned with the edge of the tab but 9.5mm (3/8") from the end. Topstitch in place.
3.3	Place the hook fastening tape measuring 5 x 7.6cm (2" x 3") long onto the opposite end of the tab but on the underside or coated side of the material. Align the hook tape with the edge of the tab and topstitch in place.
3.4	Bind along 3 edges of the shoulder tab with a double needle topstitch, rows of stitching at 6 mm (¼") apart.
3.5	Place the finished tab with the right side facing up (loop tape side) tape onto the shoulder strap 12.7 mm (½") down from the shoulder strap end and aligned with the edge of the neckline. Stay stitch in place. This will be covered with binding tape later.
4.0	Back Lining Panel
4.1	Prepare Plate Carrier

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4.1.1	Prior to sewing the shoulder piece to the back lining panel, the plate carrier panel edges are bound with 19 mm ($\frac{3}{4}$ ") binding tape. Bind the sides and the bottom edges using a double needle topstitch. The top edge is left unbound.
4.1.2	On right side of plate carrier, place 2 pieces of loop fastening tape measuring 5 cm x 21.6 cm (2"x 8.5") pieces aligned next to each other to form a 10 cm (4") wide area of loop tape centered along the bottom bound edge of the of the plate carrier. Sew both pieces of loop tape individually. Topstitch across both sections of the loop tape diagonally forming an "X".
5.0	Prepare Back Panel
5.1	Topstitch the label onto the right side of back lining panel, centered on the panel 3.8 cm (1 $\frac{1}{2}$ ") down from the neckline.
5.2	Place the plate carrier coated side to the coated side of the back lining panel aligned at the neck edge. With right sides together, sew the shoulder pieces to the back panel at 9.5 mm ($\frac{3}{8}$ ") seam allowance.
5.3	Topstitch onto back panel shoulder area a 5 x 25cm (2" x 9.75") piece of loop fastening tape along the length of the shoulder and as indicated on the pattern. (Be careful not to catch the plate carrier in the stitching.)
5.4	Double topstitch the shoulder seam including the hook tape at 6 mm ($\frac{1}{4}$ ") gauge.
5.5	In order to sew the plate carrier to the back panel the position of this placement is marked with a 19 mm ($\frac{3}{4}$ ") binding tape. The binding tape is positioned onto back lining panel as indicated on the pattern which measures approximately 6.3cm (2 $\frac{1}{2}$ ") down from the top of the panel and 19mm ($\frac{3}{4}$ ") in from the sides. The binding tape is topstitched down forming a square shape, down along the sides 23.5cm (9 $\frac{3}{4}$ ") and 28 cm (11") along the bottom.
5.6	The bottom flap to the plate carrier is sewn onto the bottom section of the 19mm ($\frac{3}{4}$ ") binding tape.
5.7	Prior to sewing the flap on it is bound with 19 mm ($\frac{3}{4}$ ") binding tape, all edges, double needle at $\frac{3}{16}$ " gauge.
5.8	On the wrong side of the flap, a 5cm (2") piece of hook fastening tape measuring 22 cm (8.5") is aligned along one edge, and topstitched in place.
5.9	Place the opposite end of the flap, wrong side up and centered onto the bottom section of the 19mm ($\frac{3}{4}$ ") binding tape. Double topstitch in place at $\frac{3}{16}$ " gauge. Note: this may also be sewn on after the 2" loop tape is sewn to the bottom edge of the back panel.
5.10	Stitch down the sides of the plate carrier aligned it with the 19mm ($\frac{3}{4}$ ") binding tape on the back panel with a double topstitch at 5mm ($\frac{3}{16}$ ") gauge. Note: the stitching of the sides start at where the 19mm ($\frac{3}{4}$ ") binding on the back lining panel starts, approx. 6 cm (2 $\frac{1}{2}$ ") down from the top of the panel. This forms a top corner that is left open.
5.11	Bind along the bottom edge of the back lining panel with 25mm (1") binding tape.

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5.12	Four plastic 25mm (1") sewn to the bottom of the back panel along the binding tape and positioned as shown on the paper pattern. The loops are attached to the bottom with 25mm (1") webbing straps.
5.13	Each loop will require a 8 cm (3 ¼") section of Mil Spec AA55301, 25mm (1") webbing. Thread the webbing through the plastic loop and stitch to the wrong side of back lining panel aligned along the bottom so the edge of the loop with webbing extend past the bottom of the panel and the remainder of the webbing is facing upwards. Stitch in place with 2 rows of stitching.
5.14	Topstitch a piece of loop fastening tape measuring 5 x 56cm (2" x 22") along the bottom, of the wrong side of the back panel covering the webbing from the plastic loops.
5.15	Prepare the mesh map pocket prior to sewing to the back panel by binding all edges with 25mm (1") binding tape with a double needle topstitch at 6mm (¼") gauge.
5.16	Place the mesh pocket on the right side (uncoated side) of the back lining panel as indicated on the pattern and topstitch the pocket along the sides and bottom to the back panel.
6.0	Prepare Waist Straps
6.1	Thread a piece of Mil Spec AA55301, 38mm (1 ½") webbing measuring 56cm (22") long through a male 38mm (1 ½") side release adjustable buckle. Finish the end of the webbing that will not be sewn to the waist section of the rig, with a tab that is turned under twice at 3cm (1 ¼"). Secure the tab in place with a 1" bar tack. Refer to general sewing guidelines for instructions.
7.0	Assemble Chest Rig
7.1	Place the back lining panel onto the front with wrong sides together and stay stitch along the edges with the exception of the bottom. Bind along these edges with 25mm (1") binding tape. Double needle topstitch at 6mm (¼") gauge
7.2	Attach the waist straps to the sides of the chest rig by folding the end the webbing under 9.5mm (3/8") and sewing the sides aligning the folded edge of the webbing with the inner edge of the binding tape. Topstitch on with 2 rows of stitching reinforced 3 times. Placement is as indicated on the pattern and the sealed sample. The location along the side is as indicated on the pattern.
8.0	Back Yoke
8.1	Prepare Shoulder Straps- Shell
8.1.1	With right sides together, sew the shoulder straps to the front panel of the back yoke with 9.5mm (3/8") seam allowance.
8.1.2	Place a piece of 5 cm (2") hook fastening tape measuring 22 cm (8.5") along the shoulder strap aligned at the top edge of the strap and topstitch to fabric.
9.0	Prepare Shoulder Straps- Lining
9.1	With right sides together, sew the lining shoulder straps to the back lining panel of the back yoke with 9.5mm (3/8") seam allowance.
10.0	Back Lining Panel
10.1	Bind the bottom edge of the back lining panel with 1" binding tape with a double needle topstitch at ¼" gauge.

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10.2	Place 3 - 1" plastic rectangular loops with webbing straps along the bottom located as indicated on the paper patterns. The webbing straps are comprised of MIL spec AA55301, 1" webbing that measures 3" long threaded through the 1" plastic loop. The webbing strap is then placed along the bottom edge so that the edge of the loop with webbing extends past the bottom of the panel and the remainder of the webbing is facing upwards. Stitch in place with 2 rows of stitching.
10.3	Place a piece of 2" loop fastening tape measuring 8.5" along the bottom edge on the wrong side (coated side) of the fabric and topstitch in place covering the plastic loop webbing straps.
11.0	Prepare Shell Panel
11.1	Place a piece of 2" hook fastening tape measuring 8.5" along the bottom on the wrong side (coated side) of the fabric and topstitch in place. Bind the bottom edge of the back lining panel with 1" binding tape with a double needle topstitch at ¼" gauge.
12.0	Prepare the Extraction Handle
12.1	Prior to sewing the extraction handle to the shell, the handle section of the strap is prepared first. The handle is formed from a section of 2" MIL 17337 webbing measuring approx. 33" long.
12.2	The handle section of the strap is formed by folding the strap in half so that both ends are even. Create a handle at the folded end of the webbing by folding the webbing lengthwise. Stitch in place with two full box stitches for a total measurement of 3".
12.3	Open the ends of the handle section and place on shell panel as indicated on the pattern. The handle should be centered on the shell panel with the ends extending down towards the waist. The width of the handle measures 6 ¼". Refer to Figure 4 in Appendix 1. The base of the handle is bar tacked to the shell material with a 2" bar tack.
12.4	Topstitch the long ends of the handle to the shell material.
	Line up the shell panel to the lining panel, wrong sides together. Insert a strip of 1/8" EVA 50 foam that measures 2" x 8.5 into the shoulder strap area aligned with the top edge. Stitch along the bottom and the top of the hook tape through all layers of materials to hold in place. Stay stitch along the sides of the back yoke to keep the two layers from moving. Sew a single line of stitching along the top edge of where the hook and loop are underneath.
13.0	PALS Grid Webbing
13.1	The right side of the shell material must include 6 sections of Mil Spec AA55301, 25mm (1") webbing placed across the front horizontally as per the paper patterns and spaced 1" apart.
13.2	The webbing is stitched down every 1 ½" with a vertical row of stitching that starts at the top of the first row of webbing and continues to the bottom of the 6 th row of webbing. This will create 6 columns of 1 ½" of space between the rows of stitching. The rows of stitching must be straight and in line with each other. Stitch through shell and the lining. The stitching over the webbing must be reinforced 3 times. Refer to Figure 1 and 4 in Appendix 1 to the sealed patterns and to the paper patterns for reference.

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13.3	A single horizontal row of Mil Spec AA55301, 25mm (1") webbing is placed 25mm (1") up from the bottom edge of the panel. It is stitched down in 38mm (1 ½") intervals creating 6 columns in line with the columns on the rest of the webbing.
13.4	The space between the bottom row of webbing and the 6 th row of webbing will include the waist strap with a female buckle on each side, but will be sewn on after the shell and lining are assembled.
14.0	Prepare Plate Carrier
14.1	On the right side of plate carrier topstitch two strips of 25mm (1") binding tape as indicated on the paper patterns. Topstitch 25mm (1") binding tape to the top edge of the plate carrier. Bind this top edge with 25mm (1") binding tape using a double needle topstitch at ¼" gauge. Bind the bottom edge of the plate carrier with 25mm (1") binding tape with a double needle topstitch at 6mm (¼") gauge.
15.0	Prepare Elastic Panel
15.1	Line up two 2 pieces of 15cm wide x 25 cm long (6" wide x 10" long) woven elastic and bind the top edge with 25mm (1") binding tape, double needle topstitched at 6mm (¼") gauge.
15.2	Align the bound edge of the double elastic panel along the edge of the neckline and single needle stitch at 3mm (1/8") gauge through both layers of fabric. Single needle stitch the sides to the yoke side at 3mm (1/8") gauge.
16.0	Assemble Back Yoke
16.1	Align the top of the plate carrier to the bottom of the elastic panel and single needle stitch the sides of the plate carrier to the sides of the yoke back at 1/8" gauge. Stitch the bottom of the carrier to the panel through all layers of fabric.
16.2	Single needle stitch along the top edge of the hook and loop opening at the bottom of the yoke.
16.3	Bind the edges of the back yoke which includes the sides the shoulder straps and the neck with 25mm (1") binding tape double needle topstitched at 6mm (¼") gauge.
16.4	The waist strap with side buckles is sewn onto the front of the yoke in the space between the two bottom rows of horizontal webbing. The waist strap is constructed from 2 pieces of webbing, the base piece is MIL spec AA55301, 38mm (1 ½") webbing that measures 35.5cm (14") long. A piece of MIL-W-17337, 25mm (1") webbing is centered on top measuring 35.5cm (14") long.
16.5	Thread each end of the two layers of webbing through a 38mm (1 ½") female buckle. Edgestitch the 38mm (1 ½") webbing to the panel stopping 38mm (1 1/2") from the sides.
16.6	Center the 25mm (1") webbing on the base webbing and stitch vertically over the webbing at 38mm (1 ½") intervals making sure the columns of stitching line up with the other columns on the yoke.
16.7	Fold under the ends of the webbing and single needle 2 rows of stitching reinforced 3 times each the webbing to the yoke sides at the binding tape. The end of the buckle should be a 6mm (¼") from the edge of the binding tape.

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ATTACHMENT 3 TO
APPENDIX 7 TO ANNEX CB TO VOLUME 2

MLCS PLATFORM FOAM SPECIFICATIONS

FOR THE
ACQUISITION OF THE
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17 JANUARY 2013

HISTORY

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Performance Requirements for Type 1 Polymeric Foam

TABLE 1 - Unprocessed Single Ply Foam Stock (for lamination) trade name EVAZOTE EVA-50 by Zotefoams Inc.

PROPERTY	METHOD	Units	TYPICAL VALUES REQUIREMENT	MINIMUM	MAXIMUM
FOAM TYPE		%	Closed Cell	95%	100%
DENSITY	ISO 845	Kg/m ³	47	40	52
THICKNESS		mm	As required by the solicitation or to meet performance requirements	Industry standard	Industry standard
TENSILE STRENGTH	ASTM D412 Die A	kPa	700	600	900
ELONGATION	ASTM D3575	%	130	100	
TEAR RESISTANCE	ASTM D624 Die "C"	Lb/in		14	
Compression Set @ 50%, 24 Hr recovery	ASTM D3575	%			18
COMPRESSION DEFLECTION @ 25%	ISO 7214	Kpa		29	63
COMPRESSION DEFLECTION @ 50%	ISO 7214	Kpa		72	142
Operation Conditions		⁰ F ⁰ C		-95 -70	+150 +65

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ATTACHMENT 4 TO APPENDIX 7 TO ANNEX CB TO VOLUME 2

MLCS PLATFORM ELASTIC SPECIFICATIONS

FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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Test No.	Property	Test Method	Specified Requirements	Minimum Acceptable	Maximum Acceptable
1.	Width (mm)	ASTM D3774	150	148	152
2.	Mass (g/linear meter)	ASTM D3776	126	112	137
3	Extension/Elongation - as received (after 3 cycles) - after accelerated aging (after 3 cycles)	ASTM D4964 Report loop tension at elongation of: - 30% - 50% ASTM D573 Oven temperature: 300° F time exposure: 2 hrs - 30 % - 50%	39 N 52 N 10N 19 N	30 N 40 N 8N 16 N	50 N 60 N 15N 24 N
4	Permanent Set - as received - after accelerated aging	<u>See Note #1</u> for permanent set test method. Oven temperature - 300° F time exposure: 2 hrs	0.27 % stretch 6.6 % stretch		0.30 % 7.0 %

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Note #- 1 Permanent Set Test Method

Three test specimens each measuring 14 inches shall be cut and marked so that a distance of 10 inches (measurement A) is between the gage marks. The specimens shall then be stretched 50 percent, held at that elongation for 24 hours under standard conditions, and then released and allowed to rest for 10 minutes. The distance between the gage marks of the three specimens shall be remeasured, averaged and recorded as measurement b. The percent set shall be calculated as below and reported to the nearest 0.1 percent.

Percent permanent set = $(B-A) / A \times 100$

Where A = initial measurement and

B = measurement after permanent set.

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Volume 2, Annex CB Appendix 7 Attachment 5

:

ATTACHMENT 5 TO
APPENDIX 7 TO ANNEX CB VOLUME 2

CFTPO-ISS-MLCS PLATFORM

FOR THE
ACQUISITION OF THE
INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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HISTORY

Revision	Date	Description

1. The Integrated Soldier System (ISS) Modular Load Carriage System (MLCS) consists of the items listed below:																
<table border="1"><thead><tr><th>Item Description</th><th>NATO Stock Number</th><th>Unit of Issue</th></tr></thead><tbody><tr><td>a ISS MLCS, Small</td><td rowspan="5">NSN as specified on contract</td><td>AY</td></tr><tr><td>b ISS MLCS, Medium</td><td>AY</td></tr><tr><td>c ISS MLCS, Front, Small</td><td>EA</td></tr><tr><td>d ISS MLCS, Front, Medium</td><td>EA</td></tr><tr><td>e ISS MLCS, Back</td><td>EA</td></tr></tbody></table>	Item Description	NATO Stock Number	Unit of Issue	a ISS MLCS, Small	NSN as specified on contract	AY	b ISS MLCS, Medium	AY	c ISS MLCS, Front, Small	EA	d ISS MLCS, Front, Medium	EA	e ISS MLCS, Back	EA		
Item Description	NATO Stock Number	Unit of Issue														
a ISS MLCS, Small	NSN as specified on contract	AY														
b ISS MLCS, Medium		AY														
c ISS MLCS, Front, Small		EA														
d ISS MLCS, Front, Medium		EA														
e ISS MLCS, Back		EA														
2. Package item(s) in a polyethylene (or other transparent film) bag or envelope, made of material not less than one (1) mil thickness. The bags shall be taped or stapled to effect closure and shall be legibly marked (labelled) as follows:																
NATO Stock Number (NSN) * - As specified on contract																
Nomenclature (including size) ** - As specified on contract																
Quantity / Unit of Issue - As applicable (1 EA OR 1 AY)																
For initial distribution Items shall be <u>consolidated</u> into a single package based on size → Size small consists of items (c) & (e), size medium consists of items (d) & (e)																
For Depot stock Items (c-e) shall be <u>individually packaged</u>																
3. A quantity of packages, of the same NSN, shall be packed into a corrugated fibreboard box conforming to Canadian General Standards Board (CGSB) specification CAN/CGSB-43.22-2001. The box size and content quantity shall be uniform for the duration of the contract. Suggestion as follows:																
No material handling equipment required – Overall inside dimensions (length, width and depth added) shall not exceed 1.5 metres (59 inches). The maximum weight of the box and contents shall not exceed 18 kilograms (40 pounds).																
Material handling equipment required – The box(es) shall be compatible with the requirements of paragraph 8.																
4. Closure of the corrugated fibreboard box shall be in accordance with CGSB specification CAN/CGSB-43.22-2001 (Appendix B).																
5. On one end of each corrugated fibreboard box, stencilling or labelling, in figures as large as practicable in relation to the space available, shall legibly mark the following information:																
NATO Stock Number (NSN) * - As specified on contract																
Nomenclature (including size) ** - As specified on contract																
Quantity (per box) / Unit of Issue - As applicable (1 EA OR 1 AY)																
Gross Weight (nearest kg) - As applicable																
Contract Serial Number - As specified on contract																
6. On one side of each corrugated fibreboard box, stencilling or labelling, in figures as large as practicable in relation to the space available, shall legibly mark the following information:																
Consignee - As specified on contract																
Consignor - Supplier's name or symbol																
Case ___ of ___ cases - As applicable within each shipment																
7. The last shipping container of each shipment shall have affixed to the side on which the shipping instructions are contained (paragraph 6), an envelope containing the Packing List, Release Note, etc. This water-resistant envelope shall be prominently marked "Packing List Enclosed" and shall be securely affixed to the outside wall of the container.																
8. Shipments shall be palletized in uniform loads (grouped by NSN) and strapped/secured on standard 4-way entry, 48-inch by 40-inch wood or fibreboard non-returnable pallets, to be supplied by the contractor. Total height, including pallet, shall not exceed 47 inches.																
* Marking shall be applied using Bar Code Symbolology GS1-128 with AI 7001, including HRI (in accordance with D-LM-008-002/8F-001)																
** Bilingual format – English / French																

Canadian Forces Transportation Packaging Order		Date	16 May 2011	Sheet	1 of 2
CFTPO-ISS-MLCS		Nomenclature	As specified on contract		
		Based on	As specified on contract		
Drawn by	H. Fraser	Checked by	H. Fraser	Design Engineer	DSCO 5-4-3
Approval Stamp					

CF 798

1. La Veste de Transport de Charge Modulaire Tactique (VTCMT), du Système Intégré de Soldat (SIS), se compose des articles énumérés ci-dessous :		
	Description de l'article	NNO
a	SIS VTCMT, Petit	Unité de mesure
b	SIS VTCMT, Moyen	AY
c	SIS VTCMT, Avant, Petit	Numéro de nomenclature OTAN
d	SIS VTCMT, Avant, Moyen	- selon le contrat
e	SIS VTCMT, Arrière	EA
2. Emballer le(s) article(s) dans un sac ou une enveloppe en polyéthylène (ou une autre pellicule transparente), dont l'épaisseur est d'au moins un (1) mil. Les sacs doivent être scellés à l'aide d'un ruban adhésif ou d'agrafes, et l'information suivante (inscrite sur une étiquette) doit figurer lisiblement sur chacun :		
Numéro de nomenclature OTAN (NNO)* - Selon le contrat		
Nomenclature (comprenant la taille) ** - Selon le contrat		
Quantité (par conteneur) / Unité de mesure - Selon le cas (1 EA ou 1 AY)		
La distribution initiale Les articles doivent être regroupés dans un seul paquet - basé sur la taille → la taille petite est composée des articles (c) & (e), la taille moyenne est composée des articles (d) & (e)		
Le stockage à l'entrepôt Les articles (c-e) doivent être emballés individuellement		
3. Une quantité de paquets, de la même NNO, doivent être placés dans un conteneur en carton dur ondulé, conformément à la norme CAN/CSG-43.22-2001 de l'Office des normes générales du Canada (ONGC). La taille du conteneur et la quantité contenue doivent demeurer la même pour la durée du contrat. Voici des suggestions :		
Aucun équipement de manutention nécessaire - Les dimensions générales intérieures (somme de la longueur, de la largeur et de la hauteur) ne doivent pas dépasser 1,5 m (59 po). Le poids maximal du conteneur, avec son contenu, ne doit pas dépasser 18 kg (40 lb).		
Équipement de manutention nécessaire - Les conteneurs doivent être compatibles aux exigences du paragraphe 8.		
4. La fermeture du conteneur en carton dur ondulé doit être conforme à la norme CAN/CSG-43.22-2001 (appendice B) de l'ONGC.		
5. Sur une extrémité de chaque conteneur en carton dur ondulé, l'information suivante doit figurer lisiblement en caractères aussi grands que permis par l'espace disponible (inscrite à l'aide d'un pochoir ou sur une étiquette) :		
Numéro de nomenclature OTAN (NNO)* - Selon le contrat		
Nomenclature (comprenant la taille) ** - Selon le contrat		
Quantité (par conteneur) / Unité de mesure - Selon le cas (1 EA ou 1 AY)		
Poids brut (arrondir au kg) - Selon le cas		
Numéro de série du contrat - Selon le contrat		
6. Sur un côté de chaque conteneur en carton dur ondulé, l'information suivante doit figurer lisiblement en caractères aussi grands que permis par l'espace disponible (inscrite à l'aide d'un pochoir ou sur une étiquette) :		
Destinataire - Selon le contrat		
Expéditeur - Nom ou marque du fournisseur		
Conteneur __ de __ - Selon chaque cargaison		
7. Le dernier conteneur d'expédition de chaque cargaison, doit porter sur le côté où l'on retrouve les instructions d'envoi (paragraphe 8), une enveloppe contenant le bordereau d'expédition, le bordereau de libération, etc. Cette enveloppe, résistante à l'eau, doit porter clairement les mots «bordereau d'expédition ci-inclus» et doit être bien fixée à la paroi extérieure du conteneur.		
8. L'entrepreneur doit fournir des palettes standard de type perdu, en bois ou en carton dur ondulé, accessibles des quatre côtés et mesurant 48 po sur 40 po. Les conteneurs doivent y être disposés uniformément (groupés par NNO) et solidement arrimés. La hauteur totale, y compris la palette, ne doit pas dépasser 47 po.		
* Les marques doivent être apposées au moyen de la symbologie code à barres GS1-128, avec le numéro d'identification d'application IA 7001, y compris la traduction en clair TC (conformément à la D-UM-008-002/SF-001)		
** Format bilingue - Anglais / Français		

Commande d'Emballage pour la Transport - Forces canadiennes

CETFC-ISS-MLCS

Destination
H. Fraser
Vancouver

Ingénieur études
H. Fraser
DOCA 5-4-3

Scalé d'approbation

Date
16 Mai 2011

Page
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Nomenclature
Selon le contrat

Basé sur
Selon le contrat

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APPENDIX 8 TO ANNEX CB TO VOLUME 2

ISS GENERIC POUCHES TDP MANUFACTURING DATA

FOR THE
ACQUISITION OF THE
INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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1. SCOPE

1.1 Scope. This manufacturing data covers the materials and construction in order to be able to manufacture a Pouch Attachment Ladder System (PALS) compatible pouch for ISSP electronic devices.

2 APPLICABLE DOCUMENTS

2.1 Government documents. The following documents form part of the Manufacturing Data to the extent specified herein.

2.1.1 SPECIFICATIONS AND STANDARDS

D-80-001-055/SF-001	Label, Clothing and Equipment
D-LM-008-036/SF -000	DND Minimum Requirements for Manufacture's Standard Pack
D-LM-008-002/SF-001	Specifications for Marking for Storage and Shipment
DSSPM 2-2-80-211	Specification for Cloth Coated Nylon/ Polyurethane, 425 g/m ² *Available on request
D-80-001-091/SF-001	Cloth, Plain Weave, Nylon, 195 g/m ² and 230 g/m ² *Available on request
D-80-001-500/SF-001	Specification for CADPAT™ TW [Canadian Disruptive Pattern, (Temperate Woodland)] * Available on request

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Canada

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2.2 Drawings.

CS -108	Eyelet
CS- 110	Spur washer

2.3 Other Publications.

Canadian General Standards Board (CGSB)
11 Laurier Street
Place du Portage, Phase III
Gatineau, Québec, K1A 1G6
Tel : (819) 956-0425
Email : ncr.cgsb-pmgc@pwgsc.gc.ca

CAN/CGSB -4.2	Textile Test Methods
CAN/CGSB-54.1M	Stitches and Seams, Part I and II
CAN/CGSB- 4GP-85-Ma	100 % Nylon (type 6.6) Bonded Thread
MIL-PRF- 5038J	Tape, Textile and Webbing, Textile, Reinforcing, Nylon
MIL commercial specification	AA- 55126B Fastener Tapes, Hook and Loop, Synthetic
MIL commercial specification	AA- 55301 Webbing, Textile, Textured or Multifilament Nylon

2.4 Sealed Patterns

DSSPM 259-01	Cloth, Twist, Cotton/Nylon, Lightweight, CADPAT™ (TW) (Disruptive Pattern Temperate) for pattern, motif size, colour distribution, clarity and colour guidance
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DSSPM 281-01

Cloth, Twist, Cotton/Nylon, 170 g/m²,
Canadian Average Green (For Colour
and IRR Properties)

3.0 REQUIREMENTS

3.1 Materials

3.1.1 Shell Fabric. The material for the pouch must be textured high tenacity nylon, polyurethane coated, 425 g/m² cloth in accordance with specification DSSPM 2-2-80-211, Type I. The colour must be CADPAT Temperate Woodland (TW) in accordance with D-80-001-500/SF-001. IR reflectance is required.

3.1.2 Lining Fabric. The shell material of the pouch must be lined with a 100 % nylon, plain weave, polyurethane coated, 230 g/m², Type II, material in accordance with specification D-80-001-091/SF-001. The colour must be Canadian Average Green (CAG) in accordance with specification D-80-001-500/SF-001 for CADPAT TW pouches. IR Reflectance is not required.

3.1.3 Hook and Loop Fastening Tape. The hook and loop fastening tape, where applicable, must be in accordance with commercial MIL spec A-A-55126B, Type II, Class I. The colour must be CAG in accordance with specification D-80-001-500/SF-001 for CADPAT TW pouches.

3.1.4 Grommet. The base of the pouch must have a grommet for drainage. The grommet must be made of brass, size #00 rolled rim eyelet and spur washer in accordance with drawings CS-108 and CS- 110. The grommet must have a dull black chemical finish in accordance with MIL-F-495.

3.1.5 Side Release Buckle Assembly– 25mm (1”). If a pouch lid is provided, the pouch lid must have a 1” side release adjustable buckle assembly consisting of a male and female buckle. The buckle assembly must be made of polyacetal (POM). The colour of the buckle must be CAG in accordance with sealed pattern DSSPM 281-01 and to specification D-80-001-500/SF-001 for CADPAT TW pouches. P/N LB25WG from YKK is known to meet this requirement. IR reflectance is required.

3.1.6 Webbing-25mm (1”). The pouch must include webbing to attach the side release buckle to the pouch and for the PALS attachment straps. The webbing must be 1” wide and conform to MIL commercial specification A-A-55301 formerly MIL-W-43668, Type III. The colour of the webbing must be CAG in accordance with specification D-80-001-500/SF-001 for CADPAT TW pouches. IR reflectance is required.

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3.1.7 Nylon Binding Tape- 19 mm ($\frac{3}{4}$ ”). All exposed raw edges must be finished with 19mm ($\frac{3}{4}$ ”) nylon binding tape in accordance with MIL-PRF-5038J, Type III. The colour must be CAG in accordance with specification D-80-001-500/SF-001 for CADPAT TW pouches. IR reflectance is required.

3.1.8 High Density Polyethylene (HDPE). A narrow strip of HDPE (plastic sheeting) must be used in the fabrication of the PALS attachment straps. The thickness of the HDPE must be .015 “ and must meet the specification at Vol.2, Annex CB, App. 8., Att., 2 and must be in the colour black. For the dimensions of the strip required for the attachment straps refer to Table I- Strap Lengths.

3.1.9 Thread. The thread used for the construction of the pouch must be 100% bonded nylon, lubricated, 3-ply, 720 Denier or 70 tex conforming to CGSB Specification 4GP-85-Ma. The colour of the thread must be a good visual match to CAG for CADPAT TW pouches.

3.1.10 Label. A marking label must be made in accordance with D-80-01-055/SF-001 and positioned as indicated in para 3.5. The colour of the label must be a good visual match to CAG in accordance with sealed pattern DSSPM 281-01.

3.2 Cutting.

3.2. 1 The shell and the lining fabrics must be cut in the direction of the warp.

3.2. 2 The methodology used to mark the placement of materials such as webbing on the fabric is left to the contractor's discretion. However no process where the marking damages the shell fabric is permitted.

3.2.3 The specified materials must be cut and used in accordance with best commercial standards and practices.

3.3 Sewing

3.3.1 All seams and stitches must be in accordance with CAN/CGSB-54.1-M

3.3.2 All stitch must be stitch Type 301 lockstitch 3-4 stitches/ cm (8-10 stitches/inch).

3.3.3 The ends of all lock stitched seams and stitching and breaks in thread must be securely backstitched

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3.3.4 The stitches must present a regular even appearance without fabric pucker and must be free from skips that may result from faulty machine thread tension or other stitching malfunctions.

3.3.5 All double needle topstitching when specified must be lock or lock-chain stitched with the needles set 5 mm (3/16") apart and not less than 1.6 mm (1/16") from the edge.

3.3.6 Seam allowance is 9.5 mm (3/8") unless otherwise noted.

3.3.7 When stitching the front to the back panel, reinforce the top corners with a backstitch 2-3 times, 6-8 stitches in length. A 12.5 mm (1/2") long bar tack may also be used to reinforce the top corners.

3.3.8 All thermoplastic materials such as webbing, binding and cord must be heat cut or fused to prevent fraying.

3.4 Construction

3.4.1 Assembly instructions are provided in Attachment 1.

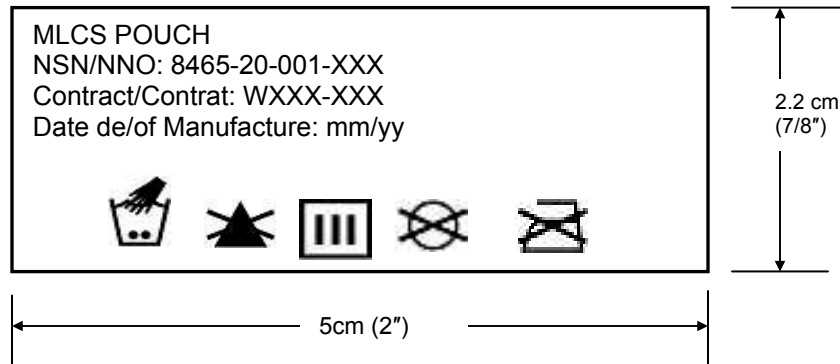
3.5 Marking Label. The MLCS Generic Pouch must include a label. The size of the label must measure 2" x 7/8" wide and must be topstitched onto the topside of one of the PALS attachment straps located on the back of the pouch. The label and marking must be in accordance with D-80-001-055/SF-100. Care symbols must be in accordance with CGSB/CAN -86-1-2003. See below for an example.

The marking must give the following information in French and English and must be in indelible black ink:

- a. contract number
- b. MLCS pouch nomenclature
- c. NATO Stock number
- e. Month and year of manufacture and
- f. Care symbols

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3.6 Packaging. Unless otherwise specified, packaging and marking as well as delivery shall be in accordance with Vol. 2, Annex CB, App 8, Att 3 and as per the terms of the Contract.



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ATTACHMENT 1 TO APPENDIX 8 TO ANNEX CB TO VOLUME 2

ISS GENERIC POUCHES ASSEMBLY INSTRUCTIONS

FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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HISTORY

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ASSEMBLY INSTRUCTIONS-MLCS GENERIC POUCH

1.0	Pouch Shell Construction
1.1	The outer shell of the pouch must be constructed with a 1000 denier air jet textured, high tenacity nylon 6.6 fabric that is lined with a 100 % nylon, plain weave Kiss coated material.
1.2	The base of the pouch must include a grommet for drainage that is centred on the bottom of the pouch through both layers of fabric.
1.3	If a pouch lid is provided, the lid must include 2 layers of shell fabric for stability in the center section of the lid.
2.0	Pouch Front and Lid
2.1	If a pouch lid is provided, the pouch lid must secure to the front of the pouch with an adjustable 25 mm (1") side release buckle.
2.2	If a pouch lid is provided, the female SR buckle must be attached to the lid front with a 2.5 x 10 cm (1" x 4") section of MIL spec A-A-55301 nylon webbing. The webbing is threaded through the buckle and formed into a strap that is positioned on the centre front of the lid, 2.5 cm (1") from the edge of the lid.
2.3	If a pouch lid is provided, the strap with buckle must be full box stitched (FBS) to the lid after through all layers of fabric and after the edge of the lid is bound with binding tape.
2.4	If a pouch lid is provided, the corresponding SR male buckle must be attached to the pouch front with 25 mm (1") MIL spec A-A-55301 nylon webbing strap. The webbing is threaded through the buckle and sewn to the pouch centered on the front and positioned along the bottom edge. Refer to Table III- Webbing Construction
2.5	If a pouch lid is provided, the end of the webbing strap not attached to the pouch is formed into a tab that is folded under twice 16 mm (5/8") and stitched in place with 3 rows of stitching at 3.0mm (1/8") from the edge or with a bar tack along the full width of the tab. Refer to Table II- General Sewing Instructions.
2.6	If a pouch lid is provided, the end of the webbing attached to the pouch must be turned under 25mm (1") and sewn with a FBS in place. Refer to Table II and III - General Sewing Instructions

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2.7	If a pouch lid is provided, the pouch must include a piece of hook and loop fastening tape that must effectively secure the lid to the pouch. For a square shaped pouch that is 10cm (4") wide in the front, must require a piece of loop tape that measures 5 x 7.6 cm (2" wide x 3" long)
2.8	If a pouch lid is provided, the loop fastening tape must be centered on the front top edge of the pouch with the long edge aligned with the binding tape. The loop tape must be topstitched onto the front through both layers of fabric at 3.0 mm (1/8") gauge.
2.9	If a pouch lid is provided, the hook fastening tape (5 x 7.6 cm) 2" x 3", must be centered on the inside of the lid on the lining, aligned along the edge of the binding tape and topstitched in place through both layers of fabric at 3.0 mm (1/8") gauge
3.0	PALS Attachment Straps
3.1	The straps to attach the pouch to a PALS platform must be situated on the back of the pouch. The straps must be constructed of 25 mm (1") MIL commercial specification A-A-55301 formerly MIL-W-43668, Type III nylon webbing. The length of the strap is dependant on the length of the pouch but generally there are 3 finished lengths of strap. The construction of the strap is made from one length of webbing that is folded over onto itself with 3.2 cm (1 ¼") of webbing left extended past the strap in order to attach to the pouch. A strip of .015" HDPE plastic is sandwiched in between the two layers of webbing.
3.2	With the strip of plastic (HDPE), in between the webbing, topstitch along the edges at 3.0 mm (1/8") gauge including the top and bottom folded edges
3.3	The bottom of the strap must be wrapped in a 25 mm x 6.35 cm (1" x 2 1/2") section of loop fastening tape that secures to an adjacent 25 mm x 6.35 cm (1" x 2 1/2") section of hook fastening tape on the back of the pouch. Refer to Table 1 for webbing lengths. Refer to Figure I and II for construction details.
3.4	The completed unit must be sewn to the back of the pouch lined up at the top edge of the 25 mm (1") PALS webbing with a full box stitch. The edge of the 3.2 cm (1 ¼") extended section of the strap is lined up with the top of the first row of PALS webbing as shown in Figure IV of this Assembly Instruction.
4.0	Pouch Back- PALS Webbing
4.1	The back of the pouch must include horizontal rows of 25mm (1") MIL spec A-A-55301 nylon webbing to facilitate the attachment of the pouch to a PALS platform. The number of rows of webbing on the back of the pouch is dependant on the length of the PALS attachment straps. For a small pouch where straps that are 9 cm (3 ½") in length, one row is required. For medium sized pouches with straps 14 cm (5 ½") in length-

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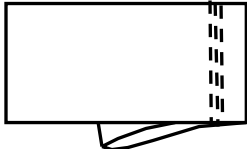

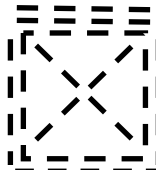

	2 rows are required. For larger pouches with straps 19 cm (7 ½”) in length, 3 rows are required.
4.2	The rows of webbing extend across the width of the back and are spaced 25mm (1”) apart. The ends of the webbing are stitched to the sides of the pouch back and caught in the binding tape and covered with the binding tape.
4.3	The first row is placed approximately 25mm (1”) down from the top edge of the pack section of the pouch. For pouch widths of 4” and over, there must be a vertical row (s) of stitching over the webbing to create columns that are no more than 2” wide. For e.g. a pouch back that measures 4” wide would require one row of stitching down the centre, creating 2 columns that are 5cm (2”) wide. Refer to Figure IV for details.
4.4	The back must include two PALS attachment straps and must be sewn to the pouch back as indicated in para 3.4 and Figure III.
4.5	A 25 mm (1”) plastic loop made of acetal must be attached to the pouch back with a 1” nylon MIL spec A-A-55301 nylon webbing strap. The strap must be 2.5 x 7.5 cm (1” x 3”) and threaded through the loop and folded in half. The loop with strap must be sewn to the back pouch aligned with the attachment straps and sewing place with a FBS through both layers of fabric. Refer to Table II- General Sewing Instructions for details.
5.0	Final Assembly
5.1	The edges of the pouch must be bound with 19 mm (¾”) MIL-PRF-5038 nylon binding tape. The binding tape must be double needle topstitched with the needles set 5mm (3/16”) apart.
5.2	The bottom corners of the pouch and the front and back are double topstitched together following the stitching lines of the applied binding tape. The top corners of the pouch where the front meets the back panel must be securely backstitched 2 times 6-8 stitches in length or with a 13 mm (½”) long bar tack
5.3	The binding tape must be neatly applied with ends of the binding tape concealed in top corner seams where the front is joined to the back.

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TABLE I- PALS Attachment Strap

Pouch Sizes	Length of 1"webbing Required	Dimension of HDPE, Plastic Strip	Finished length of strap	Finished length of webbing including extension
Small Pouch	23.5 cm (9 1/4")	7/8" x 3 1/2"	8.9 cm (3 1/2")	12.0 cm (4 3/4")
Medium Pouch	33.7 cm (13 1/4")	7/8" x 5 1/2"	14.0 cm (5 1/2")	17.0 cm (6 3/4")
Large Pouch	43.8 cm (17 1/4 ")	7/8" x 7 1/2"	19.0 cm (7 1/2")	22.2 cm (8 3/4")

TABLE II - General Sewing Instructions

	<p>Strap with Side Squeeze Buckle</p> <p>To prevent the buckle from sliding off the webbing strap, the end of the webbing is finished with a tab. To form the tab, fold the end under 1 1/2" twice. To secure the tab, stitch across the end of the webbing 3 X at 1/4" gauge, catching all 3 layers of the webbing. A minimum of 1" lng bar tack can also be used.</p>
	<p>Bar Tack</p> <p>Stitch type 304, 28 stitches/25 mm (28 stitches/1") A bar tack may also be used to secure end of tab</p>
	<p>Full Box Stitch (FBS)</p> <p>Full box stitch is used to sew the side squeeze buckle straps to the pouch lid and body. Sew the FBS three times across stressed end, twice down both sides, full cross and twice on opposite end.</p>
	<p>Sewing Hook and Loop Tape Fastener</p> <p>Topstitch tape fastener to shell material at 3 mm (1/8") gauge.</p>

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TABLE III - Webbing Construction

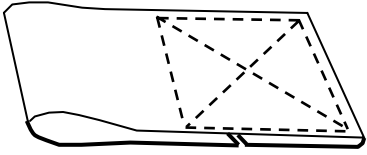
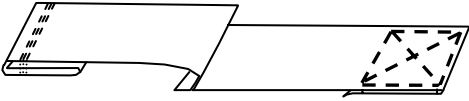
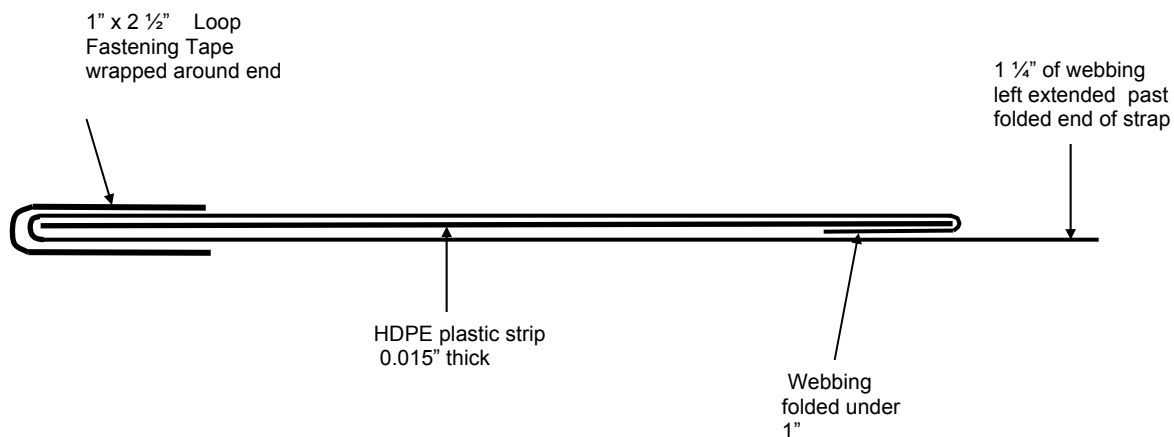
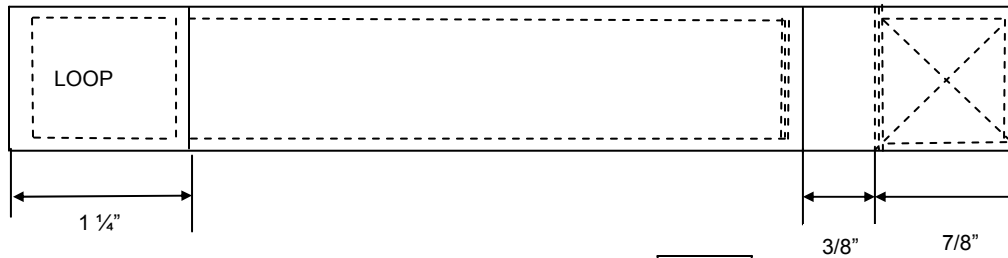
	<p>Female SR buckle strap construction</p> <p>1" x 4" section of MIL-W-43668 nylon webbing is threaded through female SR buckle. Both ends of webbing are folded under as shown in illustration and unit is FBS to pouch.</p>
	<p>Male SR Buckle strap construction</p> <p>1" x 7 1/2" section of MIL-W-43668 nylon webbing is threaded through male SR buckle. Buckle end of webbing has the tab that is turned under twice at 1/2" and can be either stitched 3X or bar tacked at 1/8" gauge as shown in illustration. Other end of webbing is folded under 1" and sewn to pouch with an FBS.</p>

FIGURE I
PALS Webbing Attachment Strap- Cross Section



**FIGURE II- PALS Webbing
Attachment Strap- Face View**



**FIGURE III -
Back Pouch View**

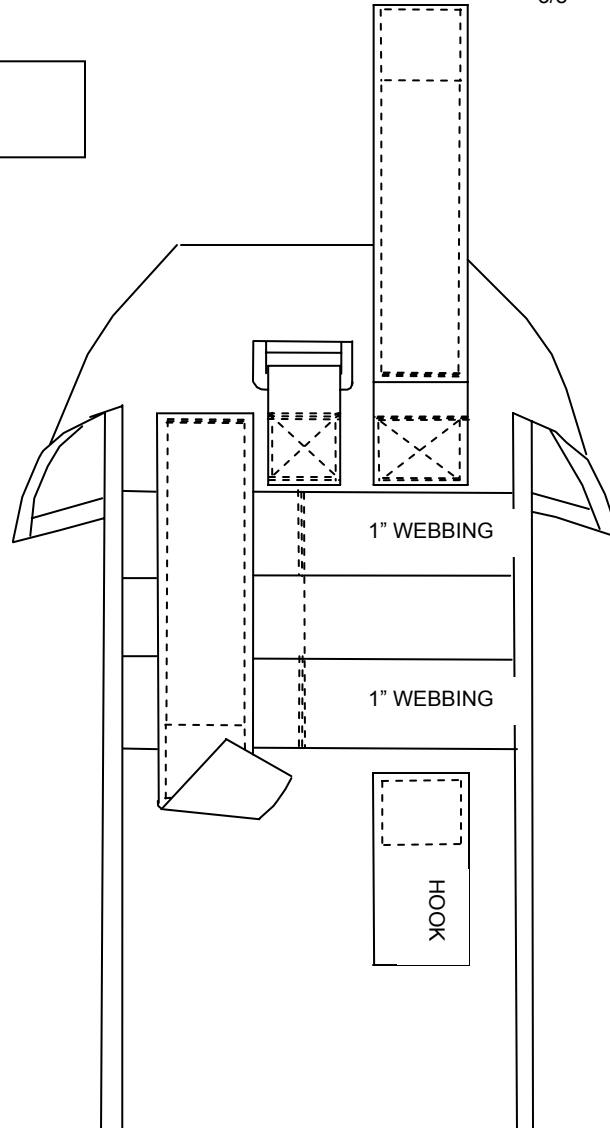
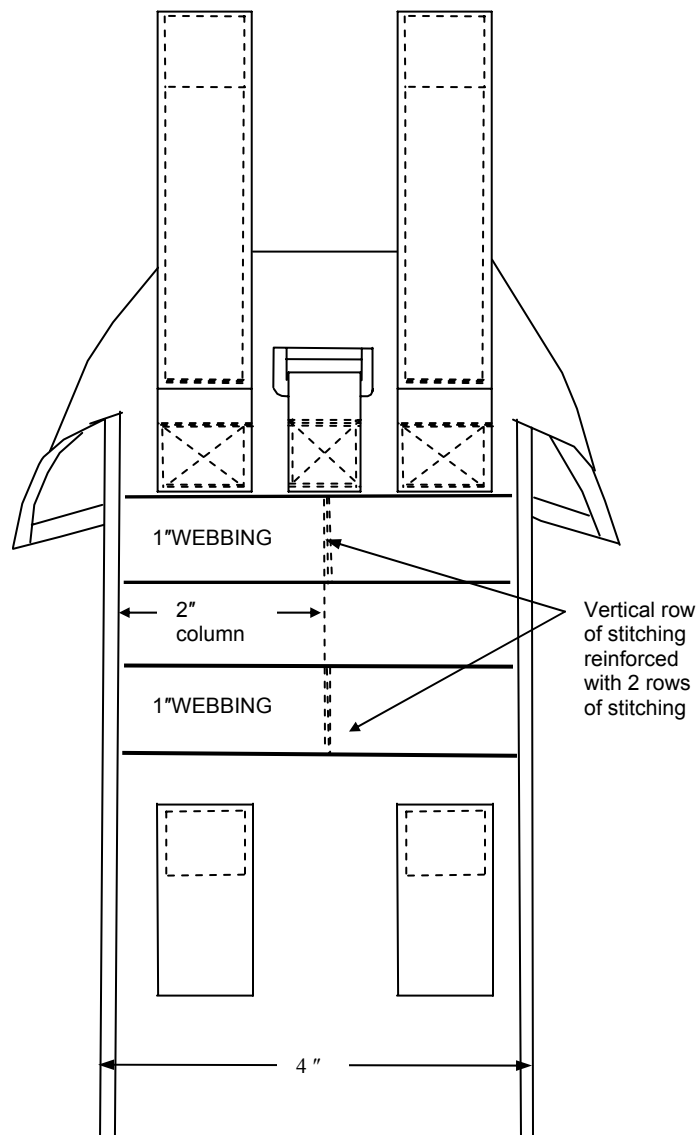


FIGURE IV – PALS Webbing Construction on Pouch Back



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ATTACHMENT 2 TO APPENDIX 8 TO ANNEX CB TO VOLUME 2

ISS HIGH DENSITY POLYETHYLENE (HDPE) SPECIFICATIONS

FOR THE
ACQUISITION OF THE
INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2 Annex CB Appendix 8 Attachment 2

HISTORY

Revision	Date	Description

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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High Density Polyethylene Physical Properties

PROPERTY	METHOD	NOMINAL VALUE
TENSILE YIELD STRENGTH	D 638	34 Mpa
ULTIMATE ELONGATION	D638	>800%
FLEXURAL MODULUS	D 790	1240 Mpa
HARDNESS	D 2240	69 Shore D
BRITTLINESS TEMPERATURE	D 746	<- 76°C
SOFTENING POINT (VICAT)	D1525	125°C
DENSITY	D 1505	0.952 G/CM ³

ATTACHMENT 3 TO
APPENDIX 8 TO ANNEX CB TO VOLUME 2

CFTPO-ISS-MLCS GENERIC POUCHES

FOR THE
ACQUISITION OF THE
INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

RFP - N° de la DP
W8476-112965/B

Amendment No. - N° de la modif.

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004RA

Client Reference No. - N° de réf. du client
W8476-112965

File No. - N° du dossier
004RA W8476-112965

Volume 2 Annex CB Appendix 8 Attachment 3

HISTORY

Revision	Date	Description

1. The Integrated Soldier System (ISS) Pouches consist of the items listed below:																	
<table border="1"><thead><tr><th>Item Description</th><th>NATO Stock Number</th><th>Unit of Issue</th></tr></thead><tbody><tr><td>a ISS Pouch Set</td><td></td><td>SE</td></tr><tr><td>b ISS System Component Pouch</td><td>NSN</td><td>EA</td></tr><tr><td>c ISS GPS Component Pouch</td><td>as specified on contract</td><td>EA</td></tr><tr><td>d ISS Display Component Pouch</td><td></td><td>EA</td></tr></tbody></table>	Item Description	NATO Stock Number	Unit of Issue	a ISS Pouch Set		SE	b ISS System Component Pouch	NSN	EA	c ISS GPS Component Pouch	as specified on contract	EA	d ISS Display Component Pouch		EA		
Item Description	NATO Stock Number	Unit of Issue															
a ISS Pouch Set		SE															
b ISS System Component Pouch	NSN	EA															
c ISS GPS Component Pouch	as specified on contract	EA															
d ISS Display Component Pouch		EA															
2. Package item(s) in a polyethylene (or other transparent film) bag or envelope, made of material not less than one (1) mil thickness. The bags shall be taped or stapled to effect closure and shall be legibly marked (labelled) as follows:																	
NATO Stock Number (NSN) * - As specified on contract																	
Nomenclature ** - As specified on contract																	
Quantity / Unit of Issue - As applicable (1 EA OR 1 SE)																	
<i>For initial distribution</i> Items (b-d) shall be <u>consolidated</u> into a single package → item (a)																	
<i>For Depot stock</i> Items (b-d) shall be <u>individually packaged</u>																	
3. A quantity of packages, of the same NSN, shall be packed into a corrugated fibreboard box conforming to Canadian General Standards Board (CGSB) specification CAN/CGSB-43.22-2001. The box size and content quantity shall be uniform for the duration of the contract. Suggestion as follows:																	
<u>No material handling equipment required</u> – Overall inside dimensions (length, width and depth added) shall not exceed 1.5 metres (59 inches). The maximum weight of the box and contents shall not exceed 18 kilograms (40 pounds).																	
<u>Material handling equipment required</u> – The box(es) shall be compatible with the requirements of paragraph 8.																	
4. Closure of the corrugated fibreboard box shall be in accordance with CGSB specification CAN/CGSB-43.22-2001 (Appendix B).																	
5. On one end of each corrugated fibreboard box, stencilling or labelling, in figures as large as practicable in relation to the space available, shall legibly mark the following information:																	
NATO Stock Number (NSN) * - As specified on contract																	
Nomenclature ** - As specified on contract																	
Quantity (per box) / Unit of Issue - As applicable (1 EA OR 1 SE)																	
Gross Weight (nearest kg) - As applicable																	
Contract Serial Number - As specified on contract																	
6. On one side of each corrugated fibreboard box, stencilling or labelling, in figures as large as practicable in relation to the space available, shall legibly mark the following information:																	
Consignee - As specified on contract																	
Consignor - Supplier's name or symbol																	
Case ___ of ___ cases - As applicable within each shipment																	
7. The last shipping container of each shipment shall have affixed to the side on which the shipping instructions are contained (paragraph 6), an envelope containing the Packing List, Release Note, etc. This water-resistant envelope shall be prominently marked "Packing List Enclosed" and shall be securely affixed to the outside wall of the container.																	
8. Shipments shall be palletized in uniform loads (grouped by NSN) and strapped/secured on standard 4-way entry, 48-inch by 40-inch wood or fibreboard non-returnable pallets, to be supplied by the contractor. Total height, including pallet, shall not exceed 47 inches.																	
* Marking shall be applied using Bar Code Symbology GS1-128 with AI 7001, including HRI (in accordance with D-LM-008-002/SF-001)																	
** Bilingual format – English / French																	

Canadian Forces Transportation Packaging Order

CFTPO-ISS-POUCH

Date16 May 2011Sheet1 of 2

As specified on contract

As specified on contract

Drawn byH. Fraser

CheckedH. Fraser

Design EngineerDSCO 5-4-3

Approval Stamp

18

CF 708

1. Les pochettes de Système Intégré de Soldat (SIS) se composent des articles énumérés ci-dessous :		Commentaire d'Emballage pour le Transport – Forces canadiennes	CETFC-ISS-POUCH	Date 16 Mai 2011	Page 2 de 2															
	<table border="1"><thead><tr><th>Description de l'article</th><th>NNO</th><th>Unité de mesure</th></tr></thead><tbody><tr><td>a SIS Jeu de pochette</td><td>Numéro de nomenclature</td><td>SE</td></tr><tr><td>b SIS Pochette de composant système</td><td>OTAN</td><td>EA</td></tr><tr><td>c SIS Pochette de composant GPS</td><td>– selon le contrat</td><td>EA</td></tr><tr><td>d SIS Pochette de composant d'affichage</td><td>– selon le contrat</td><td>EA</td></tr></tbody></table>					Description de l'article	NNO	Unité de mesure	a SIS Jeu de pochette	Numéro de nomenclature	SE	b SIS Pochette de composant système	OTAN	EA	c SIS Pochette de composant GPS	– selon le contrat	EA	d SIS Pochette de composant d'affichage	– selon le contrat	EA
Description de l'article	NNO					Unité de mesure														
a SIS Jeu de pochette	Numéro de nomenclature					SE														
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c SIS Pochette de composant GPS	– selon le contrat	EA																		
d SIS Pochette de composant d'affichage	– selon le contrat	EA																		
2. Emballer le(s) article(s) dans un sac ou une enveloppe en polyéthylène (ou une autre pellicule transparente), dont l'épaisseur est d'au moins un (1) mil. Les sacs doivent être scellés à l'aide d'un ruban adhésif ou d'agrafes, et l'information suivante (inscrite sur une étiquette) doit figurer lisiblement sur chacun :																				
Numéro de nomenclature OTAN (NNO)* – Selon le contrat Nomenclature ** – Selon le contrat Quantité (par conteneur) / Unité de mesure – Selon le cas (1 EA ou 1 SE) La distribution initiale Les articles (b-d) doivent être regroupés dans un seul paquet → l'article (a) Le stockage à l'entrepôt Les articles (b-d) doivent être emballés individuellement																				
3. Une quantité de paquets, de la même NNO, doivent être placés dans un conteneur en carton dur ondulé, conformément à la norme CAN/CGSB-43.22-2001 de l'Office des normes générales du Canada (ONGC). La taille du conteneur et la quantité contenue doivent demeurer la même pour la durée du contrat. Voici des suggestions : Aucun équipement de manutention nécessaire – Les dimensions générales Intérieures (somme de la longueur, de la largeur et de la hauteur) ne doivent pas dépasser 1,5 m (59 po). Le poids maximal du conteneur, avec son contenu, ne doit pas dépasser 18 kg (40 lb). Équipement de manutention nécessaire – Les conteneurs doivent être compatibles aux exigences du paragraphe 8.																				
4. La fermeture du conteneur en carton dur ondulé doit être conforme à la norme CAN/CGSB-43.22-2001 (appendice B) de l'ONGC.		Destination H. Fraser Vérification H. Fraser Ingénieur études DOCA 5-4-3 Sceau d'approbation 18																		
5. Sur une extrémité de chaque conteneur en carton dur ondulé, l'information suivante doit figurer lisiblement en caractères aussi grands que permis par l'espace disponible (inscrite à l'aide d'un pochoir ou sur une étiquette) : Numéro de nomenclature OTAN (NNO)* – Selon le contrat Nomenclature ** – Selon le contrat Quantité (par conteneur) / Unité de mesure – Selon le cas (1 EA ou 1 SE) Poids brut (arrondir au kg) – Selon le cas Numéro de série du contrat – Selon le contrat																				
6. Sur un côté de chaque conteneur en carton dur ondulé, l'information suivante doit figurer lisiblement en caractères aussi grands que permis par l'espace disponible (inscrite à l'aide d'un pochoir ou sur une étiquette) : Destinataire – Selon le contrat Expéditeur – Nom ou marque du fournisseur Conteneur ___ de ___ – Selon chaque cargaison																				
7. Le dernier conteneur d'expédition de chaque cargaison, doit porter sur le côté où l'on retrouve les instructions d'envoi (paragraphe 8), une enveloppe contenant le bordereau d'expédition, le bordereau de libération, etc. Cette enveloppe, résistante à l'eau, doit porter clairement les mots «bordereau d'expédition ci-inclus» et doit être bien fixée à la paroi extérieure du conteneur.																				
8. L'entrepreneur doit fournir des palettes standard de type perdu, en bois ou en carton dur ondulé, accessibles des quatre côtés et mesurant 48 po sur 40 po. Les conteneurs doivent y être disposés uniformément (groupées par NNO) et solidement arimées. La hauteur totale, y compris la palette, ne doit pas dépasser 47 po.																				
* Les marques doivent être apposées au moyen de la symbolologie code à barres GS1-128, avec le numéro d'identification d'application IA 7001, y compris la traduction en clair TC (conformément à la D-LM-008-002/9F-001) ** Format bilingue – Anglais / Français																				

CF 788

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APPENDIX 9 TO ANNEX CB TO VOLUME 2

MLCS CONCEPTUAL LOAD

FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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This Appendix describes the load carriage of close combat soldiers and establishes space claims on the MLCS for both ISS components and soldiers' combat equipment and consumables.

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1. Introduction

2. Conceptual Loads

1. Introduction

1.1 Four (4) infantry roles are identified in this Appendix. These four (4) roles include:

- Rifleman;
- C9 Gunner;
- Grenadier; and
- Commander

1.2 The conceptual load for each role identified in section 1.1 of this Appendix is described in details in section 2 of this Appendix.

2. Conceptual Loads

2.1 The figures and associated text in this section describe the conceptual load for each infantry role.

2.2 The conceptual load information includes GFE equipment and associated Combat Pouches plus their mandated or recommended location, depending on the pouch, on the MLCS Carrier for use with the ISS both in training and on operations.

2.3 The Rifleman may have one (1) or two (2) Utility Pouches, at the Contractor's discretion.

2.4 The Grenadier may use a PALS combat belt to carry more ammunition. But for the purpose of this Appendix and associated requirements, the Grenadier conceptual load is considered to be the same as the Rifleman conceptual load.

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2.5 If ISS MLCS Pouches or ISS physical devices are placed at the same location as the hydration carrier, the following constraints must be applied:

2.5.1 ISS MLCS Pouches and ISS physical devices can be secured to the hydration carrier; and

2.5.2 ISS MLCS Pouches and ISS physical devices can be placed between the hydration carrier and the MLCS carrier.

2.6 It is recommended that wired connectivity and connectors be routed within or upon the MLCS so as to reduce the probability of snagging and pinching of wired connectivity and to reduce the probability of connector and wired connectivity damage while a soldier performs tasks.

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Fig 1.1 MLCS Platform Front Harness

MLCS Harness - Front



Fig 1.2 MLCS Platform Back Harness

MLCS Harness - Back



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Fig 2.1

Rifleman - Combat Pouches

90 Rd Velcro Magazine x 3 Smoke Grenade/Night Vision Device x1



NSN 8465-66-155-9075



NSN 8465-66-155-9105

Frag Grenade x 2



NSN 8465-66-158-4356

Multi Tool x 1



NSN 8465-66-158-4388

Utility Large x 2



NSN 8465-66-158-4547

Utility Hydration Cover x 1



NSN 8465-66-155-9151

Combat First Aid Medic x 1



NSN 8465-66-158-4337

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Fig 2.2 Rifleman – MLCS Front

Rifleman - Front



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Fig 2.3

Rifleman – MLCS Dorsal

Rifleman - Dorsal



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Fig 2.4 Rifleman – MLCS Right side

Rifleman - Side



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Fig 3.1

C9 Gunner - Combat Pouches

200 Round Ammunition x 2



NSN 8465-66-158-4345

Utility Large x 2



NSN 8465-66-158-4547

Smoke Grenade /Night Vision Device x1



NSN 8465-66-155-9105

Utility Hydration Cover x 1



NSN 8465-66-155-9151

Combat First Aid Medic x 1



NSN 8465-66-158-4337

Multi Tool x 1



NSN 8465-66-158-4388

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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Fig 3.2 **C9 Gunner - MLCS Front**

C9 Gunner - Front



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Fig 3.3

C9 Gunner - MLCS Dorsal

C9 Gunner - Dorsal



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Fig 3.4 **C9 Gunner - MLCS Right side**

C9 Gunner – Right Side



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Fig 4.1 Commander - Combat Pouches

PRC 152 Light Assault Radio x1



NSN 8465-20-0055399

DAGR Pouch x1



NSN 8465-66-1584344

90 Round Velcro Magazine x 3



NSN 8465-66-155-9075

Smoke Grenade/Night Vision Device x1



NSN 8465-66-155-9105

Combat First Aid Medic x 1



NSN 8465-66-158-4337

Utility Hydration Cover x 1



NSN 8465-66-155-9151

Multi Tool x 1



8465-66-158-4388

Frag Grenade x 2



8465-66-158-4356

Utility Large x 2



NSN 8465-66-158-4547

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Fig 4.2

Commander - MLCS Front

Commander - Front



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Fig 4.3

Commander - MLCS Dorsal

Commander - Dorsal



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Fig 4.4 **Commander - MLCS Right Side**

Commander - Side



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Fig 5.1

Grenadier – Combat Pouches

PALS Combat belt



NSN 8465-66-158-4411

40 x 4 Horizontal x1



NSN 8465-66-158-4336

40 x 4 Vertical x1



NSN 8465-66-158-4334

40 x 1 x 2



NSN 8465-66-158-4333

40 x 2 Horizontal x 2



NSN 8465-66-155-9125

Utility Hydration Cover x1



NSN 8465-66-155-9151

Combat First Aid Medic x 1



NSN 8465-66-158-4337

Utility Large x 2



NSN 8465-66-158-4547

90 Round Velcro Magazine x 3



NSN 8465-66-155-9075

Smoke Grenade/Night Vision Device x1



NSN 8465-66-155-9105

Multi Tool x 1



NSN 8465-66-158-4388

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APPENDIX 10 TO ANNEX CB TO VOLUME 2

MISCELLANEOUS TEST DATA AND TEST PROCEDURE REQUIREMENTS FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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HISTORY

Revision	Date	Description

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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This Appendix gives instructions to the Contractor on the test data to use to verify certain requirements, and the test procedure requirements to verify certain requirements.

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1. Introduction
2. Relay Transfer Test Procedure Requirements
3. Automatic Relay Test Procedure Requirements
4. Hand Drawings Test Data
5. Order of Battle (ORBAT)

1. Introduction

1.1 Some of the TPS requirements require that specific data be used to perform the verification test. In such cases, the verification criteria for that requirement will point to a specific section in this appendix to identify the test data to be used during the test, and the Contractor must use this test data to verify the requirement.

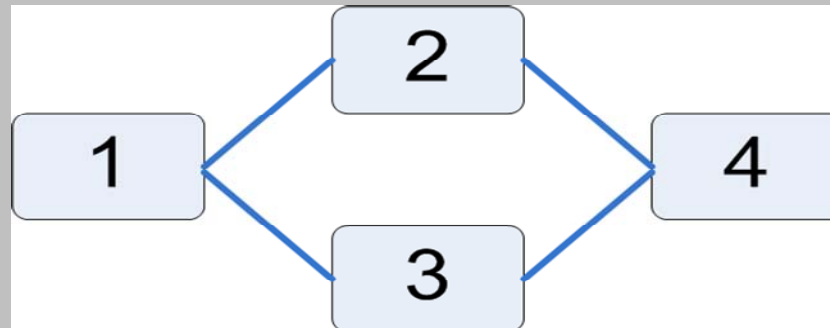
1.2 For some TPS requirements, DND enforces test procedure requirements to be followed by the Contractor to verify the requirement. In such cases, the detailed test procedure provided by the contractor to verify the requirement must include all elements found in the test procedure requirements of this appendix.

2. Relay Transfer Test Procedure Requirements

2.1 This test must be performed by the Contractor. The Crown will observe the test.

2.2 The following test scenario must be used by the Contractor in the verification of communications data relay functionality for TPS-2120 and TPS-4255.

Test scenario : Relay Transfer



- Initially, radios 1, 2 and 4 are turned on. 1 communicates with 4 via 2.
- Radio 3 is then powered on
 - Any effects on network are noted
- Radio 2 is subsequently brought out of range
 - Time for communication to resume through radio 3 is measured
- Radio 2 comes back in range
 - Any effects on network are noted

Figure 1 - Test Scenario: Relay Transfer

2.3 The Contractor must measure the time taken to switch between known data relays and prove that the time meets the requirement.

2.4 Without reconfiguring any of the ISS-S nodes, the physical nodes must be moved clockwise around the configuration and the test must be repeated.

2.5 The test must be run a total of four (4) times, such that each node is tested in every position in the diagram.

2.6 The Contractor must prove that the measured times meet or exceed the times specified in the requirement every time the test is run.

3. Automatic Relay Test Procedure Requirements

3.1 This test must be performed by the Contractor. The Crown will observe the test.

3.2 The following test procedure must be followed to test requirement TPS-3909, TPS-5161 and TPS-4079.

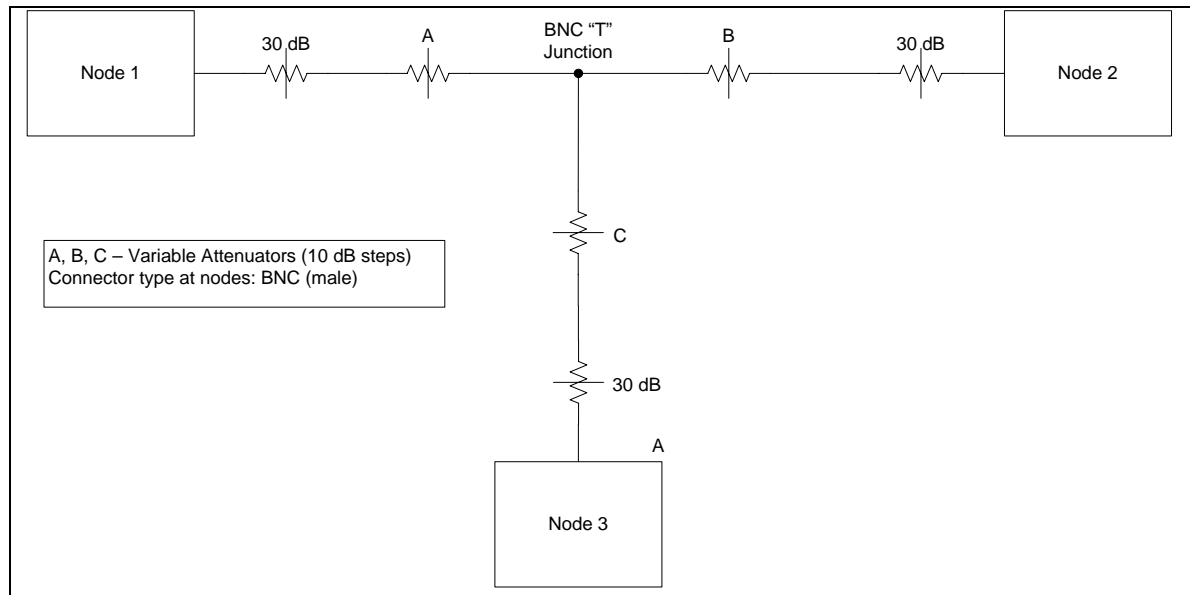


Figure 2 – Attenuator Tree

3.3 Pre-Conditions:

3.3.1 The Crown will supply the attenuator tree.

3.3.2 The Contractor must supply junction to BNC attenuator tree.

3.3.3 Assumption made for 1 Watt power output and a receiver sensitivity of approximately -100 dBm. If equipment varies significantly, advise Crown.

3.3.4 Attenuator tree may be verified by Contractor for path loss.

3.3.4.1 Receiver sensitivity is not the aim of this test and therefore tree calibration will not be performed by the Crown.

3.3.5 ISS-S units will be chosen at random by the Crown to perform the test.

3.3.6 The Contractor may select the voice traffic (for requirement TPS-4079) and data traffic (for requirement TPS-5161) to be used to perform the test. Voice, data and Blue PA services must be used to test requirement TPS-3909.

3.3.7 Before starting the test, a communications check must be performed with variable attenuators at full value. The communications check must be unsuccessful.

3.3.8 Start state of the ISS-S nodes must be “turned-off”.

3.3.9 All variable attenuators must be set at “0 dB”.

3.4 Test Steps:

3.4.1 The Contractor must turn on Nodes 1 and 2.

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3.4.2 The Contractor must perform a successful communications check between Nodes 1 and 2 for requirement TPS-3909, voice communication for requirement TPS-4079 and data communication for TPS-5161.

3.4.3 The Contractor must turn on Node 3.

3.4.4 The Contractor must perform a successful communications check between all three (3) nodes (i.e. Nodes 1 and 2, Nodes 1 and 3, and Nodes 2 and 3) for requirement TPS-3909, voice communication for requirement TPS-4079 and data communication for TPS-5161.

3.4.5 The Contractor must set attenuators A and B to a level (approximately 40 dBs) where direct communication between Nodes 1 and 2 is impossible.

3.4.6 The Contractor must perform a communications check between all three (3) nodes for requirement TPS-3909, voice communication for requirement TPS-4079 and data communication for TPS-5161.

3.4.6.1 In this configuration, the communications check must be successful, and all nodes must be able to communicate using Node 3 as a relay.

3.4.7 The Contractor must set attenuator C to a level (approximately 40 dBs) where direct communication between Nodes 3 and 1 and between Nodes 3 and 2 is impossible.

3.4.8 The Contractor must perform a communications check between all three (3) nodes for requirement TPS-3909, voice communication for requirement TPS-4079 and data communication for TPS-5161.

3.4.8.1 In this configuration, communications should be impossible between the three (3) nodes.

3.4.9 The Contractor must set attenuator B to 0 dB

3.4.10 The Contractor must perform a communications check between all three (3) nodes for requirement TPS-3909, voice communication for requirement TPS-4079 and data communication for TPS-5161.

3.4.10.1 In this configuration, the communications check must be successful, and all nodes must be able to communicate using Node 2 as a relay.

3.4.11 The Contractor must shut down all nodes and disconnect them from the attenuator tree.

3.4.12 The Contractor must run the tests described in section 3.4 above three (3) times.

3.4.12.1 The Contractor must prove that the tests described in section 3.4 were all successfully executed each time the test was run.

4. Hand Drawings Test Data

4.1 The Left Flanking Hand Drawing and the Right Flanking Hand Drawing are referenced in the verification criteria for certain TPS requirements.

4.2 When the Left Flanking Hand Drawing and the Right Flanking Hand Drawings are referenced, the Contractor must use these hand drawings.

4.3 The scale of the drawings is 1km x 1km; when the Contractor reproduces these hand drawings on their ISS-S, the scale must be respected.

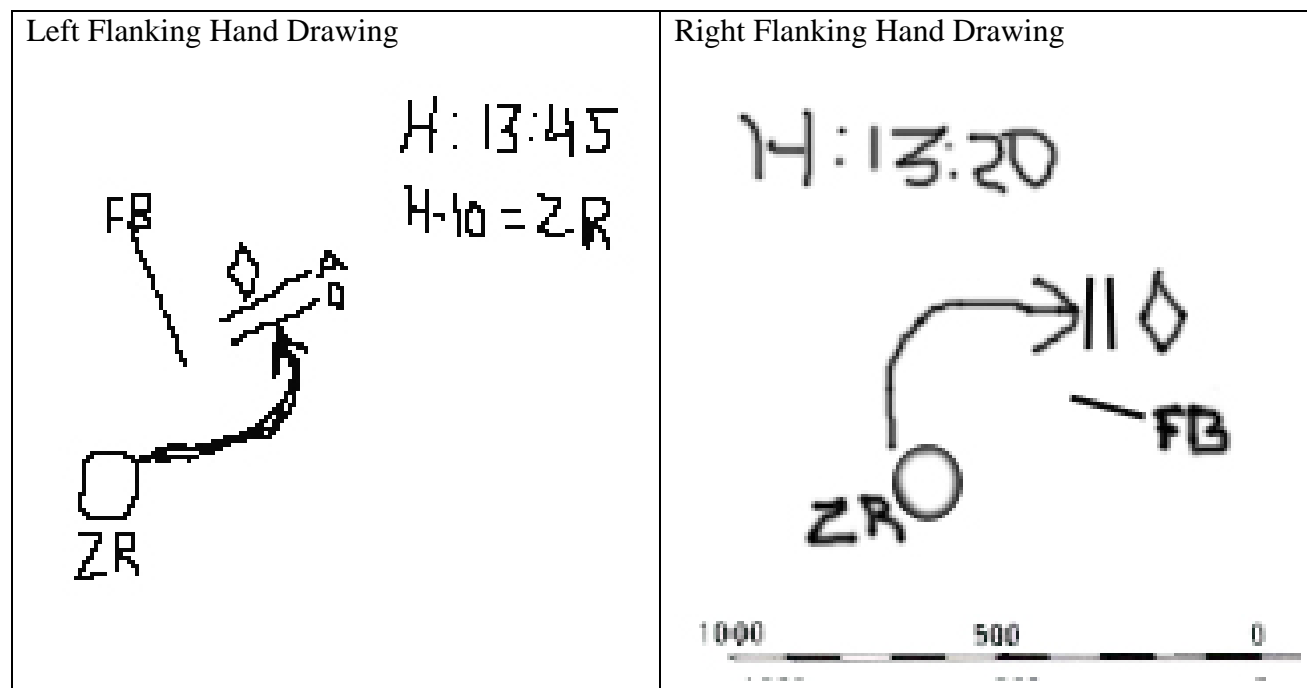


Figure 3 – Hand Drawings

5. Order of Battle (ORBAT)

- 5.1 The ORBAT is an organizational chart where there is a defined chain of command and roles/functions in that organization. Additionally, a Combat Team is a basic task tailored manoeuvre force organized around an Infantry Coy or Armoured Squadron with attached combat arms units such as Armour, Infantry, Combat Engineers and Artillery.
- 5.2 As stated in TPS-1162, a Coy size ORBAT, when tailored as a Combat Team, can be composed of up to 300 soldiers. Figure 4 shows an example of a Company (Coy) size ORBAT. Furthermore, every Platoon (Pl) can include up to 45 soldiers, as mandated in TPS-2936. Figure 5 shows an example of a Pl size ORBAT.
- 5.3 Within an ISSP equipped Combat Team, soldiers need to exchange information as part of different Communities of Interest (COIs). Typically, voice, data and Blue PA information will be exchanged at Pl and Section (Sect) levels within specific COIs. Table 1 shows an example of a Pl composition and its COI assignments.

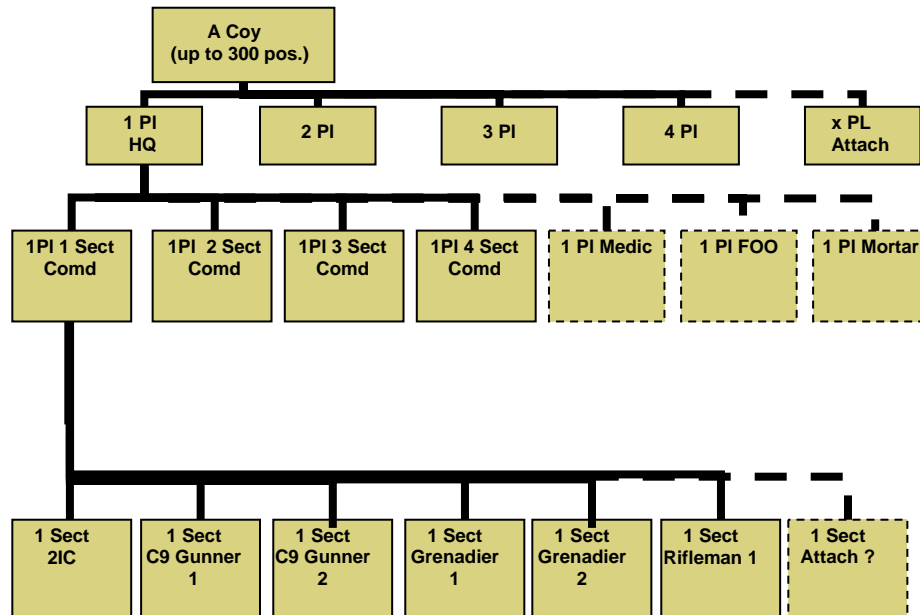


Figure 4 – Coy/Combat Team ORBAT

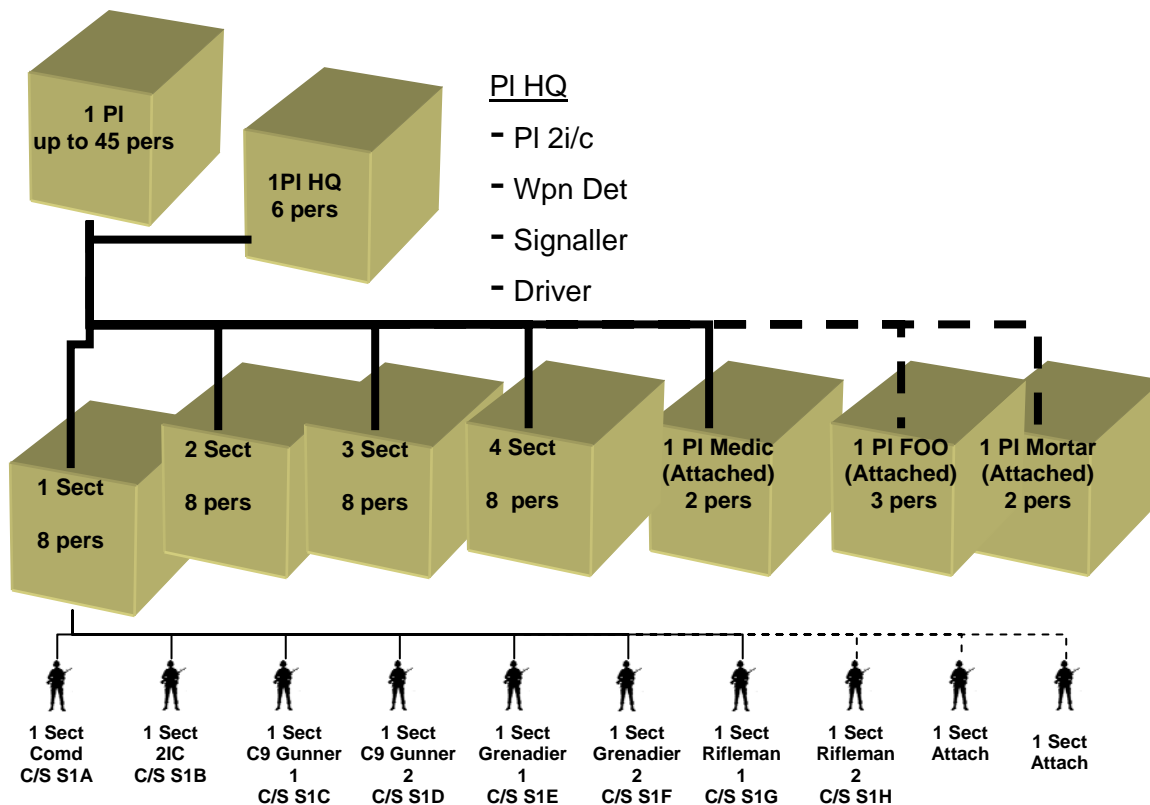


Figure 5 – Platoon ORBAT

ISS Node	Position	COIs
1	Pl OC	Pl Voice, Pl Data, Pl Blue PA
2	Pl 2i/c (HQ)	Pl Voice, Pl Data, Pl Blue PA
3	Pl Wpn Det 1 (HQ)	Pl Voice, Pl Data, Pl Blue PA
4	Pl Wpn Det 2 (HQ)	Pl Voice, Pl Data, Pl Blue PA
5	Pl Signaller (HQ)	Pl Voice, Pl Data, Pl Blue PA
6	Pl HQ Driver	Pl Voice, Pl Data, Pl Blue PA
7	1 Sect Comd	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
8	1 Sect 2i/c	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
9	1 Sect C9 Gunner 1	Sect Voice, Sect Data, Pl Blue PA
10	1 Sect C9 Gunner 2	Sect Voice, Sect Data, Pl Blue PA
11	1 Sect Grenadier 1	Sect Voice, Sect Data, Pl Blue PA
12	1 Sect Grenadier 2	Sect Voice, Sect Data, Pl Blue PA
13	1 Sect Rifleman 1	Sect Voice, Sect Data, Pl Blue PA
14	1 Sect Rifleman 2	Sect Voice, Sect Data, Pl Blue PA
15	2 Sect Comd	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
16	2 Sect 2i/c	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
17	2 Sect C9 Gunner 1	Sect Voice, Sect Data, Pl Blue PA
18	2 Sect C9 Gunner 2	Sect Voice, Sect Data, Pl Blue PA
19	2 Sect Grenadier 1	Sect Voice, Sect Data, Pl Blue PA
20	2 Sect Grenadier 2	Sect Voice, Sect Data, Pl Blue PA
21	2 Sect Rifleman 1	Sect Voice, Sect Data, Pl Blue PA
22	2 Sect Rifleman 2	Sect Voice, Sect Data, Pl Blue PA
23	3 Sect Comd	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
24	3 Sect 2i/c	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
25	3 Sect C9 Gunner 1	Sect Voice, Sect Data, Pl Blue PA
26	3 Sect C9 Gunner 2	Sect Voice, Sect Data, Pl Blue PA
27	3 Sect Grenadier 1	Sect Voice, Sect Data, Pl Blue PA
28	3 Sect Grenadier 2	Sect Voice, Sect Data, Pl Blue PA
29	3 Sect Rifleman 1	Sect Voice, Sect Data, Pl Blue PA
30	3 Sect Rifleman 2	Sect Voice, Sect Data, Pl Blue PA
31	4 Sect Comd	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
32	4 Sect 2i/c	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
33	4 Sect C9 Gunner 1	Sect Voice, Sect Data, Pl Blue PA
34	4 Sect C9 Gunner 2	Sect Voice, Sect Data, Pl Blue PA
35	4 Sect Grenadier 1	Sect Voice, Sect Data, Pl Blue PA
36	4 Sect Grenadier 2	Sect Voice, Sect Data, Pl Blue PA
37	4 Sect Rifleman 1	Sect Voice, Sect Data, Pl Blue PA
38	4 Sect Rifleman 2	Sect Voice, Sect Data, Pl Blue PA
39	Pl Medic 1	Pl Voice, Pl Data, Pl Blue PA
40	Pl Medic 2	Pl Voice, Pl Data, Pl Blue PA
41	Att Mortar 1	Pl Voice, Pl Data, Pl Blue PA
42	Att Mortar 2	Pl Voice, Pl Data, Pl Blue PA

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43	Att FOO 1	Pl Voice, Pl Data, Pl Blue PA
44	Att FOO 2	Pl Voice, Pl Data, Pl Blue PA
45	Att FOO 3	Pl Voice, Pl Data, Pl Blue PA

Table 1 – Platoon Composition and COI Assignments

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APPENDIX 11 TO ANNEX CB TO VOLUME 2

POWER CONSUMPTION TEST PROCEDURE REQUIREMENTS

FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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This Appendix gives instructions on how the ISS-S power consumption requirements are expected to be tested and subsequently analysed to prove that the ISS-S complies with the relevant TPS power and weight requirements.

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1. Introduction
2. Overall Concept
3. Power Infrastructure Considerations
4. Power Demand Test
5. Test Results Analysis
6. Test Report

1 Introduction

- 1.1 This Appendix presents the high level test procedures, verification criteria and analysis to be used to determine the ISS-S power consumption for verification of the Performance Specification requirements. This test and analysis will also be used for the determination of power costs as part of the Life Cycle Cost.
- 1.2 This Appendix is to be used as a baseline for the detailed test procedures and subsequent analysis report.

2 Overall Concept

- 2.1 The Performance Specification requirement is that the ISS-S must be able to complete eight (8) hours (twenty-four (24) hours desired) of continuous operation without recharge or replacement of any ISS Battery, in accordance with the usage profile of a Battlefield Day (BD) as described in Section 3.1 Battlefield Day (BD) Profile of Appendix 3 to Annex CB - Mission Profile and Operation Mode Summary.
- 2.2 To determine the ISS-S system's power consumption over a specified period, its energy demand, in W-hrs per BD, at the system level is required. This demand is to be measured according to the operational configuration of the system in accordance with the BD usage profile. The subsequent analysis is to show how the proposed ISS-S power infrastructure satisfies the measured demand. A report summarizing the results will be required and include a description of the System Power Infrastructure Configuration and Architecture.
- 2.3 This document is referenced by the TPS requirements that make use of it.

3 Power Infrastructure Considerations

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- 3.1 The ISS-S main source of energy is the ISS Batteries, which consist of ISS Rechargeable Batteries and ISS Non-Rechargeable Batteries. At any given time, the ISS-S is required to function either with the ISS Rechargeable Batteries or with the ISS Non-Rechargeable Batteries.
- 3.2 The ISS-S may also include ISS-ES Internal Batteries, which are defined as being a part of the ISS-ES if they are provided as part of the solution. If ISS-ES Internal Batteries are part of the power solution, they may be considered in the analysis of the power infrastructure energy capacity.
- 3.3 A Power Domain is defined as the interconnection of a Battery Pack and one or more devices through cables and connectors for the purpose of supplying power.
- 3.4 The Power Domain Non-Rechargeable Battery Pack consists of all the ISS Non-Rechargeable Batteries, of the same type, required to operate a power domain at any one time. It also includes any Battery Loading/Storage Devices required to meet the ISS requirements.
- 3.5 The Power Domain Rechargeable Battery Pack consists of the ISS Rechargeable Batteries, of the same type, required to operate a power domain at any one time. It also includes any Battery Loading/Storage Devices required to meet the ISS requirements.
- 3.6 Depending on the power infrastructure configuration, power may be provided through several different power domains that may consist of different battery types with different energy usages. In these cases the power demand and capacity are to be determined by Power Domain.
- 3.7 In determining the number of ISS Non-Rechargeable Batteries or ISS Rechargeable Battery recharges required per BD, the following definitions apply:
 - 3.7.1 Quantity of Power Domain Non-Rechargeable Battery Pack is the number of Non-Rechargeable Battery Packs required for the system to operate a full BD, by power domain, following the usage profile of a BD as described in Section 3.1 Battlefield Day (BD) Profile of Appendix 3 to Annex CB - Mission Profile and Operation Mode Summary.
 - 3.7.2 Quantity of Power Domain Rechargeable Battery Pack is the number of Rechargeable Battery Packs required for the system to operate a full BD without having to recharge any batteries, by power domain, following the usage profile of a BD as described in Section 3.1 Battlefield Day (BD) Profile of Appendix 3 to Annex CB - Mission Profile and Operation Mode Summary.
 - 3.7.3 ISS Non-Rechargeable Battery Set is the full complement of Power Domain Non-Rechargeable Battery Pack(s) as expressed in Quantity of Power Domain Non-Rechargeable Battery Packs for all Power Domains of the ISS-S required to operate one ISS-S for a full BD.

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- 3.7.4 ISS Rechargeable Battery Set is the full complement of Power Domain Rechargeable Battery Pack(s) as expressed in Quantity of Power Domain Rechargeable Battery Packs for all Power Domains of the ISS-S required to operate one ISS-S for a full BD.
- 3.7.5 For each Power Domain Battery Pack, the full complement of ISS Batteries must be replaced (or recharged) at the same time and not just a portion of them. This particularly applies at the end of a BD should a partial pack use be determined. In this case, the full complement of ISS Batteries must be replaced or recharged to ensure the ISS Batteries are fully topped-up for the start of the next BD. Thus, for determining the Quantity of Power Domain Battery Pack, any partial pack use at the end of the BD must be rounded up and deemed a full pack used.
- 3.7.6 For ISS Rechargeable Batteries, the life expectancy is the number of charge/discharge cycles until the ISS Rechargeable Battery is no longer able to store a charge of 80% of its rated capacity in amp-hours at standard ambient conditions.

4 Power Demand Test

- 4.1 In order to determine the power consumption characteristics of the system, actual power usage measurements of the system must be taken based on a 24 hour test following the usage profile of the BD as described in Section 3.1 Battlefield Day (BD) Profile of Appendix 3 to Annex CB to Volume 2. The test criteria are specified below.
- 4.2 Test Protocol:
- 4.2.1 The system is to be exercised in accordance with Section 3.1 Battlefield Day (BD) Profile to Appendix 3 to Annex CB to Volume 2 while being measured for power demand.
- 4.2.2 The system is to be operated in an operational system configuration for a full 24 hours.
- 4.2.3 The system power demand is to be based on the actual measured values of each Power Domain, taken at a point that includes any and all losses within the Power Domain.
- 4.2.4 All power demand measurements and ISS Battery energy capacity determinations are to be taken at standard ambient conditions.
- 4.2.5 Standard ambient conditions are defined as:
- 4.2.5.1 Temperature: $25^{\circ} \pm 10^{\circ}\text{C}$
- 4.2.5.2 Relative humidity: 20 to 80 percent

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4.2.5.3 Atmospheric pressure: Site pressure

5 Test Results Analysis

- 5.1 Based on the measured power demand, the subsequent analysis must demonstrate, by Power Domain, how the ISS-S power infrastructure solution using both ISS Non-Rechargeable Batteries and ISS Rechargeable Batteries, plus any ISS-ES Internal Batteries, satisfy this demand. This analysis must include any losses or inefficiencies in the distribution of power within the Power Domain when in its operational configuration under field use.
- 5.2 The outcome will be the Quantity of Power Domain Non-Rechargeable Battery Packs and the Quantity of Power Domain Rechargeable Battery Packs.
- 5.3 The requirement is met if the analysis proves that:
 - 5.3.1 Each Rechargeable Battery Pack will be able to complete eight (8) hours of continuous operation of its respective Power Domain, under the BD usage, without recharge of any of its batteries, and.
 - 5.3.2 Each Non-Rechargeable Battery Pack will be able to complete eight (8) hours of continuous operation of its respective Power Domain, under the BD usage, without replacement of any of its batteries.

6 Test Report

- 6.1 A test report must be provided and consist of the following sections:
 - 6.1.1 System Power Infrastructure Configuration and Architecture Description - describe the layout and composition of the Power Domains and Battery Packs, including devices served, power infrastructure components, interfaces, cabling, controls, power and battery monitoring, locations, number and type of batteries, and power distribution characteristics. Also describe any ISS-ES Internal Batteries and how they factor into the power solution. Schematics, drawings and/or pictures should be included.
 - 6.1.2 Test Plan – provide a detailed test plan proving that the test was run for a duration of 24 hours and was run in accordance with Section 3.1 Battlefield Day (BD) Profile to Appendix 3 to Annex CB to Volume 2. The test plan must include the complete test procedure that was followed and must prove that the protocol describe in section 4 of this document was followed.
 - 6.1.3 System Power Demand – along with the results of the test, provide a description of the methods of measurement, basic calculations and rationale used to develop the total system power demand. The total system power demand should be expressed in W-hours/BD and be segregated by Power Domain.

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- 6.1.4 System Power Infrastructure Energy Capacity - provide an analysis of the ISS Rechargeable Battery Pack(s) and Non-Rechargeable Battery Pack(s) energy capacity and how this is used to satisfy the system's power demand. This analysis may also factor in the use of any ISS-ES Internal Batteries, if so equipped. This must consider all losses and inefficiencies associated with each Power Domain and Battery Pack, and provide the Battery Pack's capacity (in mA-hrs), output voltage and the energy provided (in W-hours). ISS Battery energy capacity determinations are to be taken at standard ambient conditions. The life expectancy for each type of ISS Rechargeable Battery must be provided with the method of determination. The outcome will be the Quantity of Power Domain Non-Rechargeable Battery Packs and the Quantity of Power Domain Rechargeable Battery Packs.
- 6.1.5 Summary of Results – in terms of the number of ISS Rechargeable Battery Sets and ISS Non-Rechargeable Battery Sets. An estimate of the average expected life of each type of ISS Rechargeable Battery must also be provided. This information can be summarized in tabular format similar to Figures 1 and 2 below, less the cost information.

Template 5 - ISS Non-Rechargeable Battery Cost Template				
	Power Domain Battery Pack 1	Power Domain Battery Pack 2	Power Domain Battery Pack 3	Power Domain Battery Pack 4
Power Domain Battery Pack Description	Centralized Power Pack	Communications system power domain		
ISS Non-Rechargeable Battery Type in Power Domain Battery Pack	AA Lithium (ANSI 15-LF, IEC-FR6)	AA alkaline (ANSI 15A, IEC-LR6)		
No. of ISS Non-Rechargeable Batteries in Power Domain Battery Pack	8	10		
Quantity of Power Domain Non-Rechargeable Battery Packs	3	3		
Cost per ISS Non-Rechargeable Battery	\$2.50	\$0.50		

Figure 1 – ISS Non-Rechargeable Battery Cost Template with Sample Data

Template 6 - ISS Rechargeable Battery Cost Template				
	Power Domain Battery Pack 1	Power Domain Battery Pack 2	Power Domain Battery Pack 3	Power Domain Battery Pack 4
Power Domain Battery Pack Description	Centralized Power Pack	Communications system power domain		
ISS Rechargeable Battery Type in Power Domain Battery Pack	3.7V Li ion (18650) generic	AA cell (NiMH) generic		
No. of ISS Rechargeable Batteries in Power Domain Battery Pack	8	10		
Quantity of Power Domain Rechargeable Battery Packs	2	3		
ISS Rechargeable Battery Life Expectancy (# Charge/Discharge Cycles)	200	250		
Cost per ISS Rechargeable Battery	\$8.31	\$2.55		

Figure 2 – ISS Rechargeable Battery Cost Template with Sample Data

APPENDIX 12 TO ANNEX CB TO VOLUME 2

MLCS VERIFICATION AND QUALITY CONTROL REQUIREMENTS

FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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HISTORY

Revision	Date	Description

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This Appendix describes to the Contractor the verification and Quality Control Requirements of the MLCS.

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2. MLCS Platform Verification Requirements
3. ISS Generic Pouches Verification Requirements
4. MLCS Platform Pre-Production Phase Quality Control Requirements
5. ISS Generic Pouches Pre-Production Phase Quality Control Requirements

1. Introduction

1.1 This appendix describes how the DND is to perform the Verification of the MLCS platform and ISS Generic Pouches during the System Qualification Phase. The appendix also describes how the DND is to perform the Quality Control on the MLCS Platform and ISS Generic Pouches during the Pre-Production Phase.

2. MLCS Platform Verification Requirements

2.1 The DND will perform the Verification of the MLCS Platform during the System Qualification Phase to ensure that the Contractor's MLCS Design, Construction and Workmanship are compliant with the MLCS TDP provided in Annex CB, Appendix 7 including any changes approved by DND through a formal ECP during the system qualification phase.

2.2 The MLCS Verification will be done through a technical verification performed by a team of DND Subject Matter Experts (SMEs), except for the conformance to specified materials which will be proven by the submission from the Contractor of the appropriate Certificate of Compliance. A Certificate of Compliance (C of C) is a written statement from the supplier guaranteeing the full compliance of the product to the specification, or portion thereof, referenced. This document must be on official company stationary, it must be current, it must make reference to the applicable specification and have the original signature of the company's designated representative. The Crown reserves the right to verify the statements made in the C of C. Full test results, demonstrating the product's compliance, will be accepted in lieu of a C of C. The following paragraphs describe the specific verification requirements for each element of the MLCS.

2.3 Conformance to specified material

The Contractor must provide a valid C of C for each of the material elements identified in Table 1 below. Any additional materials used to augment the design must meet or exceed specified materials as defined in Appendix 7.

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Serial	Material	MLCS TDP Ref to Requirement
1	Cloth, Coated, High Tenacity Nylon	Annex CB, Appendix 7, para 3.4.1
2	Cloth, Plain, Weave, Nylon, 230g/m2	Annex CB, Appendix 7, para 3.4.2
3	Mesh, 100% Polyester Warp	Annex CB, Appendix 7, para 3.4.3
4	Hook and Loop	Annex CB, Appendix 7, para 3.4.4
5	Binding Tape	Annex CB, Appendix 7, para 3.4.5
6	Webbings	Annex CB, Appendix 7, para 3.4.6 and 3.4.7
7	Label	Annex CB, Appendix 7, para 3.4.13

TABLE 1: MLCS Material C of C Requirements

2.4 Design Deviation

2.4.1 There is no deviation allowed to the MLCS design except to accommodate the integration of the Integrated Soldier System (ISS) suite. Any design changes incorporated in the MLCS must to meet or exceed the MLCS design and construction requirements as identified in the MLCS TDP located in Annex CB, Appendix 7.

2.4.2 The following deviations to the design will be accepted:

Tolerances as indicated will be accepted to the placement of the rows of webbing and placement of stitching of the webbing to form the PALS grid. As the pouch strap is woven between the PALS on the platform and the webbing on the pouch, the spacing of the webbing (PALS) is important. The spacing of the rows of webbing on both the platform and the pouch must ensure that a pouch can be attached and will hold securely in place. The construction of the ladder system is such that rows of webbing are placed horizontally and spaced 1" apart. The webbing is stitched down at 1 ½" interval. A maximum allowable tolerance would include:

- 1/8" (-) on the spacing of the rows of webbing
- 1/8" (±) for the 1 ½" stitched - down intervals.

2.4.3 Deviations to the design to allow for openings for cables, connectors, etc, will be accepted provided the construction and the workmanship do not impede the attachment of pouches to the MLCS. The construction of an opening in the shell material for the insertion of a cable, for example, will be such that the opening is finished properly with another material that will provide suitable coverage to prevent the ingress of water or dirt/ sand into the inner MLCS. Those design changes must be documented in an updated TDP following approval of an ECP by DND which document those changes.

2.5 Technical Verification – Workmanship and Construction

2.5.1 The DND SME Evaluation team will evaluate the 32 MLCS samples to be delivered during the System Qualification Phase. 70% of the samples (22 of the 32 samples) evaluated must pass the technical evaluation.

2.5.2 A maximum of five (5) workmanship and construction infractions will be accepted in any of the samples. The infractions are restricted to the Workmanship and construction.

2.5.3 The Technical Evaluation will be carried out in accordance with Table 2 and their assessment Criteria will be as detailed in Table 3.

Spec Corresponding Para Ref	Description	Comments	Accept Y/N
Annex CB, App 7, Att 2, para 2.1- 2.2	The right side of the shell material must include 7 rows of MIL spec AA55301, 25mm (1") webbing , horizontally placed, spaced 1" apart (PALS grid webbing). Stitch down at 3.8cm (1 ½") to from vertical columns.		
Annex CB, App 7, Att 2, para 2.3	Stitching over webbing reinforced 3 times.		
Annex CB, App 7, Att 2, para 3.1 -3.2	7.6 x 20 cm (3" x 8") shoulder tabs with 5 x 7.6cm (2" x 3") loop fastening tape		
Annex CB, App 7, Att 2, para 3.3	Hook fastening tape, 5 x 7.6cm (2" x 3") long on other end of the tab on coated side of the material.		
Annex CB, App 7, Att 2, para 3.4	Bind along 3 edges of the shoulder tab bound 25mm (1") binding tape, ¼"double topstitch.		
Annex CB, App 7, Att 2, para 4.1.1	Plate carrier- 3 sides bound with 19mm (¾") binding tape.		
Annex CB, App 7, Att 2, para 4.1.2	Plate carrier- 2 pieces of loop fastening tape at 5 x 21.6 cm (2" x 8.5") topstitched to carrier, reinforced with a cross stitch.		
Annex CB, App 7, Att 2, para 5.3	5 x 25 cm (2 x 9.75")loop fastening tape on lining section of shoulders		
Annex CB, App 7, Att 2, para 5.8	5 x 22 cm (2 x 8.5") hook fastening tape is sewn along edge of flap at 1/8" topstitch.		
Annex CB, App 7, Att 2, para 5.10	Plate carrier centred on ¾" binding tape with top corners left open.		

Spec Corresponding Para Ref	Description	Comments	Accept Y/N
Annex CB, App 7, Att 2, para 5.11	Back lining panel bound with 25mm (1") binding tape with ¼" double topstitch.		
Annex CB, App 7, Att 2, para 5.12	4 x 25mm (1") rectangle loops attached with 25mm (1") MIL-W-17337 webbing.		
Annex CB, App 7, Att 2, para 5.14	5 x 56cm (2 x 22") loop fastening tape along bottom of lining material.		
Annex CB, App 7, Att 2, para 5.16	Mesh pocket on back of chest rig front bound with 25mm (1") binding tape at 6mm (¼") double topstitch.		
Annex CB, App 7, Att 2, para 6.1	38mm x 56cm (1 ½" x 22") webbing (MIL AA55301) for waist strap attached to 38mm (1 ½") SR buckle. 1 ½" tab on end of strap.		
Annex CB, App 7, Att 2, para 7.1	Bind along the edges with 25mm (1") binding tape at 6mm (¼") double topstitch.		
Annex CB, App 7, Att 2, para 7.2	Waist strap reinforced to chest rig with 2 rows of stitching. Placement is as indicated on the pattern.		
	Back Yoke		
Annex CB, App 7, Att 2, para 8.1.2	5 cm x 22 cm (2 x 8.5") hook fastening tape on shoulders.		
Annex CB, App 7, Att 2, para 10.2	3 x 25mm (1") plastic rectangular loops attached along bottom with 25mm (1") (MIL AA55301) webbing.		
Annex CB, App 7, Att 2, para 10.3	50mm x 22 cm (2" x 8.5") loop fastening tape along bottom of yoke back at 3mm (1/8") topstitches.		
Annex CB, App 7, Att 2, para 11.1	50mm x 22 cm (2" x 8.5") hook fastening tape along bottom of yoke liner at 3mm (1/8") topstitches.		
Annex CB, App 7, Att 2, para 12.1	Handle- 50mm (2") MIL 17337 webbing measuring approx. 33" long.		
Annex CB, App 7, Att 2,	Box stitched section of handle measures (7.7cm) 3"		

Spec Corresponding Para Ref	Description	Comments	Accept Y/N
para 12.2			
Annex CB, App 7, Att 2, para 12.3	Handle centred on yoke panel. Width of handle- 16cm (6 ¼"). Ends of handle topstitched to yoke at 3mm (1/8") gauge. Ends of handle hidden under waist webbing. Base of handle only secured with 50mm (2") bar tacks.		
Annex CB, App 7, Att 2, para 13.2	6 rows of 25mm (1") (Mil AA55301) webbing spaced 1" apart , stitched down at 1 ½" intervals to form columns (PALS webbing grid) Webbing reinforced 3X Sewn through both layers of fabric (shell and lining)		
Annex CB, App 7, Att 2, para 13.3	Single horizontal row of webbing, 1" from bottom, sewn down at 1 ½" interval. Stitching over webbing reinforced 3 times.		
Annex CB, App 7, Att 2, para 15.2	15cm (6") wide heavy elastic, doubled, sewn to top of neckline and sides on the back of yoke.		
Annex CB, App 7, Att 2, para 16.1 and 14.1	Plate carrier sewn to yoke back under elastic panel. Edges bound with 25mm (1") binding tape. Yoke edges bound with 25mm (1") binding tape with 6mm (¼") double topstitch.		
Annex CB, App 7, Att 2, para 16.4 -16.5	1 ½" x 11 finished waist strap with buckle (Mil 55301 webbing) with 38mm (1 1/2") female SR buckles		
Annex CB, App 7, Att 2, para 16.6	Waist strap is centred between 1" webbings. 25mm (1") webbing on waist strap stitched down at 1 ½" intervals in line with columns on PALS webbing grid.		

TABLE 2: MLCS Technical Evaluation Matrix

CRITERIA	FACTORS	ASSESSMENT
Seams/Stitches	The webbing only on PALS grid is reinforced with 3 rows of stitching	
	Rows of stitching on PALS grid are straight and in line with stitching over rows of webbing	
	Spacing of vertical lines of stitching within tolerance of 1/8" (intervals of 1 1/2")	
	Thread count: 8-10 stitches per inch (SPI)	
	The ends of seams and stitching and breaks in thread, securely backstitched	
	No loose threads	
	2" bar tack at base of extraction handle	
	1" bar tacks at top corners of mesh map pocket	
	1" bar tack to secure ends of binding tape	
	1/4" double T/S on binding tape	
Binding Tape	The tape is applied on securely so that the material is completely enveloped in the tape.	
Webbing	Waist strap finished with 1 1/2" tab on end	
	Waist strap secured to the waist with double rows of stitching reinforced 3X	
Extraction Handle	Handle is centred on back and ends are positioned according to TDP	
Back Waist Strap	Positioned equal spacing between the two webbings	
Hook/Loop Fastening Tape	Positioned on shoulder tabs, bottom opening on front	

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CRITERIA	FACTORS	ASSESSMENT
	and back yoke and plate carrier	

TABLE 3: Assessment Criteria for the MLCS Technical Evaluation Matrix

3. ISS Generic Pouches Verification Requirements

3.1 The DND will perform the Verification of the ISS Generic Pouches during the System Qualification Phase to ensure that the Contractor's MLCS Design, Construction and Workmanship are compliant with the ISS Generic Pouches TDP provided in Annex CB, Appendix 8.

3.2 The ISS Generic Pouches Verification will be done through a technical verification evaluation performed by a team of DND Subject Matter Experts (SMEs), except for the conformance to specified materials which will be proven by the submission from the Contractor of the appropriate Certificate of Compliance (C of C). The following paragraphs describe the specific verification requirements for each element of the ISS Generic Pouches.

3.3 Conformance to specified material

The Contractor must provide a valid C of C for each of the material elements identified in Table 4 below. Any additional materials used to augment the design must meet or exceed specified materials as defined in Appendix 8.

Serial	Material	MLCS TDP Ref to Requirement
1	Cloth, Coated, High Tenacity Nylon	Annex CB, Appendix 8, para 3.1.1
2	Cloth, Plain, Weave, Nylon, 230g/m2	Annex CB, Appendix 8, para 3.1.2
3	Hook and Loop	Annex CB, Appendix 8, para 3.1.3
4	Binding Tape	Annex CB, Appendix 8, para 3.1.7
5	Webbings	Annex CB, Appendix 8, para 3.1.6
6	Label	Annex CB, Appendix 8, para 3.1.10

TABLE 4: ISS Generic Pouches Material C of C Requirements

3.4 Technical Evaluation – Construction

3.4.1 The DND SME Evaluation team will evaluate the 32 ISS Generic Pouches set samples to be delivered during the System Qualification Phase. 70% of the set samples (22 of the 32 samples) evaluated must pass the technical evaluation.

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3.4.2 A maximum of five (5) construction infractions will be accepted in any of the samples. The infractions are restricted to the quality of the construction.

3.4.3 The Technical Evaluation will be carried out in accordance with Table 5 and their assessment Criteria will be as detailed in Table 6.

Spec Corresponding Para Ref	Description	Comments	Accept Y/N
Annex CB, App 8, Att 1, para 2.1 - 2.3	Adjustable 25mm (1") SR buckle with 25mm (1") MIL AA55301 webbing attached to front of lid with full box stitch.		
Annex CB, App 8, Att 1, para 2.4	SR male buckle attached to pouch front with 25mm (1") MIL AA55301 webbing.		
Annex CB, App 8, Att 1, para 2.7 - 2.8	Hook and loop fastening tape to secure lid to front. Fastening tape topstitched at 1/8" gauge. Fastening tape is centered on lid and front and aligned with each other.		
	PALS Attachment Straps		
Annex CB, App 8, Att 1, para 3.1 – 3.3	25mm (1") MIL 55301 webbing doubled with HDPE plastic sandwiched inside to from strap. Strap extension - 3.2 cm (1/14"). Strap Topstitched at 3mm (1/8") gauge Bottom of strap wrapped in 25mm x 6.35cm (1" x 2 1/2") loop fastening tape		
Annex CB, App 8, Att 1, para 3.4	Strap sewn to back of pouch with full box stitch lined up with first row of webbing		
	Pouch Back- PALS webbing		
Annex CB, App 8, Att 1, para 4.2- 4.3	Rows of webbing place horizontally spaced 1" apart. First row place 1" down from top of back panel. If pouch is 4" wide or greater, vertical rows of stitching, no more than 2" wide shall be included.		
Annex CB, App 8, Att 1, para 4.5	25mm (1") plastic loop with 25mm (1") MIL 55301 webbing strap aligned in between the attachment straps sewn with an FBS (full box stitch).		
Annex CB, App 8, Att 1, para 5.1	Edges bound with 19mm (3/4") binding tape at 5mm (3/16") double topstitch.		

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Spec Corresponding Para Ref	Description	Comments	Accept Y/N
Annex CB, App 8, Att 1, para 5.2	Top corners of pouch backstitched 2 x 6-8 stitches in length or with 13mm (1/2") bar tack.		

TABLE 5: ISS Generic Pouches Technical Evaluation Matrix

CRITERIA	FACTORS	ASSESSMENT
Seams/Stitches	Thread count: 8-10 stitches per inch (SPI)	
	The ends of seams and stitching and breaks in thread, securely backstitched	
	No loose threads	
	3/16" dbl T/S on binding tape	
	Reinforcement of pouch corners with sufficient backstitching, 4-5 stitches min.	
	T/S tape fastener at 1/8" gauge around perimeter	
Binding Tape	The tape is applied on securely so that the material is completely enveloped in the tape.	
Webbing strap with buckle	Application of webbing straps with full box stitches as indicated in the TDP	
	End of webbing strap finished in accordance with TDP Assembly Instructions (Table II- General Sewing Instructions)	
Attachment Straps	Constructed in accordance with TDP (Assembly Manual: Figures 1 and 2; the length in accordance	

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CRITERIA	FACTORS	ASSESSMENT
	with table 1)	
Pouch Back	Construction of PALS webbing on back of pouch in accordance with TDP (Assembly manual: Figure III & IV and para 4.0)	
	Test construction of back webbing and fasteners by attaching to MLCS chest rig. If this area is constructed correctly than the pouch straps should be threaded through the chest rig PALS webbing and the pouches for a secure fit that is not too loose or too difficult to secure/ thread.	

TABLE 6: Assessment Criteria for the ISS Generic Pouches Technical Evaluation Matrix

3.5 Design Deviation: Deviations to the pouch design to accommodate the integration of the Integrated Soldier System (ISS) suite will be accepted provided that the construction and the workmanship do not impede the attachment of the ISS MLCS Pouches to the MLCS Platform. Those design changes must be documented in an updated TDP following approval of an ECP by DND which document those changes

4. MLCS Platform Pre-Production Phase Quality Control Requirements

4.1 The DND will perform the Verification of the MLCS Platform during the Production Phase to ensure that the Contractor's MLCS Design, Construction and Workmanship are compliant with the MLCS TDP provided in Annex CB, Appendix 7 including any changes approved by DND through a formal ECP during the System Qualification Phase.

4.2 The MLCS Verification will be done through a technical verification performed by a team of DND Subject Matter Experts (SMEs), except for the conformance to specified materials which will be proven by the submission from the Contractor of a proof of full compliance based on third party testing evaluation for all items as identified in Table 7 below. Third party test results will be evaluated by DND SME for textiles. The following paragraphs describe the specific verification requirements for each element of the MLCS.

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4.3 Conformance to specified material

4.3.1 Tests and test results must be provided on each textile component as identified in Table 7 below before the material is delivered to Canada or put into garment / end item production. Test results as specified in Table 7 below must also be submitted before the material is put into production when there is any change in the source of supply for the material(s). DND written approval is required prior to using any material from a new supplier.

4.3.2 Unless otherwise specified, all tests and test methods must be in accordance with the specified requirements. All tests specimens must be taken from the same sample of cloth. All testing must be conducted by an accredited independent laboratory familiar with textile testing. Testing carried out by university textile testing laboratories will also be acceptable. Should a non-accredited laboratory be required for specific tests, approval must be sought and received in writing from the TA in advance.

4.3.3 Although reporting of test results for all properties is not required for some textile components at a certain stage, the requirements must be met in accordance with the applicable specification at all stage of production. The government of Canada reserves the right to carry out testing of any specified property in order to confirm the compliance of the fabric with the applicable specification in its entirety.

4.3.4 When a fabric sample is required, the sample must be clearly labelled and traceable to the applicable production lots. The bidder and/or contractor must be able to provide the QA documentation to assure that the test results were obtained on fabric from the same production as the submitted sample.

4.3.5 The fabric samples and test results submitted at pre-production must be from the production lot that is intended for use in this current contract. The pre-production samples must be representative of the finished product in all respects.

4.3.6 All of the pre-production and production test results must be submitted through the DND Quality Assurance Representative (DNQAR) and in turn forwarded to the Technical Authority for approval

4.3.7 Any additional materials used to augment the design will be required to meet or exceed specified materials.

Serial	Material	MLCS TDP Ref to Requirement	Testing Requirements
1	Cloth, Coated, High Tenacity Nylon	Annex CB, Appendix 7, para 3.4.1	Full testing at the start of production to prove compliance to requirement specification including:

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Serial	Material	MLCS TDP Ref to Requirement	Testing Requirements
			- Colour as received and after 5 washes - IRR as received and after 5 washes Two (2) meters full width fabric sample
2	Cloth, Plain, Weave, Nylon, 230g/m2	Annex CB, Appendix 7, para 3.4.2	Full testing at the start of production to prove compliance to requirement specification. Two (2) meters full width fabric sample.
3	Mesh, 100% Polyester Warp	Annex CB, Appendix 7, para 3.4.3	Full testing at the start of production to prove compliance to requirement specification. Two (2) meters full width fabric sample.
4	Hook and Loop	Annex CB, Appendix 7, para 3.4.4	Full testing to prove compliance to requirement specification. One (1) meter sample
5	Binding Tape	Annex CB, Appendix 7, para 3.4.5	Certificate of Compliance One (1) meter sample
6	Webbings	Annex CB, Appendix 7, para 3.4.6 and 3.4.7	Full testing to prove compliance to requirement specification. One (1) meter sample
7	Label	Annex CB, Appendix 7, para 3.4.12	Full testing at the start of production to prove compliance to requirement specification

TABLE 7: MLCS Material Testing Requirements

4.4 Technical Evaluation – Workmanship and Construction

4.4.1 The DND SME Evaluation team will evaluate all the MLCS pre-production samples. 100% of the samples evaluated must pass the technical evaluation and all of the evaluator observations must be resolved before production starts. The number of pre-production samples to be evaluated must be agreed between DND and the Contractor. The number of pre-production items to be evaluated must be 1 as a minimum.

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4.4.2 A maximum of five (5) construction infractions will be accepted in any of the samples. The infractions are restricted to the quality of the construction.

4.4.3 The Technical Evaluation will be carried out in accordance with Table 2 and their assessment Criteria will be as detailed in Table 3 in section 2 above.

4.4.4 Should the pre-production sample fail the evaluation, a second set of pre-production samples must be submitted within 15 days. This cycle will be repeated until 100% of the pre-production samples pass the technical evaluation.

5. ISS Generic Pouches Pre-Production Phase Quality Control Requirements

5.1 The DND will perform the Verification of the ISS Generic Pouches during the Pre-production Phase to ensure that the Contractor's MLCS Design, Construction and Workmanship are compliant with the ISS Generic Pouches TDP provided in Annex CB, Appendix 8.

5.2 The ISS Generic Pouches Verification will be done through a technical evaluation performed by a team of DND Subject Matter Experts (SMEs), except for the conformance to specified materials which will be proven by the submission from the Contractor of a proof of full compliance based on third party testing evaluation for all items as identified in Table 8 below. Third party test results will be evaluated by DND SME for textiles. The following paragraphs describe the specific verification requirements for each element of the ISS Generic Pouches.

5.3 Conformance to specified material

5.3.1 Tests and test results must be provided on each textile component as identified in Table 7 below before the material is delivered to Canada or put into garment / end item production. Test results as specified in Table 7 below must also be submitted before the material is put into production when there is any change in the source of supply for the material(s). DND written approval is required prior to using any material from a new supplier.

5.3.2 Unless otherwise specified, all tests and test methods must be in accordance with the specified requirements. All tests specimens must be taken from the same sample of cloth. All testing must be conducted by an accredited independent laboratory familiar with textile testing. Testing carried out by university textile testing laboratories will also be acceptable. Should a non-accredited laboratory be required for specific tests, approval must be sought and received in writing from the TA in advance.

5.3.3 Although reporting of test results for all properties is not required for some textile components at a certain stage, the requirements must be met in accordance with the applicable specification at all stage of production. The government of Canada reserves the right to carry out testing of any specified property in order to confirm the compliance of the fabric with the applicable specification in its entirety.

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5.3.4 When a fabric sample is required, the sample must be clearly labelled and traceable to the applicable production lots. The bidder and/or contractor must be able to provide the QA documentation to assure the fact that the test results were obtained on fabric from the same production as the submitted sample.

5.3.5 The fabric samples and test results submitted at pre-production must be from the production lot that is intended for use in this current contract. The pre-production samples must be representative of the finished product in all respects.

5.3.6 All of the production test results must be submitted through the DND Quality Assurance Representative (DNDQAR) and in turn forwarded to the Technical Authority for approval

5.3.7 Any additional materials used to augment the design will be required to meet or exceed specified materials.

Serial	Material	MLCS TDP Ref to Requirement	Testing Requirements
1	Cloth, Coated, High Tenacity Nylon	Annex CB, Appendix 8, para 3.1.1	Full testing at the start of production to prove compliance to requirement specification including: - Colour as received and after 5 washes - IRR as received and after 5 washes Two (2) meters full width fabric sample
2	Cloth, Plain, Weave, Nylon, 230g/m2	Annex CB, Appendix 8, para 3.1.2	Full testing at the start of production to prove compliance to requirement specification. Two (2) meters full width fabric sample.
3	Hook and Loop	Annex CB, Appendix 8, para 3.1.3	Full testing to prove compliance to requirement specification. Test results for: - Peel Strength - Fray Resistance for General Purpose and C of C for flame retardant finish.
4	Binding Tape	Annex CB, Appendix 8, para 3.1.7	Certificate of Compliance

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Serial	Material	MLCS TDP Ref to Requirement	Testing Requirements
			One (1) meter sample
5	Webbings	Annex CB, Appendix 8, para 3.1.6	Full testing to prove compliance to requirement specification. One (1) meter sample
6	Label	Annex CB, Appendix 8, para 3.1.9	Full testing at the start of production to prove compliance to requirement specification

TABLE 8: ISS Generic Pouches Material Testing Requirements

5.4 Technical Evaluation – Construction

5.4.1 The DND SME Evaluation team will evaluate all the Pre-production ISS Generic Pouches set samples. 100% of the samples evaluated must pass the technical evaluation and all of the evaluator observations must be resolved before production starts. The number of pre-production samples to be evaluated must be agreed between DND and the Contractor. The number of pre-production items to be evaluated must be 1 as a minimum.

5.4.2 A maximum of five (5) construction infractions will be accepted in any of the samples. The infractions are restricted to the quality of the construction.

5.4.3 The Technical Evaluation will be carried out in accordance with Table 5 and their assessment Criteria will be as detailed in Table 6 above in section 3.

5.4.4 Should the pre-production sample fail the evaluation, a second set of pre-production samples must be submitted within 15 days. This cycle will be repeated until 100% of the pre-production samples pass the technical evaluation.

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ANNEX CC TO VOLUME 2

CONTRACT DATA REQUIREMENTS LIST (CDRL) DATA ITEMS DESCRIPTION (DID)

FOR THE

ACQUISITION

OF THE

INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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1	1 SCOPE		
1.0-1	This Annex specifies the Deliverable Data required under the Acquisition Statement of Work (SOW) and the delivery of the data items.		
1.0-2	The Contract Data Requirements List (CDRL) specifies the Deliverable Data required. The Data Item Descriptions (DIDs) define data content, preparation instructions, format and intended use of the data.		
1.0-3	CDRLs are included at Appendix 1 and DIDs are included at Appendix 2 to this Annex.		
1.0-4	This Annex provides information on the CDRL layout in section 2 and DID layout in section 3.		
2	2 CONTRACT DATA REQUIREMENTS LIST (CDRL)		
2.1	2.1 Precedence of CDRL		
2.1.0-1	The requirements stated in Blocks 8 through 15 of the CDRL take precedence over any such requirements that may have been identified in the DIDs. Completion guidance for the fields in the CDRL form is shown below.		
2.2	2.2 CDRL Layout		
2.2.0-1	The following describes the layout and interpretation of the CDRL blocks.		
2.2.0-2	BLOCK	Title	Completion Guidance
	A	Annex Description	Enter the annex (and appendix, if applicable) designation with respect to the RFP/Contract
	B	Contract/ RFP Number	Enter the RFP number or other appropriate designator. Upon contract award, amend to read the contract number
	C	SOW Identifier	Enter the SOW identifier if the RFP has several SOWs, otherwise leave blank
	D	Data Category	Enter the category of the data for which the CDRL is being prepared.
	E	Contractor	On contract award, enter the contractor's name and the contractor's NATO Supply Code for Manufacturing
	1	Item Number	Enter a sequential AA-Xyy formatted number to uniquely identify the individual CDRL. (See Para 2.2.1)

	2	Title	Enter the title of the DID being referred to in this CDRL
	3	Subtitle	If the title requires further identification, enter a subtitle
	4	Data Item Number	Enter the DID number and title to which this CDRL refers
	5	Reference	Enter the applicable document down to the specific paragraph number which will assist in identifying the work effort associated with this item
	6	Technical Office	Enter the Technical Authority responsible for defining the requirement and ensuring the adequacy of the delivery data or item
	7	Inspection	Indicate the requirement for Inspection and Acceptance of the data or item using the following codes: · SS - Source, Source · DD - Destination, Destination · SD - Source, Destination · DS - Destination, Source The code refers to the location(s) where the Inspection and Acceptance are performed. Enter the appropriate code if applicable. If not, enter N/A.
	8	Approval Code	Enter the Approval Code required. (See Para 2.2.2)
	9	Review Period	Indicate timeframe in which DND reviews will take place (i.e. 5 Days, 2 weeks)
	10	Frequency	Indicate the frequency of delivery of the data. (See Para 2.2.3)
	11	As of Date	If the data or item is submitted only once insert the date that it is due. If constrained by a specific event or milestone, enter the constraint. If not applicable, leave blank
12	Date of First Submission	If multiple submissions are required, enter the date of the initial submission. If constrained by a specific event or milestone, enter the constraint. Leave blank for data or items submitted/delivered only once	
13	Date of Subsequent Submission	If the data or items are submitted more than once, enter the date(s) of the subsequent submission(s). If constrained by a specific event or milestone, enter the constraint (e.g. 15 days after the meeting)	
14	Remarks	Provide additional or clarifying information.	

	15	Distribution, Addressees	For data deliverables, enter the addressees in the Addressee Column. Mark an X in the Draft and Final Columns for each copy required by an addressee. Enter the number of copies and media type in the Media Column, Leave blank for equipment deliverable and insert the distribution in the Block 14 Remarks. (See Para 2.2.4)
	16	Prepared By	The Technical Authority who created this CDRL.
	17	Preparation Date	The date on which the CDRL was prepared.
	18	Approved By	The Canada Approval Authority who authorized the CDRL.
	19	Approval Date	The date on which the CDRL was approved.
2.2.1	2.2.1 Block 1		
2.2.1.0-1	Item Number denotes the sequential number assigned to the CDRL item. Some CDRL numbers may be "Reserved", "Deleted" or "Not allocated". The following identification numbering convention used is:		
2.2.1.0-1.0-1	AA-Xyy		
2.2.1.0-1.0-2	Where:		
2.2.1.0-1.0-2.0-1	AA would be the general area of interest:		
2.2.1.0-1.0-2.0-1.0-1	PM - Project Management		
2.2.1.0-1.0-2.0-1.0-2	SE - System Engineering		
2.2.1.0-1.0-2.0-1.0-3	CM - Configuration Management		
2.2.1.0-1.0-2.0-1.0-4	LS - Logistic Support		
2.2.1.0-1.0-2.0-1.0-5	DM - Data Management		
2.2.1.0-1.0-2.0-1.0-6	QA - Quality Assurance		
2.2.1.0-1.0-2.0-2	X would be the Contract reference:		
2.2.1.0-1.0-2.0-2.0-1	0 - Acquisition - Definition		
2.2.1.0-1.0-2.0-2.0-2	1 - Optimized Weapons System Support (OWSS)		
2.2.1.0-1.0-2.0-3	The yy is a two digit sequential number following the X prefix.		
2.2.2	2.2.2 Block 8		

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2.2.2.0-1	Approval Code denotes whether the data is to be submitted for approval, review or information. The following codes are used:
2.2.2.0-1.0-1	A Approval
2.2.2.0-1.0-1.0-1	The data listed as being deliverable must be submitted for Contract Authority approval. The Contractor must obtain this approval before using the data.
2.2.2.0-1.0-1.0-2	The Contractor must amend previously approved deliverable data within 10 working days from an agreement to amend the deliverable, and must obtain further Contract Authority approval before use.
2.2.2.0-1.0-2	R Review
2.2.2.0-1.0-2.0-1	The deliverable will be reviewed by Canada for acceptability of format, clarity and completeness. Once accepted, the data must be considered for information only.
2.2.2.0-1.0-3	I Information
2.2.2.0-1.0-3.0-1	The data is for information purposes only.
2.2.3	2.2.3 Block 10
2.2.3.0-1	Frequency denotes the frequency of delivery of the data (to be read in conjunction with Block 13). Frequencies may be expressed using the following codes:
2.2.3.0-1.0-1	ANNLY Annually
2.2.3.0-1.0-2	ASREQ As required
2.2.3.0-1.0-3	MNTHY Monthly
2.2.3.0-1.0-4	ONE/R One time plus revisions
2.2.4	2.2.4 Block 15
2.2.4.0-1	Distribution Addressees, Media and Quantity.
2.2.4.0-2	The following illustrate the designations that may be used for distribution addressees:
2.2.4.0-2.0-1	CA Contracting Authority
2.2.4.0-2.0-2	TA Technical Authority
2.2.4.0-2.0-3	OPI Office of Primary Interest

2.2.4.0-3	For Media and the number of copies in which the data item is to be delivered, the following codes may be used:		
2.2.4.0-3.0-1	x HC	Hard Copy	
2.2.4.0-3.0-2	x SC	Soft Copy	
2.2.4.0-3.0-3	EIE	Data is to be accessible through Electronic Information Environment (EIE) for all SC requirements with delivery notification to all addresses.	
2.2.4.0-3.0-4	The "x" represents the number of copies to be delivered.		
3	3 DATA ITEM DESCRIPTION (DID)		
3.1	3.1 DID Layout		
3.1.0-1	The Data Item Description is an information sheet that is used to define data deliverables that are called up in a SOW or specification (attached to the RFP) and that will ultimately be included in the resultant contract. Completion guidance for the fields in the form is shown below.		
3.1.0-2	BLOCK	Title	Completion Guidance
	1	Title	A short descriptive name that identifies its nature and distinguishes it from any other DID
	2	Data Item Number	A number assigned by the originator that uniquely identifies the DID for the originator’s use. For DID numbering convention see Para 3.2
	3	Description/ Purpose	A concise description (abstract) of the data content requirements or the item for product deliverables that identifies the purpose for which the DID is required
	4	Approval Date	Date that the DID was approved by the originator
	5	Office of Primary Interest (OPI)	The directorate or position responsible for the DID
	6	GIDEP Applicable	Insert an “X” if Government Industry Data Exchange Program (GIDEP) applicable, otherwise leave blank
	7	Application/ Interrelationship	Refers to applicable standards called up in the DID.
	8	Originator	Position title of the originator of the DID
	9	Applicable Forms	Identify any forms needed to prepare the data (i.e. Provisional Parts

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			Breakdown, Material Safety Data Sheet)
	10	Preparation Instructions	Describe the data content and format that the contractor must satisfy. If used for a product deliverable, describe the product
3.2	3.2 Block 2		
3.2.0-1	Identification Number		
3.2.0-2	Denotes the sequential alphanumeric number assigned to the DID. Some DI Numbers may be "reserved", "deleted" or not "allocated". The following identification numbering conventions used is:		
3.2.0-2.0-1	AA-Xyy		
3.2.0-2.0-2	Where:		
3.2.0-2.0-2.0-1	AA would be the general area of interest:		
3.2.0-2.0-2.0-1.0-1	PM - Project Management		
3.2.0-2.0-2.0-1.0-2	SE - System Engineering		
3.2.0-2.0-2.0-1.0-3	CM - Configuration Management		
3.2.0-2.0-2.0-1.0-4	LS - Logistic Support		
3.2.0-2.0-2.0-1.0-5	DM - Data Management		
3.2.0-2.0-2.0-1.0-6	QA - Quality Assurance		
3.2.0-2.0-2.0-2	X would be the Contract reference:		
3.2.0-2.0-2.0-2.0-1	0 - Acquisition - Definition		
3.2.0-2.0-2.0-2.0-2	1 - Optimized Weapons System Support (OWSS)		
3.2.0-2.0-2.0-3	The yy is a two digit sequential number following the X prefix.		

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APPENDIX 1 TO ANNEX CC TO VOLUME 2

CONTRACT DATA REQUIREMENTS LIST (CDRL) FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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1 CDRL PM-001 Project Management Plan (PMP)

CONTRACT DATA REQUIREMENTS LIST

A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number W4x-09ISSP/A																								
C. SOW Identifier ISS ASOW	D. Data Category PM		E. Contractor																							
1. Item Number PM-001	2. Title Project Management Plan (PMP)		3. Subtitle																							
4. Data Item Number DID PM-001 Project Management Plan (PMP)	5. Reference Ann. CA to Vol. 2 (para. 3.1.4.0-2) Ann. CA to Vol. 2 (para. 3.2.2.0-1) Ann. CA to Vol. 2 (para. 3.2.2.1.0-1) Ann. CA to Vol. 2 (para. 3.2.2.1.2.0-1) Ann. CA to Vol. 2 (para. 3.2.9.2.0-2.0-2) Ann. CA to Vol. 2 (para. 3.3.3.0-1) Ann. CA to Vol. 2 (para. 3.3.3.1.0-2) Ann. CA to Vol. 2 (para. 4.2.0-1) Ann. CA to Vol. 2 (para. 4.3.3.0-1) Ann. CA to Vol. 2 (para. 4.7.1.0-1) Ann. CA to Vol. 2 (para. 5.2.5.0-4) Ann. CA to Vol. 2 (para. 3.1.2.0-1) Ann. CA to Vol. 2 (para. 3.3.2.0-4.0-1) Ann. CA to Vol. 2 (para. 6.3.0-4) App. 1 To Ann. CA To Vol. 2 (para. 2.5.0-1)		6. Technical Office PMO ISSP PCCO																							
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency ONE/R																							
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																							
14. Remarks Block 12. The draft PMP must be delivered to DND 10 WD after the System Qualification Phase kick-off meeting. Block 13. The Contractor must deliver the final version of the PMP no later than 2 MACA. Further updates (to reflect changes to the project) must be reviewed at a PRM; such		15. Distribution																								
		<table border="1"><thead><tr><th rowspan="2">Addressee</th><th colspan="3">Copies</th></tr><tr><th>Draft</th><th>Final</th><th>Media</th></tr></thead><tbody><tr><td>DND/TA</td><td>x</td><td></td><td>1 SC</td></tr><tr><td>DND/TA</td><td></td><td>x</td><td>1 SC 1 HC</td></tr><tr><td>Contracting Authority</td><td>x</td><td></td><td>1 SC</td></tr><tr><td>Contracting Authority</td><td></td><td>x</td><td>1 SC 1 HC</td></tr></tbody></table>		Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
		Addressee	Copies																							
			Draft	Final	Media																					
		DND/TA	x		1 SC																					
DND/TA		x	1 SC 1 HC																							
Contracting Authority	x		1 SC																							
Contracting Authority		x	1 SC 1 HC																							

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proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.			
16. Prepared By PMO ISSP PCCO	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011

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2 CDRL PM-002 Quality Assurance Plan (QAP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW		D. Data Category PM		E. Contractor																							
1. Item Number PM-002		2. Title Quality Assurance Plan (QAP)		3. Subtitle																							
4. Data Item Number DID PM-002 Quality Assurance Plan (QAP)		5. Reference Ann. CA to Vol. 2 (para. 3.1.6.0-1) Ann. CA to Vol. 2 (para. 3.3.4.0-3) Ann. CA to Vol. 2 (para. 4.7.1.0-1) Ann. CA to Vol. 2 (para. 8.1.0-6) Ann. CA to Vol. 2 (para. 3.1.2.0-4) Ann. CA to Vol. 2 (para. 3.3.3.0-2) Ann. CA to Vol. 2 (para. 3.3.2.0-4.0-3) Ann. CA to Vol. 2 (para. 3.3.6.2-10) App. 1 To Ann. CA To Vol. 2 (para. 2.5.0-3) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-10) App. 1 To Ann. CA To Vol. 2 (para. 3.4.4.0-2.0-7) App. 1 To Ann. CA To Vol. 2 (para. 3.4.2.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.4.3.0-3) App. 1 To Ann. CA To Vol. 2 (para. 3.4.5.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.4.6.0-3.0-2)		6. Technical Office PMO ISSP PCCO																							
7. Inspection DD		8. Approval Code R		9. Review Period 10 WD																							
				10. Frequency ONE/R																							
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																							
14. Remarks Block 12. Draft QAP must be delivered to the TA 10 WD after the System Qualification Phase kick-off meeting. Block 13. The Contractor must deliver the final version of the QAP no later than 2		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
Addressee	Copies																										
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DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

MACA. Further updates (to reflect changes to the project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.			
16. Prepared By PMO ISSP PCCO	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011

RFP - N° de la DP
W8476-112965/B

Amendment No. - N° de la modif.

Buyer ID - Id de l'acheteur
004RA

Client Reference No. - N° de réf. du client
W8476-112965

File No. - N° du dossier
004RA W8476-112965

Volume 2, Annex CC, Appendix 1

3 CDRL PM-003 Master Project Schedule (MPS) and Work Breakdown Structure (WBS)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category PM		E. Contractor																								
1. Item Number PM-003	2. Title Master Project Schedule (MPS) and Work Breakdown Structure (WBS)		3. Subtitle																								
4. Data Item Number DID PM-003 Master Project Schedule (MPS) and Work Breakdown Structure (WBS)	5. Reference Ann. CA to Vol. 2 (para. 4.2.1.0-1) Ann. CA to Vol. 2 (para. 4.2.1.0-4) Ann. CA to Vol. 2 (para. 3.1.2.0-6) Ann. CA to Vol. 2 (para. 3.2.2.0-2) Ann. CA to Vol. 2 (para. 3.3.2.0-4.0-5) App. 1 To Ann. CA To Vol. 2 (para. 2.1.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.1.3.0-6) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-9) App. 1 To Ann. CA To Vol. 2 (para. 3.2.6.0-3.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-9) App. 1 To Ann. CA To Vol. 2 (para. 3.4.3.0-5)		6. Technical Office PMO ISSP PCCO																								
7. Inspection DD	8. Approval Code R	9. Review Period 5 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The detailed MPS and WBS must be delivered to DND 5 WD before the System Qualification Phase kick-off meeting. DND's comments on the initial submission will be provided for review/ discussion at the System Qualification Phase kick-off meeting. Block 13. A MPS update must be delivered no later that 5 WD after the end of each		15. Distribution <table border="1"><thead><tr><th rowspan="2">Addressee</th><th colspan="3">Copies</th></tr><tr><th>Draft</th><th>Final</th><th>Media</th></tr></thead><tbody><tr><td>DND/TA</td><td>x</td><td></td><td>1 SC</td></tr><tr><td>DND/TA</td><td></td><td>x</td><td>1 SC</td></tr><tr><td>Contracting Authority</td><td>x</td><td></td><td>1 SC 1 HC</td></tr><tr><td>Contracting Authority</td><td></td><td>x</td><td>1 SC 1 HC</td></tr></tbody></table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC 1 HC	Contracting Authority		x	1 SC 1 HC
Addressee	Copies																										
	Draft	Final	Media																								
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<p>calendar month following the System Qualification Phase kick off meeting and must coincide with the submission of the Progress Report (CDRL PM-004)</p> <p>MPS Baselines. The initial schedule baseline must be established based on the schedule agreed to at the System Qualification Phase kick-off meeting. All variances to schedule must be against that schedule, until such times as the schedule is re-baselined with DND approval.</p> <p>Changes to the MPS Baseline (to reflect changes to the project) must be reviewed at a PRM; such proposed changes must be provided to DND at least 10 WD before the PRM where they will be reviewed.</p>			
16. Prepared By PMO ISSP PCCO	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

4 CDRL PM-004 Progress Report

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number W4x-09ISSP/A																								
C. SOW Identifier ISS ASOW		D. Data Category PM		E. Contractor																							
1. Item Number PM-004		2. Title Progress Report		3. Subtitle																							
4. Data Item Number DID PM-004 Progress Report		5. Reference Ann. CA to Vol. 2 (para. 4.3.2.1.0-1) Ann. CA to Vol. 2 (para. 3.2.2.0-4) Ann. CA to Vol. 2 (para. 3.3.3.0-4)		6. Technical Office PMO ISSP PCCO																							
7. Inspection DD		8. Approval Code R		9. Review Period 5 WD																							
				10. Frequency MNTY																							
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																							
14. Remarks <p>Block 12. The first Progress Report must be submitted at the System Qualification Phase kick-off meeting and must cover all progress since contract award.</p> <p>Block 13. The Progress Report must be delivered no later than 5 WD after the end of each calendar month following the System Qualification Phase kick-off meeting.</p> <p>All Progress Reports must cover the period from the last report up to the end of the month being reported.</p> <p>The last Progress Report must cover the month in which the last Equipment or ILS element is delivered.</p>		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA				DND/TA		x	1 SC	Contracting Authority				Contracting Authority		x	1 SC 1 HC
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Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

5 CDRL PM-005 Meeting Agenda

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW		D. Data Category PM		E. Contractor																								
1. Item Number PM-005		2. Title Meeting Agenda		3. Subtitle																								
4. Data Item Number DID PM-005 Meeting Agenda		5. Reference Ann. CA to Vol. 2 (para. 3.2.2.1.0-2) Ann. CA to Vol. 2 (para. 3.2.9.2.0-2.0-1) Ann. CA to Vol. 2 (para. 4.3.1.1.0-7) Ann. CA to Vol. 2 (para. 5.2.5.0-3) Ann. CA to Vol. 2 (para. 6.3.0-3) App. 1 To Ann. CA To Vol. 2 (para. 2.2.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.1.3.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.4.3.0-1)		6. Technical Office PMO ISSP PCCO																								
7. Inspection DD		8. Approval Code A		9. Review Period 2 WD																								
10. Frequency ASREQ																												
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission																								
14. Remarks Block 12. The Meeting Agenda must be submitted for review no later than 5 WD prior to each meeting.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC</td> </tr> </tbody> </table>				Addressee	Copies			Draft	Final	Media	DND/TA				DND/TA		x	1 SC	Contracting Authority				Contracting Authority		x	1 SC
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DND/TA		x	1 SC																									
Contracting Authority																												
Contracting Authority		x	1 SC																									
16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																								
19. Approval Date June 2011																												

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

6 CDRL PM-006 Meeting Minutes

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category PM		E. Contractor																								
1. Item Number PM-006	2. Title Meeting Minutes		3. Subtitle																								
4. Data Item Number DID PM-006 Meeting Minutes	5. Reference Ann. CA to Vol. 2 (para. 3.2.2.1.0-3) Ann. CA to Vol. 2 (para. 3.2.9.2.0-2.0-3) Ann. CA to Vol. 2 (para. 4.3.1.1.0-8) Ann. CA to Vol. 2 (para. 5.2.5.0-5) Ann. CA to Vol. 2 (para. 6.3.0-5) App. 1 To Ann. CA To Vol. 2 (para. 2.3.2.0-5) App. 1 To Ann. CA To Vol. 2 (para. 3.1.5.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.5.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.6.0-3.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-8) App. 1 To Ann. CA To Vol. 2 (para. 3.3.5.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.4.5.0-1)		6. Technical Office PMO ISSP PCCO																								
7. Inspection DD	8. Approval Code A	9. Review Period See Block 14	10. Frequency ASREQ																								
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission																								
14. Remarks Block 9 and 12. Minutes of the meetings must be completed and signed-off by the Contractor and the TA by the end of the meeting.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA				DND/TA		x	1 SC 1 HC	Contracting Authority				Contracting Authority		x	1 SC 1 HC
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16. Prepared By	17. Preparation Date	18. Approved By	19. Approval Date																								

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

PMO ISSP PCCO	June 2011	PM ISSP	June 2011
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RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

7 CDRL PM-007 Issue-Action Item Log (IAIL)

CONTRACT DATA REQUIREMENTS LIST		
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A
C. SOW Identifier ISS ASOW	D. Data Category PM	E. Contractor
1. Item Number PM-007	2. Title Issue-Action Item Log (IAIL)	3. Subtitle
4. Data Item Number DID PM-007 Issue-Action Item Log (IAIL)	5. Reference Ann. CA to Vol. 2 (para. 3.2.9.2.0-2.0-4) Ann. CA to Vol. 2 (para. 4.3.1.1.0-9) Ann. CA to Vol. 2 (para. 4.3.2.0-2) Ann. CA to Vol. 2 (para. 5.2.5.0-6) Ann. CA to Vol. 2 (para. 6.3.0-6) Ann. CA to Vol. 2 (para. 3.2.2.1.0-4) App. 1 To Ann. CA To Vol. 2 (para. 2.3.2.0-1) App. 1 To Ann. CA To Vol. 2 (para. 2.4.0-2.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.1.5.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-8) App. 1 To Ann. CA To Vol. 2 (para. 3.2.5.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.2.6.0-3.0-3) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-11) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-13) App. 1 To Ann. CA To Vol. 2 (para. 3.3.4.0-2.0-3) App. 1 To Ann. CA To Vol. 2 (para. 3.3.5.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.3.6.0-2.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.4.3.0-6) App. 1 To Ann. CA To Vol. 2 (para. 3.4.5.0-2)	6. Technical Office PMO ISSP PCCO

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

7. Inspection DD	8. Approval Code A	9. Review Period See Block 14	10. Frequency ASREQ																							
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																							
14. Remarks <p>Block 9 and 12. A draft Issue-Action Item Log, with issues and actions identified to-date, must be delivered to the TA, 5 WD after the System Qualification Phase kick-off meeting. TA comments on the draft Issue-Action Log will be provided within 5 WD.</p> <p>Block 13. The Contractor must update the Issue-Action Item Log based on the Issues-Actions resulting from meetings, reviews, working groups, technical interchange meetings, and correspondence between Canada and the Contractor.</p> <p>Updates to the Issue-Action Item Log will be done as mutually agreed between Canada and the Contractor.</p>		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC</td> </tr> </tbody> </table>		Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC
		Addressee	Copies																							
Draft	Final		Media																							
DND/TA	x		1 SC																							
DND/TA		x	1 SC																							
Contracting Authority	x		1 SC																							
Contracting Authority		x	1 SC																							
16. Prepared By PMO ISSP PCCO	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																							

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

8 CDRL PM-008 Environmental Health Safety Assessment (EHSA)

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW		D. Data Category PM		E. Contractor																								
1. Item Number PM-008		2. Title Environmental Health Safety Assessment (EHSA)		3. Subtitle																								
4. Data Item Number DID PM-008 Environmental, Health and Safety Assessment (EHSA)		5. Reference Ann. CA to Vol. 2 (para. 3.2.4.0-2) Ann. CA to Vol. 2 (para. 4.5.9.0-1) Ann. CA to Vol. 2 (para. 5.3.5.6.0-11.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.3.2.0-6)		6. Technical Office PMO ISSP PCCO																								
7. Inspection DD		8. Approval Code R		9. Review Period 15 WD																								
10. Frequency ONE/R																												
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission																								
14. Remarks Block 12. The draft EHSA must be submitted for review 30 WD before FQR.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>				Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
Addressee	Copies																											
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Contracting Authority	x		1 SC																									
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16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																								
19. Approval Date June 2011																												

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

9 CDRL PM-009 Intellectual Property (IP) Lists

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW		D. Data Category PM		E. Contractor																								
1. Item Number PM-009		2. Title Intellectual Property (IP) Lists		3. Subtitle																								
4. Data Item Number DID PM-009 Intellectual Property (IP) Lists		5. Reference Ann. CA to Vol. 2 (para. 4.4.0-1)		6. Technical Office PMO ISSP PCCO																								
7. Inspection DD		8. Approval Code R		9. Review Period 10 WD																								
10. Frequency ONE/R																												
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission																								
14. Remarks Block 12. A draft Intellectual Property Lists must be delivered to the TA 10 WD before FQR.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>				Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
Addressee	Copies																											
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DND/TA		x	1 SC 1 HC																									
Contracting Authority	x		1 SC																									
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16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																								
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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

10 CDRL PM-010 Government Property Report

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW		D. Data Category PM		E. Contractor																								
1. Item Number PM-010		2. Title Government Property Report		3. Subtitle																								
4. Data Item Number DID PM-010 Government Property Report		5. Reference Ann. CA to Vol. 2 (para. 4.8.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-16)		6. Technical Office PMO ISSP PCCO																								
7. Inspection DD		8. Approval Code A		9. Review Period 10 WD																								
				10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The draft Government Property Report must be delivered to the TA 10 WD after the System Qualification Phase kick-off meeting. TA comments on the initial submission will be provided within 10 WD following receipt of the first draft from the Contractor. Block 13. Further updates (to reflect changes to the project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>				Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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DND/TA		x	1 SC 1 HC																									
Contracting Authority	x		1 SC																									
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16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																								
				19. Approval Date June 2011																								

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

11 CDRL SE-001 System Engineering Management Plan (SEMP)

CONTRACT DATA REQUIREMENTS LIST																									
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																							
C. SOW Identifier ISS ASOW	D. Data Category SE		E. Contractor																						
1. Item Number SE-001	2. Title System Engineering Management Plan (SEMP)		3. Subtitle																						
4. Data Item Number DID SE-001 System Engineering Management Plan (SEMP)	5. Reference Ann. CA to Vol. 2 (para. 3.2.11.1.0-1) Ann. CA to Vol. 2 (para. 5.2.2.0-2) Ann. CA to Vol. 2 (para. 5.3.1.0-2) Ann. CA to Vol. 2 (para. 5.3.2.0-2) Ann. CA to Vol. 2 (para. 5.3.3.0-2) Ann. CA to Vol. 2 (para. 5.3.4.0-4) Ann. CA to Vol. 2 (para. 5.3.5.0-3) Ann. CA to Vol. 2 (para. 5.3.5.2.0-3) Ann. CA to Vol. 2 (para. 5.3.5.2.0-4) Ann. CA to Vol. 2 (para. 3.1.2.0-2) Ann. CA to Vol. 2 (para. 3.2.3.4.0-2) Ann. CA to Vol. 2 (para. 3.2.3.3.0-1.0-1) Ann. CA to Vol. 2 (para. 5.3.5.1.0-2) App. 1 To Ann. CA To Vol. 2 (para. 2.3.0-1) App. 1 To Ann. CA To Vol. 2 (para. 2.5.0-1)		6. Technical Office PMO ISSP SE																						
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency ONE/R																						
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																						
14. Remarks Block 12. The draft SEMP must be delivered to DND 10 WD after the System Qualification Phase kick-off meeting. Block 13. The Contractor must deliver the final version of the SEMP no later than 2 MACA. Further updates (to reflect changes to the		15. Distribution																							
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority	
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Contracting Authority	x		1 SC																						
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project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.			
16. Prepared By PMO ISSP Chief Engineer	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

12 CDRL SE-002 Interface Control Document (ICD)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category SE		E. Contractor																								
1. Item Number SE-002	2. Title Interface Control Document		3. Subtitle																								
4. Data Item Number DID SE-002 Interface Control Document (ICD)	5. Reference Ann. CA to Vol. 2 (para. 3.2.3.2.0-1) Ann. CA to Vol. 2 (para. 3.2.5.0-3) Ann. CA to Vol. 2 (para. 3.2.3.2.0-2)		6. Technical Office PMO ISSP SE																								
7. Inspection DD	8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission 20 WD prior to FCA	13. Date of Subsequent Submission																								
14. Remarks		15. Distribution																									
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Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP Chief Engineer		17. Preparation Date June 2011	18. Approved By PM ISSP																								
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13 CDRL SE-003 Battery System Description

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																								
C. SOW Identifier ISS ASOW		D. Data Category SE		E. Contractor																							
1. Item Number SE-003		2. Title Battery System Description		3. Subtitle																							
4. Data Item Number DID SE-003 Battery System Description		5. Reference Ann. CA to Vol. 2 (para. 3.2.4.0-4)		6. Technical Office PMO ISSP SE																							
7. Inspection DD		8. Approval Code R		9. Review Period 15 WD																							
				10. Frequency ONE/R																							
11. As of Date		12. Date of First Submission No later than 5 MACA		13. Date of Subsequent Submission 10 WD after receipt of TA comments																							
14. Remarks		15. Distribution																									
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DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
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14 CDRL SE-004 Verification and Qualification Plan (VQP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category SE		E. Contractor																								
1. Item Number SE-004	2. Title Verification and Qualification Plan (VQP)		3. Subtitle																								
4. Data Item Number DID SE-004 Verification Qualification Plan (VQP)	5. Reference Ann. CA to Vol. 2 (para. 3.2.8.0-3) Ann. CA to Vol. 2 (para. 3.2.8.1.0-1) Ann. CA to Vol. 2 (para. 3.2.8.1.0-11) Ann. CA to Vol. 2 (para. 5.2.3.0-1) Ann. CA to Vol. 2 (para. 5.3.6.0-2) Ann. CA to Vol. 2 (para. 5.3.6.0-5) Ann. CA to Vol. 2 (para. 5.3.6.2.0-2) Ann. CA to Vol. 2 (para. 3.2.5.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.1.3.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.1.4.0-2.0-6) App. 1 To Ann. CA To Vol. 2 (para. 3.1.5.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.2.2.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-13)		6. Technical Office PMO ISSP SE																								
7. Inspection DD	8. Approval Code A	9. Review Period 10 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The draft VQP must be delivered to DND 10 WD after the System Qualification Phase kick-off meeting. Block 13. The Contractor must deliver the final version of the VQP no later than 2 MACA.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th><th colspan="3">Copies</th></tr> <tr> <th>Draft</th><th>Final</th><th>Media</th></tr> </thead> <tbody> <tr> <td>DND/TA</td><td>x</td><td></td><td>1 SC</td></tr> <tr> <td>DND/TA</td><td></td><td>x</td><td>1 SC 1 HC</td></tr> <tr> <td>Contracting Authority</td><td>x</td><td></td><td>1 SC</td></tr> <tr> <td>Contracting Authority</td><td></td><td>x</td><td>1 SC 1 HC</td></tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
Addressee	Copies																										
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DND/TA	x		1 SC																								
DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
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16. Prepared By	17. Preparation Date	18. Approved By	19. Approval Date																								

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PMO ISSP Chief Engineer	June 2011	PM ISSP	June 2011
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15 CDRL SE-005 Qualification Test Description and Procedures (QTDP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																								
C. SOW Identifier ISS ASOW		D. Data Category SE		E. Contractor																							
1. Item Number SE-005		2. Title Qualification Test Description and Procedures (QTDP)		3. Subtitle																							
4. Data Item Number DID SE-005 Qualification Test Description and Procedures (QTDP)		5. Reference Ann. CA to Vol. 2 (para. 3.2.8.1.0-6) Ann. CA to Vol. 2 (para. 3.2.8.1.0-10) Ann. CA to Vol. 2 (para. 5.3.6.2.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.2.2.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-2)		6. Technical Office PMO ISSP SE																							
7. Inspection DD		8. Approval Code A	9. Review Period 10 WD	10. Frequency ONE/R																							
11. As of Date		12. Date of First Submission 20 WD prior to conduct of test		13. Date of Subsequent Submission 5 WD prior to conduct of test																							
14. Remarks		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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DND/TA		x	1 SC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP Chief Engineer		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

16 CDRL SE-006 Verification Qualification Test Report

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW		D. Data Category SE		E. Contractor																								
1. Item Number SE-006		2. Title Verification Qualification Test Report		3. Subtitle																								
4. Data Item Number DID SE-006 Verification Qualification Test Report		5. Reference Ann. CA to Vol. 2 (para. 3.2.8.1.0-13) Ann. CA to Vol. 2 (para. 5.3.6.1.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.3.4.0-2.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.6.0-2.0-4)		6. Technical Office PMO ISSP SE																								
7. Inspection DD		8. Approval Code A		9. Review Period 10 WD																								
10. Frequency ONE/R																												
11. As of Date		12. Date of First Submission 5 WD after conduct of Verification Qualification Test		13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 13. The contractor must submit a revised version 10 WD after receipt of TA comments. All verification reports are required at least 5 WD prior to TRR.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>				Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
Addressee	Copies																											
	Draft	Final	Media																									
DND/TA	x		1 SC																									
DND/TA		x	1 SC																									
Contracting Authority	x		1 SC																									
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16. Prepared By PMO ISSP Chief Engineer		17. Preparation Date June 2011		18. Approved By PM ISSP																								
19. Approval Date June 2011																												

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17 CDRL SE-007 System Acceptance Test Plan (SATP).

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category SE		E. Contractor																								
1. Item Number SE-007	2. Title System Acceptance Test Plan (SATP)		3. Subtitle																								
4. Data Item Number DID SE-007 System Acceptance Test Plan (SATP)	5. Reference Ann. CA to Vol. 2 (para. 3.2.9.1.0-1) Ann. CA to Vol. 2 (para. 3.2.10.1.0-1) Ann. CA to Vol. 2 (para. 5.2.4.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.2.0-5) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-3) App. 1 To Ann. CA To Vol. 2 (para. 3.2.5.0-3) App. 1 To Ann. CA To Vol. 2 (para. 3.2.6.0-2.0-2)		6. Technical Office PMO ISSP SE																								
7. Inspection	8. Approval Code A	9. Review Period See Block 14	10. Frequency ONE/R																								
11. As of Date	12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 9 and 12. The draft SATP must be delivered to the TA 60 WD prior to TRR. TA comments will be provided within 10 WD following receipt. Block 13. Subsequent submission of the SATP must be submitted for approval 10 WD after receipt of TA comments.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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16. Prepared By PMO ISSP Chief Engineer	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

18 CDRL SE-008 System Acceptance Test Description and Procedures (SATDP)

CONTRACT DATA REQUIREMENTS LIST																									
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																							
C. SOW Identifier ISS ASOW	D. Data Category SE		E. Contractor																						
1. Item Number SE-008	2. Title System Acceptance Test Description and Procedures (SATDP)		3. Subtitle																						
4. Data Item Number DID SE-008 System Acceptance Test Description and Procedures (SATDP)	5. Reference Ann. CA to Vol. 2 (para. 3.2.9.3.0-1) Ann. CA to Vol. 2 (para. 3.2.9.3.0-2) Ann. CA to Vol. 2 (para. 3.2.9.3.1.0-1) Ann. CA to Vol. 2 (para. 3.2.10.1.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.2.0-6) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.2.5.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.2.6.0-2.0-3)		6. Technical Office PMO ISSP SE																						
7. Inspection DD	8. Approval Code A	9. Review Period See Block 14	10. Frequency ONE/R																						
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																						
14. Remarks Block 9 and 12. The draft SATDP must be delivered to the TA 30 WD prior to TRR. TA comments will be provided within 10 WD following receipt. Block 13. Subsequent submission of the SATDP must be submitted for approval 10 WD after receipt of TA comments.		15. Distribution																							
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority	
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DND/TA	x		1 SC																						
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16. Prepared By PMO ISSP Chief Engineer	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																						

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19 CDRL SE-009 SAT Report

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW		D. Data Category SE		E. Contractor																								
1. Item Number SE-009		2. Title SAT Report		3. Subtitle																								
4. Data Item Number DID SE-009 SAT Report		5. Reference Ann. CA to Vol. 2 (para. 3.2.10.2.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.3.4.0-2.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.3.6.0-2.0-1)		6. Technical Office PMO ISSP SE																								
7. Inspection DD		8. Approval Code A		9. Review Period See Block 14																								
10. Frequency ONE/R		11. As of Date		12. Date of First Submission See Block 14																								
13. Date of Subsequent Submission See Block 14		14. Remarks Block 9 and 12. The draft SAT report must be delivered to the TA within 15 WD prior to FQR. TA comments will be provided at FQR. Block 13. Subsequent submission of the SAT Report must be submitted for approval 10 WD after FQR.		15. Distribution																								
				<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>		Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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Contracting Authority		x	1 SC 1 HC																									
16. Prepared By PMO ISSP Chief Engineer		17. Preparation Date June 2011		18. Approved By PM ISSP																								
				19. Approval Date June 2011																								

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20 CDRL SE-010 Production Plan (ProdP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category SE		E. Contractor																								
1. Item Number SE-010	2. Title Production Plan (ProdP)		3. Subtitle																								
4. Data Item Number DID SE-010 Production Plan (ProdP)	5. Reference Ann. CA to Vol. 2 (para. 3.3.2.0-3) Ann. CA to Vol. 2 (para. 3.3.2.0-2) Ann. CA to Vol. 2 (para. 3.3.3.0-5) Ann. CA to Vol. 2 (para. 3.3.3.2.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.4.2.0-3) App. 1 To Ann. CA To Vol. 2 (para. 3.4.3.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.4.6.0-3.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.4.5.0-3)		6. Technical Office PMO ISSP SE																								
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission 10 WD prior to PRR	13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 13. The TA will submit comments at PRR. The Contractor must submit a revised Production Plan within 10 WD after PRR.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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16. Prepared By PMO ISSP Chief Engineer	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

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21 CDRL LS-001 Integrated Logistics Support Plan (ILSP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/001/RA																									
C. SOW Identifier ISS ASOW	D. Data Category LS		E. Contractor																								
1. Item Number LS-001	2. Title Integrated Logistics Support Plan (ILSP)		3. Subtitle																								
4. Data Item Number DID LS-001 Integrated Logistics Support Plan (ILSP)	5. Reference Ann. CA to Vol. 2 (para. 3.1.2.0-5) Ann. CA to Vol. 2 (para. 3.3.2.0-4.0-4) Ann. CA to Vol. 2 (para. 6.2.0-1) Ann. CA to Vol. 2 (para. 6.3.0-2)		6. Technical Office PMO ISSP ILSM																								
7. Inspection	8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																								
11. As of Date	12. Date of First Submission 10 WD after TRR		13. Date of Subsequent Submission 10 WD after Contract Amendment authorizing Production Phase																								
14. Remarks Block 13. Further updates (to reflect changes to the project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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16. Prepared By PMO ISSP ILSM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

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22 CDRL LS-002 Recommended Support Equipment Requirements List (RSERL)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/001/RA																									
C. SOW Identifier ISS ASOW	D. Data Category LS		E. Contractor																								
1. Item Number LS-002	2. Title Recommended Support Equipment Requirements List (RSERL)		3. Subtitle																								
4. Data Item Number DID LS-002 Recommended Support Equipment Requirements List (RSERL)	5. Reference Ann. CA to Vol. 2 (para. 6.7.4.0-1) Ann. CA to Vol. 2 (para. 3.3.8.0-2) Ann. CA to Vol. 2 (para. 6.6.6.0-1) Ann. CA to Vol. 2 (para. 3.3.8.0-3)		6. Technical Office PMO ISSP ILSM																								
7. Inspection	8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																								
11. As of Date	12. Date of First Submission 40 WD after Contract Amendment authorizing Production Phase		13. Date of Subsequent Submission																								
14. Remarks		15. Distribution																									
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			Draft	Final	Media																						
		DND/TA	x		1 SC																						
DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
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16. Prepared By PMO ISSP ILSM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

23 CDRL LS-003 Recommended Spare Parts List (RSPL)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/001/RA																								
C. SOW Identifier ISS ASOW		D. Data Category LS		E. Contractor																							
1. Item Number LS-003		2. Title Recommended Spare Parts List (RSPL)		3. Subtitle																							
4. Data Item Number DID LS-003 Recommended Spare Parts List (RSPL)		5. Reference Ann. CA to Vol. 2 (para. 3.3.8.0-4) Ann. CA to Vol. 2 (para. 6.7.2.0-2)		6. Technical Office PMO ISSP ILSM																							
7. Inspection	8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission 40 WD after Contract Amendment authorizing Production Phase		13. Date of Subsequent Submission																							
14. Remarks		15. Distribution																									
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Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
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				19. Approval Date June 2011																							

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

24 CDRL LS-004 Training Program Plan

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/001/RA																									
C. SOW Identifier ISS ASOW	D. Data Category LS		E. Contractor																								
1. Item Number LS-004	2. Title Training Program Plan		3. Subtitle																								
4. Data Item Number DID LS-004 Training Program Plan	5. Reference Ann. CA to Vol. 2 (para. 6.6.1.0-2) Ann. CA to Vol. 2 (para. 3.3.10.1.0-1) Ann. CA to Vol. 2 (para. 6.6.1.0-3) Ann. CA to Vol. 2 (para. 6.6.7.0-1) Ann. CA to Vol. 2 (para. 6.6.8.0-1) Ann. CA to Vol. 2 (para. 6.6.9.0-1)		6. Technical Office PMO ISSP ILSM																								
7. Inspection	8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																								
11. As of Date	12. Date of First Submission 10 WD after TRR		13. Date of Subsequent Submission 10 WD after Contract Amendment authorizing Production Phase																								
14. Remarks		15. Distribution																									
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Contracting Authority	x		1 SC																								
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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

25 CDRL LS-005 Maintenance Plan

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/001/RA																									
C. SOW Identifier ISS ASOW		D. Data Category LS		E. Contractor																								
1. Item Number LS-005		2. Title Maintenance Plan		3. Subtitle																								
4. Data Item Number DID LS-005 Maintenance Plan		5. Reference Ann. CA to Vol. 2 (para. 6.4.0-1)		6. Technical Office PMO ISSP ILSM																								
7. Inspection		8. Approval Code A		9. Review Period 15 WD																								
				10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission 10 WD after TRR		13. Date of Subsequent Submission 10 WD after Contract Amendment authorizing Production Phase																								
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Addressee	Copies																											
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26 CDRL LS-006 Software Documentation

CONTRACT DATA REQUIREMENTS LIST					
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/001/RA		
C. SOW Identifier ISS ASOW		D. Data Category LS		E. Contractor	
1. Item Number LS-006		2. Title Software Documentation		3. Subtitle	
4. Data Item Number DID LS-006 Software Documentation		5. Reference Ann. CA to Vol. 2 (para. 6.4.1.0-1)		6. Technical Office PMO ISSP ILSM	
7. Inspection		8. Approval Code A		9. Review Period 20 WD	
				10. Frequency ONE/R	
11. As of Date		12. Date of First Submission 120 WD after Contract Amendment authorizing Production Phase		13. Date of Subsequent Submission ASREQ	
14. Remarks		15. Distribution			
		Addressee		Copies	
				Draft	Final
		DND/TA	x		1 SC
		DND/TA		x	1 SC 1 HC
Contracting Authority	x		1 SC		
Contracting Authority		x	1 SC 1 HC		
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP	
				19. Approval Date June 2011	

RFP - N° de la DP
W8476-112965/B

Amendment No. - N° de la modif.

Buyer ID - Id de l'acheteur
004RA

Client Reference No. - N° de réf. du client
W8476-112965

File No. - N° du dossier
004RA W8476-112965

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27 CDRL LS-007 Technical Publications

CONTRACT DATA REQUIREMENTS LIST

A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/001/RA	
C. SOW Identifier ISS ASOW	D. Data Category LS	E. Contractor	
1. Item Number LS-007	2. Title Technical Publications	3. Subtitle	
4. Data Item Number DID LS-007 Technical Publications	5. Reference Ann. CA to Vol. 2 (para. 6.5.1.0-2)	6. Technical Office PMO ISSP ILSM	
7. Inspection	8. Approval Code A	9. Review Period See Block 14	10. Frequency See Block 14
11. As of Date	12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14	

14. Remarks

Technical Publications will be processed in three phases:

Phase 1- Draft English Technical Publications:

Block 12. A draft of the English version of each technical publication must be delivered within 25WD after Contract Amendment authorizing Production Phase.

Block 9. TA will have 15WD to review and provide comments. TA comments will be on overall structure and depth of technical content.

Phase 2 - Validated English Technical Publications:

“Validated” means that the publication was verified/validated against the operation and maintenance of the equipment it is meant to address before resubmission

Block 12. The submission of the validated English Technical Publications must take

15. Distribution

Addressee	Copies		
	Draft	Final	Media
DND/TA	x		1 SC
DND/TA		x	1 SC 1 HC
Contracting Authority	x		1 SC
Contracting Authority		x	1 SC 1 HC

RFP - N° de la DP
W8476-112965/B

Amendment No. - N° de la modif.

Buyer ID - Id de l'acheteur
004RA

Client Reference No. - N° de réf. du client
W8476-112965

File No. - N° du dossier
004RA W8476-112965

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place no later than 25WD after receipt of TA comments on the draft English Technical Publications.

Block 9. The TA will have 15WD from receipt to review and submit final comments.

Block 13. The final delivery of the Validated English Technical Publications must be no later than 15WD after receipt of the TA's final comments.

The Contractor cannot proceed with the 3rd phase of the process until the Validated English version of the Technical Publication has been approved by the TA.

Phase 3 - Bilingual (English/French)
Technical Publications:

Block 12. The delivery of each draft bilingual Technical Publication must be no later than 40WD after receipt of the approval of its validated English version by the TA.

Block 9. The TA will have 20WD from time of receipt to review and provide final comments.

Block 13. The final bilingual Technical Publications must be delivered with 10WD after receipt of TA's comments.

16. Prepared By
PMO ISSP ILSM

17. Preparation Date
June 2011

18. Approved By
PM ISSP

19. Approval Date
June 2011

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

28 CDRL LS-008 Training Courses

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/001/RA																									
C. SOW Identifier ISS ASOW		D. Data Category LS		E. Contractor																								
1. Item Number LS-008		2. Title Training Courses		3. Subtitle																								
4. Data Item Number DID LS-008 Training Courses		5. Reference Ann. CA to Vol. 2 (para. 3.3.10.2.0-1) Ann. CA to Vol. 2 (para. 6.6.5.0-3) Ann. CA to Vol. 2 (para. 6.6.9.0-1)		6. Technical Office PMO ISSP ILSM																								
7. Inspection		8. Approval Code A		9. Review Period 10 WD																								
				10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The draft Training Courses material for the Pilot ICT Instructor courses must be delivered to the TA no later than 60 WD after Contract Amendment authorizing Production Phase. Block 13. DND personnel selected to attend the Contractor delivered Pilot ICT Instructor courses will validate the training courses material and provide feedback within 10 WD of graduation. Within 30 WD of receipt of feedback, the Contractor must finalize the ICT Courseware, which DND will need to approve. Upon completion, the contractor must be ready to assist DND with the ICT Course serials.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>				Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
Addressee	Copies																											
	Draft	Final	Media																									
DND/TA	x		1 SC																									
DND/TA		x	1 SC 1 HC																									
Contracting Authority	x		1 SC																									
Contracting Authority		x	1 SC 1 HC																									
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP																								
				19. Approval Date June 2011																								

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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29 CDRL LS-009 Equipment Identification Plate Data and Markings

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/001/RA																									
C. SOW Identifier ISS ASOW	D. Data Category LS		E. Contractor																								
1. Item Number LS-009	2. Title Equipment Identification Plate Data and Markings		3. Subtitle																								
4. Data Item Number DID LS-009 Equipment Identification Plate Data and Markings	5. Reference Ann. CA to Vol. 2 (para. 6.7.1.0-1) Ann. CA to Vol. 2 (para. 6.7.2.0-1)		6. Technical Office PMO ISSP ILSM																								
7. Inspection	8. Approval Code A	9. Review Period See Block 14	10. Frequency ASREQ																								
11. As of Date	12. Date of First Submission See Block 14		13. Date of Subsequent Submission																								
14. Remarks Block 9 and 12. Samples and drawings of Equipment Identification Plate Data must be delivered for review at the PRR. TA will deliver comments within 10 WD of receipt. Contractor must submit the final within 10 WD of receipt of TA comments.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
		Addressee	Copies																								
			Draft	Final	Media																						
		DND/TA	x		1 SC																						
DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP ILSM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

30 CDRL LS-010 Sparing Analysis Report

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/001/RA																									
C. SOW Identifier ISS ASOW		D. Data Category LS		E. Contractor																								
1. Item Number LS-010		2. Title Sparing Analysis Report		3. Subtitle																								
4. Data Item Number DID LS-010 Sparing Analysis Report		5. Reference		6. Technical Office PMO ISSP ILSM																								
7. Inspection		8. Approval Code I		9. Review Period 15 WD																								
10. Frequency ONE/R																												
11. As of Date		12. Date of First Submission 40 WD after Contract Amendment authorizing Production Phase		13. Date of Subsequent Submission																								
14. Remarks		15. Distribution																										
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Contracting Authority	x		1 SC																									
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16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP																								
				19. Approval Date June 2011																								

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31 CDRL LS-011 Supplementary Provisioning Technical Data (SPTD)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/001/RA																									
C. SOW Identifier ISS ASOW	D. Data Category LS		E. Contractor																								
1. Item Number LS-011	2. Title Supplementary Provisioning Technical Data (SPTD)		3. Subtitle																								
4. Data Item Number DID LS-011 Supplementary Provisioning Technical Data (SPTD)	5. Reference Ann. CA to Vol. 2 (para. 7.2.0-3) Ann. CA to Vol. 2 (para. 6.7.2.0-3)		6. Technical Office PMO ISSP ILSM																								
7. Inspection	8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																								
11. As of Date	12. Date of First Submission 40 WD after Contract Amendment authorizing Production Phase		13. Date of Subsequent Submission																								
14. Remarks CDRL to be submitted only if items provided do not have an established NATO Stock Number.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
		Addressee	Copies																								
			Draft	Final	Media																						
		DND/TA	x		1 SC																						
DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP ILSM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

32 CDRL LS-012 Consumable and Bulk Items List (CBIL)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/001/RA																									
C. SOW Identifier ISS ASOW	D. Data Category LS		E. Contractor																								
1. Item Number LS-012	2. Title Consumable and Bulk Items List (CBIL)		3. Subtitle																								
4. Data Item Number DID LS-012 Consumable and Bulk Items List (CBIL)	5. Reference Ann. CA to Vol. 2 (para. 6.7.2.0-4)		6. Technical Office PMO ISSP ILSM																								
7. Inspection	8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																								
11. As of Date	12. Date of First Submission 40 WD after Contract Amendment authorizing Production Phase		13. Date of Subsequent Submission																								
14. Remarks		15. Distribution																									
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			Draft	Final	Media																						
		DND/TA	x		1 SC																						
DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP ILSM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

33 CDRL LS-013 Packaging Data

CONTRACT DATA REQUIREMENTS LIST						
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/001/RA			
C. SOW Identifier ISS ASOW		D. Data Category LS		E. Contractor		
1. Item Number LS-013		2. Title Packaging Data		3. Subtitle		
4. Data Item Number DID LS-013 Packaging Data		5. Reference Ann. CA to Vol. 2 (para. 6.7.5.0-3) Ann. CA to Vol. 2 (para. 6.7.5.0-2)		6. Technical Office PMO ISSP ILSM		
7. Inspection		8. Approval Code R		9. Review Period 15 WD		
				10. Frequency ASREQ		
11. As of Date		12. Date of First Submission 40 WD after Contract Amendment authorizing Production Phase		13. Date of Subsequent Submission		
14. Remarks		15. Distribution				
		Addressee		Copies		
				Draft	Final	Media
		DND/TA		x		1 SC
		DND/TA			x	1 SC 1 HC
Contracting Authority		x		1 SC		
Contracting Authority			x	1 SC 1 HC		
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP		
				19. Approval Date June 2011		

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

34 CDRL CM-001 Configuration Management Plan (CMP)

CONTRACT DATA REQUIREMENTS LIST																									
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																							
C. SOW Identifier ISS ASOW	D. Data Category CM		E. Contractor																						
1. Item Number CM-001	2. Title Configuration Management Plan (CMP)		3. Subtitle																						
4. Data Item Number DID CM-001 Configuration Management Plan (CMP)	5. Reference Ann. CA to Vol. 2 (para. 3.1.5.0-1) Ann. CA to Vol. 2 (para. 3.1.5.1.0-1) Ann. CA to Vol. 2 (para. 3.2.1.0-3) Ann. CA to Vol. 2 (para. 3.2.8.1.0-12) Ann. CA to Vol. 2 (para. 3.2.11.3.0-1) Ann. CA to Vol. 2 (para. 7.1.0-1) Ann. CA to Vol. 2 (para. 3.1.2.0-3) Ann. CA to Vol. 2 (para. 3.3.3.0-3) Ann. CA to Vol. 2 (para. 3.3.2.0-4.0-2) App. 1 To Ann. CA To Vol. 2 (para. 2.5.0-2)		6. Technical Office PMO ISSP CM																						
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency ONE/R																						
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																						
14. Remarks Block 12. The draft CMP must be delivered to the TA 10 WD after the System Qualification Phase kick-off meeting. Block 13. The Contractor must deliver the final version of the CMP no later than 2 MACA. Further updates (to reflect changes to the project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.		15. Distribution																							
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority	
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	Draft	Final	Media																						
DND/TA	x		1 SC																						
DND/TA		x	1 SC 1 HC																						
Contracting Authority	x		1 SC																						
Contracting Authority		x	1 SC 1 HC																						
16. Prepared By PMO ISSP CM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																						

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35 CDRL CM-002 Engineering Change Proposal (ECP)

CONTRACT DATA REQUIREMENTS LIST																										
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																							
C. SOW Identifier ISS ASOW		D. Data Category CM		E. Contractor																						
1. Item Number CM-002		2. Title Engineering Change Proposal (ECP)		3. Subtitle																						
4. Data Item Number DID CM-002 Engineering Change Proposal (ECP)		5. Reference Ann. CA to Vol. 2 (para. 3.1.5.1.0-1) Ann. CA to Vol. 2 (para. 7.3.0-1) Ann. CA to Vol. 2 (para. 3.2.3.1.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-5) App. 1 To Ann. CA To Vol. 2 (para. 3.4.3.0-4)		6. Technical Office PMO ISSP CM																						
7. Inspection DD		8. Approval Code A		9. Review Period 15 WD																						
10. Frequency ASREQ																										
11. As of Date		12. Date of First Submission When a requirement is identified		13. Date of Subsequent Submission See Block 14																						
14. Remarks Block 13. The Contractor must provide updates 5 WD after receipt of TA comments.		15. Distribution																								
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>		Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
					Addressee	Copies																				
				Draft		Final	Media																			
				DND/TA	x		1 SC																			
DND/TA		x	1 SC																							
Contracting Authority	x		1 SC																							
Contracting Authority		x	1 SC 1 HC																							
16. Prepared By PMO ISSP CM		17. Preparation Date June 2011		18. Approved By PM ISSP																						
				19. Approval Date June 2011																						

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

36 CDRL CM-003 Notice of Revision (NOR)

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW		D. Data Category CM		E. Contractor																								
1. Item Number CM-003		2. Title Notice of Revision (NOR)		3. Subtitle																								
4. Data Item Number DID CM-003 Notice of Revision (NOR)		5. Reference Ann. CA to Vol. 2 (para. 7.3.0-5) Ann. CA to Vol. 2 (para. 3.2.3.1.0-3)		6. Technical Office PMO ISSP CM																								
7. Inspection DD		8. Approval Code R		9. Review Period 15 WD																								
10. Frequency ASREQ																												
11. As of Date		12. Date of First Submission 10 WD after ECP approval by TA		13. Date of Subsequent Submission																								
14. Remarks		15. Distribution																										
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			Draft	Final	Media																							
		DND/TA	x		1 SC																							
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				19. Approval Date June 2011																								

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

37 CDRL CM-004 Software Version Description Document (SVDD)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category CM		E. Contractor																								
1. Item Number CM-004	2. Title Software Version Description Document (SVDD)		3. Subtitle																								
4. Data Item Number DID CM-004 Software Version Description Document (SVDD)	5. Reference Ann. CA to Vol. 2 (para. 7.4.0-2) Ann. CA to Vol. 2 (para. 3.3.7.0-1)		6. Technical Office PMO ISSP CM																								
7. Inspection DD	8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																								
11. As of Date	12. Date of First Submission 10 WD prior to FCA		13. Date of Subsequent Submission 10 WD after receipt of TA comments																								
14. Remarks		15. Distribution																									
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16. Prepared By PMO ISSP CM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

38 CDRL CM-005 Equipment Breakdown Structure (EBS)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category CM	E. Contractor																									
1. Item Number CM-005	2. Title Equipment Breakdown Structure (EBS)	3. Subtitle																									
4. Data Item Number DID CM-005 Equipment Breakdown Structure (EBS)	5. Reference Ann. CA to Vol. 2 (para. 7.2.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.1.3.0-5) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-7) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-5) App. 1 To Ann. CA To Vol. 2 (para. 3.3.4.0-2.0-4)		6. Technical Office PMO ISSP CM																								
7. Inspection DD	8. Approval Code R	9. Review Period See Block 14	10. Frequency ONE/R																								
11. As of Date	12. Date of First Submission See Block 14	13. Date of Subsequent Submission																									
14. Remarks Block 9 and 12. The draft EBS must be delivered 5 WD prior to the System Qualification Phase SRAR meeting. The TA will provide feedback at the SRAR meeting. The contractor must deliver the final version of the EBS no later than 10 WD after SRAR.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th><th colspan="3">Copies</th></tr> <tr> <th>Draft</th><th>Final</th><th>Media</th></tr> </thead> <tbody> <tr> <td>DND/TA</td><td>x</td><td></td><td>1 SC</td></tr> <tr> <td>DND/TA</td><td></td><td>x</td><td>1 SC</td></tr> <tr> <td>Contracting Authority</td><td>x</td><td></td><td>1 SC</td></tr> <tr> <td>Contracting Authority</td><td></td><td>x</td><td>1 SC 1 HC</td></tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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16. Prepared By PMO ISSP CM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

39 CDRL CM-006 Request for Deviation (RFD)/ Request for Waiver (RFW)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category CM		E. Contractor																								
1. Item Number CM-006	2. Title Request for Deviation (RFD)/Request for Waiver (RFW)		3. Subtitle																								
4. Data Item Number DID CM-006 Request for Deviation (RFD)/Request for Waiver (RFW)	5. Reference Ann. CA to Vol. 2 (para. 7.3.0-3)		6. Technical Office PMO ISSP CM																								
7. Inspection DD	8. Approval Code A	9. Review Period 15 WD	10. Frequency ASREQ																								
11. As of Date	12. Date of First Submission When a requirement is identified		13. Date of Subsequent Submission																								
14. Remarks		15. Distribution																									
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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

40 CDRL CM-007 Specification Change Notice

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW		D. Data Category CM		E. Contractor																								
1. Item Number CM-007		2. Title Specification Change Notice		3. Subtitle																								
4. Data Item Number DID CM-007 Specification Change Notice (SCN)		5. Reference Ann. CA to Vol. 2 (para. 7.3.0-4)		6. Technical Office PMO ISSP CM																								
7. Inspection DD		8. Approval Code R		9. Review Period 15 WD																								
10. Frequency ASREQ																												
11. As of Date		12. Date of First Submission 10 WD after ECP approval from TA		13. Date of Subsequent Submission																								
14. Remarks		15. Distribution																										
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41 CDRL CM-008 Configuration Status Accounting (CSA) Report

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																								
C. SOW Identifier ISS ASOW		D. Data Category CM		E. Contractor																							
1. Item Number CM-008		2. Title Configuration Status Accounting (CSA) Report		3. Subtitle																							
4. Data Item Number DID CM-008 Configuration Status Accounting (CSA) Report		5. Reference Ann. CA to Vol. 2 (para. 7.4.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-6)		6. Technical Office PMO ISSP CM																							
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency MNTY																								
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The first CSA Report must be submitted at the System Qualification Phase kick-off mtg. Block 13. The CSA Report must be delivered no later than 5 WD after the end of each calendar month following the System Qualification Phase kick-off mtg. The last CSA Report will be delivered at the end of the System Qualification phase. Subsequent CSA reports will be submitted under OWSS contract.		15. Distribution																									
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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

42 CDRL CM-009 Configuration Audit Plan

CONTRACT DATA REQUIREMENTS LIST																							
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																				
C. SOW Identifier ISS ASOW		D. Data Category CM		E. Contractor																			
1. Item Number CM-009		2. Title Configuration Audit Plan		3. Subtitle																			
4. Data Item Number DID CM-009 Configuration Audit Plan (CAP)		5. Reference Ann. CA to Vol. 2 (para. 7.5.0-1)		6. Technical Office PMO ISSP CM																			
7. Inspection DD		8. Approval Code R		9. Review Period See Block 14																			
10. Frequency See Block 14		11. As of Date		12. Date of First Submission See Block 14																			
13. Date of Subsequent Submission See Block 14		14. Remarks Block 9 and 12. A CAP is required for each Audit. The FCA CAP is required to be submitted 15 WD prior to the FCA being conducted. The PCA CAP is required to be submitted 15 WD prior to the PCA being conducted. The TA will provide comments within 5 WD of receiving the CAP. Block 13. The revised CAP must be delivered within 5 WD of TA comment receipt.																					
15. Distribution																							
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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

43 CDRL CM-010 Configuration Audit Report (CAR)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category CM		E. Contractor																								
1. Item Number CM-010	2. Title Configuration Audit Report (CAR)		3. Subtitle																								
4. Data Item Number DID CM-010 Configuration Audit Report (CAR)	5. Reference Ann. CA to Vol. 2 (para. 7.5.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-10) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-12) App. 1 To Ann. CA To Vol. 2 (para. 3.3.4.0-2.0-5) App. 1 To Ann. CA To Vol. 2 (para. 3.3.6.0-2.0-3)		6. Technical Office PMO ISSP CM																								
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency ASREQ																								
11. As of Date	12. Date of First Submission 10 WD upon completion of the applicable Audit		13. Date of Subsequent Submission 5 WD after receipt of TA comments																								
14. Remarks		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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16. Prepared By PMO ISSP CM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

44 CDRL DM-001 Technical Data Management Plan (TDMP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																								
C. SOW Identifier ISS ASOW		D. Data Category DM		E. Contractor																							
1. Item Number DM-001		2. Title Technical Data Management Plan (TDMP)		3. Subtitle																							
4. Data Item Number DID DM-001 Technical Data Management Plan (TDMP)		5. Reference Ann. CA to Vol. 2 (para. 4.6.0-1) Ann. CA to Vol. 2 (para. 5.2.4.0-3)		6. Technical Office PMO ISSP CM																							
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																							
14. Remarks Block 12. The draft TDMP must be submitted to the TA 10 WD after the System Qualification Phase kick-off meeting. Block 13. The Contractor must deliver the final version of the TDMP no later than 2 MACA. Further updates (to reflect changes to the project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP CM		17. Preparation Date June 2011		18. Approved By PM ISSP 19. Approval Date June 2011																							

APPENDIX 2 TO ANNEX CC TO VOLUME 2

DATA ITEMS DESCRIPTION (DID) FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

RFP - N° de la DP
W8476-112965/B

Amendment No. - N° de la modif.

Buyer ID - Id de l'acheteur
004RA

Client Reference No. - N° de réf. du client
W8476-112965

File No. - N° du dossier
004RA W8476-112965

Volume 2, Annex CC, Appendix 2

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Revision	Date	Description

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1 PROJECT MANAGEMENT

1.1 DID PM-001 Project Management Plan (PMP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Project Management Plan (PMP)	2 Data Item Number PM-001	
3 Description / Purpose 3.0-1 The PMP describes the Contractor's plan for integrating all management, planning and control activities for the acquisition contract, including the transition and linkages between the System Qualification and Production phases as well as preparing the transition of the in-service support.		
4 Approval Date June 2011	5 OPI Project Management Office (PMO) Integrated Soldier System Project (ISSP) Project Control and Coordination Officer (PCCO)	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Format 10.1.0-1 The PMP must be prepared in the Contractor's format. 10.2 General 10.2.0-1 The PMP must define the management processes, administrative procedures and organizational structure that will be used to manage the Contractor's work. The PMP must be a stand-alone document that provides sufficient detail to allow DND to assess the Contractor's understanding of the work of the project as well as the Contractor's ability to carry out and manage the work of the contract to a successful conclusion. It must allow the reader to understand how the project will be managed without referring to other documents. It is not acceptable to simply reference a document, procedure or standard without providing an overview of the material referenced. 10.3 Content 10.3.0-1 The following paragraphs outline the framework of the PMP. This framework should not limit the Contractor in developing the PMP, which must reflect how the Contractor plans to implement and manage the Contract. The PMP must contain, as a minimum, the following information: 10.3.1 Overview 10.3.1.0-1 Purpose, Background, Scope and Objectives; 10.3.1.0-2 Assumptions, Constraints and Risks; 10.3.1.0-3 Project Deliverables; 10.3.1.0-4 Organization Summary; and 10.3.1.0-5 Schedule Summary. 10.3.2 Organization 10.3.2.0-1 Project Management Organizational Chart, including internal and external organizations		

as they pertain to this contract;

10.3.2.0-2 Roles and Responsibilities, including internal and external organizations;

10.3.2.0-3 Escalating Lines of Communication;

10.3.2.0-4 Description of Project Management Organization type; and

10.3.2.0-5 Detailed resume with relevant experience for each of the activity managers.

10.3.3 Management Processes

10.3.3.0-1 Project Management Approach and Procedures;

10.3.3.0-2 Scope Management, including the development and use of the Work Breakdown Structure (WBS);

10.3.3.0-3 Integration and Control Management;

10.3.3.0-4 Subcontractor Management, including approved and to-be-approved subcontractors along with description of relationship and responsibilities;

10.3.3.0-5 Schedule Management and Control, describing the procedures the Contractor will use to track and maintain the schedule that includes, as a minimum:

10.3.3.0-5.0-1 Processes for tracking tasks against the project schedule to identify slippage;

10.3.3.0-5.0-2 Processes specific to critical path items;

10.3.3.0-5.0-3 Processes for updating and communicating schedule changes; and

10.3.3.0-5.0-4 Processes to assess schedule impact of new tasks.

10.3.3.0-6 Resource Allocation;

10.3.3.0-7 Budget Control;

10.3.3.0-8 Quality Management System;

10.3.3.0-9 Performance Monitoring;

10.3.3.0-10 Progress Reporting;

10.3.3.0-11 Communications Management;

10.3.3.0-12 Problem Identification and Resolution;

10.3.3.0-13 Project Work Tasks/Elements Closing;

10.3.3.0-14 Process Improvement;

10.3.3.0-15 Risk Management, describing how the Contractor will implement Risk Management that will systematically and continuously manage items that are considered to be of a high-risk nature that includes, as a minimum:

10.3.3.0-15.0-1 The methodology for risk identification;

10.3.3.0-15.0-2 The procedures and systems for assessing and monitoring risks;

10.3.3.0-15.0-3 The system for resolving or mitigating risk situations; and

10.3.3.0-15.0-4 The procedure for reporting on current risk status.

10.3.3.0-16 All sectors, areas of responsibilities and disciplines affecting the project (including Environmental Health and Safety (EHS));

10.3.3.0-17 Data Management;

10.3.3.0-18 Change Control Processes; and

10.3.3.0-19 Issue/Action Item Management.

10.3.4 Transition to in-service support

10.3.4.0-1 Internal processes and oversight to ensure the transition from the Production Phase to the Optimized Weapon System Support (OWSS) Contract is executed efficiently; and

10.3.4.0-2 Handover between the Project Manager and the In-Service Support Manager.

1.2 DID PM-002 Quality Assurance Plan (QAP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Quality Assurance Plan (QAP)	2 Data Item Number PM-002	
3 Description / Purpose 3.0-1 The QAP provides Canada with information on the Contractor's quality system and its application as it relates to ISSP. 3.0-2 The QAP provides Canada with an understanding of the Contractor's quality assurance program and it will be used to guide the quality program during the performance of the contract.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The QAP is a subordinate plan of the PMP. 7.0-2 The QAP refers to DID PM-003 , Master Project Schedule (MPS) and Work Breakdown Structure (WBS). 7.0-3 The QAP must conform to the following standards and specifications, as per the requirements below: 7.0-4 ISO 9001:2008 Quality Requirements 7.0-5 ISO/IEC 90003 Software and System Engineering Guidelines for the Application of ISO 9001:2000 to Computer Software		
8 Originator PMO ISSP PCCO	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The QAP must completely describe the Contractor's quality system and how the system will be implemented for the successful completion of the contract. 10.0-2 The QAP must be prepared in the Contractor's format and should contain the following information: 10.0-2.0-1 Title Page; 10.0-2.0-2 Table of Contents; 10.0-2.0-3 Document Control Log; 10.0-2.0-4 Revision Record: 10.0-2.0-4.0-1 The document must provide a change history that identifies each change made, the date of issue, the version/revision incorporating the change and the title and rationale for the change. 10.0-2.0-5 Plan Subject Matter; 10.0-2.0-6 Notes; and 10.0-2.0-7 Appendices. 10.0-3 The QAP must provide details on the methods and organization with which the Contractor will implement an effective QAP. The plan must identify all procedures, processes and associated planning data necessary for the attainment of the required QAP. 10.0-4 The QAP subject matter must be broken down into the following sections: 10.0-4.0-1 <u>Section I - General</u> . This section of the plan must define the scope, purpose and application of the QAP, related documents, and mechanisms to amend the plan. 10.0-4.0-2 <u>Section II - Elements In Place</u> . The section must describe what elements and/or		

resources of the Quality Assurance (QA) program are already in place, and what is additionally required. It should include a clear demonstration that the Contractor's QAP and System are in conformity with the ISO 9001:2008 Quality Requirements. In the event that the Contractor's Quality Management System is not in full conformity with the ISO 9001:2008 Quality Requirements, the QAP must include a requirements traceability matrix cross referencing the Contractor's QAP elements to the applicable elements of the ISO 9001:2008 Quality Requirements. The QAP section describing Software Quality Management must conform to ISO/IEC 90003 Software and System Engineering Guidelines for the Application of ISO 9001:2000 to Computer Software;

10.0-4.0-3 Section III - Major Subcontractors. The plan must identify the major subcontractors who are subject to the application of the Contractor's quality system. The plan should include a description of the subcontractor's area of responsibility and to whom they are accountable;

10.0-4.0-4 Section IV - Management/Organization. This section must describe the Contractor's QA organization, subcontractor's QA organization, management procedures, interfaces and reporting/tracking systems established to control QA activities. The plan should identify the Contractor's QA Manager and support personnel by name in a QA Organizational Chart.

10.0-4.0-5 Section V - WBS/Schedule of Activities and Milestones. This section must include summary tasks and milestone events extracted from the MPS and WBS (**DID PM-003**) to show the time-phased workflow of the QA related tasks, events, and deliverables.

10.0-4.0-6 Section VI - Relationships. This section must describe the following relationships:

10.0-4.0-6.0-1 Between the various Contractor's QA elements and QA Manager;

10.0-4.0-6.0-2 Between the Contractor's QA Manager and the Contractor's Project Management, Systems Engineering, and Subcontractors programs; and

10.0-4.0-6.0-3 Between the Contractor's and Department of National Defence (DND) QA Organization.

10.0-4.0-7 Section VII - Meetings and Reviews. The requirements for QA meetings throughout the conduct of the project must be outlined in the QAP.

10.0-4.0-8 Section VIII - Production acceptance. This section must detail the process that will be implemented in order to carry out the First Article Inspection (FAI), sampling and inspection methods of the product on each Integrated Soldier System (ISS) System element and on the ISS System as a whole before delivery. It must describe or reference the procedures that will be used for performing FAI and sampling inspection. It must provide the details of the functional and performance checks that the Contractor will perform during the pre-production and production phase. The production acceptance method and procedures may have to be amended by the Contractor order to address any quality issues identified by the Technical Authority (TA) or DND QA Representative (QAR) during the contract.

10.0-4.0-9 Section IX - Non-Conforming product - This section must detail the process that will be implemented in order to withhold non-conforming product, its disposition, and to take the corrective action necessary.

1.3 DID PM-003 Master Project Schedule (MPS) and Work Breakdown Structure (WBS)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Master Project Schedule (MPS) and Work Breakdown Structure (WBS)		2 Data Item Number PM-003
3 Description / Purpose 3.0-1 The WBS details all activities covering the complete duration of the Contract (System Qualification and Production phases) in predefined work packages. The MPS details the sequencing, activity duration, dependencies, schedule of all events against a calendar time base, milestones and all WBS activities for the requirements of the Contract. The MPS and WBS updates further provide Canada with the visibility of accomplishments to date.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 The MPS must depict the entire scope of the project, including milestones, major events and major deliverables for the duration of the contract. The MPS must detail the schedule of all events against a calendar time base, milestones and all WBS activities that must occur to meet the objectives and requirements of the contract. 10.0-2 The schedule requirements are as follows: 10.0-2.0-1 A time scaled bar-chart showing the WBS elements/codes and work activities along the vertical axis and the time scale along the horizontal axis. Each WBS element and work activity must have an identification code shown on the vertical axis to the left of the description; 10.0-2.0-2 The time-phased sequence of activities and events, and their relationship to the WBS. Activities to include as a minimum: 10.0-2.0-2.0-1 Events, activities, deliverable items and milestones, with: 10.0-2.0-2.0-1.0-1 The scheduled start/finish dates; total duration and total float; 10.0-2.0-2.0-1.0-2 Sequencing with applicable predecessor/successors; and 10.0-2.0-2.0-1.0-3 Progress or percent complete. 10.0-2.0-2.0-2 Critical Path(s); 10.0-2.0-2.0-3 The baseline and current information for each detailed activity to a tier three level for all project activities when possible; 10.0-2.0-2.0-4 The capability to roll up activities to a summary level; 10.0-2.0-2.0-5 Proposed payment milestones; 10.0-2.0-2.0-6 Identify the person/section or organization responsible for the work; 10.0-2.0-2.0-7 Delivery of associated documentation for review, approval and final delivery; and 10.0-2.0-2.0-8 Project dates for any major accomplishments not already covered as milestones. 10.0-2.0-3 During the System Qualification Phase of the contract, all reference to the work to be performed during the Production Phase of the contract will be referred to in time as "x number		

of weeks after a Contract Amendment authorizing the Production Phase". It is suggested that a period of 3 months between the completion of the System Qualification Phase and the Issuance by Canada of the Letter of Authorisation be factored in.

10.0-2.0-4 The MPS must include, as required, all progress review meetings, design review meetings, Contractor demonstrations, testing, inspections, deliverable preparation time frames, installation activities, training activities as well as acceptance and hand over activities.

10.0-2.0-5 The MPS must clearly portray the inter-dependencies among all tasks, events, activities and deliverables. The requirements for delivery or preparation of Government Furnished Equipment (GFE) and Government Furnished Information (GFI), including equipment and facilities, must be clearly indicated.

10.0-2.0-6 The MPS status reporting requirements must be as follows:

10.0-2.0-6.0-1 The "as of date" must be indicated by a vertical line extending from the appropriate point of the time scale and clearly labelled in both written form and graphically on any charts (Gantt etc.);

10.0-2.0-6.0-2 Progress indications and planned or actual schedule slippage/accelerations of the current schedule must be clearly shown in relation to the baseline schedule; and

10.0-2.0-6.0-3 Updates to the MPS must clearly indicate actual progress to a specific date against a schedule baseline. Any changes in activity duration that impact on the baseline completion date for the project must be agreed to between the contractor and Canada.

10.0-2.0-7 The MPS must also include the associated network diagram (activity-on-node) showing network logic, mandatory, discretionary and external activity dependencies.

10.0-2.0-8 The MPS must include a detailed legend depicting the meaning of all symbols, abbreviations and colours utilized; and

10.0-2.0-9 The MPS must include a listing of constraints and assumptions used in order to develop the MPS activity duration, activity dependencies and associated network logic.

1.4 DID PM-004 Progress Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Progress Report		2 Data Item Number PM-004
3 Description / Purpose 3.0-1 The Progress Report summarizes the Contractor's progress in relation to the project milestones, schedules, plans and deliverable end items. It provides the status of the work achieved versus that planned, highlights problem areas and the corrective actions being taken to resolve the issues.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 The Progress Report must be prepared in the Contractor's format and must include the following information: 10.0-1.0-1 Executive summary covering significant elements of the report; 10.0-1.0-2 Description of progress on the MPS with concise explanation of any discrepancies; 10.0-1.0-3 Risk Status Update: a. Identification of any new risks; b. update on medium and high risks; and c. update on risk priority listing; 10.0-1.0-4 Progress against milestones, expected date of completion of near milestones, problem areas and work around plans where required; 10.0-1.0-5 Production status against each major deliverable, the time phase of significant stages of production and the time phase of testing, verification, demonstration and acceptance activities requiring DND participation; 10.0-1.0-6 Current status of all technical, management and logistical problems, actions take or planed to resolve them, and their impact; 10.0-1.0-7 Status of data deliverables as called up in the CDRL; 10.0-1.0-8 Status of any Contract Change Proposals (CCP), Engineering Change Proposals (ECPs), Request For Deviation (RFDs) and Requests For Waiver (RFDs); 10.0-1.0-9 Outstanding action items as well as new problems/issues and any other areas of concern, interest or importance; 10.0-1.0-10 Overall financial review; and 10.0-1.0-11 Planned activities for the following reporting period.		

1.5 DID PM-005 Meeting Agenda

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Meeting Agenda		2 Data Item Number PM-005
3 Description / Purpose 3.0-1 Meeting Agendas provide an outline of the purpose, objectives and areas to be formally discussed at meetings.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 This DID integrates with DID PM-006 , Meeting Minutes.		
8 Originator PMO ISSP PCCO		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 Meeting Agendas must be prepared in the Contractor’s format. 10.0-2 Meeting Agendas must include, as a minimum, the following: 10.1 General 10.1.0-1 Meeting identification, number, scope, purpose and objectives; 10.1.0-2 Meeting venue, date, time, location, expected attendees and Level of Security; 10.2 Discussion Items 10.2.0-1 Opening remarks; 10.2.0-2 Agenda review; 10.2.0-3 Review of previous Minutes; 10.2.0-4 If the purpose of the meeting is a Project Review Meeting (PRM) the following agenda items must be included: 10.2.0-4.0-1 Review of Progress Report; 10.2.0-4.0-2 Review of Project Schedule - Status of current activities (in-progress & completed) - new duration estimates - impact on critical dates and milestones. 10.2.0-4.0-3 Review of Issue-Action Item Log (IAIL); 10.2.0-4.0-4 Review of Significant Risks; 10.2.0-5 If the purpose of the meeting is other than a PRM the following agenda items must be included: 10.2.0-5.0-1 Review of progress since last meeting; 10.2.0-5.0-2 Review of items by area of responsibility; Engineering and Technical, Integrated Logistics Support (ILS), EHS, Other; 10.2.0-5.0-3 Review of IAIL items pertinent to area of responsibility; 10.2.0-6 Open Discussion Items; 10.2.0-7 Next Meeting Date and Venue; and 10.2.0-8 Closing Remarks. 10.3 Special Requirements 10.3.0-1 This section must detail the requirement for visit clearances, security clearances, security arrangements, facilities, and any other pertinent information such as specific instruction on the timely distribution of any Canada/Contractor documentation or presentation material to be presented at the meeting.		

1.6 DID PM-006 Meeting Minutes

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Meeting Minutes		2 Data Item Number PM-006
3 Description / Purpose 3.0-1 Meeting Minutes record significant discussion and documents decisions taken at meetings.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 This DID integrates with DID PM-005 , Meeting Agenda		
8 Originator PMO ISSP PCCO		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 Meeting Minutes must be prepared in the Contractor's format. The format of the first submission will be subject to approval by Canada, and once approved, must become the standard for future submissions. 10.0-2 Meeting Minutes must include, as a minimum, the following: 10.0-2.0-1 Meeting identification, number, scope, purpose and objectives; 10.0-2.0-2 List of all attendees detailing title, responsibility and contact information; 10.0-2.0-3 Discussion Items - Including a summary record of proceedings and discussions, all agenda items must be covered; 10.0-2.0-4 Record of decisions taken, issue/Action Item (AI) responsibility and target date of completion of issues/AIs; 10.0-2.0-5 Proposed date, time and location of next meeting; 10.0-2.0-6 Signature blocks for both Contractor and Canada responsible representatives; and 10.0-2.0-7 Copies of all data and information tabled at the meeting. 10.0-3 Meeting Minutes must include a disclaimer that the minutes are a record of discussions only and do not constitute approval for contractual changes.		

1.7 DID PM-007 Issue-Action Item Log (IAIL)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Issue-Action Item Log (IAIL)		2 Data Item Number PM-007
3 Description / Purpose 3.0-1 The IAIL consists of itemized, dated and up-to-date records of all Contractor and Canada issue items with appropriate action/decisions detailed.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 The IAIL must be prepared in the Contractor's format. The format of the first submission will be subject to approval by Canada, and once approved, must become the standard. 10.0-2 The IAIL must contain the itemized records of issue/action items and must include, as a minimum: 10.0-2.0-1 Date opened; 10.0-2.0-2 Identification number; 10.0-2.0-3 Issue/AI description; 10.0-2.0-4 Meeting references to documents, minutes, reports or activity; 10.0-2.0-5 Issue/AI description; 10.0-2.0-6 Issue/AI raised by; 10.0-2.0-7 Due date for completion and actual date closed; 10.0-2.0-8 Issue/AI Owner; 10.0-2.0-9 Action Required/Decision; and 10.0-2.0-10 Status (Open or Closed).		

1.8 DID PM-008 Environmental, Health and Safety Assessment (EHSA)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Environmental, Health and Safety Assessment (EHSA)	2 Data Item Number PM-008	
3 Description / Purpose 3.0-1 The due diligence EHSA (Environmental Assessment) identifies and documents the environmental health and safety impact of the project, system, equipment, material and/or service provided by the Contractor throughout the various life cycle phases (design, engineering and manufacturing, test and evaluation, production and delivery, operation and maintenance, and demilitarization and disposal) and the mitigation measures required to reduce or eliminate significant environmental safety and health risks.		
4 Approval Date January 2009	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The EHSA must conform to the following standards and specifications, as per the requirements below: 7.0-1.0-1 A-EN-007-000/FP-001 DND Environmental Assessment Manual 7.0-1.0-2 Canadian Environmental Protection Act (CEPA), Schedule 1 http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=24374285-1&offset=14&toc=show#1 7.0-1.0-3 Accelerated Reduction/Elimination of Toxics (ARET) http://admmat.mil.ca/dglepm/dleps/documents/DLEPS6_ARETSubstancesList_e.pdf 7.0-1.0-4 National Pollutant Release Inventory (NPRI) http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm 7.0-1.0-5 List of Challenge Substances http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list_eng.html		
8 Originator PMO ISSP PCCO	9 Applicable Forms Figure 1 - Figure 5 to Annex CC, Appendix 2	
10 Preparation Instructions 10.1 Format 10.1.0-1 The EHSA must be in the Contractor's format and as further described herein, conformant to Electronic Information Environment (EIE) requirements. 10.2 Content 10.2.0-1 The EHSA must follow the principles and guidance contained within the DND Environmental Assessment Manual (A-EN-007-000/FP-001) but present the required information in the manner identified within this DID. The EHSA must identify and document the environmental, health and safety impact of the project, system, equipment, materiel and/or services provided by the Contractor throughout the life cycle, and the mitigation measures required to reduce or eliminate significant environmental, health and safety risks. The EHSA must address the above points in detail through the following parts and sections: 10.2.1 PART I - Registration Information 10.2.1.0-1 Title - The title must identify the primary system being reported upon (ISS) and a brief paragraph is to be located under the title that provides the description, purpose and primary role of		

the system being provided.

10.2.1.0-2 Base/Unit - This section must identify the applicable site specific affected by the provided equipment, materiel and/or support services

10.2.1.0-3 Registration -This section must state registration identifier of the EHSA - For ISSP, the registration number is DGLEPM 1484.

10.2.1.0-4 Project Location - This section must identify the physical locations affected by the provided equipment, materiel and/or support services, and/or as specified within the contract requirements.

10.2.1.0-5 Project Description Summary - this section must contain a brief description of the system, equipment, material and/or services being provided under following sub paragraphs:

10.2.1.0-5.0-1 General Description of the System. The section shall provide a description of the role, purpose, concept of operation, design characteristics, and performance capabilities of the system, throughout its entire life span. The major/significant construction materials, products and activities that contribute to the EHS impact shall be identified; and

10.2.1.0-5.0-2 Major Sub System. This section shall identify the major sub components of the system and provide a description of their purpose, function and/or role including any relevant steps or phases, such as operation and maintenance. The major/significant construction materials, products and activities that contribute to their EHS impact shall be identified.

10.2.1.0-6 Assessment Contact - this paragraph must contain the name, title, company name, phone number, and email address of the author of the report.

10.2.2 PART II - Environmental, Health and Safety Impact Assessment

10.2.2.0-1 Design - This section shall provide an overview on the origin of the project, system, equipment, materiel and/or service or activity being assessed and its design impact on environmental health and safety. Alternatives to the activities that were considered are to be included within this section, including reasons for non-adoption.

10.2.2.0-2 Major Sub System Assessment - This section shall provide, in tabular format, the following information (Figure 1 illustrates an example of the tabular format):

10.2.2.0-2.0-1 A listing of the EHS aspects (a sample list of possible aspects can be found at Enclosure A) and their hazards associated with each major sub system and component for each life cycle phase (engineering and manufacture, test and evaluation, production and delivery, operation and maintenance, demilitarization and disposal);

10.2.2.0-2.0-2 Clear identification of whether each major component and its consumables are a source of any of the following EHS hazards:

10.2.2.0-2.0-2.0-1 Ionising radiation (location and exposure levels) (for each activity the radiation hazard must be considered in both normal and non-normal situations);

10.2.2.0-2.0-2.0-2 Electromagnetic radiation (location and frequencies);

10.2.2.0-2.0-2.0-3 Noise (location and intensity);

10.2.2.0-2.0-2.0-4 Vibration (location and frequency);

10.2.2.0-2.0-2.0-5 Hazardous gases;

10.2.2.0-2.0-2.0-6 Hazardous liquids;

10.2.2.0-2.0-2.0-7 Hazardous solids (source, concentration or quantity); and

10.2.2.0-2.0-2.0-8 Other - any other hazard associated with the specific equipment (e.g., CEPA Schedule 1, heavy metals, asbestos, ARET substances, NPRI substances, and Challenge Substances).

10.2.2.0-2.0-3 The identification of the substance(s) of concern with its chemical abstract

number (CAS #), and the identification of its control listing (e.g. NPRI, ARET, Challenge, CEPA Schedule 1);

10.2.2.0-2.0-4 The significance (amount or level) of the identified hazard, including compliance to regulatory requirements;

10.2.2.0-2.0-5 Justification for the use of all regulated products and those containing substances identified within the Accelerated Reduction/Elimination of Toxics (ARET,

<http://admmat.mil.ca/dglepm/dleps/documents/DLEPS6_ARETSubstancesList_e.pdf>),

National Pollutant Release Inventory (NPRI, http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm)

and/or List of Challenge Substances (http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list_eng.html), and also for products containing heavy metals (heavy metals are those

identified within Schedule 1 of the Canadian Environmental Protection Act (CEPA)

<<http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=24374285-1&offset=14&toc=show#1>>);

10.2.2.0-2.0-6 The associated potential environmental, health and safety impacts from the identified hazards;

10.2.2.0-2.0-7 The mitigation measures or preventive measures necessary to reduce or eliminate the identified impacts or risks;

10.2.2.0-2.0-8 Compliance monitoring requirements (compliance monitoring verifies that mitigation measures were implemented);

10.2.2.0-2.0-9 Follow-Up plans (follow-ups plans verify the accuracy of an Environmental Assessment (EA) and/or determines the effectiveness of any mitigation measure). Identify the type and nature of any required follow-up plans; and

10.2.2.0-2.0-10 Reference to the applicable Material Safety Data Sheets (MSDS) for each identified hazardous substance.

10.2.2.0-3 Table of Hazardous Products. This section shall contain a list of all products, which are subject to the Hazardous Products Act and require a MSDS, and were identified in paragraph

10.2.2.0-2.0-2. The list shall include the product description/name, the product part number, the manufacturer name and address, the manufacturer's National Supply Code for Manufacturers (NSCM)/ Commercial and Government Entity (CAGE) Code, NATO Stock Number (NSN - if applicable) and unique Defence Resource Management Information System (DRMIS) identifier (if it exists), all Workplace Hazardous Materials Information System (WHMIS) Class(es) (eg A [Class A-Compressed Gas], B5 [Class B Flammable and Combustible Material, Division 5: Flammable Aerosol]), the full Transportation of Dangerous Goods Class (eg 2.3 [Class 2 Compressed Gases, Division 3: Poisonous Gases]), and the cross-reference to Figure 5 MSDS identifier. MSDS of these products shall be appended to the EHSA within Figure 5 and clearly marked with their cross-linked identifier at the top right of the page. An example of this listing is provided at Figure 2.

10.2.2.0-4 Mercury. This section shall contain a list of information pertaining to all occurrences of mercury associated with the major sub-systems and components, or project activity. The listing shall contain the following information in tabular format (Figure 3 illustrates an example of the tabular format):

10.2.2.0-4.0-1 Equipment NSN (for equipment containing mercury);

10.2.2.0-4.0-2 Equipment Description;

10.2.2.0-4.0-3 NSN or DRMIS unique identifier of the item containing mercury (if it exists);

10.2.2.0-4.0-4 Manufacturer of mercury-containing item;

10.2.2.0-4.0-5 Date of manufacture of the mercury-containing item;

10.2.2.0-4.0-6 Manufacturer part number of mercury-containing item;
10.2.2.0-4.0-7 NSCM/CAGE Code of items containing mercury;
10.2.2.0-4.0-8 Description of mercury-containing item;
10.2.2.0-4.0-9 The form of mercury (e.g. liquid, vapour, amalgam, metal halide);
10.2.2.0-4.0-10 Quantity of mercury (kg mass);
10.2.2.0-4.0-11 Volume of mercury (L) and its concentration in ppm (either 10.2.2.0-4.0-10 or 10.2.2.0-4.0-11 is required, however, both can be provided);
10.2.2.0-4.0-12 The location of the mercury-containing item(s);
10.2.2.0-4.0-13 Quantity of mercury containing item per reported equipment; and
10.2.2.0-4.0-14 Total Quantity of mercury within the reported equipment (for kg mass and volume/concentration).

10.2.2.0-5 Consultation

10.2.2.0-5.0-1 Internal. This section must list all applicable internal consultations performed in order to produce the EHSA; and

10.2.2.0-5.0-2 External. This section must list all applicable external consultation performed in order to produce the EHSA.

10.2.2.0-6 Documentation

10.2.2.0-6.0-1 Regulations and Policies. This section must list all applicable Canadian regulations and policies; and

10.2.2.0-6.0-2 Other references. This section must list the references and material used to produce the EHSA.

10.2.2.0-7 Site Visits - This section must comment on the reasons and results of visits conducted; otherwise it must be titled and identified as "No site visits required".

10.2.2.0-8 Existing Environment - This section must identify the boundaries of the environment considered and provide an appropriate description of the environment(s) affected.

10.2.2.0-9 Environmental Effects - This section must contain a completed matrix for each of the applicable activities (and their associated sub-activities) involving the system throughout the life cycle phases (design, engineering and manufacturing, test and evaluation, production and delivery, operation and maintenance, demilitarization and disposal). For components with Ionizing Radiation Hazard, each activity must be considered in both normal and non-normal situations.

10.2.2.0-10 To identify potential environmental, health and safety effects, each matrix must be completed as follows:

10.2.2.0-10.0-1 In the left-hand column, list the system components/activities. Across the top of the matrix, list the Valued Ecosystem Components (VECs) relevant to the study area.

10.2.2.0-10.0-2 Examine each place where a component intersects with an environmental component for each life cycle and determine whether there is a potential significant effect.

Figure 4 illustrates a sample matrix. The VECs on the matrix are only a guide to typical environmental components. Adapt the matrix as needed in accordance with the site specific VECs.

10.2.2.0-11 Summary of Hazards and Impacts - This section shall present the written results on the investigations of the impact of the environmental, health and safety aspects/hazards throughout the different life cycle phases. Each sub-system or activity shall be addressed for their environmental impact or risks as identified in Figure 1 and Figure 4. All regulated substances/activities shall be assessed for compliance and problem areas identified with mitigations measures. Each sub-system or activity shall be addressed under the following headings (sub-titles may be used for each Life

Cycle Phase, Sub-System/Activity):

10.2.2.0-11.0-1 Description of Subsystem/Component/Activity: A description of the sub-system, equipment, component, material, service or activity and its interaction with the environment;

10.2.2.0-11.0-2 EHS Aspect: Identify the EHS Aspects (Enclosure A refers) associated with the Subsystem/Component/Activity throughout all life cycle phases (Figure 1 refers).

10.2.2.0-11.0-3 VECs Affected: Identify the VECs associated with the Subsystem/Component/Activity throughout all life cycle phases (Figure 4 refers)

10.2.2.0-11.0-4 Component/Activity Impact: Prediction of the environmental effects from each interaction and its impact, as well as any impacts that will require mitigation measures;

10.2.2.0-11.0-5 Mitigations Measures: Identify the appropriate mitigation measures required. Mitigation is the elimination, reduction, or control of adverse environmental effects, including restitution for any damage to the environment through replacement, restoration, compensation, or any other means.

10.2.2.0-11.0-6 Significance: Assess/Determine the environmental impact with mitigation measures in place. The EA must determine whether the environmental affects are adverse, likely, and are they significant.

10.2.2.0-11.0-7 Compliance Monitoring: Identify what compliance monitoring is required and the responsible person/office to conduct the monitoring.

10.2.2.0-11.0-8 Follow-Up Plans: Predict any cumulative/residual effects and the need to follow-up. Identify the follow-up plans with the reasons for them.

10.2.3 PART III - Conclusion

10.2.3.0-1 This section shall summarize the main findings of the EHSA and identify the major mitigation measures taken or required to assure sustainable development, and identify the major follow-up measures necessary.

10.2.4 Figures and Enclosures

10.2.4.0-1 Figure 1 - Major Subsystem Assessment Table

10.2.4.0-2 Figure 2 - Table of Hazardous Products

10.2.4.0-3 Figure 3 - Items Containing Mercury

10.2.4.0-4 Figure 4 - Environmental Effects Matrix

10.2.4.0-5 Figure 5 - MSDS (Figure 5 shall contain the MSDS for all hazardous products identified in section 10.2.2.0-2.0-2 and 10.2.2.0-3.)

10.2.4.0-6 Enclosure A - Listing of Possible EHS Aspects

10.2.5 For all figures, see section 5, Figures.

10.2.6 Enclosure A - Listing of Possible EHS Aspects

10.2.6.0-1 An EHS aspect is defined as an activity, product or service that can interact with the environment, human health or safety. The list provided herein is not inclusive, and is only an example of what might be considered when preparing an EHSA. Aspects and their risk are those associated with the activity, product or service being specifically addressed. Regulations or standards may, or may not, apply to the specific EHS aspect.

10.2.6.0-2 1. ARET substances

10.2.6.0-3 2. Adhesives and Sealants

10.2.6.0-4 3. Air Conditioning Agents / Refrigerants

10.2.6.0-5 4. Asbestos

10.2.6.0-6 5. Batteries

10.2.6.0-7	6.	Bulk and Weight of Components
10.2.6.0-8	7.	CEPA Schedule 1 Substances
10.2.6.0-9	8.	Challenge to Industry Substances
10.2.6.0-10	9.	Cleaning and cleaners
10.2.6.0-11	10.	Coatings/Painting
10.2.6.0-12	11.	Compressed Gases/Fluids
10.2.6.0-13	12.	Contamination / Decontamination
10.2.6.0-14	13.	Demilitarization and Disposal
10.2.6.0-15	14.	Disposal
10.2.6.0-16	15.	Electrical and Power Sources
10.2.6.0-17	16.	Emission Hazards - Enclosed Spaces
10.2.6.0-18	17.	Equipment Condition
10.2.6.0-19	18.	Exhaust Emissions
10.2.6.0-20	19.	Fire Extinguishing Systems
10.2.6.0-21	20.	Firing Damage and Damage from operations
10.2.6.0-22	21.	Floorboards and Hull Plates
10.2.6.0-23	22.	Fuel Consumption
10.2.6.0-24	23.	Fuels, Fluids and Lubricants
10.2.6.0-25	24.	Hazardous consumables
10.2.6.0-26	25.	Heavy Metals
10.2.6.0-27	26.	High Temperature Hazards
10.2.6.0-28	27.	Ionizing Radiation - Normal and Abnormal
10.2.6.0-29	28.	Iron / Aluminum Metal Work (Thermite)
10.2.6.0-30	29.	Lasers
10.2.6.0-31	30.	Materials of environmental concern
10.2.6.0-32	31.	Mercury Sources
10.2.6.0-33	32.	Metal Work
10.2.6.0-34	33.	Modifications
10.2.6.0-35	34.	NPRI substances
10.2.6.0-36	35.	Noise, Vibrations and Ground Pressure
10.2.6.0-37	36.	Non-Ionizing Radiation - Lasers, UV, Radio, Radar
10.2.6.0-38	37.	Operator Safety
10.2.6.0-39	38.	Ozone Depleting Substances
10.2.6.0-40	39.	Precious Metals
10.2.6.0-41	40.	Polychlorinated Biphenyls
10.2.6.0-42	41.	Radars
10.2.6.0-43	42.	Recycling and Reusing
10.2.6.0-44	43.	Regulated Activity/Material/Substance
10.2.6.0-45	44.	Rubbers, Plastics, Polymers and Composites
10.2.6.0-46	45.	Shielding
10.2.6.0-47	46.	Spills and Spill Reporting
10.2.6.0-48	47.	Storage - Fuels, Fluids and Lubricants
10.2.6.0-49	48.	Tires
10.2.6.0-50	49.	Wastes - Solids, Liquids and Gases
10.2.6.0-51	50.	Wastes - Hazardous Solids, Liquids and Gases

1.9 DID PM-009 Intellectual Property (IP) Lists

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Intellectual Property (IP) Lists	2 Data Item Number PM-009	
3 Description / Purpose 3.0-1 The IP Lists provide a complete list of all intellectual property, both Background and Foreground IP, used by the Contractor and Subcontractors for the design, development and manufacture of the ISSP. The lists also include any Background IP related to the ISSP, which the Contractor does not own and which the Contractor cannot provide access to Canada.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The IP Lists must be prepared in Contractor format. 10.0-2 The IP Lists must list Background and Foreground IP separately. 10.0-3 The IP Lists must include the following information for Foreground IP: 10.0-3.0-1 Document Number; 10.0-3.0-2 Revision Level; 10.0-3.0-3 Document Title; 10.0-3.0-4 IP Registration Number if applicable (e.g. patent number); 10.0-3.0-5 Date of Issue; 10.0-3.0-6 Originator (Company Name and Address); 10.0-3.0-7 Current Owner (if different from Originator); and 10.0-3.0-8 Licensed rights to DND, if applicable. 10.0-4 The IP Lists must include the following information for Background IP that the Contractor can provide access to: 10.0-4.0-1 Document Number; 10.0-4.0-2 Revision Level; 10.0-4.0-3 Document Title; 10.0-4.0-4 IP Registration Number if applicable; 10.0-4.0-5 Date of Issue; 10.0-4.0-6 Originator (Company Name and Address); 10.0-4.0-7 Current Owner (if different from Originator); and 10.0-4.0-8 Licensed rights to DND, if applicable. 10.0-5 The IP Lists must include that Background IP related to the ISSP System that the Contractor does not own and cannot provide Canada access to. For any such Background IP the following information is required: 10.0-5.0-1 Document Number (if available/releasable); 10.0-5.0-2 Revision Level (if available/releasable); 10.0-5.0-3 Document Title (if available/releasable);		

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Amendment No. - N° de la modif.

Buyer ID - Id de l'acheteur
004RA

Client Reference No. - N° de réf. du client
W8476-112965

File No. - N° du dossier
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10.0-5.0-4 IP Registration Number if applicable;
10.0-5.0-5 Date of Issue (if available/releasable);
10.0-5.0-6 Originator (Company Name and Address); and
10.0-5.0-7 Current Owner (if different from Originator).
10.0-6 A brief description of the Background IP must be provided for those items where the requested information at 10.0-5 is not provided.

1.10 DID PM-010 Government Property Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Government Property Report		2 Data Item Number PM-010
3 Description / Purpose 3.0-1 The Government Property Report provides the status of GFE and GFI.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 The Government Property Report must be prepared in Contractor format. 10.0-2 The report must provide an inventory of GFE and GFI. 10.0-3 The report must include the following information for Government Property in the Contractor's possession: 10.0-3.0-1 For each item of GFE: 10.0-3.0-1.0-1 GFE item number; 10.0-3.0-1.0-2 The Contractor's assigned serial number (if applicable); 10.0-3.0-1.0-3 A narrative description of the item; 10.0-3.0-1.0-4 Manufacturer's Part Number / Manufacturer's Reference Number; 10.0-3.0-1.0-5 NSCM; 10.0-3.0-1.0-6 NSN; 10.0-3.0-1.0-7 Nomenclature; 10.0-3.0-1.0-8 The estimated value of the item; 10.0-3.0-1.0-9 Location of the item; 10.0-3.0-1.0-10 The status and condition of the item; and 10.0-3.0-1.0-11 The expected date of the next required re-calibration or overhaul (if required). 10.0-3.0-2 For each item of GFI: 10.0-3.0-2.0-1 GFI item number; and 10.0-3.0-2.0-2 A narrative description of the item. 10.0-4 The report must provide a listing of any shortages in the supply of Government Property. The listing must include Government Property type and item number, quantity short or overdue and due date.		

2 SYSTEM ENGINEERING

2.1 DID SE-001 System Engineering Management Plan (SEMP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title System Engineering Management Plan (SEMP)	2 Data Item Number SE-001	
3 Description / Purpose 3.0-1 The SEMP describes the Contractor's Engineering policies, plans and processes for scheduling, planning, organizing, directing, conducting, controlling and coordinating all Engineering effort under the contract and sets forth the Contractor's Engineering Program.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The SEMP is a subordinate plan of the PMP. 7.0-2 The Configuration Management (CM) Program documented in the CM Plan (CMP) supports the activities described in the SEMP. 7.0-3 The Quality of the process and outcomes resulting from performing the activities described in the SEMP must be assured by the processes described in the QAP. 7.0-4 The Technical Data Management Plan (TDMP) is a supporting plan to the SEMP. It describes the process that is to be used to manage the documentation resulting from performing the engineering work. 7.0-5 The Verification and Qualification Plan (VQP) is a subordinate plan to the SEMP which establishes the process by which the Contractor verifies the Work and Qualifies the System and its System Elements. 7.0-6 The System Acceptance Test Plan (SATP) is a subordinate plan to the SEMP. 7.0-7 The SEMP conforms to ISO/IEC 15289, references: 7.4, 10.18, 10.20, 10.79.		
8 Originator PMO ISSP Chief Engineer	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Source documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor's own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The SEMP must conform to the requirements for the generic content guidelines for plans, section 7.4 of ISO/IEC 15289. 10.3.0-2 The SEMP must conform with the requirements of ISO/IEC 15289 sections 10.18, 10.20, 10.79 in as tailored to meet the requirements of the SOW. 10.3.0-3 The SEMP must contain the following information, as it applies to Engineering: 10.3.0-3.0-1 Organisation 10.3.0-3.0-2 Roles and Responsibilities 10.3.0-3.0-3 Engineering Management processes 10.3.0-3.0-4 Engineering Processes		

10.3.0-3.0-5 Review process

10.4 Specific Content

10.4.1 Organisation

10.4.1.0-1 The SEMP must describe the Contractor's engineering organisation and that of any integral sub-contractors. The SEMP must clearly describe the relationship between the contractor and the Engineering organisations of any companies that the contractor may be teamed or partnered with.

10.4.2 Roles and Responsibilities

10.4.2.0-1 The SEMP must describe the roles and responsibilities of all groups in the engineering process and the relationship between the Contractor and sub-contractors. The SEMP must detail the Engineering Section's internal operating relationships within the company including integration with the overall Project Management Organization, and the external operating relationships with subcontractors, for the Contract.

10.4.3 Engineering Management

10.4.3.0-1 The SEMP must describe the contractor's tools and processes for managing the engineering work to ensure the engineering work is conducted in accordance with the plan.

10.4.4 Engineering Processes

10.4.4.0-1 The SEMP must describe how the Contractor will perform the activities (process descriptions) for the Engineering Work requirements specified in the SOW. Specifically the SEMP must define the processes and standards to be used for each of the engineering service areas of the SOW:

- 10.4.4.0-1.0-1 Systems Engineering;
- 10.4.4.0-1.0-2 Human Factors Engineering (HFE);
- 10.4.4.0-1.0-3 Hardware Engineering;
- 10.4.4.0-1.0-4 Software Engineering;
- 10.4.4.0-1.0-5 Speciality Engineering, including Testing, Reliability and Maintainability (RAM), Electromagnetic Compatibility (EMC), and Security; and
- 10.4.4.0-1.0-6 Safety.

10.4.4.1 RAM Program

10.4.4.1.0-1 The SEMP must describe the Contractor's RAM Program for ISS. The RAM process must describe the activities to achieve the ISS Reliability, Maintainability, Built-In-Test (BIT) and Service Life performance requirements specified in the TPS (Annex CB).

10.4.4.1.0-2 The RAM Program must cover:

- 10.4.4.1.0-2.0-1 hardware, software and firmware.
- 10.4.4.1.0-2.0-2 the full system life cycle

10.4.4.1.0-3 The RAM Program must identify any special RAM risks or issues associated with the contractor's solution, and describe the planned mitigation action.

10.4.4.1.0-4 The RAM process description must provide the following information for each activity:

- 10.4.4.1.0-4.0-1 describe the specific objective of the activity and rationale for selection;
- 10.4.4.1.0-4.0-2 describe how the activity will be conducted;
- 10.4.4.1.0-4.0-3 identify the specific product or outcome expected from the activity;
- 10.4.4.1.0-4.0-4 show how the activity fits into the overall program (i.e., schedule and dependencies); and
- 10.4.4.1.0-4.0-5 identify any standards (commercial, military and/or company) that will guide or

govern the activity.

10.4.4.1.0-5 The RAM Program must also describe:

10.4.4.1.0-5.0-1 how the selected RAM activities will be integrated into the product design and manufacturing processes; and

10.4.4.1.0-5.0-2 how the results of the RAM activities will be used to support other activities, such as logistics planning, supportability analysis, safety analysis, etc.

10.4.4.1.0-5.0-3 For non-developmental or Commercial Off The Shelf (COTS) products making up part or all of the system, the RAM Program for these products can be limited to the design and validation of any integration or required modifications, plus assurances that the manufacturing process retains the inherent designed in RAM characteristics.

10.4.5 Reviews

10.4.5.0-1 The SEMP must describe the technical reviews the Contractor plans to conduct in support of the work of the SOW. The description of the various technical reviews must include detailed descriptions of the review methodologies, entry criteria, review tasks and exit criteria, for each specific review.

10.4.6 Performance Measurement

10.4.6.0-1 The Contractor must describe the proposed Engineering Performance Measures and the associated Measurement and Analysis process.

2.2 DID SE-002 Interface Control Document (ICD)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Interface Control Document (ICD)		2 Data Item Number SE-002
3 Description / Purpose 3.0-1 The ICD describes the designed hardware and software interface of the ISS-S to allow for the integration with an external system. Note that a single document may be used to capture the interface design for multiple interfacing entities by repeating relevant sections for each interface.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The ICD describes the interface specification between the ISS-S and a potential External device or the interface specification between two ISS-S internal devices.		
8 Originator PMO ISSP Chief Engineer		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 This DID is not meant to be restrictive, and may be tailored by the contractor with the agreement of the Technical Authority. The resultant document may be prepared in contractor’s format, and shall contain sufficient detail to fully address the following subjects: 10.1 Introduction 10.1.0-1 Give a high-level overview of the document. Present a system context using appropriate diagrams and description. The Contractor may use the Department of National Defence Architectural Framework (DNDAF) view, copy the System Abstract paragraph from the System Overview (SOV) document to establish the system context. Identify the interfacing entities (e.g. system-of-interest, system elements, Computer Software Configuration Items (CSCIs), users or computer software units), and describe the purpose of the interface at a high level. 10.2 Applicable Standards and Specifications 10.2.0-1 Applicable version of ISO/IEC 15289 at contract time. 10.2.0-2 DND/CF Architecture Framework (DNDAF) Version 1.6 10.3 Design Constraints 10.3.0-1 Describe the design features resulting from any a-priori decisions constraining this design document. 10.4 Required Interface 10.4.1 General 10.4.1.0-1 In the subsections that follow, provide the detailed description, responsibilities, coordinate systems, and numerical specifications as they relate to the interface boundaries. 10.4.1.1 Interface Description 10.4.1.1.0-1 Describe the hardware and software interface as defined in the system specification. Use tables, figures, or drawings as appropriate. 10.4.1.2 Interface Responsibilities 10.4.1.2.0-1 Define interface hardware, software and interface boundary responsibilities to depict the interface plane. Use tables, figures, or drawings as appropriate. 10.4.1.3 Engineering Units, Tolerances, and Conversions 10.4.1.3.0-1 Define the measurement units along with tolerances. If required, define the conversion		

between measurement systems.

10.4.2 Interface Specifications

10.4.2.0-1 In the subsections that follow, define limiting values (structural, data wise, etc.) at the interface. The safety and security aspect will be described in these subsections. The various interface controls (mechanical, electronic and software) need to be describe when required in their proper section.

10.4.3 Interface boundary

10.4.3.0-1 Define the interface specifications on each side of the interface boundary.

10.4.3.1 Envelope

10.4.3.1.0-1 Define the mechanical dimensions and range of motions of the interface when appropriate.

10.4.3.2 Structural/Mechanical

10.4.3.2.0-1 Define the derived interface specification based on the allocated specifications contained in the applicable specification pertaining to that side of the interface.

10.4.3.2.0-2 For example, this subsection should cover attachment, stiffness, latching, and mechanisms.

10.4.3.3 Fluid

10.4.3.3.0-1 Define the derived interface specification based on the allocated specifications contained in the applicable specification pertaining to that side of the interface. E.g. this subsection should cover fluid areas such as thermal control, O2, potable, fuel cell fuel and water.

10.4.3.4 Electrical (Power)

10.4.3.4.0-1 Define the derived interface specification based on the allocated specifications contained in the applicable specification pertaining to that side of the interface. For example, this subsection should cover various electric current, voltage, wattage, and resistance levels.

10.4.3.5 Electronic (Signal)

10.4.3.5.0-1 Define the derived interface specification based on the allocated specifications contained in the applicable specification pertaining to that side of the interface.

10.4.3.5.0-2 For example, this subsection should cover various signal types such as audio, video, command data handling, and navigation.

10.4.3.6 Software and Data

10.4.3.6.0-1 Define the derived interface specification based on the applicable specification pertaining to that side of the interface. For example, this subsection should cover various data standards, message timing, protocols, error detection/correction, functions, initialization, and status. This section should also cover when appropriate: special processing or data handling functions pertaining to security, safety, reliability, integrity, authentication, encryption/decryption, encoding, compression, buffering, burst transmission, etc.

10.4.3.7 Environments

10.4.3.7.0-1 Define the derived interface specification based on the allocated specifications contained in the applicable specification pertaining to that side of the interface, e.g. temperature and humidity limitations of the interface, explosive environment, Electromagnetic Interference (EMI)/EMC.

10.4.3.7.1 Electromagnetic Effects

10.4.3.7.1.1 EMC

10.4.3.7.1.1.0-1 Define the appropriate electromagnetic compatibility specifications.

10.4.3.7.1.2 EMI

10.4.3.7.1.2.0-1 Define the appropriate electromagnetic interference specifications.

10.4.3.7.1.3 Grounding

10.4.3.7.1.3.0-1 Define the appropriate grounding specifications.

10.4.3.7.1.4 Bonding

10.4.3.7.1.4.0-1 Define the appropriate bonding specifications.

10.4.3.7.1.5 Cable and Wire Design

10.4.3.7.1.5.0-1 Define the appropriate cable and wire design specifications.

10.4.3.8 Acoustic

10.4.3.8.0-1 Define the appropriate acoustics specifications. Define the acoustic noise levels on each side of the interface in accordance with program or project specifications.

10.4.3.9 Structural Loads

10.4.3.9.0-1 Define the appropriate structural loads specifications. Define the mated loads that each end item must accommodate.

10.4.3.10 Vibroacoustic

10.4.3.10.0-1 Define the appropriate vibroacoustic specifications. Define the vibroacoustic loads that each end item must accommodate.

10.4.4 Other Types of Interface Specifications

10.4.4.0-1 Define other types of unique interface specifications that may be applicable.

10.5 Performance

10.5.0-1 State the expected performance of the interface based on the proposed design. Use appropriate metrics (e.g. baud rate, processing time, response time, throughput, etc).

10.6 Specification Traceability

10.6.0-1 Cross-reference the interface design features and trace them to the relevant requirements in the ISS-S TPS when applicable.

2.3 DID SE-003 Battery System Description

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Battery System Description	2 Data Item Number SE-003	
3 Description / Purpose 3.0-1 To provide the required information such that the PMO can procure a charging capability and other ancillary equipment, while respecting the warranty condition of the battery manufacturers.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Battery System Description conforms to ISO/IEC 15289, references: 7.3, 10.71, 10.72 and 10.73.		
8 Originator PMO ISSP Chief Engineer	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Source documents 10.2 Format 10.3 General 10.3.0-1 The Battery System Description must conform to the requirements for the generic content guidelines for descriptions, section 7.3 of ISO/IEC 15289. 10.3.0-2 The Battery System Description must be consistent with the requirements of ISO/IEC 15289 sections 10.71, 10.72 and 10.73 in the appropriate sections. 10.3.0-3 The Battery System Description must capture the technical information on all ISS-S power sources identified as follows: <ul style="list-style-type: none"> • ISS Non-Rechargeable Batteries; • ISS Rechargeable Batteries; and • ISS-ES Internal Batteries (if provided). As the ISS-S may require more than one battery to ensure proper functioning and meet the autonomy requirements, each of the battery types or models used will need to be technically described. Batteries can be categorised by type (rechargeable or non-rechargeable) and by model e.g. two batteries could be of the same type, same chemistry but have a different size therefore a different model part number. Through this DID, the main contractor will need to fill for each battery type and model a Battery System Description. The required information content is described in the following sub-section and sections and need to be group to produce a Battery System Description for each battery used on the ISS-S.		
10.4 General, Battery System Core Information 10.4.0-1 The battery characteristics need to be captured hereafter.		
10.4.1 Conformance to Standards 10.4.1.0-1 This section must describe the international, national, military and industry standards to which the batteries and their components complies with e.g. MIL-PRF-32052, MIL-PRF-32271, MIL-B-18E and MIL-STD-461, ER14505, SMBus.		
10.4.2 Battery Core Electrical Specification 10.4.2.0-1 This section must describe the technical specifications of all supported batteries. This section must at least present the information found in the Technical Datasheet e.g. Chemistry type,		

NSN (if it exists), voltage range, average or nominal voltage, cut-off voltage, nominal capacity at a specific temperature and discharge rate, maximum discharge current, energy density, operating temperature range, storage temperature range, standard charge rate and current, dimensions, operation life in number of cycles, transportation details.

10.4.3 Battery Core Physical Dimension

10.4.3.0-1 This section must include the detailed physical aspects of all supported batteries. This section must include the following characteristics of the item(s): width, length and height, weight. Furthermore, unusual dimensions due to form factors need to be specified. The type, number of contacts and Original Equipment Manufacturer (OEM) part number of the connector(s) need to be included here. This can easily be presented in a technical drawing with its tolerances.

10.5 ISS Non-Rechargeable Batteries Specificity

10.5.1 ISS Non-Rechargeable Battery Communication Interface

10.5.1.0-1 This section must include the detailed communication protocol to interrogate the ISS Non-Rechargeable Batteries on its State-Of-Health which include its State-Of-Charge (if State-of-Health and State-Of-Charge capabilities are provided). The content parameters, format and the content meaning must be explained.

10.6 ISS Rechargeable Batteries Specificity

10.6.1 ISS Rechargeable Battery Charging Specific Details

10.6.1.0-1 This section must contain the specific details and processes that will permit the charge and recharge of the ISS Rechargeable Batteries in a safe manner for the users and from the stand point of the battery warranty as stated above. Such information includes the nominal charge rate (slow charge), the maximum recharge current (fast charge), the charging cut-off temperature, the standard charging algorithm for the specific battery chemistry and any departures from it should be specified to ensure that the charging regime does not present a safety hazards and conform to the warranty life time terms and references.

10.6.2 ISS Rechargeable Battery Specificity, Standards, Modifications or Departures

10.6.2.0-1 If the ISS Rechargeable Batteries conform to a known and recognised standard (e.g. the System Management Bus (SMBus) version 1.1), any departure or addition to the standard which would have an impact on the charging regime of the batteries must be described.

10.6.2.0-2 Furthermore, for batteries using and gathering State-of-Health, the content parameters, format of the intelligent battery or batteries State-of-Health and its State-of-Charge need to be also described, its content meaning explained and the methodology to access it.

10.7 ISS-ES Internal Batteries Specificity

10.7.1 ISS-ES Internal Battery Charging Specific Details

10.7.1.0-1 This section must contain the specific details and processes that will permit the charge and recharge of the ISS-ES Internal Batteries in a safe manner for the users and from the stand point of the battery warranty as stated above. Such information includes the nominal charge rate (slow charge), the maximum recharge current (fast charge), the charging cut-off temperature, the standard charging algorithm for the specific battery chemistry and any departures from it should be specified to ensure that the charging regime does not present a safety hazards and conform to the warranty life time terms and references.

10.7.2 ISS-ES Internal Battery Specificity, Standards, Modifications or Departures

10.7.2.0-1 If the ISS-ES Internal Batteries conform to a known and recognised standard (e.g. the System Management Bus (SMBus) version 1.1), any departure or addition to the standard which would have an impact on the charging regime of the batteries must be described.

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10.7.2.0-2 Furthermore, for batteries using and gathering State-of-Health, the content parameters, format of the intelligent battery or batteries State-of-Health and its State-of-Charge need to be also described, its content meaning explained and the methodology to access it.

2.4 DID SE-004 Verification Qualification Plan (VQP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Verification Qualification Plan (VQP)		2 Data Item Number SE-004
3 Description / Purpose 3.0-1 The VQP describes the Contractor's plans and processes for scheduling, planning, organizing, directing, conducting, controlling and coordinating all Verification and Qualification effort under the contract and sets forth the Contractor's Verification Program.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The VQP is a subordinate plan of the SEMP. 7.0-2 The VQP and information items, records and data described in the VQP are placed under CM in accordance with the CMP. 7.0-3 The VQP describes elements of ISO/IEC/IEEE 15288:2008 reference: 6.4.6.3, ISO/IEC/IEEE 12207:2008 references: 6.4.6, 7.1.7, 7.2.4. 7.0-4 The VQP conforms to ISO/IEC 15289, references: 7.4, 10.82.		
8 Originator PMO ISSP Chief Engineer		9 Applicable Forms Requirements Traceability Verification Matrix (RTVM)
10 Preparation Instructions 10.1 Source Documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor's own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The VQP must conform to the requirements for the generic content guidelines for plans, section 7.4 of ISO/IEC 15289. 10.3.0-2 The VQP must conform to the requirements of ISO/IEC 15289 clause 10.82 specific information items, as tailored to meet the requirements of the SOW. 10.4 Specific Content 10.4.1 Verification 10.4.1.0-1 The VQP will address unit, system, software and qualification tests. It enables an assessment of the adequacy of planning for testing. It includes the following: 10.4.1.0-1.0-1 the verification strategy and how the verification process will be conducted 10.4.1.0-1.0-2 system and software products subject to verification 10.4.1.0-1.0-3 the required verification tasks to address all TPS requirements in order to fully achieve the Verification and Qualification (VQ) of the ISS. 10.4.1.0-1.0-4 the organizational relationships and degrees of independence between development activities and verification activities 10.4.1.0-1.0-5 preliminary test requirements and a schedule for software and system integration 10.4.1.0-1.0-6 the scope, approach, resources, and schedule of the testing activities. As events near the schedule for each test type, the test schedule should be updated to provide more		

detailed information.

10.4.1.0-1.0-7 the methods used for verification, such as analysis, evaluation, review, inspection, assessment, and testing of the products and the processes that produced the products

10.4.1.0-1.0-8 test objectives, mapping of tests to covered requirements

10.4.1.0-1.0-9 For each software integration task and test, a list of applicable software units, software components and previously integrated software items

10.4.1.0-1.0-10 the items to be tested, the features to be tested, the testing tasks to be performed

10.4.1.0-1.0-11 the assigned responsibilities for executing the test procedures, including the locations and organizations for the test manager, testers, quality assurance, configuration management, test evaluation and reporting, and supplier involvement in testing

10.4.1.0-1.0-12 description of the test environment, test tools, and supporting hardware and software

10.4.2 Analysis and Inspection Verification Methods

10.4.2.0-1 Canada has specified Verification/Qualification Methods for each requirement of the TPS and UAPS.

10.4.2.0-2 The VQP must describe the process for analysis and inspection methods.

10.4.3 Verification Cross-reference Matrix

10.4.3.0-1 The VQP must refer to the RTVM, or contain a traceability cross-reference matrix which traces and cross-references the TPS and UAPS requirement to the Verification/Qualification method, applicable Qualification and Test Description and Procedures (QTDPs) and the applicable Test or Verification Report.

2.5 DID SE-005 Qualification Test Description and Procedures (QTDP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Qualification Test Description and Procedures (QTDP)		2 Data Item Number SE-005
3 Description / Purpose 3.0-1 The QTDP documents how qualification testing of an ISS system element or service will be conducted, and the conditions that are to be satisfied before qualification. The qualification test procedure provides a set of tests so that each qualification requirement is addressed for the system or software items. It includes mapping of requirements to qualification tests and overall requirements to perform qualification testing, test objectives, test criteria, test configurations, preparations, test cases (inputs, steps, and outputs), expected results, and post-test analysis procedures.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 QTDP is subordinate to the VQP. 7.0-2 The QTDP conforms to ISO/IEC 15289, references: 7.3, 7.5, 10.50.		
8 Originator PMO ISSP Chief Engineer		9 Applicable Forms N/A
10 Preparation Instructions 10.1 Source Documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor’s own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The QTDP must satisfy the requirements of ISO 15289 clause 7.3 Descriptions and 7.5 Procedures generic information types. 10.4 Specific Content 10.4.0-1 The QTDP must satisfy the specific information item requirements of ISO 15289 clause 10.50. 10.4.0-2 The QTDP must provide information on the items listed below. 10.4.1 Test Purpose 10.4.1.0-1 ISS System Element to be qualified 10.4.1.0-2 Test objective 10.4.1.0-3 Test witnessing 10.4.2 Testing Conditions 10.4.2.0-1 Test facility 10.4.2.0-2 Environmental conditions 10.4.2.0-3 Test equipment and recording equipment 10.4.3 Software to Run Test 10.4.3.0-1 Set up 10.4.3.0-2 Calibration		

10.4.3.0-3 Pre-test checks

10.4.3.0-4 Initialisation of test item

10.4.3.0-5 Operation conditions of test Item

10.4.3.0-6 Inputs, loads, outputs

10.4.4 Test Procedure

10.4.4.0-1 Physical layout of the equipment under test

10.4.4.0-2 Test procedures and methods

10.4.4.0-3 Safety precautions

10.4.4.0-4 Modes of operation

10.4.4.0-5 Test interruptions

10.4.4.0-6 Design parameters and tolerances

10.4.4.0-7 Parameters to be measured

10.4.4.0-8 Definition of failure

10.4.4.0-9 Pass/fail criteria

10.4.5 Test Recording and Reporting

10.4.5.0-1 Format for recording test results

10.4.5.0-2 Data collection and analysis

10.4.5.0-3 QA certification.

10.4.6 Cross-reference to RTVM

10.4.6-1 Canada has specified Verification/Qualification Methods for each requirement of the TPS and UAPS. The QTDP must provide a cross-reference to the Qualification Method identified in the TPS using the RTVM.

2.6 DID SE-006 Verification Qualification Test Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Verification Qualification Test Report		2 Data Item Number SE-006
3 Description / Purpose 3.0-1 The Verification Qualification Test Report provides the results of the verification activities and qualification test, and states whether the requirements under verification or test were satisfied.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Verification Qualification Test Report must conform to ISO/IEC 15289:2006, references: 7.6, 10.51.		
8 Originator PMO ISSP Chief Engineer		9 Applicable Forms N/A
10 Preparation Instructions 10.1 Source Documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor's own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The Verification Qualification Test Report must conform to the Report generic information contents of ISO 15289:2006 clause 7.6, and specific requirements of clause ISO 15289:2006 10.51. 10.4 Specific 10.4-1 The qualification test report documents that the system was tested in accordance with the approved plan and procedures. 10.4-2 It provides the results of each verification activities and qualification test and states whether all requirements were satisfied. It includes ISS system element identification and overview, TPS Verification Methods and Criteria, qualification requirements and criteria, overview of results, identification of items tested, demonstrated, inspected or analysed and dates of testing, detailed results and problems encountered. 10.4-3 The report must identify any problem reports, IAIL register entries, opened as a result of the conduct of the Verification Qualification Test.		

2.7 DID SE-007 System Acceptance Test Plan (SATP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title System Acceptance Test Plan (SATP)		2 Data Item Number SE-007
3 Description / Purpose 3.0-1 The SATP describes the Contractor's plans and processes for scheduling, planning, organizing, directing, conducting, controlling and coordinating all System Acceptance Test (SAT) effort under the contract.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The SATP is a subordinate plan of the SEMP. 7.0-2 The SATP and information items, records and data described in the SATP are placed under CM in accordance with the CM Plan. 7.0-3 The SATP describes elements of ISO/IEC/IEEE 15288:2008, reference: 6.4.8. 7.0-4 The SATP describes elements of ISO/IEC/IEEE 12207:2008, references: 6.4.8, 7.2.5. 7.0-5 The SATP must conform to ISO/IEC 15289, references: 7.4, 10.78.		
8 Originator PMO ISSP Chief Engineer		9 Applicable Forms N/A
10 Preparation Instructions 10.1 Source Documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor’s own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The SATP must conform to the generic plan information item description at ISO/IEC 15289 clause 7.4. 10.3.0-2 The SATP must conform to the specific plan information item description at ISO/IEC 15289 clause 10.78. 10.3.0-3 The SATP must incorporate the applicable elements from SAT System Scenario instruction provided at Annex CB Appendix 6. 10.4 Specific Content 10.4.0-1 The SAT Plan is to document: 10.4.0-1.0-1 SAT strategy 10.4.0-1.0-2 SAT Conduct 10.4.0-1.0-3 Cross-reference to SAT criteria and RTVM 10.4.0-1.0-4 Resources and organisation 10.4.0-1.0-5 Responsibilities 10.4.0-1.0-6 Tools 10.4.0-1.0-7 Schedule 10.4.0-1.0-8 Description of the system under test (P(SAT)). 10.4.0-1.0-9 organizational relationships and degrees of independence between development organisation and SAT organisation		

2.8 DID SE-008 System Acceptance Test Description and Procedures (SATDP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title System Acceptance Test Description and Procedures (SATDP)	2 Data Item Number SE-008	
3 Description / Purpose 3.0-1 The SATDP documents how qualification testing of the ISS will be conducted, and the conditions that are to be satisfied before SAT qualification. The SATDP provides a set of tests so that each SAT level qualification requirement is addressed for the system or software items. It includes mapping of requirements to SAT qualification tests and overall requirements to perform system acceptance testing, test objectives, test criteria, test configurations, preparations, test cases (inputs, steps, and outputs), expected results, and post-test analysis procedures. The SAT is to be conducted as a field engineering exercise at a DND furnished Main Operating Base (MOB).		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The SATDP is a subset of the SATP. 7.0-2 The SATDP (DID SE-008) must be based on, build from and comply with the SAT Scenario Instruction provided at Annex CB Appendix 6. 7.0-3 The SATDP must conform to ISO/IEC 15289, references: 7.3, 7.5, 10.50, 10.80		
8 Originator PMO ISSP Chief Engineer	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Source Documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor's own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The SATDP must satisfy the requirements of ISO/IEC 15289 clause 7.3 Descriptions and 7.5 Procedures generic information types. 10.4 Specific Content 10.4.0-1 The SATDP must satisfy the specific information item requirements of ISO 15289 clauses 10.50 and 10.80. 10.4.0-2 The SATDP must provide information on the items listed below. 10.4.1 Test Purpose 10.4.1.0-1 Description of the system under test (P(SAT)). 10.4.1.0-2 Test objective 10.4.1.0-3 Test witnessing 10.4.2 Testing Conditions 10.4.2.0-1 Test facility 10.4.2.0-2 Environmental conditions 10.4.2.0-3 Test equipment and recording equipment 10.4.3 Software to Run Test		

10.4.3.0-1 Set up

10.4.3.0-2 Calibration

10.4.3.0-3 Pre-test checks

10.4.3.0-4 Initialisation of test item

10.4.3.0-5 Operation conditions of test Item

10.4.3.0-6 Inputs, loads, outputs

10.4.4 Test Procedures

10.4.4.0-1 Physical layout of the equipment under test

10.4.4.0-2 Test procedures and methods

10.4.4.0-3 Test cases and scenarios

10.4.4.0-4 Safety precautions

10.4.4.0-5 Modes of operation

10.4.4.0-6 Test interruptions

10.4.4.0-7 Design parameters and tolerances

10.4.4.0-8 Parameters to be measured

10.4.4.0-9 Definition of failure according to Volume 2, Annex CB, Appendix 4

10.4.4.0-10 Pass/fail criteria

10.4.5 Test Recording and Reporting

10.4.5.0-1 Format for recording test results

10.4.5.0-2 Data collection and analysis including, but not limited to failure data collection and analysis according to Volume 2, Annex CB, Appendix 4

10.4.5.0-3 Quality Assurance certification.

10.4.6 Cross-reference to RTVM

10.4.6.0-1 Canada has specified which requirement of the TPS and UPS is to be verified/qualified during SAT. The SATDP must provide a cross-reference to the requirements identified in the TPS using the RTVM.

2.9 DID SE-009 SAT Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title SAT Report		2 Data Item Number SE-009
3 Description / Purpose 3.0-1 The SAT Report.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The SAT report provides the results of the SAT activities and states whether all requirements under the test were satisfied. 7.0-2 The SAT Report must conform to ISO/IEC 15289:2006, references 7.6, 10.51.		
8 Originator PMO ISSP Chief Engineer		9 Applicable Forms N/A
10 Preparation Instructions 10.1 Source Documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor’s own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The SAT Report must conform to the Report generic information contents of ISO 15289:2006 clause 7.6, and specific requirements of clause ISO 15289:2006 10.51. 10.4 Specific 10.4.0-1 The SAT report documents that the system was tested in accordance with the approved plan and procedures. 10.4.0-2 It provides the results of SAT activities and states whether all SAT requirements were satisfied. It includes ISS system element identification and overview, TPS Verification Methods and Criteria, requirements to be demonstrated and tested and criteria, overview of results, identification of items demonstrated, tested, analysed and inspected and dates of testing, detailed results and problems encountered. 10.4.0-3 The report must identify any problem reports, IAIL entries, opened as a result of the conduct of the Verification Qualification Test.		

2.10 DID SE-010 Production Plan (ProdP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Production Plan (ProdP)	2 Data Item Number SE-010	
3 Description / Purpose 3.0-1 The ProdP describes the Contractor's plans and processes for scheduling, planning, organizing, directing, conducting, controlling and coordinating all Production efforts under the contract.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The ProdP is a subordinate plan of the SEMP. 7.0-2 The ProdP and information items, records and data described in the ProdP are placed under CM in accordance with the CM Plan. 7.0-3 The ProdP must conform to ISO/IEC 15289:2006, reference 7.4.		
8 Originator PMO ISSP Chief Engineer	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Source Documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor's own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The ProdP must comply with ISO 15289/IEC clause 7.4 generic information for plans. 10.4 Specific 10.4.0-1 The ProdP must describe: 10.4.0-1.0-1 the existing and planned facilities, 10.4.0-1.0-2 tooling and test equipment, 10.4.0-1.0-3 manufacturing methods and controls, 10.4.0-1.0-4 material and manpower resources, 10.4.0-1.0-5 production engineering, 10.4.0-1.0-6 quality control and assurance provisions, 10.4.0-1.0-7 production management organization, 10.4.0-1.0-8 production technical data 10.4.0-1.0-9 software/firmware control 10.4.0-1.0-10 implementation of engineering changes, 10.4.0-1.0-11 design reviews and producibility analysis, 10.4.0-1.0-12 process change controls, 10.4.0-1.0-13 production training, 10.4.0-1.0-14 technology transfer, 10.4.0-1.0-15 Manufacturing information transfer, 10.4.0-1.0-16 Rework, modification and repair and overhaul processes, 10.4.0-1.0-17 quarantine and disposition of non-conformant product		

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10.4.0-2 The ProdP must describe the following controls over major production subcontractors:

10.4.0-2.0-1 Control of subcontractor production engineering;

10.4.0-2.0-2 activity planning

10.4.0-2.0-3 performance audit

10.4.0-2.0-4 subcontractor production plans

3 LOGISTIC SUPPORT

3.1 DID LS-001 Integrated Logistics Support Plan (ILSP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Integrated Logistics Support Plan (ILSP)		2 Data Item Number LS-001
3 Description / Purpose 3.0-1 The ILSP describes the methods used by the Contractor to provide ILS. It serves as the principal management and planning document for execution of the ILS program.		
4 Approval Date June 2011	5 OPI PMO ISSP ILS Manager (ILSM)	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The ILSP must be consistent with the MPS and WBS. 7.0-2 The ILSP must be consistent with the PMP.		
8 Originator PMO ISSP ILSM		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 The ILSP must be prepared in the Contractor's format, acceptable to DND, and consistent with EIE requirements. 10.0-2 Best Commercial practices must be used for charts, tables, matrices, page numbering and document control numbering. 10.0-3 The plan must include the following sections: 10.1 Section I - Introduction 10.1.0-1 This section must define the scope, purpose and application of the ILSP, together with applicable policies, objectives, definitions, references and a mechanism to update the plan. 10.2 Section II - Management/Organization 10.2.0-1 This section must describe the Contractor's ILS organization, subcontractor's ILS organization, management procedures and reporting/ tracking system. The Contractor's ILS manager and logistic element managers must be identified by name in an ILS Organization chart. A resume of duties for the ILS manager and each of the logistic element managers must be provided. The following information must also be provided: 10.2.0-1.0-1 Detail responsibility of each ILS element managers including line of authority and functional interface; 10.2.0-1.0-2 Identification of subcontractors, including their functional interface; and 10.2.0-1.0-3 Description of the method of subcontractor interface, management and control. 10.3 Section III - Schedule/Milestones 10.3.0-1 ILS activities and tasks must be included in the MPS and WBS DID PM-003 . The ILS Plan must provide a summary of ILS major milestone and dates and point to DID PM-003 . 10.4 Section IV - Relationships 10.4.0-1 This section must describe the following relationships: 10.4.0-1.0-1 Between the various ILS elements; 10.4.0-1.0-2 With the Systems Engineering program; 10.4.0-1.0-3 With the Configuration Management; and 10.4.0-1.0-4 With any other impacted project programs.		

10.5 Section V - Logistics Support Analysis (LSA)

10.5.0-1 Describe any supportability analyses, tasks or procedures that are proposed or have been completed to provide for the ILS requirements of the Contract.

10.6 Section VI - ILS Program Elements

10.6.0-1 Provide a detailed overview of the support and support processes to be provided by the Contractor and any subcontractors. As a minimum the following subjects must be addressed:

- Maintenance Plan;
- Supply Support;
- Special Tools and Test Equipment (STTE);
- Technical Publications;
- Training and Training Support; and
- Packaging, Handling, Storage, and Transportation (PHST).

10.7 Section VII - ILS Reviews

10.7.0-1 The ILSP must identify the numbers and frequency of ILS Review meetings.

10.7.0-2 The ILS Reviews must include the following discussion points: Maintenance Planning, LSA requirements, Training (Review progress), outstanding action for the Contractor and PMO ISSP, a review of the schedule, anticipated problem areas, and new business.

3.2 DID LS-002 Recommended Support Equipment Requirements List (RSERL)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Recommended Support Equipment Requirements List (RSERL)		2 Data Item Number LS-002
3 Description / Purpose 3.0-1 This data is required to identify the support equipment needed to operate, maintain, transport and handle the system/equipment and to train personnel. 3.0-2 This data may be submitted/accessed in electronic media.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The RSERL is associated with the Maintenance Plan. 7.0-2 The RSERL is associated with the Training Program Plan.		
8 Originator PMO ISSP ILSM		9 Applicable Forms PMO ISSP ILSM
10 Preparation Instructions 10.1 Format 10.1.0-1 The RSERL must be prepared in the Contractor's format, acceptable to DND, and consistent with EIE requirements. 10.2 Content 10.2-1 For each required item of Support Equipment include: 10.2-1.0-1 Support Equipment Item Name; 10.2-1.0-2 Support Equipment Reference (Manufacturer's Part) Number; 10.2-1.0-3 NSCM/CAGE Code; 10.2-1.0-4 NSN (if available); 10.2-1.0-5 Recommended Buy Quantity; 10.2-1.0-6 Standard Unit Price; and 10.2-1.0-7 Date of First Article Delivery. 10.2-2 For complex, expensive or STTE, including automatic test equipment include the following: 10.2-2.0-1 <u>Description, Function and Characteristics of the STTE</u> - Enter the description, function and characteristics of the STTE, describe the SE required to satisfy the functional requirements; 10.2-2.0-2 <u>Type Activity</u> - Enter the level/type of activity at which the STTE under review will be used: e.g., training site, test site, operational/base, etc; 10.2-2.0-3 <u>Maintenance Level for STTE</u> - Enter the level at which the proposed STTE will be used: e.g., first line, second line, depot, contractor, or a combination thereof; 10.2-2.0-4 <u>Calibration Interval</u> - Enter the frequency in months between which the item or STTE must be calibrated; 10.2-2.0-5 <u>Calibration Procedure</u> - Enter the instruction title/number that specifies the calibration procedure; 10.2-2.0-6 <u>Calibration Standard</u> - Indicate the requirement for the item or STTE to be calibrated to a standard; 10.2-2.0-7 <u>Operating Dimensions</u> - Enter the dimensions of the proposed STTE while it is in an		

operational configuration (i.e., ready for use in the operational environment);

10.2-2.0-8 Operating Weight - Enter the weight of the proposed STTE while it is in an operational configuration (i.e., ready for use in the operational environment);

10.2-2.0-9 Environmental Conditions - Conditions under which the STTE item must be used;

10.2-2.0-10 Description, Function and Characteristics of STTE - For the description and function of the STTE, describe the support equipment required to satisfy the functional requirements;

10.2-2.0-11 Installation Factors - Identify briefly any unique considerations required for the installation or support such as vibration and shock mounting requirements, special foundations, utilities connections, and environmental factors. Also, include any equipment necessary to install the item. If the data are extensive, refer to a separate submission of Installation data;

10.2-2.0-12 Type of Technical Publications - Enter the type of technical publications, which are required to support the proposed item of STTE.

10.2-3 The RSERL may be divided into sections as appropriate:

10.2-3.0-1 Common Hand Tools;

10.2-3.0-2 Special Purpose Tools;

10.2-3.0-3 Operations Support Equipment;

10.2-3.0-4 Maintenance Support Equipment;

10.2-3.0-5 Calibration Equipment;

10.2-3.0-6 Technical Publications Viewers, Readers and Consoles;

10.2-3.0-7 Test, Measurement and Diagnostic Equipment (TMDE);

10.2-3.0-8 Maintenance Jigs and Fixtures;

10.2-3.0-9 Automatic Test Equipment (ATE) and its Test Program Set;

10.2-3.0-10 Test and Diagnostic Facility;

10.2-3.0-11 Computer Resources Support Requirement;

10.2-3.0-12 Training Support; and/or

10.2-3.0-13 Other

10.2-4 If ATE is required, identify the adapter/interconnect devices and test program sets/instructions.

3.3 DID LS-003 Recommended Spare Parts List (RSPL)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Recommended Spare Parts List (RSPL)		2 Data Item Number LS-003
3 Description / Purpose 3.0-1 The RSPL lists all spares recommended, by the Contractor, for procurement. It is used by the crown as a guide for the procurement of spare parts.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The RSPL conforms to specification D-01-100-214/SF-000, Specification for Preparation of Provisioning Documentation for Canadian Forces Equipment. 7.0-2 The RSPL is related to the Sparing Analysis Report.		
8 Originator PMO ISSP ILSM		9 Applicable Forms N/A
10 Preparation Instructions 10.1 Format 10.1.0-1 The RSPL data must be provided electronically in the format required for input into the automated supply system as defined in D-01-100-214/SF-000. 10.2 Content 10.2.0-1 The RSPL must contain the data elements as specified in the attached Table 1. 10.3 Tables 10.3.0-1 Table 1 - Provisioning Data Requirements		

DATA FIELDS REQUIRED	RSPL	CBIL
Item Sequence Number (unique sequence no. for each list)	M	M
Indenture Code	O	NR
Item Name	M	M
Manufacturer's Reference (manufacturer's part) No.	M	M
NSCM/CAGE Code	M	M
OEM's Part Number	R	R
NATO Stock Number	R	R
Quantity Per Assembly	M	NR
Standard Unit Price	M	M
Unit Of Issue (UOI)	M	NR
Unit of Measure	NR	M
Repairability Indicator	R	NR
Procurement Lead Time	M	NR
Reference Designation	R	NR
Shelf Life (SL)	R	M
Usage Rate	R	NR
Recommended Buy Quantity	M	M
Source Maintenance and Recoverability (SMR) Code	R	NR
Demilitarization Code (DMC)	R	NR

Notes:

M = Mandatory R = Required if known O = Optional NR = Not Required

3.4 DID LS-004 Training Program Plan

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Training Program Plan	2 Data Item Number LS-004	
3 Description / Purpose 3.0-1 Data is required to define the management, organization, procedures, schedule and detailed plan to be used by the Contractor in meeting the requirements for the development of a Training Program.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Training Program Plan must conform to ISO/IEC 15289:2006, Systems and software engineering - Content of systems and software life-cycle process information products (Documentation), reference 7.4. 7.0-2 The Training Program Plan references the MPS and WBS.		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Format 10.1.0-1 The Contractor's own format compliant with the EIE requirements. 10.2 General 10.2-1 The Training Program Plan must conform to ISO/IEC TR 15289:2006 clause 7.4 Generic content guidelines for plans, as tailored to meet the information requirements of this DID. 10.2-2 Best commercial practices are to be used for charts, tables and matrices. 10.2-3 The Training Program Plan must contain the following documentation management information: 10.2-3.0-1 Title Page; 10.2-3.0-2 Document Control log; 10.2-3.0-3 Revision record and history; and, 10.2-3.0-4 Scope 10.3 Specific content 10.3.1 Introduction and Concept of Operations (ConOp) 10.3.1.0-1 This Section must provide a brief overview of the purpose and expected application of the document. The Concept of Operations (CONOPS) must provide an overview of the Contractor's proposed training and training support activities in meeting all of the Operator and Technician training requirements, including operator-level preventive and corrective maintenance tasks. 10.3.2 Assumptions and Constraints 10.3.2.0-1 All assumptions and constraints must be documented as they pertain to the Training Program plan and which may impact the development or conduct of the training, particularly the location and timing of training. 10.3.3 Canadian Forces individual Training and Education System (CFITES) 10.3.3.0-1 The Training Program plan must describe how the requirements of the CFITES must be met throughout all phases of the Training Program Plan (i.e. Analysis, Design, Conduct and Evaluation).		

10.3.4 WBS/Schedule of Activities and Milestones

10.3.4.0-1 This section must include summary tasks and milestone events extracted from the MPS and WBS (**DID PM-003**) to show the time-phased workflow of the Training tasks, events, deliverables, as well as key inter-dependencies from other areas.

10.3.5 Training Reviews

10.3.5.0-1 This section describes the Training Review approach, process

10.3.6 Training Transition

10.3.7 Training Quality Control and Continuous Improvement

10.3.7.0-1 The Training Program Plan must include the Contractor's approach and methodology for Training Quality Control, continuous improvement of continuous training and support.

3.5 DID LS-005 Maintenance Plan

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Maintenance Plan	2 Data Item Number LS-005	
3 Description / Purpose 3.0-1 This plan describes the Maintenance Program of the system.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Maintenance Plan must be consistent with the e Maintenance Support Concept and Support For Operations sections of the Support Concept in Appendix 2 to Annex CA. 7.0-2 The Equipment Breakdown Structure (EBS) is a subset of the Maintenance Plan.		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 General 10.1.0-1 The Maintenance Plan must be prepared in the Contractor's format, acceptable to DND, and consistent with EIE requirements. 10.1.0-2 Best commercial practices must be used for charts, tables, matrices, page numbering and document control numbering. 10.2 Content 10.2.0-1 The Maintenance Plan must describe the maintenance tasks to be performed by Line Replaceable Units (LRUs) required to support the ISS. 10.2.0-2 All LRUs included in the EBS must be included. 10.2.0-3 The proposed Maintenance Plan must be based on appropriate supportability analysis techniques to provide the most cost effective maintenance solution. 10.2.0-4 As a minimum the Contractor's proposed Maintenance Plan must include the following: 10.2.0-4.0-1 Introduction: To include a description of the methods and analyses used to establish the proposed optimized Maintenance Plan 10.2.0-4.0-1.0-1 Tabular results to include: <ul style="list-style-type: none"> • Identification of the LRU • Identification of any lower level repairable items • Failure rate of the LRU / repairable item • If the LRU is to be repaired or discarded • Identify all preventive and corrective maintenance tasks to be performed by DND • Identify all the maintenance tasks to be performed by the Contractor • Description of the maintenance tasks • Line of maintenance where the maintenance tasks are to be done. If performed by the operator or if it is a system management function, identify as Operator Maintenance. • Required spares (with quantity), consumables and STTE • Expected task frequency • Mean elapsed time and labour hours. Indicate if these are measured or estimated values 10.2.0-4.0-1.0-2 Summary of Results: Compile the maintenance tasks by Line of Maintenance or Operator Maintenance. Include the weighted average elapsed time for maintenance actions by		

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type (CM, PM) and by line of maintenance.

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3.6 DID LS-006 Software Documentation

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Software Documentation		2 Data Item Number LS-006
3 Description / Purpose 3.0-1 This data is required to provide the documentation needed for software maintenance and support.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP ILSM		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 The software documentation provided to facilitate maintenance and support must be specified as appropriate for the project. The documentation must, at minimum, include: 10.0-1.0-1 a Software family tree for each computer program identifying each CSCI by: 10.0-1.0-1.0-1 CSCI Number; and 10.0-1.0-1.0-2 CSCI Name. 10.0-1.0-2 Functional description of each CSCI; and 10.0-1.0-3 List of computer programs.		

3.7 DID LS-007 Technical Publications

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Technical Publications		2 Data Item Number LS-007
3 Description / Purpose 3.0-1 Data is required to provide the data needed to identify, procure and manage Technical Publications.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Technical Publications must conform to the following standards and specifications, as per the requirements below: 7.0-1.0-1 C-01-100-100/AG-005 Acceptance of Commercial and Foreign Government Publications as Adopted Publications 7.0-1.0-2 C-01-100-100/AG-006 Specification - Writing, Format and Production of Technical Publications 7.0-1.0-3 A-LM-505-010/JS-001 Material Management Instruction - Official Languages Requirements for Technical Documentation 7.0-1.0-4 ISO 9660 Information Processing - Volume and File Structure of CDROM for Information Interchange 7.0-2 The Technical Publications are referenced in the Maintenance Plan.		
8 Originator PMO ISSP ILSM		9 Applicable Forms The Contractor must complete the following forms: DND 590, 591 and 642.
10 Preparation Instructions 10.1 SS-S Quick Reference Guide (QRG) / (English and French Versions) 10.1.0-1 The ISS-S QRG (separate English and French versions) must present an integrated overview of the ISS-S as a brief, complete, and compact guide in the form of a memory aide. 10.1.0-2 It is to be used after initial training, and must describe and illustrate the set-up and operation of the equipment, including basic troubleshooting. 10.1.0-3 The QRG must be weatherproof as it is intended for field use. 10.1.1 Format 10.1.1.0-1 The QRG must be made with a light grey background with a non-reflective finish. The QRG will be used under various field conditions, which must be taken into account when selecting materials. 10.1.1.0-2 The QRG must be relatively small in size, approximately (18 cm wide x 20 cm high x 1 cm deep) in terms of dimensions as it is meant to be carried on the soldier when in the field. 10.1.2 Content 10.1.2.0-1 The QRG must summarize, through text and illustrations, the mounting, set-up, operation and basic maintenance (troubleshooting) of the ISS-S. 10.1.2.0-2 The QRG must make reference to the ISS-S User Manual (UM) as the main reference for further details concerning the operation, maintenance, and systems management for the system. 10.1.2.0-3 The QRG must summarize EHS issues, including basic procedures for handling and disposing of such materials.		

10.2 ISS-S USER MANUAL (UM)

10.2.0-1 The UM must cover all ISS-S being procured and provide detailed information associated with the operation, care and maintenance, storage as well as personnel and equipment safety.

10.2.1 Format

10.2.1.0-1 The UM must be bilingual English and French.

10.2.1.0-2 The English and French versions must be back to back and upside down to each other so that the one side begins with the English version and the other side begins with the French version.

10.2.1.0-3 The manual must have three hard covers:

10.2.1.0-3.0-1 The top (title) page of the manual must represent the cover (top) page of the English version of the manual;

10.2.1.0-3.0-2 The second hard cover must be a different colour from the top cover and must act as the divider of the English and French versions. This hard cover page must follow immediately after the content (last page) of the English version; and

10.2.1.0-3.0-3 The third hard cover must be the top (title) page of the French version.

10.2.1.0-4 The English and French cover sheets must bear the following:

10.2.1.0-4.0-1 DND document configuration number (to be provided by Canada) on the top right hand corner;

10.2.1.0-4.0-2 Picture of the applicable equipment;

10.2.1.0-4.0-3 Document title;

10.2.1.0-4.0-4 Item name (e.g. Basic ISS-S) and nomenclature;

10.2.1.0-4.0-5 NSN; and

10.2.1.0-4.0-6 Version Date.

10.2.2 Content

10.2.2.0-1 The UM must cover all aspects associated with the operation, care and maintenance, storage as well as personnel and equipment safety of the ISS-S. As a minimum, the UM must address the following:

10.2.2.0-1.0-1 Brief technical description;

10.2.2.0-1.0-2 Data summary (e.g. specifications for the ISS-S and LRUs, if applicable);

10.2.2.0-1.0-3 ISS-S set-up and mounting procedures;

10.2.2.0-1.0-4 Description of controls;

10.2.2.0-1.0-5 Pre-use testing or inspection;

10.2.2.0-1.0-6 Operating procedures;

10.2.2.0-1.0-7 User maintenance and care, including user preventive maintenance, limited corrective maintenance and consumable replacements;

10.2.2.0-1.0-8 Basic diagnosis and/or fault finding;

10.2.2.0-1.0-9 Storage;

10.2.2.0-1.0-10 Safety, including personnel and equipment;

10.2.2.0-1.0-11 Hazardous material issues associated with the operation and care of the ISS-S, including the required procedures for handling and disposing of such materials;

10.2.2.0-1.0-12 Tools used for User maintenance; and

10.2.2.0-1.0-13 References to Technical Manual(s) (i.e. OEM COTS/Military Off The Shelf (MOTS) pubs required to do in-depth corrective maintenance).

10.2.2.0-2 The UM must be organized in the following manner:

10.2.2.0-2.0-1 The initial front sheets must contain:

10.2.2.0-2.0-1.0-1 Summation of all WARNING text contained in the document;

10.2.2.0-2.0-1.0-2 Summation of all CAUTION text contained in the document;
10.2.2.0-2.0-1.0-3 "Safety Data" table containing a summation of all safety related issues;
10.2.2.0-2.0-1.0-4 Table of Contents;
10.2.2.0-2.0-1.0-5 List of Figures;
10.2.2.0-2.0-1.0-6 List of Tables; and
10.2.2.0-2.0-1.0-7 How To Use This Manual (general description of the manual organization etc.).

10.2.2.0-2.0-2 Chapter 1 General Information

10.2.2.0-2.0-2.0-1 This chapter must include the following:
10.2.2.0-2.0-2.0-1.0-1 Equipment name and model numbers;
10.2.2.0-2.0-2.0-1.0-2 Purpose of equipment;
10.2.2.0-2.0-2.0-1.0-3 Manufacturer;
10.2.2.0-2.0-2.0-1.0-4 Nomenclature cross reference table (if required);
10.2.2.0-2.0-2.0-1.0-5 List of abbreviations; and
10.2.2.0-2.0-2.0-1.0-6 Picture of figure of the ISS-S.

10.2.2.0-2.0-3 Chapter 2 Equipment Description

10.2.2.0-2.0-3.0-1 This chapter must include the following:
10.2.2.0-2.0-3.0-1.0-1 General Characteristics: weight, dimensions, size, performance etc.; and
10.2.2.0-2.0-3.0-1.0-2 Description of ISS-S components: insert a picture of the ISS-S with a table and an itemized listing of all components contents cross-referenced with the photo contents. Each itemized item must then be described at a high level.

10.2.2.0-2.0-4 Chapter 3 Operating Instructions

10.2.2.0-2.0-4.0-1 This chapter must include the following:
10.2.2.0-2.0-4.0-1.0-1 Operating instructions for the various contents that comprise the ISS-S;
10.2.2.0-2.0-4.0-1.0-2 Tables showing operating modes vis-à-vis applicable equipment settings and remarks; and
10.2.2.0-2.0-4.0-1.0-3 Figures or photos to aid with the operation description (when necessary).

10.2.2.0-2.0-5 Chapter 4 Equipment Set-Up and Interconnection Procedures

10.2.2.0-2.0-5.0-1 This chapter must include the following:
10.2.2.0-2.0-5.0-1.0-1 Details of how equipment is to be assembled/mounted for use for all configurations; and
10.2.2.0-2.0-5.0-1.0-2 Figures or photos to aid in procedure description (when necessary).

10.2.2.0-2.0-6 Chapter 5 ISS-S Troubleshooting Procedures

10.2.2.0-2.0-7 Chapter 6 ISS-S User Maintenance and Cleaning

10.2.2.0-2.0-8 Removal and Installation of Parts

10.2.2.0-2.0-9 Index

10.3 Technical Manuals

10.3.0-1 In order to minimize cost, the Contractor must make use of existing commercial or foreign government COTS/MOTS technical manual(s) for the specific sub-systems or component that make up the ISS-S. The Contractor must link the technical manual(s) to the UM.

10.3.0-2 All technical publications provided as existing commercial or foreign government off-the-

shelf manuals must be in both English and French, in one of the following formats: two (2) columns, facing pages or separate publication issues. They must meet the requirements of the current issue of C-01-100-100/AG-005.

10.3.0-3 If either the English or the French version is not available, the Contractor is responsible to translate into the second language and provide in commercial format. The contractor must certify that the technical content of the translated version is technically accurate. Certificates must be provided to this effect.

10.3.0-4 The rights that the Crown / DND has been granted under the Terms and Conditions of the applicable contract must be clearly marked on the front matter of the Publication.

10.4 Newly written DND Manuals

10.4.0-1 All new publications must be produced in both English and French.

10.4.0-2 The selected format must be in accordance with the current issue of C-01-100-100/AG-006. The contractor must certify that the technical content of the translated version is technically accurate.

10.4.0-3 The Contractor must validate the final English version of the Canadian Forces Technical Orders (CFTOs) for technical accuracy, appropriate security classification/designation and health and safety related issues (HAZMAT, WHMIS etc.).

10.4.0-4 The validated English language manuals must be available for Initial Cadre Training (ICT).

10.5 Delivery

10.5.0-1 A QRG must be issued with each ISS-S.

10.5.0-2 A UM must be issued with each ISS-S.

10.5.0-3 Technical manual(s) required to do advanced maintenance must be issued to maintenance facilities.

10.5.0-4 For each final publication produced or amended the Contractor must provide master read only files. Using the completed Master Document file(s), the Contractor must provide a Portable Document Format (PDF) file that must contain the complete publication (with changes incorporated as applicable). This file(s) is considered the "Master Read Only" file for printing/reproduction/viewing purposes. All pages contained in the PDF file must be oriented such that they do not require rotation when viewing. This file must contain "thumbnails" of each of the pages. The Master Read Only File is not a replacement for the Master Document files or the Master Image files. The Contractor must ensure that a quality check is done on the Read Only (PDF) file to verify that the content reflects the same content/formatting as the Master Document file and the Reproducible copy. The requirements for hyperlinks within the Read Only File must be specified on the individual task or tasks. In the case of changes, a second PDF file that contains only the changed sheets is also required.

10.5.0-5 The Contractor must provide the electronic files on CD-ROM written in accordance with ISO 9660. Files must not be compressed or zipped other than as specified herein. The CD-ROM must be clearly labelled with the NDID number, publication title, corresponding file number(s) and type, Contract number and task or requisition number.

10.5.0-6 Where applicable, the electronic files and hard copy technical publications must be delivered simultaneously.

10.5.0-7 For the English draft and the English Validated manuals, the Contractor must provide a soft copy in either MS Word or PDF format.

10.6 Official Languages

10.6.0-1 All bilingual technical publications must meet the official language requirements following the guidelines of A-LM-505-010/JS-001, Official Languages Requirements for Technical Documentation. All changes to bilingual publications must be translated and issued simultaneously.

10.6.0-2 The language quality of the translation must be consistent with and equivalent to the source text and must be suited to the typical user/technician's ability in the language (Refer to C-01-100-100/AG-006).

10.6.0-3 The Contractor must subject all translated material to the Translation Accuracy Check (TAC) process prior to the production of reproducible copy.

10.6.0-4 TAC must be carried out at the Contractor's facility.

10.6.0-5 The Contractor must be responsible for TAC when signing the Certificate of TAC, certifying the accuracy of the translated text.

10.7 Certificates

10.7.0-1 Technical Publications must be accompanied by the following Certificates of Compliance (refer to C-01-100-100/AG-006, part 12, section 2):

10.7.0-1.0-1 Validation (DND 590) for submission to the TA;

10.7.0-1.0-2 TAC;

10.7.0-1.0-3 Reproducible Copy (DND 642); and

10.7.0-1.0-4 Compliance (DND 591).

10.8 Cover Page

10.8.0-1 The Contractor must insert a CFTO cover page on all publications whether existing, revised or new.

3.8 DID LS-008 Training Courses

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Training Courses		2 Data Item Number LS-008
3 Description / Purpose 3.0-1 The training documentation will be used by the Contractor to support the delivery of the ICT serials. It will also be used subsequently by DND to support the courseware development of post ICT training within DND. It is expected that training documentation (courseware) will already have been developed for existing customers.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Training Courses must conform to the following standards as per the requirements below: 7.0-1.0-1 A-P9-050-000/PT-001 CFITES, Volume 1 - Introduction/Description 7.0-1.0-2 A-P9-050-000/PT-005 CFITES, Volume 5 - Development of Instructional Programmes 7.0-1.0-3 A-P9-050-000/PT-004 CFITES, Volume 4 - Design of Instructional Programmes		
8 Originator PMO ISSP ILSM		9 Applicable Forms N/A
10 Preparation Instructions 10.1 General 10.1.0-1 The Courses, standards, lesson plans must comply with standard A-P9-050-000/PT-001. 10.2 Format 10.2.0-1 The Course Material must conform to CFITES Format and Content requirements A-P9-050-000/PT-005. 10.3 Content 10.3.0-1 For each course, produce: 10.3.0-1.0-1 Performance Objectives (POs) and Enabling Objectives; 10.3.0-1.0-2 Training Standards and Plans; 10.3.0-1.0-2.0-1 Performance Statement; 10.3.0-1.0-2.0-2 Performance Conditions; and 10.3.0-1.0-2.0-3 Performance Standards. 10.3.0-1.0-3 Training Strategy - Derived from the training strategy and its elements described in Chapter 2 of A-P9-050-000/PT-004; 10.3.0-1.0-4 Lesson Specifications; 10.3.0-1.0-4.0-1 Teaching Points; 10.3.0-1.0-4.0-2 Courseware; 10.3.0-1.0-4.0-3 Course Schedule; 10.3.0-1.0-4.0-4 Training documentation including lesson plans, student handouts, course agendas and training references; and 10.3.0-1.0-4.0-5 Evaluation Plans, including testing materials and answer keys. 10.3.0-1.0-5 Training Aids and Materials. The Contractor must list all the necessary equipment, materials, and trainers required for training including all course material, and other associated equipment required to make the training realistic. This must include the following:		

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10.3.0-1.0-5.0-1 QRG. An all encompassing visual schematic diagram that shows all the major components of the ISS and how they relate to each other; and

10.3.0-1.0-5.0-2 Multimedia (e.g. DVD video, PowerPoint) if currently available.

3.9 DID LS-009 Equipment Identification Plate Data and Markings

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Equipment Identification Plate Data and Markings		2 Data Item Number LS-009
3 Description / Purpose 3.0-1 This data is required to obtain design approval for the manufacturing of Equipment Identification Plates.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Equipment Identification Plate Data and Markings must conform to the following standards and specifications as per the requirements below: 7.0-1.0-1 D-02-002-001/SG-001 Canadian Forces Standard - Identification Marking of Canadian Military Property 7.0-1.0-2 MIL-HDBK-454A General Guidelines for Electronic Equipment. 7.0-1.0-3 ANSI/AIM BC4-1999 Linear (One-Dimensional) Bar Code Symbolologies 7.0-1.0-3.0-1 MIL-STD 196 Joint Electronics Type Designation System 7.0-1.0-4 STANAG 2290 Ed 2 NATO Unique Identification of Items		
8 Originator PMO ISSP ILSM		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 This DID is not meant to be restrictive, and may be tailored by the Contractor with the agreement of the DND TA. The resultant document may be prepared in the Contractor's format, and must contain sufficient detail to fully address the information requirements. 10.0-2 The data must be provided in accordance with CF Specification D-02-002-001/SG-001 for the following: 10.0-2.0-1 Prime equipment, spares and electronic components; 10.0-2.0-2 Support equipment (excluding tools); 10.0-2.0-3 Training equipment; and 10.0-2.0-4 Automatic Test Equipment. 10.0-3 Each deliverable item must have a Data Plate. The Data Plate must be manufactured and affixed to the unit in accordance with MIL-HDBK-454A and D-02-002-001/SG-001. The Data Plate must contain the following human readable information: 10.0-3.0-1 Nomenclature (as applicable under MIL-STD 196) or description; 10.0-3.0-2 Short part description; 10.0-3.0-3 Customer purchase order; 10.0-3.0-4 Prime contract number; 10.0-3.0-5 Serial number; 10.0-3.0-6 Manufacturing date; 10.0-3.0-7 Specification number; 10.0-3.0-8 Part number; 10.0-3.0-9 NCAGE;		

10.0-3.0-10 NSN; and

10.0-3.0-11 Bar code.

10.0-4 The data plate must contain a machine readable data complying with the ANSI/AIM BC4-1999, International Symbology Specification - Code 128. The data plate must contain the following with no spaces between:

10.0-4.0-1 The four character Tactical Asset Configuration Information System (TACIS) serial number prefix in Upper Case only: XXXX (to be supplied by the TACIS Project Office); and

10.0-4.0-2 The Serial Number identical to the human readable item above.

10.0-5 In addition, equipment must be labelled with a Unique Identifier in accordance with NATO Standardization Agreement (STANAG) 2290 Edition 2.

3.10 DID LS-010 Sparing Analysis Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Sparing Analysis Report		2 Data Item Number LS-010
3 Description / Purpose 3.0-1 Sparing Analysis is performed to determine the optimum selection, quantity and distribution of spares. This report documents the results of Sparing Analysis.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Sparing Analysis Report relates to the Maintenance Plan.		
8 Originator PMO ISSP ILSM		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 This Report must include: 10.1 Format 10.1.0-1 The Sparing Analysis Report must be prepared in the Contractor's format, acceptable to DND, and consistent with EIE requirements. 10.2 Content 10.2.0-1 This Report must include: 10.3 Introduction 10.3.0-1 Purpose 10.3.0-2 Applicable References 10.3.0-3 Definitions and Acronyms 10.4 Method and Rationale 10.4.0-1 Description of Sparing Analysis Model 10.4.0-2 Sparing Analysis Results 10.4.0-2.0-1 For Repairables 10.4.0-2.0-2 For Consumables 10.5 Sparing Analysis Results 10.5.0-1 Maintenance Scenario Data 10.5.0-2 For Repairables in each Line Replaceable Unit 10.5.0-2.0-1 Item Input Data 10.5.0-2.0-2 Results of Sparing Analysis 10.5.0-3 For Consumables 10.5.0-3.0-1 Input Data 10.5.0-3.0-2 Results of Calculations 10.6 Conclusions and Recommendations 10.6.0-1 For each LRU 10.6.0-1.0-1 Recommended buy of Repairables 10.6.0-1.0-2 Recommended buy of Consumables 10.6.0-1.0-3 The recommended buy of Repairables must be broken out as follows: 10.6.0-1.0-3.0-1 Recommended quantity first line; 10.6.0-1.0-3.0-2 Recommended quantity second line; and		

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10.6.0-1.0-3.0-3 Recommended quantity to support training.

3.11 DID LS-011 Supplementary Provisioning Technical Data (SPTD)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Supplementary Provisioning Technical Data (SPTD)	2 Data Item Number LS-011	
3 Description / Purpose 3.0-1 Data is required to uniquely identify, for cataloguing purposes, each item in each provisioning list (that has not already been assigned a NSN).		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The SPTD must include sufficient data to clearly define each item for cataloguing. 10.0-2 The SPTD must include: 10.0-2.0-1 Item Name; 10.0-2.0-2 Reference (Manufacturer's Part) No.; and 10.0-2.0-3 CAGE Code. 10.0-3 The SPTD must include, as applicable: 10.0-3.0-1 Configuration - drawing of item; assembly, wiring or schematic drawing; illustrated parts list; 10.0-3.0-2 Technical specification, including relevant standards; 10.0-3.0-3 Physical characteristics, such as dimensions, tolerances, materials, mandatory processes, surface finish, protective coating; 10.0-3.0-4 Electrical characteristics; 10.0-3.0-5 Performance data, including the environmental and operating conditions under which the item must perform; 10.0-3.0-6 Mounting requirements (if any); 10.0-3.0-7 Special features which contribute to the uniqueness of the item; and 10.0-3.0-8 Commercial catalogue data. 10.0-4 The SPTD must be sequenced in the same order as the provisioning list that it supplements. 10.0-5 The SPTD must include identification of any limitations on the use or publication of any data provided.		

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3.12 DID LS-012 Consumable and Bulk Items List (CBIL)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Consumable and Bulk Items List (CBIL)	2 Data Item Number LS-012	
3 Description / Purpose 3.0-1 This CBIL will be used by the Crown to identify items of consumable hardware, raw materiel and fabricated items required to support the ISS at all lines of maintenance.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The CBIL conforms to specification D-01-100-214/SF-000. 7.0-2 The CBIL shares information with the Sparing Analysis Report.		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Format 10.1.0-1 The CBIL data must be provided electronically in the format required for input into the automated supply system as defined in D-01-100-214/SF-000. 10.2 Content 10.2-1 The CBIL must include all consumable hardware, raw materiel and fabricated items required. The CBIL must contain the data elements as specified in the RSPL (DID LS-003).		

3.13 DID LS-013 Packaging Data

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Packaging Data		2 Data Item Number LS-013
3 Description / Purpose 3.0-1 To identify packaging requirements for items to be shipped to or stored at a Crown facility (such as spare parts, bulk items, special tools and test equipment, support equipment, and training equipment)		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP ILSM		9 Applicable Forms N/A
10 Preparation Instructions 10.1 Format 10.1.0-1 The Packaging Data must be provided in electronic form suitable for entry into the DND DRMIS. 10.2 Content 10.2.0-1 The Contractor must provide the following information: 10.2.1 Item Identification 10.2.1.0-1 Item Name; 10.2.1.0-2 Reference (Manufacturer's Part) Number; 10.2.1.0-3 NSCM/CAGE code; 10.2.1.0-4 NSN (if assigned) ; 10.2.2 Packaging Data 10.2.2.0-1 Unit Weight Packed; 10.2.2.0-2 Unit Size Packed (length, width, depth); 10.2.2.0-3 Unit Weight Unpacked; 10.2.2.0-4 Unit Size Unpacked (length, width, depth); 10.2.2.0-5 Unit Pack Cube (cubic dimensions); 10.2.2.0-6 Packaging Code (A, B, C); 10.2.2.0-7 Hazardous Code (Regulated or Non-regulated); 10.2.2.0-8 Special Packaging Instruction; and 10.2.2.0-9 Special Material Content Code. 10.2.2-1 Notes: 1. To reduce the need for redundant data, similar items may be grouped with the same packaging data applying to the group. 2. The Canadian Forces Supply System requires size in meters and weight in kilograms		

4 CONFIGURATION MANAGEMENT

4.1 DID CM-001 Configuration Management Plan (CMP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Configuration Management Plan (CMP)	2 Data Item Number CM-001	
3 Description / Purpose 3.0-1 The Contractor's CMP describes the Contractor's CM program, how it is organized, how it will be conducted, and the methods, procedures and controls used to assure effective configuration identification, change control, status accounting, and audits of the total configuration, including hardware, software and firmware. The principal purpose is to provide the Crown a basis for review, evaluation, and monitoring of the CM program and its proposed components.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The CMP conforms to the following standards: 7.0-1.0-1 DND Standard D-01-002-007/SG-001 Part 5 - Requirements for the preparation of CM Plans 7.0-1.0-2 MIL-STD-973 Configuration Management 7.0-1.0-3 ANSI/EIA 649A National Consensus Standard for CM		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The CMP must provide in one document all policies, procedures, organizational descriptions and scheduled events relating to CM. It must describe the CI or CIs to which it refers, the procedures for CM application, all CM tasks, CM participants and their roles. 10.0-2 The Contractor must continually update (maintain) it's CMP throughout the life of the contract. 10.0-3 The CMP must be prepared in the Contractor's format and must contain the following information: 10.1 Title Page 10.1.0-1 The document must include a title page containing, as applicable: document number; volume number; version/revision indicator; security markings or other restrictions on the handling of the document; date; document title; name, abbreviation, and any other identifier for the system, subsystem, or item to which the document applies; Contract number; CDRL item number; organization for which the document has been prepared; name and address of the preparing organization; and distribution statement. For data in a database or other alternative form, this information must be included on external and internal labels or by equivalent identification methods. 10.2 Record of reviews and history 10.3 Table of Contents 10.3.0-1 The document must contain a table of contents providing the number, title, and page number of each titled paragraph, figure, table, and appendix. For data in a database or other alternative form, this information must consist of an internal or external table of contents containing		

pointers to, or instructions for accessing, each paragraph, figure, table, and appendix or their equivalents

10.4 Section 1 - Introduction

10.4.0-1 Purpose and Scope

10.4.0-2 Description of the Configuration Items (CIs)

10.4.0-3 Special Features

10.4.0-3.0-1 Underlying assumptions

10.4.0-3.0-2 Strategy

10.4.0-4 Policies and Standards related to CM

10.4.0-5 Reference Documents

10.4.0-6 Definitions

10.4.0-7 Milestones

10.5 Section 2 - Organization

10.5.0-1 Project management structure

10.5.0-2 CM structure

10.5.0-2.0-1 CM personnel and respective responsibilities

10.5.0-2.0-2 Configuration control board; composition and duties/responsibilities

10.5.0-3 Subcontractor/vendor control;

10.6 Section 3 - Configuration Management Procedures

10.6-1 Configuration identification

10.6-1.0-1 CIs

10.6-1.0-2 Engineering release system

10.6-1.0-3 Engineering release record

10.6-1.0-4 Nomenclature

10.6-1.0-5 Documentation numbering

10.6-1.0-6 Hardware identification

10.6-1.0-7 Firmware identification

10.6-1.0-8 Software identification

10.6-1.0-8.0-1 Developmental configuration identification

10.6-1.0-9 Non-developmental item and commercial off-the-shelf

10.6-1.0-10 Functional baseline (FBL)

10.6-1.0-11 Allocated baseline (ABL)

10.6-1.0-12 Product baseline

10.6-2 Configuration control

10.6-2.0-1 Procedures

10.6-3 Configuration status accounting (CSA)

10.6-3.0-1 CSA capabilities

10.6-3.0-2 Database description

10.6-3.0-3 Database procedures

10.6-3.0-4 Reporting

10.6-4 Configuration audits

10.7 Section 4 - Technical Reviews

10.8 Section 5 - Interface management

10.8.0-1 Documentation

10.8.0-2 Interface Control

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10.9 Section 6 - Technical Data Management

10.9.0-1 TDMP

10.9.0-2 EIE

10.10 Section 7 - Acquisition to OWSS Handover

10.10.0-1 Transition of CM Responsibilities

10.10.0-2 Transfer of Information

10.10.0-3 Transition Plan

4.2 DID CM-002 Engineering Change Proposal (ECP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Engineering Change Proposal (ECP)	2 Data Item Number CM-002	
3 Description / Purpose 3.0-1 Contractor request for authorization to make changes to the approved product baseline.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The ECP must conform to Mil-Std-973 Appendix D.		
8 Originator PMO ISSP CM	9 Applicable Forms Figure 6 to Annex CC, Appendix 2	
10 Preparation Instructions 10.0-1 ECP must be provided using the ECP Template provided with this DID. 10.0-2 The ECP must fully describe and substantiate the engineering change required. 10.1 ECP Template Field Descriptions 10.1.1 DATE 10.1.1.0-1 (YY/MM/DD). Enter the submittal date of the ECP. 10.1.2 PROCURING ACTIVITY 10.1.2.0-1 Project Code. 10.1.3 Block 1 10.1.3.0-1 ORIGINATOR NAME AND ADDRESS. Enter name, address and contact information for Contractor authority submitting the ECP. 10.1.4 Block 2 10.1.4.0-1 CLASS OF ECP. Enter the class of ECP either "Class I" or "Class II". Classifications of changes are determined in accordance with referenced paragraphs in Mil-Std-973: 10.1.4.0-1.0-1 Class I: Subject to Government Approval (Para. 5.4.2.2.1.). 10.1.4.0-1.0-2 Class II: Subject to Government Approval for Classification Only (Para. 5.4.2.4.). Info copy of completed Class II change provided to Canada. 10.1.5 Block 3 10.1.5.0-1 JUSTIFICATION CODE. (Reference Mil-Std-973) 10.1.5.0-1.0-1 B - Interface 10.1.5.0-1.0-2 C - Compatibility 10.1.5.0-1.0-3 D - Deficiency 10.1.5.0-1.0-4 O - Operational or Logistics Support 10.1.5.0-1.0-5 P - Production Stoppage 10.1.5.0-1.0-6 R - Cost Reduction 10.1.5.0-1.0-7 S - Safety 10.1.5.0-1.0-8 V - Value Engineering 10.1.6 Block 4 10.1.6.0-1 PRIORITY. Contractor recommendation for processing: 10.1.6.0-1.0-1 E - Emergency. Vital modification required to rectify a condition which may result in a serious hazard to personnel or equipment, or may seriously compromise national security. ECP to be acted upon within 24 hours.		

10.1.6.0-1.0-2 U - Urgent. Urgent modification required to rectify a condition that results in degraded mission effectiveness. ECP to be acted upon within 5 days.

10.1.6.0-1.0-3 R - Routine. ECP to be acted upon within 30 days.

10.1.7 Block 5

10.1.7.0-1 ECP DESIGNATION. Model/Type. - Enter model or type designation of the CI for which this proposal is being filled out. For CSCIs enter the CSCI identification number.

10.1.7.0-2 CAGE Code. - CAGE Code for the activity originating the ECP.

10.1.7.0-3 System Designation. - The system or the top-level CI designation or nomenclature assigned by DND if known.

10.1.7.0-4 ECP No. - Format "ECP-Y-NNN"

10.1.7.0-4.0-1 Y - C (Contractor) or P (Project Office - Canada) indicating Originator

10.1.7.0-4.0-2 NNN - Serial number unique for each change

10.1.7.0-5 Type - P (Preliminary) or F (Formal)

10.1.7.0-6 Rev - Enter revision indicator to identify version

10.1.8 Block 6

10.1.8.0-1 BASELINE AFFECTED. Place an "X" in the box(es) according to the baseline(s) affected.

10.1.9 Block 7

10.1.9.0-1 OTHER SYS. CONFIG. ITEMS AFFECTED. Enter an "X" in the "yes" or "no" box as applicable to indicate whether there is an effect on other systems or CIs which will require the submittal of related Class I ECPs. Supply details in Blocks 25 and 27.

10.1.10 Block 8

10.1.10.0-1 SPECIFICATIONS AFFECTED. If specifications cited in the contract are affected by the ECP, their identity by the CAGE code of the design activity, document number, revision letter, and the Specification Change Notice (SCN) (or Notice of Revision (NOR)) number of the SCN (or NOR) being submitted with the ECP, must be entered.

10.1.11 Block 9

10.1.11.0-1 DRAWINGS AFFECTED. List all drawings or documents affected by the change. Copies of the drawings showing proposed changes must be submitted with the ECP in order to assess the impact of the change. Attach separate list as required.

10.1.12 Block 10

10.1.12.0-1 TITLE OF CHANGE. Enter a brief title to identify the component or system affected by the change. Include the WEAPON SYSTEM CODE OR DESIGNATION in block 10.a.

10.1.13 Block 11

10.1.13.0-1 CONTRACT No. AND LINE ITEM(S). Insert the contract number and identify reference areas of the contract, annexes, appendices and attachments, line item numbers etc., affected by the change.

10.1.14 Block 12

10.1.14.0-1 PROCURING CONTRACTING OFFICER. Enter the procuring contracting officer's name, code and telephone number applicable to the CI shown in block 13.

10.1.15 Block 13

10.1.15.0-1 CONFIGURATION ITEM NOMENCLATURE. Enter the Government assigned name and type designation, CSCI name and number if applicable, or authorized name and number of the CI(s) affected by the ECP.

10.1.16 Block 14

10.1.16.0-1 IN PRODUCTION. The “yes” box must be marked if deliveries have not been completed on the contract (s). The “no” box must be marked if the deliveries have been completed. This block is not always applicable to software. If not applicable, so indicate.

10.1.17 Block 15

10.1.17.0-1 LOWEST ASSEMBLY AFFECTED. For hardware, an appropriate complete descriptive name of the CI must be given here without resorting to such terms as “Numerous bits and pieces”. The part number must also be entered. Additionally, applicable NSNs must be entered.

10.1.17.0-2 For CSCIs, enter the name and identifier of each lower level CI and computer software unit affected.

10.1.18 Block 16

10.1.18.0-1 DESCRIPTION OF CHANGE. The description of the proposed change must include the purpose and must be given in sufficient detail to adequately describe what is to be accomplished. It must be phrased in definitive language such that, if it is repeated in the contractual document authorizing the change, it will provide the authorization desired. A description as to which part of the item or system is being changed must be provided. Supplemental drawings and sketches must be provided to the extent necessary to clearly portray the proposed change. If the proposed change is an interim solution, it must be so stated. If additional space is needed, use continuation pages for details but provide an overview in this block. Information must be included as to whether the revision is a resubmission, replacing the existing ECP in its entirety, or provides change pages to the existing ECP.

10.1.19 Block 17

10.1.19.0-1 NEED FOR CHANGE. Provide an explanation of the need for the change and indicated the benefit to Canada (enhanced performance, range, reliability, maintainability, etc). The nature of the defect, failure, incident, malfunction, etc. substantiating the need for the change must be provided in detail.

10.1.20 Block 18

10.1.20.0-1 PRODUCTION EFFECTIVITY BY SERIAL NUMBER. For hardware, indicate the estimated date of when change will be incorporated on the production line. Also indicate the planned serial number or lot number of when the change will be implemented.

10.1.20.0-2 For CSCIs, identify the CSCI version number into which the change will be incorporated. Where applicable, the effectivity of the end item CI and vehicle (aircraft, tank, ship, etc.) into which the capability represented by the new version of the software is proposed to be incorporated must also be provided. If the impact of the ECP merits the release of a new software version, Block 18 of the ECP submittal must include a recommendation to this effect. Serial numbers may be used in lieu of version numbers if approved by the appropriate TA.

10.1.21 Block 19

10.1.21.0-1 EFFECT ON PRODUCTION DELIVERY SCHEDULE. Indicated the production delivery schedule for items incorporating the change and identify if the change is a variance from the current established production and delivery schedule. If there will be no effect on the delivery schedule, so state.

10.1.22 Block 20

10.1.22.0-1 RETROFIT. Applicable when the change must be accomplished in accepted items by retrofit.

10.1.22.0-1.0-1 a. RECOMMENDED ITEM EFFECTIVITY. Indicate the lot numbers or serial numbers of the item(s) to be retrofitted as a result of the change.

10.1.22.0-1.0-2 b. SHIP/VEHICLE CLASS AFFECTED. When the delivered CI is installed in one or more ship/vehicle classes, enter the identification of such classes. Not applicable when ECP Short Form procedure is specified by contract.

10.1.22.0-1.0-3 c. ESTIMATED KIT DELIVERY SCHEDULE. State estimated kit delivery schedule by quantity and date. When special tooling for retrofit is required for Government use, reference an enclosure in Block 20.b on which is specified the dates of availability of tools, jigs, and test equipment required in conjunction with the kits to accomplish the change.

10.1.22.0-1.0-4 d. LOCATIONS OR SHIP/VEHICLE NUMBERS AFFECTED. State the location(s) at which retrofit is to be accomplished. If retrofit is to be accomplished in ships (or in vehicles for which the serial numbers are not shown in Block 23), enter the ship hull numbers (or vehicle numbers). Not applicable when ECP Short Form procedure is specified by contract.

10.1.22.0-1.0-5 e. For CSCI'S, this block must apply if the change is part of a hardware or equipment change and implementation of the CSCI change is per a hardware retrofit schedule, or the fielded version of the software is to be replaced. If the CSCI change is part of a larger hardware or equipment change and incorporation of the CSCI change is per a hardware retrofit schedule, that information will be included here either directly or by reference.

10.1.23 Block 21

10.1.23.0-1 ESTIMATED COSTS/SAVINGS UNDER CONTRACT. Indicate the total estimated costs/savings of the ECP on the contract.

10.1.24 Block 22

10.1.24.0-1 ESTIMATED NET TOTAL COSTS/SAVINGS. Indicate the total estimated costs/savings impact on the basic and all related ECPs, including other costs/savings to the Government. Not applicable when ECP short form procedures are specified by contract.

10.1.25 Block 23

10.1.25.0-1 SUBMITTING ACTIVITY AUTHORIZED SIGNATURE. An authorized official of the activity entered in the PROCURING ACTIVITY Block must sign this block and provide title in Block 23b. This indicates the ECP has the official sanction of the submitting activity.

10.1.26 Block 24

10.1.26.0-1 This block is for use by the Government. [Note: The Contract Administration Office will review all engineering changes. It will recommend approval or disapproval of Class I ECPS by marking Block 24.a and completing Block 24.d. It will concur or not concur in the classification of Class II engineering changes by marking Block 24.c accordingly and by completing Block 24.d, e and f. When the Government requires approval of Class II engineering changes prior to contractor implementation, the designated approval activity will mark Block 24.b accordingly and will complete Block 24d. For Class I ECPS, the Government contracting officer will mark Block 24.g accordingly and will complete Blocks 24.h, i and j.

10.1.27 ECP (page 2 of 6)

10.1.27.0-1 EFFECTS ON FUNCTIONAL/ALLOCATED CONFIGURATION IDENTIFICATION. This page is to be completed only if the proposed change affects the system specification or the item development specification(s). If a separate product function specification is used, effects on such specification of changes proposed after the PBL has been established must be described either on Page 3 of the ECP form or on enclosures referenced thereon.

10.1.28 Block 25

10.1.28.0-1 OTHER SYSTEMS AFFECTED. Insert data if Block 7 is checked "yes".

10.1.29 Block 26

10.1.29.0-1 OTHER CONTRACTORS/ACTIVITIES AFFECTED. Identify other contractors or government activities which will be affected by this engineering change.

10.1.30 Block 27

10.1.30.0-1 CONFIGURATION ITEMS AFFECTED. Enter the names and numbers of all CIs, maintenance and operator training equipment, and support equipment affected.

10.1.31 Block 28

10.1.31.0-1 EFFECTS ON PERFORMANCE ALLOCATIONS AND INTERFACES IN SYSTEM SPECIFICATION. Describe the changes in performance allocations and in the functional/physical interfaces defined in the system specification.

10.1.32 Block 29

10.1.32.0-1 EFFECTS ON EMPLOYMENT, INTEGRATED LOGISTICS SUPPORT, TRAINING, OPERATIONAL EFFECTIVENESS OR SOFTWARE. For hardware, describe the effects of the proposed change on employment, deployment, logistics, and/or personnel and training requirements which have been specified in the approved system and/or CI specifications, including any changes or effects on the operability of the system. In particular, there must be an entry detailing any effect on interoperability.

10.1.32.0-2 For CSCIS, the following information must be entered as applicable to the degree of design development of the CSCI at the time of ECP submission:

10.1.32.0-2.0-1 Identify any required changes to the data base parameters or values, or to data base management procedures;

10.1.32.0-2.0-2 Identify and explain any anticipated effects of the proposed change on acceptable computer operating time and cycle-time utilization;

10.1.32.0-2.0-3 Provide an estimate of the net effect on computer software storage; and

10.1.32.0-2.0-4 Identify and explain any other relevant impact of the proposed change on utilization of the system.

10.1.33 Block 30

10.1.33.0-1 EFFECTS ON CONFIGURATION ITEM SPECIFICATIONS. The effect of the proposed change on performance must be described in quantitative terms as it relates to the parameters contained in the CI development specifications.

10.1.34 Block 31

10.1.34.0-1 DEVELOPMENTAL REQUIREMENTS AND STATUS. For hardware, when the proposed engineering change requires a major revision of the development program (e.g., new prototypes, additional design review activity, tests to be reaccomplished), the nature of the new development program must be described in detail, including the status of programs already begun.

10.1.34.0-2 For CSCIS, the contractor must identify the scheduled sequence of computer software design and test activities which will be required. ECPS initiated after preliminary design which affects the FBL and/or the ABL must identify, as appropriate, significant requirements for computer software redesign, recoding, repetition of testing, changes to the software engineering/test environments, special installation, adaptation, checkout, and live environment testing. In addition, the specific impact of these factors on approved schedules must be identified. The impact of the software change on the hardware design and input/output cabling must also be detailed.

10.1.35 Block 32

10.1.35.0-1 TRADE-OFFS AND ALTERNATIVE SOLUTIONS. A summary of the various solutions considered must be included with an analysis showing the reasons for adopting the solution proposed by the ECP.

10.1.36 Block 33

10.1.36.0-1 DATE BY WHICH CONTRACTUAL AUTHORITY IS NEEDED. Enter the date contractual authority will be required in order to maintain established schedule.

10.1.37 ECP (page 3 of 6)

10.1.37.0-1 EFFECTS ON PRODUCT CONFIGURATION IDENTIFICATION, LOGISTICS AND OPERATIONS. Certain information required this page may have been required on pages 1 and 2 or does not apply to computer software. When such information has already been supplied, a cross-reference to such information will be adequate.

10.1.37.0-1.0-1 For hardware, if any specific logistic interoperability factors are affected, the contractor must provide information detailing the possible impact on the operational configuration on an attached page.

10.1.37.0-1.0-2 For CSCIs, the software engineering and test environments are usually not affected by changes in the product configuration of a CSCI. In Block 39, the Contractor must provide information about the status of the software redesign and retesting effort. There must also be a review of the intent of Blocks 37, 38, 42, 43, 44 and 46, to document CSCI impacts in these areas.

10.1.38 Block 34

10.1.38.0-1 EFFECT ON PRODUCT CONFIGURATION IDENTIFICATION OR CONTRACT. The effects on the approved CI product specifications must be described by reference to the SCNs, NORs or other enclosure(s) which cover such proposed text changes in detail. The effects on performance, weight, moment, etc., which are covered in the enclosure(s), must be indexed by proper identification adjacent to the factor affected. The effects on drawings, when not completely covered on Page 1, must be described in general terms by means of a referenced enclosure. Such enclosure may consist of a list of enclosed NORs if submittal of an NOR for each drawing affected is a requirement of the contract. Indicate any technical data submittal which is not provided for in the CDRL by means of a referenced enclosure. Address nomenclature change when applicable.

10.1.39 Block 35

10.1.39.0-1 EFFECT ON INTEGRATED LOGISTICS SUPPORT (ILS) ELEMENTS. The effects of the engineering change on logistic support of the item must be indicated by checking the appropriate boxes. These effects must be explained in detail on an enclosure indexed by appropriate identification adjacent to the subject under discussion. The information required must indicate the method to be used to determine the integrated logistic support plans and items which will be required for the support of the new configuration as well as retrofitting previously delivered items to the same configuration. The following must be covered as applicable:

10.1.39.0-1.0-1 Effects on schedule and content of the ILS plan.

10.1.39.0-1.0-2 Effect on maintenance concept and plans for the levels of maintenance and procedures.

10.1.39.0-1.0-3 LSA tasks to be accomplished and LSA data requiring update wherever it exists in the contract.

10.1.39.0-1.0-4 Extension/revision of the interim support plan.

10.1.39.0-1.0-5 Spares and repair parts that are changed, modified, obsolete or added, including detailed supply data for interim support spares. (Failure to include detailed supply data will delay ECP processing).

10.1.39.0-1.0-6 Revised or new technical manuals.

10.1.39.0-1.0-7 Revised or new facilities requirements and site activation plan.

10.1.39.0-1.0-8 New, revised, obsolete or additional support equipment (SE), test procedures and software. For items of SE and trainers which require change, furnish a cross reference to the related ECPS, and for any related ECP not furnished with the basic ECP, furnish a brief description of the proposed change(s) in SE and trainers.

10.1.39.0-1.0-9 Qualitative and quantitative personnel requirements data which identify additions or deletions to operator manpower in terms of personnel skill levels, knowledge and numbers required to support the CI as modified by the change.

10.1.39.0-1.0-10 New operator training requirements in terms of training equipment, trainers and training software for operator courses. This information must include identification of specific courses, equipment, technical manuals, personnel, etc. required to set up the course at either the contractor or Government facility.

10.1.39.0-1.0-11 Qualitative and quantitative personnel requirements data which identify additions or deletions to maintenance manpower in terms of personnel skill levels, knowledge and numbers required to support the CI as modified by the change.

10.1.39.0-1.0-12 New maintenance training requirements in terms of training equipment, trainers and training software for maintenance courses. This information must include identification of specific courses, equipment, technical manuals, personnel, etc. required to set up the course at either the contractor or Government facility.

10.1.39.0-1.0-13 Any effect on contract maintenance that increases the scope or dollar limitation established in the contract.

10.1.39.0-1.0-14 Effects on packaging, handling, storage, and transportability resulting from changes in materials, dimensions, fragility, inherent environmental or operating conditions.

10.1.40 Block 36

10.1.40.0-1 EFFECT ON OPERATIONAL EMPLOYMENT. The effects of the engineering change of CI utilization must be indicated by checking the appropriate factors and providing details by enclosures. Quantitative values must be used whenever practicable but are required when reliability and service life are impacted. Survivability includes nuclear survivability

10.1.41 Block 37

10.1.41.0-1 OTHER CONSIDERATIONS. The effects of the proposed engineering change on the following must be identified on an enclosure indexed by appropriate identification adjacent to the factor affected:

10.1.41.0-1.0-1 Interfaces having an effect on adjacent or related items (output, input, size, mating connections, etc.)

10.1.41.0-1.0-2 GFE or GFI changed, modified or obsolete.

10.1.41.0-1.0-3 Physical constraints. Removal or repositioning of items, structural rework, increase or decrease in overall dimensions.

10.1.41.0-1.0-4 Software (other than operational, maintenance, and training software) requiring a change to existing code and/or, resources or addition of new software.

10.1.41.0-1.0-5 Rework required on other equipment not included previously which will effect the existing operational configuration.

10.1.41.0-1.0-6 Additional or modified system test procedures required.

10.1.41.0-1.0-7 Any new or additional changers having an effect on existing warranties or guarantees.

10.1.41.0-1.0-8 Changes or updates to the parts control program.

10.1.41.0-1.0-9 Effects on life cycle cost projections for the configuration item or program,

including projections of operation and support costs/savings for the item(s) affected over the contractually defined life and projections of the costs/savings to be realized in planned future production and spares buys of the item(s) affected.

10.1.42 Block 38

10.1.42.0-1 ALTERNATE SOLUTIONS. A summary of the various alternative solutions considered, including the use of revised operation or maintenance procedures, revised inspection or servicing requirements, revised part replacement schedules, etc., must be included. The contractor must provide an analysis of the alternatives, identify the advantages and disadvantages inherent in each feasible alternative approach, and show the reasons for adopting the alternative solution proposed by the ECP. When the contractor's analysis addresses new concepts or new technology, supporting data (to include LSA if contractually required) must be presented with the proposal to authenticate the trade-off analysis.

10.1.43 Block 39

10.1.43.0-1 DEVELOPMENTAL STATUS. When applicable, the contractor must make recommendations as to the additional tests, trials, installations, prototypes, fit checks, etc., which will be required to substantiate the proposed engineering change. These recommendations must include the test objective and test vehicle(s) to be used. The contractor must indicate the development status of the major items of GFE which will be used in conjunction with the change and the availability of the equipment in terms of the estimated production incorporation point.

10.1.44 Block 40

10.1.44.0-1 RECOMMENDATIONS FOR RETROFIT. When applicable, the contractor must make recommendations for retrofit of the engineering change into accepted items with substantiating data, any implications thereto, and a brief description of the action required. Where retrofit is not recommended, an explanation of this determination must be provided. Reference must be made to any enclosure required to state recommended retrofit effectivity (See Block 20a).

10.1.45 Block 41

10.1.45.0-1 WORK-HOURS PER UNIT TO INSTALL RETROFIT KITS. Complete blocks 40.a through 40.d to show the amount of work which must be programmed for various activities to install retrofit kits. Estimate work-hours to install retrofit kits when weapon system is undergoing overhaul.

10.1.46 Block 42

10.1.46.0-1 WORK-HOURS TO CONDUCT SYSTEM TESTS AFTER RETROFIT. Enter the work-hours required to test the system or the item following installation of the retrofit kit.

10.1.47 Block 43

10.1.47.0-1 THIS CHANGE MUST BE ACCOMPLISHED. Where previously approved engineering changes must be incorporated in a specific order in relation to the proposed change, such order must be specified.

10.1.48 Block 44

10.1.48.0-1 IS CONTRACTOR FIELD SERVICE ENGINEERING REQUIRED? Check applicable box. If "yes", attach proposed program for contractor participation.

10.1.49 Block 45

10.1.49.0-1 OUT OF SERVICE TIME. Estimate the total time period from removal of the equipment from operational service until equipment will be returned to operational status after being retrofitted.

10.1.50 Block 46

10.1.50.0-1 EFFECT OF THIS ECP AND PREVIOUSLY APPROVED ECPs ON ITEM. The contractor must summarize the cumulative effect upon performance, weight, electrical load, etc., of this ECP and previously approved ECPS when design limitations are being approached or exceeded. Consequences of ECP disapproval may be stated in this block or in a referenced enclosure.

10.1.51 Block 47

10.1.51.0-1 DATE CONTRACTUAL AUTHORITY NEEDED FOR. The contractor must provide the date by which contractual authority to proceed is needed to maintain the estimated effectiveness specified in the ECP and to provide concurrent ILS and logistics support item deliveries. The contractor must consider the targets for decision allowing additional time for review, mailing, and other incidental handling and processing requirements.

10.1.52 ECP (page 4 of 6)

10.1.52.0-1 Page 4 is intended as the summary of the estimated net total cost/savings impact of a single ECP. In blocks 48.a through d, each cost factor associated with the ECP must be considered as to whether such cost or portion thereof under the subject contract is recurring or nonrecurring. Enter cost/savings in columns 1 and 4, as applicable, using entries in the “unit” and “quantity” columns when appropriate. Savings must be enclosed with parentheses. Other costs/savings to the Government resulting from approval of this ECP must be entered in column 6 to the extent these costs can be determined by the contractor. This estimate of cost impact will be used for planning purposes and for a cost reduction or VE ECP analysis as to the net saving that would result. Firm cost proposals must be submitted, together with the appropriate cost breakdown.

10.1.53 Block 48

10.1.53.0-1 ESTIMATED NET TOTAL COST IMPACT. (Use parentheses for savings).

10.1.53.1 Block 48.a

10.1.53.1.0-1 PRODUCTION COSTS/SAVINGS. Enter the estimate of costs/savings applicable to production of the CI resulting from incorporation of the change. Show redesign costs for the CI at the line titled “engineering, engineering data revisions” when the item is in production. Enter the projected life cycle costs/savings applicable to the planned production and spares buys of the item that are not yet on contract on the CONFIGURATION ITEM/CSCI line in column 6. Enter the subtotal of production costs (both nonrecurring and recurring) in the fifth column.

10.1.53.2 Block 48.b

10.1.53.2.0-1 RETROFIT COSTS. Enter the estimate of costs applicable to retrofit of the item, including installation and testing costs. When Government personnel accomplish, or are involved in, the installation and/or testing activities, the estimated costs must be entered in column 6 on the affected lines. Show design costs of the retrofit kit and data revision costs strictly related to retrofit when the CI is in production; show all redesign and data revision costs when the item is not in production. Costs of modifications required to existing GFE and subsequent testing also must be shown. Enter the subtotal of retrofit costs in the fifth column. If some or all of the retrofit activities and costs will have to be deferred and placed on contract at a future date, show that deferred portion of the cost applicable to each line of Block 51b in column 6.

10.1.53.3 Block 48.c

10.1.53.3.0-1 INTEGRATED LOGISTICS SUPPORT COSTS/SAVINGS. Enter the estimated cost of the various elements of ILS applicable to the item covered by the ECP. On the line titled “interim support,” estimated costs must be entered based upon the period of time between initial installation/operation of the item (aircraft, tank, etc.) as modified by the ECP and Government

attainment of support capability. Such “interim support” costs must include costs estimates of contractor recommended/provided spares and repair parts, special support equipment, training equipment and personnel training program. On the line titled “maintenance manpower” must be entered the estimated costs/ savings for the contracted maintenance support for the remainder of existing maintenance contracts. Enter the subtotal of ILS costs/savings in column 5. Enter the operation and support portion of the life cycle cost/savings on the subtotal line in column 6.

10.1.53.4 Block 48.d

10.1.53.4.0-1 OTHER COSTS/SAVINGS. If there are other costs under the contract which do not fall under the production, retrofit or ILS headings, enter the total of such costs in Block 48.d, column 5. If there are other costs to the Government which do not fall under the production, retrofit or ILS headings or under Block 48.g, “coordination changes by Government”, enter the total of such costs in Block 48.d, column 6.

10.1.53.5 Block 48.e

10.1.53.5.0-1 SUBTOTAL COSTS/SAVINGS. Enter the subtotals of columns 1, 4, 5, and 6 on this line. The subtotal in column 5 must be the sum of columns 1 and 4. This subtotal under the contract then must be entered on the line so titled in column 6 and on Page 1, Block 21.

10.1.53.6 Block 48.f

10.1.53.6.0-1 COORDINATION OF CHANGES WITH OTHER CONTRACTORS. This term applies to interface changes to items other than GFE, and changes to GFE being covered under 48.b. If such coordination changes are covered by related ECPs, the estimated costs thereof must be entered in Block 48.f, when available.

10.1.53.7 Block 48.g

10.1.53.7.0-1 COORDINATION CHANGES BY GOVERNMENT. Enter in this block an estimate of the cost to the Government of interface changes which must be accomplished in delivered items (aircraft, ships, facilities, etc.) to the extent such costs are not covered in Block 48.b.

10.1.53.8 Block 48.h

10.1.53.8.0-1 ESTIMATED NET TOTAL COSTS/SAVINGS. Enter the sum of all costs/savings in column 6 and block 22 on page 1.

10.1.54 ECP (HARDWARE) (page 5 of 6)

10.1.54.0-1 Required only with hardware related ECPs.

10.1.55 Block 49

10.1.55.0-1 MILESTONE CHART. Enter the symbols (see legend on form), as appropriate for the activity, to show the time phasing of the various deliveries of items, support equipment, training equipment, and documentation incorporating the basic and related ECPS. Enter other symbols and notations to show the initiation or termination of significant actions. All dates are based upon months after contractual approval of the basic ECP.

10.1.56 ECP (SOFTWARE) (page 6 of 6)

10.1.56.0-1 Required only with software related ECPs.

10.1.57 Block 50

10.1.57.0-1 MILESTONE CHART. Enter the symbols (See legend on form.) , as appropriate for the activity, to show the time phasing of the various deliveries of items, training equipment and documentation incorporating the basic and related ECPs . Enter other symbols and notations to show the initiation or termination of significant actions. All dates are based upon months after contractual approval of the basic ECP.

RFP - N° de la DP
W8476-112965/B

Amendment No. - N° de la modif.

Buyer ID - Id de l'acheteur
004RA

Client Reference No. - N° de réf. du client
W8476-112965

File No. - N° du dossier
004RA W8476-112965

Volume 2, Annex CC, Appendix 2

4.3 DID CM-003 Notice of Revision (NOR)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Notice of Revision (NOR)	2 Data Item Number CM-003	
3 Description / Purpose 3.0-1 A NOR depicts changes that must be made to technical documentation (drawings, associated lists, or other applicable documents) controlled by another contractor or Government agency following approval of an ECP. 3.0-2 A NOR is used to direct the custodian of each drawing, associated list, or other applicable document(s) to make the required documentation changes.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The NOR follows the approval of an ECP. 7.0-2 The NOR must conform to Mil-Std 973, Appendix G.		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 Format and Content - Contractor format is acceptable. Content must be in accordance with Appendix G of MIL-STD-973. 10.0-2 The NOR must fully describe the changes. 10.0-3 The following information must be included and detailed: 10.1 Block 1 10.1.0-1 Date. Enter the submittal date of the NOR. Normally this date will be identical to the ECP submittal date. 10.2 Block 2 10.2.0-1 Procuring activity number. 10.3 Block 3 10.3.0-1 DODAAC. 10.4 Block 4 10.4.0-1 Originator name and address. Enter the name and address of the activity submitting the proposed NOR. 10.5 Block 5 10.5.0-1 CAGE code. Enter the originator's CAGE code of the design activity for the drawing/document identified in Block 8. 10.6 Block 6 10.6.0-1 NOR number. The originator must either assign a number or enter the document number and new revision letter as the NOR number. When the requirement in the contract identifies the NOR by ECP number, the originator must attach a dash number (i.e., xxx-I). 10.7 Block 7 10.7.0-1 CAGE code. Enter the CAGE code of the activity whose NOR number is assigned. 10.8 Block 8 10.8.0-1 Document number. Enter the number of the drawing, standard, list or other document(s) to be revised.		

10.9 Block 9

10.9.0-1 Title of document. Enter the title of the document to which the NOR applies.

10.10 Block 10

10.10.0-1 Revision letter.

10.10.1 Block 10.a

10.10.1.0-1 Current. Show the existing revision of the document for which the NOR is prepared.

10.10.2 Block 10.b

10.10.2.0-1 New. Show the revision letter proposed for the revision covered by the NOR. Usually the new letter will be the one following the current letter in alphabetical sequence, unless there are known outstanding NORs which may not have been incorporated.

10.10.2.0-2 NOTE: The Government may change the new revision letter proposed by the contractor in order to retain a proper sequence of approved revisions.

10.11 Block 11

10.11.0-1 ECP number. Enter the number of the ECP describing the engineering change which necessitates the document revision covered by this NOR.

10.12 Block 12

10.12.0-1 Configuration Item (or system) to which ECP applies. Enter Government assigned system designation (if any); otherwise, enter the name and type designation of the CI to which the ECP applies (see Blocks 8a, 8c and 16 on ECP).

10.13 Block 13

10.13.0-1 Description of revision. Describe the revision in details, giving the exact wording of sentences or paragraphs that are to be added, or that are to replace designated sentences or paragraphs of the current document. State the dimensions, tolerances and other quantitative requirements that are to replace current requirements. Attach a marked print when necessary to clearly explain the desired revision. Use a "From - To" format in the description of the change. If additional space is needed, use continuation pages.

10.14 Block 14

10.14.0-1 Section for Government use only.

10.14.1 Block 14.a

10.14.1.0-1 Document status. The Government approving activity will enter an "X" in the first box if manufacturer may proceed using the existing document as modified by this NOR. If SO, a copy of the approved NOR will be furnished both to the contractor submitting the ECP and to the custodian of the master document. The Government approving activity will enter an "X" in the second box if the contractor is not authorized to incorporate the change proposed by the submitted NOR until receipt of the revised document. The Government approving activity will enter an "X" in the third box directing the custodian to make the change and distribute copies of the revised document. The distribution list may be entered in Block 14, on a referenced enclosure, or in a letter of transmittal.

10.14.2 Block 14.b

10.14.2.0-1 Activity authorized to approve change. The name of the activity authorized to approve the ECP and the associated NORs for the Government will be entered by such activity.

10.14.3 Blocks 14.d., 14.e. and 14.f

10.14.3.0-1 Title, signature and date. If the referenced ECP is approved and the NOR also is approved as written or corrected, an authorized representative of the Government approving activity will sign in this block, including entry of the date of approval

10.15 Block 15

10.15.0-1 Activity.

10.15.1 Block 15.a

10.15.1.0-1 Activity accomplishing revision. The name of the activity (custodian) that is directed to make the revision in the master document will be entered by the approving activity.

10.15.2 Blocks 15.b. and 15.c

10.15.2.0-1 Revision completed and date. An authorized representative of the custodian must sign in this block to certify that the revision described by the NOR has been accomplished, including entry of the date of the accomplishment. The signed original must be returned to the Government or held by the activity that maintains the master document.

4.4 DID CM-004 Software Version Description Document (SVDD)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Software Version Description Document (SVDD)	2 Data Item Number CM-004	
3 Description / Purpose 3.0-1 The SVDD identifies and describes a software version comprising one or more CSCIs. It is used to release, track and control software versions. The SVDD is applicable to the initial release of software, subsequent Block Changes or releases, as well as any site-specific variants of the software.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The SVDD must be prepared in the Contractor's format. 10.0-2 This document must be updated and resubmitted upon new software release of the related CSCI. 10.0-3 The SVDD must contain the following: 10.1 Title Page 10.1.0-1 The document must include a title page containing, as applicable: document number; volume number; version/revision indicator; security markings or other restrictions on the handling of the document; date; document title; name, abbreviation, and any other identifier for the system, subsystem, or item to which the document applies; Contract number; CDRL item number; organization for which the document has been prepared; name and address of the preparing organization; and distribution statement. For data in a database or other alternative form, this information must be included on external and internal labels or by equivalent identification methods. 10.2 Record of reviews and history 10.3 Table of contents 10.3.0-1 The document must contain a table of contents providing the number, title, and page number of each titled paragraph, figure, table, and appendix. For data in a database or other alternative form, this information must consist of an internal or external table of contents containing pointers to, or instructions for accessing, each paragraph, figure, table, and appendix or their equivalents. 10.4 Scope 10.4.0-1 This section must be divided in the following paragraph: 10.4.0-1.0-1 Identification. This paragraph must contain a full identification of the system and the software to which this document applies, including, as applicable, identification number(s), title(s), abbreviation(s), version number(s), and release number(s). 10.4.0-1.0-2 System Overview. This paragraph must briefly state the purpose of the system and the software to which this document applies. It must describe the general nature of the system		

and software; summarize the history of system development, operation, and maintenance, developer and support agencies; and list other relevant documents.

10.4.0-1.0-3 Document Overview. This paragraph must summarize the purpose and contents of this document and must describe any security or privacy considerations associated with its use.

10.5 Referenced Documents

10.5.0-1 This section must list the number, title, revision, and date of all documents referenced in this document. This section must also identify the source for all documents not available through normal Government stocking activities.

10.6 Version Description

10.6.0-1 This section must be divided into the following paragraphs.

10.6.0-1.0-1 Inventory of Materials Released. This paragraph must list by identifying numbers, titles, , version numbers, and release numbers, as applicable, all physical media (for example, listings, tapes, disks) and associated documentation that make up the software version being released. It must include applicable security and privacy considerations for these items, safeguards for handling them, such as concerns for static and magnetic fields, and instructions and restrictions regarding duplication and license provisions.

10.6.0-1.0-1.0-1 Media. This paragraph must describe the media on which the released version of the CSCI has been stored. It must state the number of copies that have been produced and provide information on the media identification.

10.6.0-1.0-1.0-2 Support. This paragraph must identify the hardware and software tools, either commercial off the shelf or developed, needed for the generation and maintenance of the software (compiler, environment, etc) and for the installation of the executable on the target system (hardware, environment, etc). This paragraph must also describe the step by step procedure to build the executable program or refer to an external document in which the build procedure is described.

10.6.0-1.0-2 Inventory of Software Contents. This paragraph must list by identifying numbers, titles, abbreviations, dates, version numbers, and release numbers, as applicable, all computer files that make up the software version being released. Any applicable security and privacy considerations must be included.

10.6.0-1.0-3 Changes Installed. Describe the changes, which have been implemented in the current software version, as compared to the previous one. This may include both enhancements as well as fault fixes. This paragraph must identify, as applicable, the problem reports, change proposals, and change notices associated with each change. This paragraph is not applicable to the initial release of software.

10.6.0-1.0-4 Target Platform Configuration. Specify the required configuration of the target platform before this software version can be installed and executed, or reference a hardware specification document.

10.6.0-1.0-5 Adaptation Data. For the initial software release, describe the site-specific data or customizations featured in this version of the software, corresponding to the target platform above. For subsequent releases, describe any changes to the site-specific data.

10.6.0-1.0-6 Interface Compatibility. This paragraph must indicate other systems and CSCIs affected by the changes incorporated in this version. It must also indicate which version(s) of the interfaced CSCI(s) is (are) compatible with the current version of the software.

10.6.0-1.0-7 Related Documents. List any other documents, which are applicable to the software version being released, but which are physically not included in this release. Indicate the

document titles, document numbers, version numbers, version dates, and publication source.

10.6.0-1.0-8 Summary of Changes. This paragraph must describe the operational effect, if any, of the changes listed in 3.3 above.

10.6.0-1.0-9 Installation Instructions. This paragraph must provide or reference the following information, as applicable.

10.6.0-1.0-9.0-1 Instructions for installing the software version.

10.6.0-1.0-9.0-2 Identification of other changes that have to be installed for this version to be used, including site-unique adaptation data not included in the software version.

10.6.0-1.0-9.0-3 Security, privacy, or safety precautions relevant to the installation.

10.6.0-1.0-9.0-4 Procedures for determining whether the version has been installed properly.

10.6.0-1.0-9.0-5 Point-of-contact in case difficulties are encountered with the software installation.

10.6.0-1.0-10 Possible Problems and Known Errors. This paragraph must identify any possible problems or known errors with the software version at the time of release, any steps being taken to resolve the problems or errors, and instructions (either directly or by reference) for recognizing, avoiding, correcting, or otherwise handling each one. The information presented must be appropriate to the intended recipient of the SVDD (for example, a user agency may need advice on avoiding errors, a support agency on correcting them).

10.7 Supplementary Notes

10.7.0-1 Any additional information about the software version, which may facilitate installer or user understanding (e.g. acronyms, definitions, background information, and rationale).

4.5 DID CM-005 Equipment Breakdown Structure (EBS)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Equipment Breakdown Structure (EBS)	2 Data Item Number CM-005	
3 Description / Purpose 3.0-1 The EBS defines the system and is comprised of a list and a pictorial representation of the system decomposition down to its lowest CI, including the identification of each item. The EBS also identifies the associated product baseline data and documents, including drawings for each item. 3.0-2 It can be developed as a physical breakdown of the components and be presented in the format of a family tree. 3.0-3 The EBS provides the breakdown structure of the equipment for purposes of: 3.0-3.0-1 Identifying the candidate items or maintenance significant items for logistics analyses; and 3.0-3.0-2 Identifying CIs as detailed in the CMP.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The EBS must conform to DND Standard D-01-002-007/SG-006 Criteria for selection of Configuration Items. 7.0-2 The EBS must be consistent with the Maintenance Plan. 7.0-3 The EBS must encompass the ISS-S requirements in Appendix 1 to Annex CB of the ASOW.		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The Contractor must provide an EBS in the Contractor's format and must contain the following information: 10.0-1.0-1 Title Page. 10.0-1.0-2 Revision Record. 10.0-1.0-3 Table of Contents. 10.0-2 EBS - list and provide a pictorial representation of the system decomposition down to the CI level, including identification of each item, the associated product baseline data and documents, including drawings for each item. A family tree format can be used. 10.0-2.0-1 The EBS must clearly define down to the lowest repairable assembly the relationship of the ISS items which combine to perform the same function. 10.0-2.0-2 The EBS must identify all LRUs, as determined by the Contractor and consistent with DID LS-005 Maintenance Plan. The LRUs identified must completely encompass all of the requirements of the ISS-S as detailed in the TPS of Appendix 1 to Annex CB to Volume 2. 10.0-2.0-3 The EBS must clearly define down to the Lowest Replaceable Unit (LoRU) the relationship of the ISS items which combine to perform the same function. 10.0-3 Common Configuration List (if applicable) - The Contractor must list those items of common configuration as identified in the ISS-S EBS. This list will be used by the TA to rationalize test requirements for the ISS-S and to identify common repair parts that were procured during the ISS program.		

4.6 DID CM-006 Request for Deviation (RFD)/Request for Waiver (RFW)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Request for Deviation (RFD)/Request for Waiver (RFW)	2 Data Item Number CM-006	
3 Description / Purpose 3.0-1 A RFD describes a proposed (prior to manufacture) departure from configuration documentation for a specific number of units or for a specified period of time. A RFD enables the Crown to determine the impact on performance, operational readiness, logistics support or other affected areas. Normally, for the units affected, the different configuration will be permanent. 3.0-2 A RFW is used to obtain authorization to deliver non-conforming material which does not meet the prescribed configuration documentation but is suitable for use "as is" or after repair. A RFW enables the Crown to evaluate and authorize acceptance of an item not conforming to contractual requirements.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The RFD and RFW must conform to MIL-STD 973 Appendix E.		
8 Originator PMO ISSP CM	9 Applicable Forms Figure 7 to Annex CC, Appendix 2	
10 Preparation Instructions 10.0-1 Format and Content - Contractor format is acceptable. Content must be in accordance with Appendix E of MIL-STD-973. 10.0-2 The RFD/RFW must fully describe and substantiate the request. 10.1 RFD/RFW Template Field Descriptions 10.1.1 Block 1 10.1.1.0-1 DATE (YY/MM/DD). Enter the submittal date of the RFD/RFW. 10.1.2 Block 2 10.1.2.0-1 Procuring Activity Number. 10.1.3 Block 3 10.1.3.0-1 Department of Defense Activity Address Code (DODAAC). Enter the DODAAC of the procuring activity. 10.1.4 Block 4 10.1.4.0-1 Originator name and address. Enter name, address and contact information for authority submitting the RFD/RFW. 10.1.5 Block 5 10.1.5.0-1 DEVIATION or WAIVER. Enter an "X" in the appropriate box. 10.1.6 Block 6 10.1.6.0-1 CLASSIFICATION: Enter an "X" in the appropriate box. 10.1.6.0-1.0-1 Minor: The deviation / waiver consists of a departure which does not involve the factors listed for Major or Critical. 10.1.6.0-1.0-2 Major: The deviation / waiver consists of a departure involving (a) health, (b) performance, (c) interchangeability, reliability, survivability, maintainability, or durability of the item or its repair parts; (d) effective use or operation; (e) weight and size; or (6) appearance		

(when a factor).

10.1.6.0-1.0-3 Critical: The deviation / waiver consists of a departure involving safety.

10.1.7 Block 7

10.1.7.0-1 Designation for DEVIATION / WAIVER

10.1.7.0-1.1 Block 7.a

10.1.7.0-1.1.0-1 Model/Type. Enter model or type designation of the CI for which this request is being submitted. For CSCIs, enter the CSCI identification number.

10.1.7.0-1.2 Block 7.b

10.1.7.0-1.2.0-1 CAGE Code. Enter the CAGE code for the activity originating the deviation/waiver.

10.1.7.0-1.3 Block 7.c

10.1.7.0-1.3.0-1 System designation. The system or top level CI designation or nomenclature assigned by the Government must be entered, if known.

10.1.7.0-1.4 Block 7.d

10.1.7.0-1.4.0-1 Deviation/Waiver number.

10.1.7.0-1.4.0-1.0-1 No. - Format "AAA-Y-NNN"

10.1.7.0-1.4.0-1.0-2 AAA = RFD or RFW (Deviation or Waiver)

10.1.7.0-1.4.0-1.0-3 Y = C (Contractor) or P (Project Office - Gov) indicating Originator.

10.1.7.0-1.4.0-1.0-4 NNN = Serial number unique for each Request

10.1.8 Block 8

10.1.8.0-1 Configuration baseline affected. Check the applicable box for the affected baseline.

10.1.9 Block 9

10.1.9.0-1 Other system/configuration affected. Check applicable box. If yes, provide summary data in block 20.

10.1.10 Block 10

10.1.10.0-1 TITLE OF DEVIATION / WAIVER. Enter a brief descriptive title of the deviation or waiver.

10.1.11 Block 11

10.1.11.0-1 CONTRACT NUMBER AND LINE ITEM. Insert the contract number and identify reference areas of the Contract, Annexes, Appendices and Attachments, Line Item Numbers etc. affected by the deviation / waiver.

10.1.12 Block 12

10.1.12.0-1 PROCURING CONTRACT OFFICER. Enter the name and Phone number for the Contractor's procuring contract officer applicable to the item(s) in Block 9.

10.1.13 Block 13

10.1.13.0-1 Configuration item nomenclature. Enter the Government assigned name and type designation, if applicable, or authorized name and number of the CI to which the deviation or waiver will apply.

10.1.14 Block 14

10.1.14.0-1 Classification of Defect (CD).

10.1.14.1 Block 14.a

10.1.14.1.0-1 CD number. Enter the CD # assigned if applicable.

10.1.14.2 Block 14.b

10.1.14.2.0-1 Defect number. If a CD applies, enter the defect number (s) which correspond(s) with the characteristic(s) from which an authorized deviation or waiver is desired.

10.1.14.3 Block 14.c

10.1.14.3.0-1 Defect classification. If a CD applies, check the box which states the proper classification of the defect number (s) entered in block 14.b.

10.1.15 Block 15

10.1.15.0-1 Name of lowest part/assembly affected. Give an appropriate descriptive name of the part (s) without resorting to such terms as "Numerous bits and pieces".

10.1.16 Block 16

10.1.16.0-1 Part number or type designation. Enter the part number(s) of part(s) named in Block 15 or type designation/nomenclature if applicable.

10.1.17 Block 17

10.1.17.0-1 EFFECTIVITY. If lot numbers have been assigned, enter the number(s) applicable to the lot(s) for which the deviation / waiver is being requested. Lot may also be defined by serial numbers of the affected items.

10.1.18 Block 18

10.1.18.0-1 Recurring deviation/waiver. Show whether the same deviation or waiver has been requested and approved previously by placing an "X" in the proper box. If "yes," reference the previous correspondence, the request number, and corrective action to be taken in Block 24. In addition, if yes, provide rationale why recurrence was not prevented by previous corrective action and/or accomplished design change.

10.1.19 Block 19

10.1.19.0-1 EFFECT ON COST / PRICE. Enter the estimated reduction or price adjustment. If no change, so state with rationale. The request for deviation or waiver must include the specific consideration that will be provided to the Government if this "non-conforming" unit(s) is accepted by the Government.

10.1.20 Block 20

10.1.20.0-1 EFFECT ON DELIVERY SCHEDULE. State the effects on the contract delivery schedule that will result from both approval and disapproval of the request for deviation or waiver.

10.1.21 Block 21

10.1.21.0-1 Effect on integrated logistics support, interface or software. If the deviation / waiver have an impact on integrated logistics support or the interface, describe the effects in an enclosure and reference the enclosure in this block. Attach additional documentation as required and reference those enclosures in the block.

10.1.22 Block 22

10.1.22.0-1 DESCRIPTION OF DEVIATION / WAIVER. Describe the nature of the proposed departure from the technical requirements. Marked drawings for the systems / sub-systems must be included when necessary to provide a better understanding of the deviation / waiver.

10.1.23 Block 23

10.1.23.0-1 NEED FOR DEVIATION / WAIVER. Provide an explanation of why it is impossible or unreasonable to comply with the configuration documentation within the specified delivery schedule. Include an explanation why a deviation or waiver is proposed in lieu of a permanent design change.

10.1.24 Block 24

10.1.24.0-1 CORRECTIVE ACTION TAKEN. Describe action being taken to correct non-conformance to prevent a future occurrence.

10.1.25 Block 25

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10.1.25.0-1 SUBMITTING ACTIVITY. Print the name of the individual authorized to submit the Deviation / Waiver and have the Deviation / Waiver signed and dated.

10.1.26 Block 26

10.1.26.0-1 APPROVAL / DISAPPROVAL. To be completed and signed by the Government Authority authorized to make the decision on the acceptance or rejection of the deviation / waiver.

4.7 DID CM-007 Specification Change Notice (SCN)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Specification Change Notice (SCN)	2 Data Item Number CM-007	
3 Description / Purpose 3.0-1 The SCN is used to transmit and record changes to specification(s). The SCN is used to delineate the exact change(s) in a specification that will be distributed to users when the SCN is approved.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The SCN must conform to Mil-Std 973 Appendix F. 7.0-2 The SCN refers to the DLA Cataloguing Handbook H4/H8.		
8 Originator ISSP PMO CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 Format and Content - Contractor format is acceptable. Content must be in accordance with Appendix F of MIL-STD-973. 10.0-2 The SCN must fully describe the changes. 10.0-3 The following information must be included and detailed: 10.0-3.1 Block 1 10.0-3.1.0-1 Date. Enter the submittal date of the SCN. 10.0-3.2 Block 2 10.0-3.2.0-1 Procuring Activity Number. 10.0-3.3 Block 3 10.0-3.3.0-1 DODAAC. 10.0-3.4 Block 4 10.0-3.4.0-1 Originator name and address. 10.0-3.5 Block 5 10.0-3.5.0-1 SCN Type. Indicate by an "X" in the appropriate block if this is a proposed SCN. If the SCN is being submitted to the Government for final technical approval, prior to distribution according to the contract, both blocks must be left blank. The approved block will be marked by the Government upon approval/contractual implementation. 10.0-3.6 Block 6 10.0-3.6.0-1 CAGE Code. Enter the CAGE Code of the design activity for the specification identified in Block 7. DLA Cataloguing Handbook H4/H8 contains these codes. 10.0-3.7 Block 7 10.0-3.7.0-1 Specification Number. Enter the identification number, including revision letter, of the specification being changed. 10.0-3.8 Block 8 10.0-3.8.0-1 CAGE Code. Enter the CAGE code of the activity preparing the SCN. 10.0-3.9 Block 9 10.0-3.9.0-1 SCN Number. Enter the identification number for the SCN being submitted. SCN numbers are issued sequentially for each specification and revision, starting with the number "1".		

10.0-3.10 Block 10

10.0-3.10.0-1 System Designation. Enter the type, model, series (or the nomenclature number) for the system (or major item of equipment, if it is not a system) affected.

10.0-3.11 Block 11

10.0-3.11.0-1 Related ECP number. Enter the complete ECP number (including dash numbers and revisions) that identifies the related engineering change.

10.0-3.12 Block 12

10.0-3.12.0-1 Contract number. Enter the complete contract number(s) affected by this SCN, if applicable.

10.0-3.13 Block 13

10.0-3.13.0-1 Contractual authorization. There must be no entry in this block on a proposed SCN. For the approved SCN only, enter the number of the contract modification document used to contractually implement the change. If a unilateral change order is utilized for initial authorization, its number must be entered in this block.

10.0-3.14 Block 14

10.0-3.14.0-1 Configuration item nomenclature. Enter the nomenclature (name and number) of the CI affected by the change. Normally this will be different than block 10.

10.0-3.15 Block 15

10.0-3.15.0-1 Effectivity.

10.0-3.15.0-1.0-1 For hardware, enter the serial numbers of the items for which this SCN is effective. Usually this will include the applicable production line items plus items approved for a retrofit or modification program.

10.0-3.15.0-1.0-2 For CSCIS, enter the revision or version of the CSCI to which the change applies. If a new version is warranted by the incorporation of this ECP, the new version number must be entered here.

10.0-3.16 Block 16

10.0-3.16.0-1 Pages affected by this SCN. The entries in this section must provide information about the pages affected by the SCN being submitted. Enter a listing of all pages being changed by this SCN and indicate whether the pages are being superseded or added (by entering an "S" or an "A" in the column) or deleted (by printing the word "deleted" after the page numbers so affected). A separate line must be used for each category of page change. Once the SCN has been approved by the Government, enter the approval date (from Block 18) in this block.

10.0-3.17 Block 17

10.0-3.17.0-1 Summary of previously changed pages.

10.0-3.17.1 Block 17.a

10.0-3.17.1.0-1 SCN number. For all SCNS previously submitted, enter the identification number of each SCN starting with SCN number 1 at the top of the column.

10.0-3.17.2 Block 17.b

10.0-3.17.2.0-1 Related ECP number. Enter the identification number (including revision designator and dash numbers) of each ECP affected by each previously issued SCN against this specification revision.

10.0-3.17.3 Block 17.c

10.0-3.17.3.0-1 Pages. List the pages changed by each previously issued SCN against this specification. A separate line must be used for each category of page change.

10.0-3.17.4 Block 17.d

10.0-3.17.4.0-1 Date submitted. For a proposed SCN, enter the submittal date for each previously submitted SCN opposite the appropriate SCN number in Block 17. For the approved SCN, enter the submitted date for each previously submitted SCN that has been approved opposite the appropriate SCN number in Block 17.

10.0-3.17.5 Block 17.e

10.0-3.17.5.0-1 Type of change. Indicate whether the pages are being superseded or added (by entering an "S" or an "A" in the column).

10.0-3.17.6 Block 17.f

10.0-3.17.6.0-1 Approval date. For each approved SCN previously submitted, enter its approval date on the same line as the SCN number in Block 17.

10.0-3.18 Block 18

10.0-3.18.0-1 Government activity. The Government contracting officer, or a duly appointed representative, will affix an approval signature and the date in this block, and will mark an "X" in the approved box, to designate approval of the SCN. The signature denotes technical concurrence with the contents of the Form and attached change pages. When Block 18 has been signed and the approved box has been marked, the status of the SCN changes from a proposed SCN to an approved SCN.

4.8 DID CM-008 Configuration Status Accounting (CSA) Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Configuration Status Accounting (CSA) Report		2 Data Item Number CM-008
3 Description / Purpose 3.0-1 The CSA Report details the information required to effectively manage CIs and provide visibility of CM activities, including the status of deviations, waivers and engineering changes.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The CSA Report must conform to Mil-Std 973, section 5.5. 7.0-2 The CSA Report relates to all ECPs, RFDs, RFWs, SCNs, and NORs.		
8 Originator PMO ISSP CM		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 The CSA Report must be in the Contractor's format. 10.0-2 The CSA Report must provide as a minimum the identification of each CI and list all new, outstanding and historical ECPs, RFDs, RFWs, SCNs and NORs including their status against each CI. The report must include but not be limited to: 10.0-2.0-1 An ECP index listing the ECPs (number, revision, correction, date raised, title, type, class, status, and cross reference to Subcontractor raised ECP, if applicable) and the CI, part and documentation affected. 10.0-2.0-2 A Deviation Index listing the deviations (number, date raised, title, status, and cross reference to subcontractor raised Deviation, if applicable) and their effectivity. 10.0-2.0-3 A Waiver Index listing the waivers (number, date raised, title, part affected, status, and cross reference to subcontractor raised waivers, if applicable) and their effectivity. 10.0-2.0-4 A SCN index recording all SCNs against a specification. For each specification, the Contractor format index must contain; the spec number, rev, title, the SCN number, associated ECP, date of submission and approval and any other related ECPs/SCN information. 10.0-2.0-5 A NOR index listing the NORs (number, date raised, the document number, title and revision of the document affected, associated ECP, date revision authorised, date revision completed).		

4.9 DID CM-009 Configuration Audit Plan (CAP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Configuration Audit Plan (CAP)	2 Data Item Number CM-009	
3 Description / Purpose 3.0-1 The CAP describes the detailed procedural requirements for the conduct of the configuration audit. It is provided in accordance with the requirements of the CMP.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The CAP must conform to Mil-Std 973 section 5.6 7.0-2 The CAP is a subset of the CMP.		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The CAP must be in the Contractor's format. 10.0-2 The CAP must provide, as a minimum, an overview of the audit procedures followed for the particular audit and contain as a minimum the following items and reference material: 10.0-2.0-1 Type of audit (PCA or FCA); 10.0-2.0-2 Audit date, location and a list of attendees; 10.0-2.0-3 Identification of proposed hardware/software and documentation to be audited; 10.0-2.0-4 Identification of reference documents to be used in conducting the audit; 10.0-2.0-5 Audit procedures to be used; 10.0-2.0-6 Serial number of CI to be audited; 10.0-2.0-7 Identification of approved deviation(s) and approved or proposed waiver(s) applicable to the CI serial number to be audited; 10.0-2.0-8 Security clearance information, if required.		

4.10 DID CM-010 Configuration Audit Report (CAR)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Configuration Audit Report (CAR)	2 Data Item Number CM-010	
3 Description / Purpose 3.0-1 The CAR is a document that reports in details the results of the audit. It is provided in accordance with the requirements of the CMP.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The CAR must conform to Mil-Std 973 section 5.6. 7.0-2 The CAR integrates with the CAP, DID CM-009 . 7.0-3 The CAR must be in accordance with the CMP, DID CM-001 .		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The CAR must be in the Contractor's format. 10.0-2 The CAR must provide, as a minimum, the results of those audits, and a summary of any outstanding action required to rectify gaps found in the audited CI as a result of the audits. It must contain, but not be limited to, the following: 10.0-2.0-1 Identification of hardware/software and documentation audited; 10.0-2.0-2 Identification of reference documentation used during conduct of the audit; 10.0-2.0-3 Identification of the audit agenda; 10.0-2.0-4 A list of the personnel involved; 10.0-2.0-5 Action items identified, responsible individuals assigned to each action item and scheduled date of clearing each action item.		

4.11 DID DM-001 Technical Data Management Plan (TDMP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Technical Data Management Plan (TDMP)	2 Data Item Number DM-001	
3 Description / Purpose 3.0-1 The TDMP is a document that defines the management, organization, procedures, schedules and detailed plan to be used by the Contractor in meeting the requirements for the development and the delivery of technical data. It is provided in accordance with the requirements of the CMP.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The TDMP may be prepared in the Contractor's format, and must contain sufficient detail to fully address the information requirements. 10.0-2 The TDMP must describe the Contractor's plan to provide for the preparation, delivery and control of all Technical Data required to acquire, operate, manage and support the system/equipment. The Plan must clearly define the intended purpose of each data item and explain the interfaces and overlaps among the data items. The Plan must include but not be limited to the following: 10.0-2.0-1 A description of the system/equipment for which the TDMP is applicable. 10.0-2.0-2 A description of the management, organisation and responsibilities of the Contractor's Technical Data personnel and their relationship to other disciplines within the Contractor's organisation. 10.0-2.0-3 Identify each data item. 10.0-2.0-4 State the proposed digital format in which the data item is to be provided for Text, Graphics and Product Data. 10.0-2.0-5 State the media i.e., On-Line Access e.g., Contractor Integrated Technical Information System (CITIS), Physical media e.g., optical disk, magnetic tape or disk. 10.0-2.0-6 Provide a delivery schedule with relevant milestones for preparation, validation, translation (if required), and delivery of the data items. 10.0-2.0-7 Describe methods and procedures for controlling each data item. 10.0-2.0-8 Detail how the Contractor intends to identify intellectual property and proprietary issues. 10.0-2.0-9 Identify the methodology for the identification and integration of data items from the LSA process and other relevant studies. 10.0-2.0-10 Detail the Contractors methodology for ensuring that DND will be self sufficient in technical data during the system/equipment life cycle.		

5 FIGURES

5.1 Figure 1 - Major Subsystem EHS Impact Table

EHS Hazard Type

A- Ionizing Radiation

B- Electromagnetic Radiation

C- Noise

D- Vibration

E- Hazardous Gases

F- Hazardous Liquids

G- Hazardous Solids

H- Others

Life Cycle Phase

1- Engineering and Manufacture

2- Test and Evaluation

3- Production and Deployment

4- Maintenance and Operations

5- Demilitarization and Disposal

[illegible]

1. Major Sub-system - Enter the appropriate sub-system with which the identified hazard is associated. All sub-systems identified in the allocated baseline must be included as the Sub-systems.

2. **Significance** - This column shall provide the measurement of the hazard for validation of significance (e.g., for noise, indicate decibel levels).

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Left blank intentionally.

5.2 Figure 2 - Table of Hazardous Products

[illegible]

5.3 Figure 3 - Items Containing Mercury

Ser	Information Requested	Mercury Containing Item Details			
		Item 1	Item 2	Item 3	Item 4...
1	Equipment NSN (for equipment containing mercury)				
2	Equipment Description				
3	NSN and Defence Resource Management Information System (DRMIS) unique identifier of the item containing mercury (if it exists)				
4	Manufacturer of mercury-containing item				
5	Date of manufacture of the mercury-containing item				
6	Manufacturer part number of mercury-containing item				
7	National Supply Code for Manufacturers of items containing mercury: (NSCM)/Commercial and Government Entity (CAGE) Code				
8	Description of mercury-containing item;				
9	The form of mercury (egs liquid, vapour, amalgam, metal halide)				
10	Quantity of mercury (kg mass)				
11	Volume of mercury (L) and its concentration in ppm [provide either mass (Serial 11) or volume/concentration of mercury, but not both]				
12	The location of the mercury-containing item(s)				
13	Quantity of mercury containing item per reported equipment				
14	Total Quantity of mercury within the reported equipment (for kg mass and volume/concentration);				

5.4 Figure 4 - Environmental Effects Matrix

PROJECT Subsystem/Activity Enter each subsystem e.g. device/component, activity, condition (normal/abnormal), etc, as applicable	Valued Ecosystem Components (Add to/ delete from matrix below as necessary) Show potential effects with a "X"																
	Physical							Biological					Social				
	Atmosphere	Surface water	Ground water	Soils	Terrain	Vibration	Noise	Terrestrial animals	Terrestrial habitat	Aquatic animals	Aquatic habitat	Vegetation	Heritage/historical	Recreation/Aesthetic	People/health	Economy	Services

5.5 Figure 5 - Material Safety Data Sheets (MSDSs)

[illegible]

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5.6 Figure 6 - ECP Template

ENGINEERING CHANGE PROPOSAL (Page 1 of 6)					DATE (YYMMDD)		PROCURING ACTIVITY	
1. ORIGINATOR NAME AND ADDRESS					2. CLASS OF ECP			
					3. JUSTIFICATION		4. PRIORITY	
5. ECP DESIGNATION					6. BASELINE AFFECTED			
a. MODEL/TYPE		b. CAGE CODE		c. SYSTEM DESIGNATION		<input type="checkbox"/> FUNCTIONAL <input type="checkbox"/> ALLOCATED <input type="checkbox"/> PRODUCT		
d. ECP No.			e. TYPE		f. REV		7. OTHER SYS. CONFIG. ITEMS AFFECTED	
							<input type="checkbox"/> YES <input type="checkbox"/> NO	
8. SPECIFICATIONS AFFECTED - TEST PLANS AFFECTED					9. DRAWINGS AFFECTED			
	CAGE CODE	SPEC/DOC No.	REV	SCN	CAGE CODE	NUMBER	REV	NOR
a. SYSTEM								
b. ITEM								
c. TEST PLAN								
10. TITLE OF CHANGE					10. a. WEAPON SYSTEM CODE OR DESIGNATION			
11. CONTRACT No. AND LINE ITEM(S)					12. PROCURING CONTRACTING OFFICER			
13. CONFIGURATION ITEM NOMENCLATURE					TEL			
					14. IN PRODUCTION <input type="checkbox"/> YES <input type="checkbox"/> NO			
15. LOWEST ASSEMBLY AFFECTED								
NOMENCLATURE			PART No.		NSN			
16. DESCRIPTION OF CHANGE								
17. NEED FOR CHANGE								
18. PRODUCTION EFFECTIVITY BY SERIAL NUMBER					19. EFFECT ON PRODUCTION DELIVERY SCHEDULE			
20. RETROFIT								
a. RECOMMENDED ITEM EFFECTIVITY					b. SHIP/VEHICLE CLASS AFFECTED			
c. ESTIMATED KIT DELIVERY SCHEDULE					d. LOCATIONS OR SHIP/VEHICLE NUMBERS AFFECTED			
21. ESTIMATED COSTS/SAVINGS UNDER CONTRACT					22. ESTIMATED NET TOTAL COSTS/SAVINGS			
23. SUBMITTING ACTIVITY					23. b. TITLE			
a. AUTHORIZED SIGNATURE								
24. APPROVAL/DISAPPROVAL								
a. CLASS I <input type="checkbox"/> APPROVAL RECOMMENDED <input type="checkbox"/> DISAPPROVAL RECOMMENDED			b. CLASS II <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED			c. CLASS II <input type="checkbox"/> CONCUR IN CLASSIFICATION OF CHANGE <input type="checkbox"/> DO NOT CONCUR CLASSIFICATION OF CHANGE		
d. GOVERNMENT ACTIVITY			e. SIGNATURE			f. DATE (YYMMDD)		
g. APPROVAL <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		h. GOVERNMENT ACTIVITY		i. SIGNATURE			j. DATE (YYMMDD)	

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ENGINEERING CHANGE PROPOSAL (Page 2 of 6)

EFFECTS ON FUNCTIONAL/ALLOCATED CONFIGURATION IDENTIFICATION

25. OTHER SYSTEMS AFFECTED

26. OTHER CONTRACTORS/ACTIVITIES AFFECTED

27. CONFIGURATION ITEMS AFFECTED

28. EFFECTS ON PERFORMANCE ALLOCATIONS AND INTERFACES IN SYSTEM SPECIFICATION

29. EFFECTS ON EMPLOYMENT, INTEGRATED LOGISTICS SUPPORT, TRAINING, OPERATIONAL EFFECTIVENESS OR SOFTWARE

30. EFFECTS ON CONFIGURATION ITEM SPECIFICATIONS

31. DEVELOPMENTAL REQUIREMENTS AND STATUS

32. TRADE-OFFS AND ALTERNATIVE SOLUTIONS

33. DATE BY WHICH CONTRACTUAL AUTHORITY IS NEEDED

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EFFECTS ON PRODUCT CONFIGURATION IDENTIFICATION, LOGISTICS AND OPERATIONS

(X)	FACTOR	ENC L	PAR	(X)	FACTOR	ENCL	PAR
	34. EFFECT ON PRODUCT CONFIGURATION IDENTIFICATION OR CONTRACT				36. EFFECT ON OPERATIONAL EMPLOYMENT		
	a. PERFORMANCE				a. SAFETY		
	b. WEIGHT BALANCE STABILITY (<i>Aircraft</i>)				b. SURVIVABILITY		
	c. WEIGHT-MOMENT (<i>Other Equipment</i>)				c. RELIABILITY		
	d. CDRL, TECHNICAL DATA				d. MAINTAINABILITY		
	e. NOMENCLATURE				e. SERVICE LIFE		
					f. OPERATING PROCEDURES		
	35. EFFECT ON INTEGRATED LOGISTICS SUPPORT (ILS) ELEMENTS				g. ELECTROMAGNETIC INTERFERENCE		
	a. ILS PLANS				h. ACTIVATION SCHEDULE		
	b. MAINTENANCE CONCEPT, PLANS AND PROCEDURES				i. CRITICAL SINGLE POINT FAILURE ITEMS		
	c. LOGISTICS SUPPORT ANALYSIS				j. INTEROPERABILITY		
	d. INTERIM SUPPORT PROGRAMS						
	e. SPARES AND REPAIR PARTS				37. OTHER CONSIDERATIONS		
	f. TECH MANUALS/PROGRAMMING TAPES				a. INTERFACE		
	g. FACILITIES				b. OTHER AFFECTED EQUIPMENT/GFE/ GFI		
	h. SUPPORT EQUIPMENT				c. PHYSICAL CONSTRAINTS		
	i. OPERATOR TRAINING				d. COMPUTER PROGRAMS AND RESOURCES		
	j. OPERATOR TRAINING EQUIPMENT				e. REWORK OF OTHER EQUIPMENT		
	k. MAINTENANCE TRAINING				f. SYSTEM TEST PROCEDURES		
	l. MAINTENANCE TRAINING EQUIPMENT				g. WARRANTY/GUARANTEE		
	m. CONTRACT MAINTENANCE				h. PARTS CONTROL		
	n. PACKAGING, HANDLING, STORAGE, TRANSPORTABILITY				i. LIFE CYCLE COSTS		
38. ALTERNATE SOLUTIONS							
39. DEVELOPMENTAL STATUS							
40. RECOMMENDATIONS FOR RETROFIT							
41. WORK-HOURS PER UNIT TO INSTALL RETROFIT KITS				42. WORK-HOURS TO CONDUCT SYSTEM TESTS AFTER RETROFIT			
a. ORGANIZATION b. INTERMEDIATE c. DEPOT d. OTHER							
43. THIS CHANGE MUST BE ACCOMPLISHED <input type="checkbox"/> BEFORE <input type="checkbox"/> WITH <input type="checkbox"/> AFTER THE FOLLOWING CHANGES				44. IS CONTRACTOR HELD SERVICE ENGINEERING REQUIRED? <input type="checkbox"/> YES <input type="checkbox"/> NO		45. OUT OF SERVICE TIME	
46. EFFECT OF THIS ECP AND PREVIOUSLY APPROVED ECPs ON ITEM				47. DATE CONTRACTUAL AUTHORITY NEEDED FOR PRODUCTION RETROFIT _____			

ENGINEERING CHANGE PROPOSAL (Page 4 of 6)**48. ESTIMATED NET TOTAL COST IMPACT (Use parentheses for savings)**

FACTOR	COSTS/SAVINGS UNDER CONTRACT					OTHER COSTS/ SAVINGS TO THE GOVERNMENT
	NON- RECURRING	UNIT	QUANTITY	TOTAL (Recurring)	TOTAL	
	(1)	(2)	(3)	(4)	(5)	
a. PRODUCTION COSTS/SAVINGS						
CONFIGURATION ITEM/CSCI						
FACTORY TEST EQUIPMENT						
SPECIAL FACTORY TOOLING						
SCRAP						
ENGINEERING, ENG. DATA REVISION						
REVISION OF TEST PROCEDURES						
QUALIFICATION OF NEW ITEMS						
SUBTOTAL OF PROD. COSTS/SAVINGS						
b. RETROFIT COSTS						
ENGINEERING DATA REVISION						
PROTOTYPE TESTING						
KIT PROOF TESTING						
RETROFIT KITS FOR OPERATIONAL SYSTEMS						
SPECIAL TOOLING FOR RETROFIT						
CONTRACTOR FIELD SERVICE ENGINEERING						
GOVT PERSONNEL INSTALLATION						
TESTING AFTER RETROFIT						
MODIFICATION OF GFE						
QUALIFICATION OF GFE						
SUBTOTAL OF RETROFIT COSTS/SAVINGS						
c. INTEGRATED LOGISTICS SUPPORT COSTS/SAVINGS						
SPARES/REPAIR PARTS REWORK						
NEW SPARES AND REPAIR PARTS						
SUPPLY/PROVISIONING DATA						
SUPPORT EQUIPMENT						
RETROFIT KITS FOR SPARES						
OPERATOR TRAINING COURSES						
MAINTENANCE TRAINING COURSES						
REV. OF TECH MAN/PROGRAMMING TAPES						
NEW TECH MAN/PROGRAMMING TAPES						
TRAINING/TRAINERS						
INTERIM SUPPORT						
MAINTENANCE MANPOWER						
COMPUTER PROGRAMS/DOCUMENTATION						
SUBTOTAL OF ILS COSTS/SAVINGS						
d. OTHER COSTS/SAVINGS						
e. SUBTOTAL COSTS/SAVINGS						
SUBTOTAL UNDER CONTRACT						
f. COORDINATION OF CHANGES WITH OTHER CONTRACTORS						
g. COORDINATION CHANGES BY GOVERNMENT						
h. ESTIMATED NET TOTAL COSTS/SAVINGS						

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ENGINEERING CHANGE PROPOSAL (HARDWARE) (Page 5 of 6)

MILESTONE CHART

49. DATE AUTHORIZATION TO PROCEED
RECEIVED BY CONTRACTOR →



START OF DELIVERY



COMPLETE DELIVERY



PROGRESS

	No. MONTHS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
C O N F I G U R A T I O N I T E M	PRODUCTION																																				
	TECH MANUALS																																				
	RETROFIT																																				
	SPARES/REPAIR PARTS																																				
S U P P O R T E Q U I P M E N T	PRODUCTION																																				
	TECH MANUALS/PROG. TAPES																																				
	RETROFIT																																				
	REPAIR PARTS																																				
T R A I N I N G	OPERATOR																																				
	MAINTENANCE																																				
	No. OF MONTHS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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ENGINEERING CHANGE PROPOSAL (SOFTWARE) (Page 6 of 6)

MILESTONE CHART

50. DATE AUTHORIZATION TO PROCEED
RECEIVED BY CONTRACTOR → ▼



START OF DELIVERY



COMPLETE DELIVERY



PROGRESS

	No. MONTHS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
C O N F I G U R A T I O N I T E M	SOFTWARE ENGINEERING																																				
	SOFTWARE DOCUMENTATION																																				
	SOFTWARE REPLICATION																																				
	SOFTWARE DISTRIBUTION																																				
S U P P O R T E Q U I P M E N T	SOFTWARE ENGINEERING ENVIRONMENT UPGRADE																																				
	SOFTWARE TEST ENVIRONMENT UPGRADE																																				
T R A I N I N G	OPERATOR																																				
	MAINTENANCE																																				
	No. OF MONTHS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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5.7 Figure 7 Notice or Revision (NOR)

NOTICE OF REVISION (NOR) THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.		1. DATE (YYMMDD)	Form Approved OMB No. 0704-0188
<p>Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188) Washington, DC 20503.</p> <p>PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT / PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</p>		2. PROCURING ACTIVITY NUMBER	
		3. DODAAC	
4. ORIGINATOR	b. ADDRESS (Street, City, State, Zip Code)	5. CAGE CODE	6. NOR NO.
a. TYPED NAME (First, Middle Initial, Last)		7. CAGE CODE	8. DOCUMENT NO.
9. TITLE OF DOCUMENT	10. REVISION LETTER		11. ECP NO.
	a. CURRENT	b. NEW	
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES			Sheet of
13. DESCRIPTION OF REVISION			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	(1.) Existing document supplemented by this NOR may be used in manufacture.		
	(2.) Revised document must be received before manufacture may incorporate this change.		
	(3.) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT		c. TYPED NAME (First, Middle Initial, Last)	
d. TITLE	e. SIGNATURE	f. DATE SIGNED (YYMMDD)	

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5.8 Figure 8 Request for Deviation/Waiver

REQUEST FOR DEVIATION / WAIVER (RFD/RFW)				1. DATE (YYMMDD)		Form Approved OMB No. 0704-0188			
<small>Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</small> PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.						2. PROCURING ACTIVITY NUMBER			
						3. DODAAC			
4. ORIGINATOR		b. ADDRESS (Street, City, State, Zip Code)		5. (X one)					
a. TYPED NAME (First, Middle Initial, Last)				<input type="checkbox"/> DEVIATION <input type="checkbox"/> WAIVER 6. (X one) <input type="checkbox"/> MAJOR <input type="checkbox"/> MINOR <input type="checkbox"/> CRITICAL					
7. DESIGNATION FOR DEVIATION / WAIVER				8. BASELINE AFFECTED		9. OTHER SYSTEM/CONFIGURATION ITEMS AFFECTED			
a. MODEL/TYPE	b. CAGE CODE	c. SYS DESIG	d. DEV/WAIVER NO	<input type="checkbox"/> FUNCTIONAL <input type="checkbox"/> PRODUCT	<input type="checkbox"/> ALLOCATED	<input type="checkbox"/> YES <input type="checkbox"/> NO			
10. TITLE OF DEVIATION / WAIVER									
11. CONTRACT NO. AND LINE ITEM				12. PROCURING CONTRACTING OFFICER					
				a. NAME (First, Middle Initial, Last)					
				b. CODE				c. TELEPHONE NO	
13. CONFIGURATION ITEM NOMENCLATURE				14. CLASSIFICATION OF DEFECT					
				a. CD NO		b. DEFECT NO		c. DEFECT CLASSIFICATION	
						<input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> CRITICAL			
15. NAME OF LOWEST PART / ASSEMBLY AFFECTED				16. PART NO. OR TYPE DESIGNATION					
17. EFFECTIVITY				18. RECURRING DEVIATION / WAIVER					
				<input type="checkbox"/> YES <input type="checkbox"/> NO					
19. EFFECT ON COST / PRICE				20. EFFECT ON DELIVERY SCHEDULE					
21. EFFECT ON INTEGRATED LOGISTICS SUPPORT, INTERFACE OR SOFTWARE									
22. DESCRIPTION OF DEVIATION / WAIVER									
23. NEED FOR DEVIATION / WAIVER									
24. CORRECTIVE ACTION TAKEN									
25. SUBMITTING ACTIVITY									
a. TYPED NAME (First, Middle Initial, Last)		b. TITLE		c. SIGNATURE					
26. APPROVAL / DISAPPROVAL		a. RECOMMEND		APPROVAL		DISAPPROVAL			
b. APPROVAL		c. GOVERNMENT ACTIVITY							
<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED									
d. TYPED NAME (First, Middle Initial, Last)		e. SIGNATURE				f. DATE SIGNED (YYMMDD)			
g. APPROVAL		h. GOVERNMENT ACTIVITY							
<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED									
i. TYPED NAME (First, Middle Initial, Last)		j. SIGNATURE				k. DATE SIGNED (YYMMDD)			

5.9 Figure 9 Specification Change Notice (SCN)

SPECIFICATION CHANGE NOTICE (SCN)				1. DATE (YYMMDD)		Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT. PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.						2. PROCURING ACTIVITY NO.	
						3. DODAAC	
4. ORIGINATOR				5. SCN TYPE			
a. TYPED NAME (First, Middle Initial, Last)				<input type="checkbox"/> PROPOSED		<input type="checkbox"/> APPROVED	
b. ADDRESS (Street, City, State, Zip Code)				6. CAGE CODE		7. SPEC NO.	
				8. CAGE CODE		9. SCN NO.	
10. SYSTEM DESIGNATION		11. RELATED ECP NO.		12. CONTRACT NO.		13. CONTRACTUAL AUTHORIZATION	
14. CONFIGURATION ITEM NOMENCLATURE				15. EFFECTIVITY			
This notice informs recipients that the specification identified by the number (and revision letter) shown in Item 7 has been changed. The pages changed by this SCN are those furnished herewith and carry the approval date of the related ECP listed in Item 11. The pages of the page numbers and dates listed in Items 16 and 17, combined with non-listed pages of the original issue of the revision shown in Item 7, constitute the current approved version of this specification.							
16. PAGES AFFECTED BY THIS SCN				TYPE OF CHANGE*		APPROVAL DATE (YYMMDD)	
PAGE(S) a				b		c	
17. SUMMARY OF PREVIOUSLY CHANGED PAGES				DATE SUBMITTED (YYMMDD)		APPROVAL DATE (YYMMDD)	
SCN NO. a	RELATED ECP NO. b	PAGE(S) c	d	e	f		
* "S" indicates supersedes earlier page "A" indicates added page "D" indicates deletion							
18. a. GOVERNMENT ACTIVITY			c. SIGNATURE			d. DATE SIGNED (YYMMDD)	
b. TYPED NAME (First, Middle Initial, Last)							

ANNEX CD TO VOLUME 2

TERMS AND CONDITIONS OF LOAN AGREEMENTS

TO CONTRACTORS

**THE TERMS AND CONDITIONS OF LOAN AGREEMENTS IS HEREBY
INCORPORATED IN THIS ANNEX CD BY REFERENCE AND
HAS THE SAME FORCE AND EFFECT AS IF IT WERE ATTACHED HERETO.**

**THE COMPLETE DOCUMENT IS ATTACHED IN ITS ENTIRETY AS
ANNEX CD TO THE OPTIMISED WEAPON SYSTEM SUPPORT CONTRACT.**

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ANNEX CE TO VOLUME 2

REFERENCES, ACRONYMS AND GLOSSARY

**THE DICTIONARY OF REFERENCES, ACRONYMS AND GLOSSARY IS HEREBY
INCORPORATED IN THIS ANNEX CE BY REFERENCE AND
HAS THE SAME FORCE AND EFFECT AS IF IT WERE ATTACHED HERETO.**

**THE COMPLETE DOCUMENT IS ATTACHED IN ITS ENTIRETY AS
ANNEX CE TO THE OPTIMISED WEAPON SYSTEM SUPPORT CONTRACT.**

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ANNEX CF TO VOLUME 2

CONTRACT DELIVERABLES LIST

FOR THE

ACQUISITION OF

THE

INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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1 Table 1 Contract Line Item Numbers for P (Sat) ISS-S Batch

Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
100 Series	Main Equipment					
101	ISS-ES	Y	Each	32	25 CFSD	44
102	Universal Canalphone Set	Y	Each	32	25 CFSD	44
103	ISS Rechargeable Battery Set	Y	Each	32	25 CFSD	44
104	ISS Non-Rechargeable Battery Set	Y	Each	64	25 CFSD	44
105	MLCS Platform Small	Y	Each	22	25 CFSD	44
106	MLCS Platform Medium	Y	Each	10	25 CFSD	44
107	MLCS ISS Pouch Set	Y	Each	32	25 CFSD	44
200 Series	Accessory Items					
201	DAGR Interface Cable	Y	Each	5	25 CFSD	44
202	CORAL-CR-C Interface Cable	Y	Each	5	25 CFSD	44
203	LCSS Radio Interface Cable Set	Y	Each	5	25 CFSD	44
400 Series	Support Equipment					
401	SEP-Suite	Y	Each	3	PMO ISSP	44
402	BMS Software for CF Laptop w/licence	Y	Each	3	PMO ISSP	44
403	Battery Charger Set	Y	Each	32	25 CFSD	44

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2 Table 2 Contract Line Item Numbers for Phase B Production

2.1 Table 2-1 Training Deliverables

Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
500 Series	Training					
501	Pilot ICT Operator Instructors Course - English		Each	1	Contractor's Facility	110
502	Pilot ICT Operator Instructors Course -French		Each	1	Contractor's Facility	150
503	Pilot ICT System Manager Instructors Course - English		Each	1	Contractor's Facility	110
504	Pilot ICT System Manager Instructors Course - French		Each	1	Contractor's Facility	150
505	Pilot ICT Maintainer' Instructors Course - English		Each	1	Contractor's Facility	110
506	Pilot ICT Maintainer' Instructors Course - French		Each	1	Contractor's Facility	150
507	ICT Operator Course – Language of Instruction to be determined once TF designated.		Each	2	DND TBD	TBD
508	ICT System Managers Course – Language of Instruction to be determined once TF designated.		Each	2	DND TBD	TBD
509	ICT Maintainers Course - Language of Instruction to be determined once TF designated.		Each	2	DND TBD	TBD

2.2 Table 2-2 Initial Batches

2.2.1 Table 2-2-1 Initial Training Batch

Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
110 Series	Main Equipment					
111	ISS-ES	Y	Each	168	25 CFSD	154

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Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
112	Universal Canalphone Set	Y	Each	168	25 CFSD	
113	ISS Rechargeable Battery Set	Y	Each	168	25 CFSD	
114	ISS Non-Rechargeable Battery Set	Y	Each	336	25 CFSD	
115	MLCS Platform Small	Y	Each	153	25 CFSD	
116	MLCS Platform Medium	Y	Each	66	25 CFSD	
117	MLCS ISS Pouch Set	Y	Each	168	25 CFSD	
210 Series	Accessory Items					
211	DAGR Interface Cable	Y	Each	25	25 CFSD	
212	CORAL-CR-C Interface Cable	Y	Each	2	25 CFSD	
213	LCSS Radio Interface Cable Set	Y	Each	25	25 CFSD	
310 Series	Technical Documentation					
311	User Manual - Bilingual	Y	Each	168	25 CFSD	
312	Technical Manual(s) - Bilingual	Y	Each	12	25 CFSD	
313	Quick Reference Guide - Bilingual	Y	Each	168	25 CFSD	
410 Series	Support Equipment					
411	SEP-Suite	Y	Each	10	PMO ISSP	
412	BMS Software for CF Laptop w/licence	Y	Each	28	PMO ISSP	
413	Battery Charger Set	Y	Each	168	25 CFSD	

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2.2.2 Table 2-2-2 Operational Stock Batch

Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
120 Series	Main Equipment					176
121	ISS-ES	Y	Each	176	25 CFSD	
122	Universal Canalphone Set	Y	Each	176	25 CFSD	
123	ISS Rechargeable Battery Set	Y	Each	352	25 CFSD	
124	ISS Non-Rechargeable Battery Set	Y	Each	704	25 CFSD	
125	MLCS Platform Small	Y	Each	160	25 CFSD	
126	MLCS Platform Medium	Y	Each	68	25 CFSD	
127	MLCS ISS Pouch Set	Y	Each	176	25 CFSD	
220 Series	Accessory Items					
221	DAGR Interface Cable	Y	Each	25	25 CFSD	
222	CORAL-CR-C Interface Cable	Y	Each	2	25 CFSD	
223	LCSS Radio Interface Cable Set	Y	Each	25	25 CFSD	
320 Series	Technical Documentation					
321	User Manual - Bilingual	Y	Each	176	25 CFSD	
322	Technical Manual(s) - Bilingual	Y	Each	12	25 CFSD	
323	Quick Reference Guide - Bilingual	Y	Each	176	25 CFSD	
420 Series	Support Equipment					
421	SEP-Suite	Y	Each	10	PMO ISSP	
422	BMS Software for CF Laptop w/licence	Y	Each	28	PMO ISSP	
423	Battery Charger Set	Y	Each	176	25 CFSD	

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2.3 Table 2-3 Task Force Batches

2.3.1 Table 2-3-1 Task Force Batch Composition

Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
130 Series	Main Equipment					
131	ISS-ES	Y	Each	628	25 CFSD	
132	Universal Canalphone Set	Y	Each	628	25 CFSD	
133	ISS Rechargeable Battery Set	Y	Each	0	25 CFSD	
134	ISS Non-Rechargeable Battery Set	Y	Each	2512	25 CFSD	
135	MLCS Platform Small	Y	Each	572	25 CFSD	
136	MLCS Platform Medium	Y	Each	244	25 CFSD	
137	MLCS ISS Pouch Set	Y	Each	628	25 CFSD	
230 Series	Accessory Items					
231	DAGR Interface Cable	Y	Each	130	25 CFSD	
232	CORAL-CR-C Interface Cable	Y	Each	40	25 CFSD	
233	LCSS Radio Interface Cable Set	Y	Each	130	25 CFSD	
330 Series	Technical Documentation					
331	User Manuals - Bilingual	Y	Each	628	25 CFSD	
332	Technical Manuals - Bilingual	Y	Each	20	25 CFSD	
333	Quick Reference Guide - Bilingual	Y	Each	628	25 CFSD	
430 Series	Support Equipment					
431	SEP-Suite	Y	Each	9	PMO ISSP	

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432	BMS Software for CF Laptop w/License	Y	Each	20	PMO ISSP	
433	Battery Charger Set	Y	Each	0	25 CFSD	

2.3.2 Table 2-3-2 Task Force Batch Deliveries

Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
600 Series	Task Force Batches					
601	Task Force 1	Y	As per Table 2-3-1	1 TF Batch	25 CFSD	176
602	Task Force 2	Y	As per Table 2-3-1	1 TF Batch	25 CFSD	220

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3 Table 3 Contract Line Item Numbers for Options

Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
610 Series	Additional Task Force Batches			Up To		
610	Complete Task Force (As per Table 2-3-1)	Y	TF	8	TBC	TBC
611	ISS Rechargeable Battery Set	Y	Each	6280	25 CFSD	
612	ISS Non-Rechargeable Battery Set	Y	Each	20096	25 CFSD	
440 Series	Support Equipment					
441	BMS Software for CF Laptop w/License	Y	Each	108	PMO ISSP	
442	Battery Charger Set	Y	Each	6280	25 CFSD	
510 Series	Additional Training					TBC
511	ICT Operator Course - English		Each	6	TBD	
512	ICT Operator Course - French		Each	2	TBD	
513	ICT System Managers Course - English		Each	6	TBD	
514	ICT System Managers Course - French		Each	2	TBD	
515	ICT Maintainers Course - English		Each	6	TBD	
516	ICT Maintainers Course - French		Each	2	TBD	

Note 1: Destination Shipping Address for 25 CFSD is: 25 Canadian Forces Supply Depot, Montreal, 6363 Rue Notre Dame East, Montreal, QC, H1N 3R9. For Delivery by Appointment only call 514-252-2777 Extension 2363.

Destination Shipping Address for PMO ISSP: Attention PMO ISSP/DSSPM 10, 101 Colonel By Drive, Ottawa, Ontario, K1A 0K2. For Delivery by Appointment only call 819-997-0481

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Volume 3Draft003

**REQUEST FOR PROPOSAL
FOR
INTEGRATED SOLDIER SYSTEM PROJECT (ISSP)
IMPLEMENTATION**

VOLUME 3

**RESULTING CONTRACT
FOR THE
INTEGRATED SOLDIER SYSTEM
OPTIMIZED WEAPON SYSTEM SUPPORT (OWSS)**

“THIS DOCUMENT CONTAINS A SECURITY REQUIREMENT”
(See article 3.0 to volume 3)

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PART 8 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract for the Integrated Soldier System Optimized Weapon System Support (ISS-OWSS), resulting from the bid solicitation.

1. Requirement

1.1. Statement of work

1.1.1. The Contractor must supply to the Department of National Defence, Optimized Weapon System Support (OWSS) for the Canadian Integrated Soldier System (ISS) in accordance with the terms and conditions of the Contract. The OWSS Contract (ISS-OWSS) has two main components namely, ISS In-Service Support and ISS Improvement Activities.

1.1.2. With the ISS In-Service Support, the Contractor must provide: Program Management, Technical Investigations and Engineering Support, Reconstitution, In Plant Repair, Configuration Management, Technical Data Management, management of a Electronic Information Environment, training, storage of spare ISS systems and spares provisioning.

1.1.3. With the ISS Improvement Activities, the Contractor must provide: Engineering Services for DND initiated Improvement Activities consisting of incremental design and implementation of improvements to the initial ISS configuration, on an if, as, and when requested basis.

1.1.4. Without limiting any of its other obligations under this Contract, the Contractor must:

- a. Perform the Work in accordance with Module C of the contract.
- b. Provide the Industrial and Regional Benefits in accordance with the commitments set out in Module B of the contract.

1.1.5. The Contractor agrees to accept and be bound by Canada's interpretation of the meaning of the specifications.

1.2. Work Authorization (WA)

1.2.1. WA Instruments

This Contract contains the requirement for the Department of National Defence (DND) to authorize the Contractor to perform work on an if, as, and when requested basis using the terms and conditions of the contract. DND will issue different types of work authorizations such as Selection Notice and Priority Summary (SNAPS), Repair Material Request (RMR), DND626 Task Authorization and Spare Parts Order (SPO) to authorize the work to be performed.

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1.2.2. Approval limitation of WAs:

1.2.2.1. SNAPS & RMR Limit:

DND has full authority to assign Repair work (SNAPS & RMR) to the Contractor. The approval of work by DND will be in accordance with the relevant section of A-LM-184-001/JS-001 Special instructions for Repair and Overhaul Contractors.

1.2.2.2. Spare Parts Orders (SPO) Limit:

DND is not authorized to issue SPO. PWGSC shall approve all SPOs.

1.2.2.3. Task Authorization Limit:

DND may authorize individual Task Authorization up to a limit of \$125,000.00 CAN, Goods and Services Tax or Harmonized Sales Tax included, inclusive of any revisions. Any task authorization to be issued in excess of that limit must be authorized by the Contracting Authority before issuance. Furthermore, the Contracting Authority shall approve any Task Authorizations where the cost estimate for material is in excess of \$25,000.00 CAN Goods and Services Tax or Harmonized Sales Tax included, inclusive of any revisions.

1.2.3. Task Authorization & SPO authorization process:

The process to be followed in the issuance of Task Authorization & SPO is as follows:

- i. The Technical Authority prepares a Statement of Work (SOW) describing the work;
- ii. The DND Requisitioning Authority verifies that the work required is within the scope of the Contract;
- iii. The DND Requisitioning Authority submits the SOW to the Contractor and requests a Task Proposal;
- iv. The Contractor must, within fifteen (15) working days upon receipt of the proposed work, provide a proposal and/or notify the DND Requisitioning Authority of the status of the proposal for the proposed work. Should the fifteen (15) working days period not be sufficient the Contractor must submit the proposal within a time period that is mutually acceptable to DND Procurement Authority and the Contractor.
- v. The Contractor reviews, or prepares and submits in writing a proposed SOW, as may be required, which defines the scope of the work, starting and completion dates, phased deliveries of work packages and deliverables and the level of effort (LOE) to complete the work, including details of the labour categories to the DND Requisitioning Authority, using the financial tools available in the Contract. Furthermore the Contractor must, when applicable, provide the impact of that

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- work on the entire project in term of scope, schedule, costs and IRB Commitments. The Contractor will not be paid for providing the quotation or for providing other information required to prepare and issue the WA;
- vi. The DND Requisitioning Authority reviews the LOE quote, negotiate with the Contractor and insert in the WA form the appropriate "Price and terms of payment" as per contract articles 6.1.3 and 6.2.2.
 - vii. The DND Requisitioning Authority reviews the LOE quote with the Technical Authority and seeks approval to proceed;
 - viii. If the LOE quote is within the DND work approval ceiling, the DND Requisitioning Authority signs the WA form and forward copies to the Contractor and the PWGSC Contracting officer;
 - ix. If the quote exceeds DND Requisitioning Authority 's work approval ceiling, the WA form will be passed to the PWGSC Contracting officer for review and approval/signature prior to DND releasing it to the Contractor;
 - x. Amendments to the WA form require completion of a WA amendment form. The DND Requisitioning Authority approves WA where the amended value is within the threshold established in the Contract article 1.2.2. Any amendment that exceeds the threshold must be passed to the PWGSC Contracting officer for review and approval/signature before the DND Requisitioning Authority releases it to the Contractor.
 - xi. The Contractor must not begin work before receiving the approved WA form.

1.2.4. Task Authorization - Department of National Defence

The administration of the Task Authorization process will be carried out by the Requisitioning Authority. This process includes monitoring, controlling and reporting on expenditures of the contract with task authorizations to the Contracting Authority.

1.3. Type of Services description

The requirement includes but is not limited to the following type of Services:

1.3.1. In Plant Repair

1.3.1.1. The Contractor shall repair only those items for which he has received authorization. The Contractor shall also conform to the direction contained in A-LM-184-001/JS-001 as applicable and such other Supply procedures as may be advised from time to time in the demanding, handling, packaging, shipping and recording, etc of the DND equipment and stores in his possession. Repair priorities will be maintained as per information provided in the Selection Notice and Priority Summary (SNAPS, to be issued after Contract award).

1.3.1.2. In Plant Repair covers the isolation and correction of those specific defects that degrade the performance of a Hardware causing it to function below the required Canadian Force standard or specification. The correction(s) may consist of: the restoration or Replacement of parts or components of materiel as necessitated by the wear and tear, damage, failure of parts or the like in order to maintain the specific Hardware in efficient operating condition and; the incorporation of approved Modifications. It may involve the activities of inspection, testing, servicing, calibration, and classification as to serviceability, repair and rebuilding.

1.3.1.3. Definitions

"Hardware" means all the equipment, materials, matters and things to be provided, maintained, and supported, as applicable, by the Contractor under the Contract (including cables and other ancillary items). The term "Hardware" includes Firmware, if any, but does not include software or services. Unless the context requires otherwise, the term "Hardware" includes any Leased Hardware. Also, unless the context requires otherwise, each time the term "Hardware" is used, it will be read as also applying to each ISS Suite;

"Firmware" means any computer programs stored in integrated circuits, read-only memory, or other similar devices within the Hardware;

"Modifications" means the following:

- i. Modifications of the hardware, which is specifically initiated by the Contractor or incorporation of optional contractor's service bulletins, to which DND agrees.
- ii. "Involuntary" modifications, although they may require DND's knowledge and approval, are not considered "Engineering Change". Rather they shall be coded as a repair. Examples:
 - (1) replacing a part which is no longer produced, with the Contractor's new substitute part; or
 - (2) incorporation of compulsory service bulletins; or
 - (3) updating an early configuration to the Contractor's current baseline standard.

"Replacement"/"replacing" mean the replacement of parts or components of materiel by new identical parts or components of materiel (identical products) or, by a substitution or alternative, or by new products that are an extension of an existing product line. For more information, read the Contract article 24. The words "Replacement"/"replacing" are in the context of parts or components of materiel coming for repair that are irreparable and require to be replaced, and not in the context of a systematic replacement of parts or components of materiel in good operating condition.

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1.3.1.4. Repair Material Request (RMR)

Repairables that are received and not specifically identified in the Selection Notice and Priority Summary shall be repaired under the contract. The Contractor shall not begin servicing any item under this category until he has submitted an estimate for the repair work and received authorization from the Requisitioning Authority to proceed. The Contractor is to advise the Requisitioning Authority by written message of this occurrence and then hold the materiel pending disposition instructions. The message to the Requisitioning Authority should contain the NSN, the cost of repairs, the replacement cost and any other pertinent information.

1.3.1.5. Replacement Parts

It is the responsibility of the Contractor to supply all parts and components necessary to satisfy the services required by Canada. Replacement parts and subassemblies provided by the Contractor must be of new or like-new quality and equivalent in function to original equipment parts. Replaced parts shall become the property of the Contractor with the exception of any media or electronic component that contains Canada's confidential information. This information is to be erased in conjunction with, and with the permission of Canada.

1.3.2. Software Maintenance

The Contractor must provide, on an if, as, and when requested basis by Canada using a Task Authorization, Software Maintenance which covers the provision of Software Maintenance Release, which is specifically initiated by the Contractor, to which DND agrees. "Maintenance Releases" means all available enhancements, extensions, improvements, upgrades, updates, releases, versions, renames, rewrites, cross-grades, components and back grades or other modifications to the Licensed Software developed or published by the Contractor or its licensor on their own initiative.

1.3.3. Provisioning of spares

The Contractor must provide, on an if, as, and when requested basis by Canada using a Spare Parts Orders (SPO), all parts and components ordered by Canada at a delivery point specified in the SPO.

1.3.4. ISS Improvement Activities:

1.3.4.1. The Contractor must provide, on an if, as, and when requested basis by Canada using a Task Authorization, design Modifications analysis and Engineering Change Proposal (ECP) to equipment or system which DND specifically request.

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1.3.4.2. The Contractor must perform, on an if, as, and when requested basis by Canada modifications of the equipment or system which DND specifically requests.

1.3.4.3. The improvement activities will allow to adapt to changes to the operational environment and deployment and for improvement and refinement based on user's lessons learned in operation.

1.4. Optional Goods and/or Services:

The Contractor grants to Canada the irrevocable option, upon the terms and conditions of this Contract, to purchase spares at the price set out in the "Spares catalogue" (SOW para. 4.2.2). This option may be exercised at any time during the Contract Period, as many times as Canada chooses. This option may only be exercised by the Contracting Authority through contract amendments.

2. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<http://sacc.pwgsc.gc.ca/sacc/index-e.jsp>) issued by Public Works and Government Services Canada.

2.1. General Conditions

2.1.1 2030 2011-05-16, General Conditions - Higher Complexity - Goods, apply to and form part of the Contract;

2.1.2. Warranty - Contractor responsible for all costs

Section 22 entitled Warranty of general conditions 2030 is amended by deleting subsections 3 and 4 in its entirety and replacing it with the following:

"3. The Work or any part of the Work found to be defective or non-conforming will be returned to the Contractor's plant for replacement, repair or making good. However, when in the opinion of Canada it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these Costs.

4. The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant pursuant to subsection 3. The Contractor must also pay the transportation cost associated with forwarding the replacement or

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returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location directed by Canada.

All other provisions of the warranty section remain in effect.”

2.2. Supplemental General Conditions

2.2.1. 4002:

2.2.1.1. 4002 2010-08-16, Software Development or Modification Services, apply to and form part of the Contract.

2.2.1.2. Subsection 8 3 of 4002, Software Development or Modification Services, is amended as follows:

DELETE "thirty (30)"
INSERT "ninety (90)"

DELETE "Canada, at its option and expense, either:
(a) deliver the source code for that software to Canada; or"
INSERT "Canada, at its expense:"

2.2.2. 4003:

2.2.2.1. 4003 2010-08-16, Licensed Software, apply to and form part of the Contract.

2.2.2.2. Section 12 of 4003, Licensed Software, is amended as follows:

DELETE in its entirety: 12 3 (b);

2.2.2.3. Sections 14 and 15 of 4003, Licensed Software, are amended as follows:

DELETE “ninety (90) days”;
INSERT “one (1) year”;

2.2.3. 4006 2010-08-16, Contractor to Own Intellectual Property Rights in Foreground Information, apply to and form part of the Contract.

3. Security Requirement for Canadian supplier

3.1. The Contractor must, at all times during the performance of the Contract, hold a valid Facility Security Clearance at the level of **SECRET**, with approved Document

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Safeguarding at the **SECRET** level, issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC) as well as Communications-Electronic Security (COMSEC) account at the level of **SECRET**, issued by Information Technology Services Branch (ITSB), PWGSC.

3.2. The Contractor personnel requiring access to **PROTECTED/CLASSIFIED (NON-RESTRICTED)** information, assets or sensitive work site(s) must each hold a valid personnel security screening at the level of **SECRET**, granted or approved by the CISD, PWGSC. Until the security screening of the Contractor personnel required by this Contract has been completed satisfactorily by the CISD, PWGSC, the Contractor personnel **MAY NOT HAVE ACCESS** to **PROTECTED/CLASSIFIED** information or assets, and **MAY NOT ENTER** sites where such information or assets are kept, without an escort.

3.3. The Contractor personnel requiring access to **PROTECTED/CLASSIFIED (RESTRICTED)** information, assets or sensitive work site(s) **must be a citizen of Canada or the United States and EACH** hold a valid personnel security screening at the level of **SECRET**, granted or approved by the CISD, PWGSC. Until the security screening of the Contractor personnel required by this Contract has been completed satisfactorily by the CISD, PWGSC, the Contractor personnel **MAY NOT HAVE ACCESS** to **PROTECTED/CLASSIFIED** information or assets, and **MAY NOT ENTER** sites where such information or assets are kept, without an escort.

3.4. The Contractor personnel requiring access to **NATO UNCLASSIFIED** information or assets do not require to hold a personnel security clearance; however, the Contractor must ensure that the NATO Unclassified information is not releasable to third parties and that the "need to know" principle is applied to personnel accessing this information.

3.5. The Contractor personnel requiring access to **FOREIGN PROTECTED/CLASSIFIED** information, assets or sensitive work site(s) must **EACH** hold a valid personnel security screening at the level of **SECRET**, granted or approved by the CISD, PWGSC. Until the security screening of the Contractor personnel required by this Contract has been completed satisfactorily by the CISD, PWGSC, the Contractor personnel **MAY NOT HAVE ACCESS** to **FOREING PROTECTED/CLASSIFIED** information or assets, and **MAY NOT ENTER** sites where such information or assets are kept, without an escort.

3.6. The Contractor personnel requiring access to **COMSEC** information/assets **must be a Canadian citizen**, hold a valid security clearance commensurate with the information/assets that will be accessed, have a need-to-know and have undergone a **COMSEC** briefing and signed a **COMSEC** Briefing certificate. Access by foreign nationals or resident aliens must be approved by the Head IT Security Client Services at CSEC on a case-by-case basis.

3.7. Processing of **PROTECTED/CLASSIFIED** information electronically at the Contractor site is **NOT** permitted under this Contract.

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3.8. Subcontracts which contain security requirements are **NOT** to be awarded without the prior written permission of CISD/PWGSC.

3.9. The Contractor must comply with the provisions of the:

- (a) Security Requirements Check List and security guide (if applicable), attached at Annex AC;
- (b) *Industrial Security Manual* (Latest Edition).

NOTE: Keying material and associated devices bearing (or intended to bear) the caveat, "CRYPTO", are subject to special safeguards at all times, whether: in bulk storage; in custody at user locations; in current use; or awaiting destruction. Keying Material must be stored in a locked, approved security container, in an area protected by security guards or by an intrusion- detection system when left unattended by COMSEC account personnel or authorized users.

4. Term of Contract

4.1. Period of the Contract

4.1.1. The period of the Contract is from the date of the Contract appearing on page 1 of this Contract to Contract Starting Date, plus 5 years. The Contract Starting Date is ____ (Date) ____ (*NOTE: Canada to insert the Contract Starting Date.*). The Contract Starting Date is the same as the date of the ISS-A contract amendment (Contract number W8476-112965/001/RA) exercising the option to proceed with the ISS-A Contract Phase B. The services under the Contract will not be provided before the Contract Starting Date. In the Contract, a "year" is then a period from Contract Starting Date Anniversary to next Contract Starting Date Anniversary minus 1 day.

4.1.2. Reserved

4.2. Option to Extend the Contract

4.2.1. The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to three (3) additional 2 year periods, one period at a time, under the same conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

4.2.2. Canada may exercise this option at any time by sending a written notice to the Contractor at least 15 calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

4.3. Working Days:

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A working day is a day when work is normally done as distinguished from Saturdays, Sundays and legal holidays in Canada. The working day normal business hours are 7.5 hrs a day, exclusive of meal breaks, occurring between 0700 and 1800 hrs from Monday to Friday.

4.4. Urgent Requirements - Accelerated Delivery

In the event of an urgent requirement, the Contractor will be contacted directly by the PWGSC CA or the DND TA or the DND RA to request accelerated delivery. The Contractor agrees to make every effort to accelerate the delivery for the Work required on an urgent basis at no additional cost to Canada.

5. Authorities

5.1. Contracting Authority

The Contracting Authority for the Contract is:

Mr. Marc-André Hebert
Supply Team Leader
Public Works and Government Services Canada
Acquisitions Branch
Land Projects & Communication System Support Division
8C2 Place du Portage, Phase III
11 Laurier Street
Gatineau, Québec
K1A 0S5

Telephone: (819) 956-0194
Facsimile: (819) 956-0636
E-mail address: marc-andre.hebert@pwgsc.gc.ca

The Contracting Authority (CA) is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

5.2. Requisitioning Authority or Procurement Authority

The Requisitioning Authority, also called Procurement Authority, for the Contract is:

“

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”

The Requisitioning Authority (RA) is responsible for the financial and administrative control of the DND project management for the contract. The terms PA and RA are interchangeable.

5.3. Project Manager and Technical Authority

The Project Manager and Technical Authority for the Contract is:

“

“

The Project Manager is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Manager; however, the Project Manager has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

5.4. Quality Assurance Authority

The Quality Assurance Authority for the Contract is:

“

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”

The Quality Assurance Authority is responsible for quality control of all work received under this Contract.

5.5. Industrial and Regional Benefits (IRB) Authority

The Industrial and Regional Benefits (IRB) Authority for the Contract is:

“

”

The IRB Authority is the person designated by the Minister of Industry to act on the Minister's behalf. The IRB Authority is responsible for evaluating, monitoring and accepting IRBs, and for assessing the Contractor's IRB performance under this Contract.

5.6. Contractor's Representative(s)

The Contractor has appointed Mr./Mrs (Name, Phone & Fax numbers, Internet address)
(NOTE: Bidders to insert as many representatives as required such as Project Manager, Contract Manager, Systems Engineering Manager, ILS Manager, Financial Manager, Etc...) as the only point of contact(s) for all enquiries or issues raised by the Consignees or the Contracting Authority during the execution of the work.

6. Payment

6.1. Basis of Payment

6.1.1. Basis of Payment - Firm Price, Firm Unit Price(s) or Firm Lot Price(s)

In consideration of the Contractor satisfactorily completing its obligations under the Contract, the Contractor will be paid a Firm Price in accordance with the Basis of Payment in Annex AB, for all items identified with the Basis of Payment (BP) code “FP” (See Basis of Payment in

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Annex AB, column entitled "BP Code") for a cost of \$_____ (*NOTE: Canada to insert the amount at contract award*). Customs duties are excluded and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

For the firm price portion of the Work only, Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.1.2. Basis of Payment - Limitation of Expenditure

The Contractor will be reimbursed for the costs reasonably and properly incurred in the performance of the Work, as determined in accordance with the Basis of Payment in Annex AB for all items identified with the Basis of Payment (BP) code LE (See Basis of Payment in Annex AB, column entitled "BP Code") to a limitation of expenditure of \$_____ (*NOTE: Canada to insert the amount at contract award*). Customs duties are excluded and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

6.1.3. Basis of Payment for Task Authorizations and SPOs

The Contractor may submit a "**Firm Price**", a "**Ceiling Price**" or a "**Limitation of Expenditure**" quote to the DND Requisitioning Authority. The Contractor shall be paid in accordance with the Annex AB Basis of payment of this contract. For each of the above cases, the following clauses must be completed and added to the work authorization form.

6.1.3.1. For a "**Firm Price**" quote:

SACC Manual clause C0207C 2011-05-16, Basis of Payment - Firm Price or Firm Lot Price; and
SACC Manual clause C6000C 2011-05-16, Limitation of Price;

6.1.3.2. For a "**Ceiling Price**" quote:

SACC Manual clause C1200C 2008-05-12, Basis of Payment - Ceiling Price; and
SACC Manual clause C6000C 2011-05-16, Limitation of Price;

6.1.3.3. For a "**Limitation of Expenditure**" quote:

SACC Manual clause C0206C 2011-05-16, Basis of Payment - Limitation of Expenditure; and
SACC Manual clause C6001C 2011-05-16, Limitation of Expenditure;

6.2 Method of Payment

6.2.1. Method of Payment - Progress Payments (Without holdback)

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6.2.1.1. Canada will make progress payments in accordance with the payment provisions of the Contract, no more than once a month, for cost incurred in the performance of the Work, if:

(a) an accurate and complete claim for payment using form PWGSC- TPSGC 1111, Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;

(b) the amount claimed is in accordance with the basis of payment;

(c) all certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives.

6.2.1.2. Progress payments are interim payments only. Canada may conduct a government audit and interim time and cost verifications and reserves the rights to make adjustments to the Contract from time to time during the performance of the Work. Any overpayment resulting from progress payments or otherwise must be refunded promptly to Canada.

6.2.2. Method of Payment for Task Authorizations and SPOs

The Contractor may submit a "**Firm Price**", a "**Ceiling Price**" or a "**Limitation of Expenditure**" quote to the DND Requisitioning Authority. The Contractor shall be paid in accordance with the Annex AB Basis of payment of this contract. For each of the above cases, the following clauses must be completed, when applicable, and added to the work authorization form.

6.2.2.1. For a "**Firm Price**" quote, some of the following clauses may apply:

SACC Manual clause H1000C 2008-05-12, Single Payment;

OR

SACC Manual clause H1001C 2008-05-12, Multiple payments;

OR

SACC Manual clause H3010C 2010-01-11, Milestone Payments; and

SACC Manual clause H4012C 2010-01-11, Schedule of Milestones;

6.2.2.2. For a "**Ceiling Price**" or a "**Limitation of Expenditure**" quote, some of the following clauses may apply:

SACC Manual clause H1000C 2008-05-12, Single Payment;

OR

SACC Manual clause H1003C 2010-01-11, Progress Payments; (with no options, delete paragraphs 1. (c) and 2., 0% holdback)

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6.3. Exchange Rate

6.3.1. Exchange Rate/Progress Claim

6.3.1.1. The price in Canadian currency includes the foreign currency component in respect of goods, services or both originating outside Canada, as detailed in Appendix 1 Claim for Exchange Rate Adjustments to Annex “AB” Basis of Payment.

6.3.1.2. The price must be adjusted either upwards or downwards to reflect the actual costs incurred associated with the actual foreign currency exchange rate obtained by the Contractor when remitting payment to a foreign-based supplier or subcontractor for the goods, services or both.

6.3.1.3. On each claim for progress payment submitted under the Contract, the Contractor must indicate the foreign value or exchange rate adjustment amount (either upward, downward or no change) as a separate item. The Contractor must provide appropriate documentation showing evidence of payment to a foreign-based subcontractor or supplier for the goods, services or both included in the claimed amount.

6.3.1.4. Canada will have the right to audit any revision to costs and prices under this clause.

6.3.2. Exchange Rate/Milestone payment

6.3.2.1. The price in Canadian currency includes the foreign currency component in respect of goods, services or both originating outside Canada, as detailed in Appendix 1 Claim for Exchange Rate Adjustments to Annex “AB” Basis of Payment. In the event that one or more of the milestones involve a foreign currency component that becomes due and payable on that particular milestone, a separate form PWGSC- TPSGC 9411 must accompany the invoice for each applicable milestone.

6.3.2.2. When a milestone payable includes the importation of goods, services or both into Canada, the exchange rate used to calculate the adjustment will be the rate applied by Canada Border Services Agency (CBSA) on the date of importation. For a milestone that does not involve the importation of goods, services or both, but still includes a foreign currency component, the exchange rate used to calculate the adjustment will be the Bank of Canada exchange rate in effect at noon, on the date when the milestone became due and payable.

6.3.2.3. No price adjustment directly resulting from the application of the provisions contained in this clause will be applied for increases or decreases in the exchange rate within a variation of: plus or minus 2 percent of the exchange rate(s) mentioned above; or plus or minus \$100 of the total cumulative amount claimed for exchange rate adjustment under the Contract.

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6.3.2.4. On each invoice or claim for milestone payment submitted under the Contract, the Contractor must indicate the exchange rate adjustment amount (either upward, downward or no change) as a separate item. In the event of delivery, the invoice or claim for milestone payment must be accompanied by a copy of CBSA form B3-3, Canada Customs Coding Form. When the goods, services or both have not been imported, the Contractor must provide evidence, satisfactory to Canada, that the amount claimed is due and payable in foreign currency by the Contractor.

6.3.2.5. Canada will have the right to audit any revision to costs and prices under this clause.

6.4. Limitation of Expenditure

6.4.1. Canada's total liability to the Contractor under the Contract must not exceed \$_____ (*NOTE: Canada to insert the amount at contract award*). Customs duties are excluded and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

6.4.2. No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not perform any work or provide any service that would result in Canada's total liability being exceeded before obtaining the written approval of the Contracting Authority. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:

- (a) When it is 75 percent committed, or
- (b) Four (4) months before the contract expiry date, or
- (c) As soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work, whichever comes first.

6.4.3. If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

6.4.4. Funding by fiscal year

Despite the Total Estimated Cost (Limitation of Expenditure) specified in the Contract, and unless otherwise authorized in writing by the Contracting Authority, the maximum amount which may be paid for work completed in the period ending Contract anniversary minus 1 day of the year specified is as follows:

Contract year 1: \$_____ (*NOTE: Canada to insert the amount at contract award*).

Contract year 2: \$_____ (*NOTE: Canada to insert the amount at contract award*).

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Contract year 3: \$ _____ (NOTE: Canada to insert the amount at contract award).

Contract year 4: \$ _____ (NOTE: Canada to insert the amount at contract award).

Contract year 5: \$ _____ (NOTE: Canada to insert the amount at contract award).

6.5. SACC Manual Clauses:

6.5.1. General:

SACC Manual clause B9031C 2011-05-16, Canada's Obligation – Portion of the Work – Task Authorizations;

SACC Manual clause A9117C 2007-11-30, T1204 - Direct Request by Customer Department;

SACC Manual clause H4500C 2010-01-11, Lien - Section 427 of the Bank Act (Canadian-based suppliers);

6.5.2. Duty and tax:

Foreign-based contractor:

SACC Manual clause C2608C 2010-08-16, Canadian Customs Documentation;
AND

SACC Manual clause C2610C 2007-11-30, Customs Duties - DND - Importer;
AND

SACC Manual clause C2000C 2007-11-30, Taxes - Foreign-based Contractor;
AND

SACC Manual clause C2605C 2008-05-12, Canadian Customs Duties and Sales Tax - Foreign-based Contractor; AND

SACC Manual clause C2604C 2010-01-11, Customs Duties, Excise Taxes and GST/HST - Non-resident

6.5.3. Cost Submission:

SACC Manual clause C0305C 2008-05-12, Cost Submission;

SACC Manual clause C0307C 2008-05-12, Cost Submission (For R&O);

6.5.4. Audit:

SACC Manual clause C0705C 2010-01-11, Discretionary Audit;

6.5.5. Time Verification:

SACC Manual clause C0710C 2007-11-30, Time and Contract Price Verification;

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6.6. Economic Price Adjustment

The prices applicable for a coming year will be calculated during the last month of the preceding year for which the Contract had firm prices and will be the firm prices from that preceding year adjusted on account of fluctuations in the Canadian economy over the most recent consecutive 12 months period for which economic indicators are available. The adjusted Price(s) for the coming year shall remain fixed for that period except for the condition at paragraph 6.6.6. In the Contract, a "year" is a period from Contract Starting Date Anniversary to next Contract Starting Date Anniversary minus 1 day. Economic price adjustments will be done as per the following.

6.6.1. Firm Hourly Rates (FHR):

The economic indicator that must be used to account for the actual fluctuations in the economy is the Canadian Consumer Price Index (CPI). For purposes of this article, the most recent Statistics Canada monthly Catalogue "62-001-X" CPI will be used. The relevant CPI shall be from the Statistical Tables, Table 1, namely "The Consumer Price Index, major components and special aggregates, Canada, not seasonally adjusted". The CPI for "All Items (2002=100)" shall be used under column "Percentage change (month z) 201y from (month z) 201x". The indexation is calculated as follows:

- a) Percentage change = "the CPI Percentage change (month z) 201y from (month z) 201x" + 1%;
- b) FHR(s) applicable for the coming 12-month period = The FHR(s) for the preceding 12-month period of the contract multiplied by '(1+ "Percentage change")';
- c) FHR(s) applicable for the coming 12-month period will be rounded up to 2 decimals (Example: \$2.571 or \$2.579 will be rounded up to \$2.58);

6.6.2. Firm Price, Firm Unit Price(s) or Firm Lot Price(s):

The prices for a coming year shall not exceed the lesser of:

- a) Price indexation:
The economic indicator that must be used to account for the actual fluctuations in the economy is the Canadian Consumer Price Index (CPI). For purposes of this article, the most recent Statistics Canada monthly Catalogue "62-001-X" CPI will be used. The relevant CPI shall be from the Statistical Tables, Table 1, namely "The Consumer Price Index, major components and special aggregates, Canada, not seasonally adjusted". The CPI for "All Items (2002=100)" shall be used under column "Percentage change (month z) 201y from (month z) 201x". The indexation is calculated as follows:
 - i) Percentage change = "the CPI Percentage change (month z) 201y from (month z) 201x";

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- ii) Firm Price (s) (FP) applicable for the coming 12-month period = The FP(s) for the preceding 12-month period of the contract multiplied by '(1+ "Percentage change")'; or
- iii) FP(s) applicable for the coming 12-month period will be rounded up to 2 decimals (Example: \$2.571 or \$2.579 will be rounded up to \$2.58);

or

b) the Contractor current Commercial Published Price List (CPPL), less discount (s) for the year in question;

6.6.3. Mark-ups:

There will be no adjustments made to the firm mark-ups contained in the Annex AB Basis of payment.

6.6.4. Economic price adjustments (either upwards or downwards) shall be limited of a maximum of 5% of the previous year's price(s). In the event the change in the chosen index is negative, the price(s) in effect will be adjusted downward accordingly. Economic price adjustments shall be calculated over a consecutive 12 months period.

6.6.5. If the CPI referred to in articles 6.6.1 and 6.6.2 is discontinued, or if the basis for reporting the index is changed from that in existence on or after the award date of the Contract, the Minister shall immediately thereafter establish replacement indices, or formulate adjustments, consistent with the intent of those set forth in these articles.

6.6.6. Should the Contractor publish or publicly announce a price decrease, or has discount on quantities, it shall provide the benefit of the decrease to Canada.

6.7. Price negotiation:

Under some circumstances, firm prices may not be readily available or items may be added in the Contract basis of payment on an on going basis for the purchase of some Goods and Services. A review of the Contractor proposed pricing will be required by Canada. Detailed supporting data may be requested to validate the prices and other charges proposed. Cost and profit negotiations with the Contractor will be in accordance with Canadian Government policy.

6.8. Definitions of "Actual Cost":

6.8.1. For Contractor Manufactured Parts, "actual cost" is the Direct Material, Material Handling, Direct Manufacturing Labour and Direct Manufacturing Labour Overhead, calculated in accordance with Contract Cost Principle 1031-2; Exclusive of G&A and Profit.

6.8.2. For Contractor Acquired Parts, "actual cost" is the laid down cost incurred by the supplier to acquire a specific product for resale to Canada. This includes the invoiced Cost (less trade discounts) plus Freight In, Customs and Duties; Exclusive of G&A, O/H(s), Handling and Profit.

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6.9. Work in process:

The prices of the work executed after Contract expiry date will be calculated in accordance with articles 6.6 and 6.7 of the contract.

7. Inspection, Shipping, Delivery and Acceptance

7.1. Shipping instructions

SACC Manual clause D0035C 2010-01-11, Shipping Instructions (DND) - Foreign-based Contractors (*NOTE: Canada to complete before contract award*);

OR

SACC Manual clause D0037C 2011-05-16, Shipping Instructions (DND) - Canadian-based Contractor (*NOTE: Canada to complete before contract award*);

7.2. Quality Assurance:

Canadian-based Contractor:

SACC Manual clause D5510C 2011-05-16, Quality Assurance Authority (DND) - Canadian-based Contractor; and
SACC Manual clause D5606C 2007-11-30, Release Documents (DND) - Canadian-based Contractor;

OR

Foreign-based and United States Contractor:

SACC Manual clause D5515C 2010-01-11, Quality Assurance Authority (DND) - Foreign-based and United States Contractor; and
SACC Manual clause D5604C 2008-12-12, Release Documents (DND) - Foreign-based Contractor; or
SACC Manual clause D5605C 2010-01-11, Release Documents (DND) - United States-based Contractor;

AND

SACC Manual clause D5540C 2010-08-16, ISO 9001:2008 Quality Management Systems - Requirements (QAC Q);
SACC Manual clause D5505C 2007-11-30, Quality Assurance Document;
SACC Manual clause D5545C 2010-08-16, ISO 9001:2008 - Quality Management Systems - Requirements (QAC C);

7.3. Release Documents – Distribution

Release documents prepared by the Contractor shall be distributed as follows:

- (a) Copy 1: mail to consignee marked: "Attention: Receipts Officer";

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- (b) Copies 2 and 3: with shipment (in a waterproof envelope) to the consignee;
- (c) Copy 4: to the Contracting Authority;
- (d) Copy 5: to:
 - National Defence Headquarters
 - MGen George R. Pearkes Building
 - 101 Colonel By Drive
 - Ottawa, ON K1A OK2
 - Attention: A/DLP 2-2-2
- (e) Copy 6: to the Quality Assurance Representative;
- (f) Copy 7: to the Contractor;
- (g) Copy 8: all non-Canadian Contractors to:

DQA/Contract Administration
 National Defence Headquarters
 MGen George R. Pearkes Building
 101 Colonel By Drive
 Ottawa, ON K1A OK2

8. Invoicing Instructions - Progress Payment Claim

8.1. The Contractor must submit a claim for payment using form PWGSC-TPSGC 1111, Claim for Progress Payment.

Each claim must show:

- (a) all information required on form PWGSC-TPSGC 1111;
- (b) all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;
- (c) a list of all expenses, details of the items repaired including NSN, Description of Item, Labour hours, materiel costs, Other applicable Costs, DND 626 or Work order numbers, Stock holding code change notification, and document number;
- (d) the description and value of the milestone claimed as detailed in the Contract.

Each claim must be supported by:

- (a) a copy of time sheets to support the time claimed;

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- (b) a copy of the invoices, receipts, vouchers for all direct expenses, travel and living expenses;
- (c) a copy of the monthly progress report;

8.2. The Goods and Services Tax or Harmonized Sales Tax (GST/HST), as applicable, must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no GST/HST payable as it was claimed and payable under the previous claims for progress payments.

8.3. The Contractor must prepare and certify one original and two (2) copies of the claim on form PWGSC-TPSGC 1111, and forward it to the Requisitioning Authority identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.

The Requisitioning Authority will then forward the original and two (2) copies of the claim to the Contracting Authority for certification and onward submission to the Payment Office for the remaining certification and payment action.

8.4. The Contractor must not submit claims until all work identified in the claim is completed.

9. Certifications

9.1. Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

10. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____. *(NOTE: Canada to insert the province at contract award, as specified by the Bidder under Request for Proposal (RFP) article 2.4 to Volume 1)*

11. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;

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- (b) Module A;
- (c) the supplemental general conditions 4002 (2010-08-16), Software Development or Modification Services as amended in article 2.2.1;
- (d) the supplemental general conditions 4003 (2010-08-16), Licensed Software as amended in article 2.2.2;
- (e) the supplemental general conditions 4006 (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information;
- (f) the general conditions 2030 (2011-05-16), General Conditions - Higher Complexity – Goods as amended in article 2.1;
- (g) Module B;
- (h) Module C;
- (i) the signed Task Authorizations (including all of their annexes, if any);
- (j) the Contractor's bid all Sections I, VI, VII, VIII and IX dated _____ (*NOTE: Canada to insert date of bid at contract award*);

12. Defence Contract

SACC Manual clause A9006C 2008-05-12 Defence Contract
SACC Manual clause C2801C 2011-05-16 Priority Rating - Canadian-based Contractors
SACC Manual clause C2800C 2011-05-16 Priority Rating

13. Foreign Nationals

Canadian Contractor:

SACC Manual clause A2000C 2006-06-16, Foreign Nationals (Canadian Contractor)

OR

Foreign Contractor:

SACC Manual clause A2001C 2006-06-16, Foreign Nationals (Foreign Contractor)

14. Site Regulations

SACC Manual clause A9068C 2010-01-11 Site Regulations

15. Electrical Equipment

SACC Manual clause B1501C 2006-06-16, Electrical Equipment

16. Excess Goods

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SACC Manual clause B7500C 2006-06-16, Excess Goods

17. Controlled Goods Program

SACC Manual clause A9131C 2011-05-16, Controlled Goods Program

SACC Manual clause B4060C 2011-05-16, Controlled Goods

18. Insurance Requirements

The Contractor must comply with the insurance requirements specified in Annex AA. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer licensed to carry out business in Canada. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

19. Government property and services

19.1. Government Property

19.1.1. Title to Government Property must remain vested in Canada at all times and the Contractor must not lien, charge or encumber, nor cause to be liened, charged or encumbered, any Government Property in its possession or control.

19.1.2. The Contractor must pack and deliver such items in accordance with suitable commercial practice to the destination set out in delivery instructions provided to the Contractor by the Contracting Authority.

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19.1.3. Annual inventory and utilization reviews of Government Property may be conducted at the discretion of the Contracting Authority, and the Contractor must account for them as may be required.

19.1.4. Canada agrees that all Government Property furnished to the Contractor hereunder shall be accurate and fit, suitable and sufficient for the purposes of this Contract. The Contractor shall notify the Contracting Authority, within thirty (30) days, after the Contractor becomes aware of any deficiency, non-conformance malfunction or inaccuracy in any Government Property. The Contracting Authority and the Contractor will jointly determine corrective measures to be taken by either party, and the consequences, if any, to the Contract Delivery Date and the Contract Price.

19.1.5. In order for Canada to retransfer Government Property (GFI/GFE) subject to ITAR or other Nations export controls, Canada will arrange for and maintain the required retransfer approval or applicable licenses.

19.2. Government Furnished Information (GFI)

19.2.1. The Canada Reference Documents (Data) identified in Annex CE Section 1.1 to 1.4 are available from the Contracting Authority on request.

19.2.2. Canada's right, title and interest to GFI must remain vested always in Canada and the Contractor must maintain it free and clear of all claims, liens, charges and encumbrances.

19.2.3. If, during the course of this Contract, the Contractor identifies additional requirements for information available to Canada, the Contractor may submit requests for such information to the Contracting Authority. The Contracting Authority will determine and advise the Contractor whether, and the terms upon which, such information can be provided. Canada will endeavour to provide to the Contractor such information at the times and places and upon the other terms agreed.

19.2.4. Prior to receiving GFI, an executed original copy of the Non-Disclosure Agreement (NDA) attached as Annex AD must be submitted to the Contracting Authority (See article 5.1) in writing, either by e-mail or letter, and shall include the mailing address to which the Data shall be sent.

19.3. Government Furnished Equipment (GFE)

19.3.1. GFE will be provided as specified in Appendix 3 to Annex CA.

19.3.2. Government Furnished Equipment (GFE) will be supplied to the Contractor under a Loan Agreement (Annex CD), to carry out the Work.

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19.3.3. If during the course of this Contract, the Contractor identifies additional equipment required for the purposes of the Contract, the Contractor will formally place a request to Canada. Canada will determine and advise the Contractor whether such equipment can be provided and, if so, the terms of its loan. If such loans are agreed, Canada will endeavour to deliver to the Contractor such equipment at the times and places and upon the other terms agreed.

19.3.4. As required under ITAR, if a Technical Assistance Agreement(s) (TAA), and/or Export License or similar document is required for the performance of the ISSP work the Contractor must ensure that applicable documents be valid for the duration of the Contract.

19.4. Return of GFI and GFE

19.4.1. The Contractor must return all GFI and GFE provided by Canada during the course of the Contract within 6 months of completion of the Contract, or earlier if so requested by the Contracting Authority.

20. Consultants and Other Contractors

20.1. The Minister may enter into separate contracts with consultants and other contractors to assist Canada during the performance of this Contract. Upon Notice from the Minister, the Contractor must provide these consultants and other contractors with access to the Work, to the Contractor's employees and to all necessary things and information related to the Work in order to enable these consultants and other contractors to carry out their contractual obligations, in the same manner as the Contractor is required to provide to any authorized representative of the Minister. These consultants and other contractors while on the Contractor's or any of its Subcontractor's premises, must at all times be subject to the rules and regulations in force on these premises, including all required licenses, with respect to the conduct of employees or visitors. The Minister, at the reasonable request of the Contractor, will have removed from these premises any of these consultants and other contractors who have breached such rules and regulations, or whose conduct does not conform to that expected of and practiced by the Contractor's employees or visitors.

20.2. As a condition of such access, the Minister will require such consultant or other contractor to the Minister to execute a confidentiality agreement with the Contractor or lower tier subcontractor concerned, in the form that may be reasonably be required by the Contractor.

21. Quality Assurance

21.1. Quality Assurance

21.1.1. All work subject to Government Quality Assurance at the Contractor's facility or that of the subcontractor(s) and at the installation site by the:

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Director of Quality Assurance
National Defence Headquarters
Major-General George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2
Email: ContractAdmin.DQA@forces.gc.ca

21.1.2. The Design Change, Deviation and Waiver Procedure as defined in National Defence Standard D-02-006-008/SG-001 apply to the Contract. A copy of the standard can be obtained from the nearest NDQAR office.

21.1.3. The Contractor is responsible for performing, or having performed, all inspections and tests necessary to substantiate that the material or services provided conform to the requirements of the Contract.

21.1.4. The Contractor must provide, at no additional cost, all applicable test data, all technical data, test pieces and samples as may be reasonably be required by the QAR to verify conformity to the requirements of the Contract. The Contractor must forward at its expense such technical data, test data, test pieces and samples to such location as the QAR may direct.

21.1.5. Quality control, inspection and test records that substantiate conformity to the specified requirements, including records of corrective actions, must be retained by the Contractor for three (3) years from the date of completion or termination of the Contract and must be made available to the QAR upon request.

22. Not applicable

23. Third Party Professional Support Services

23.1. Canada intends to enter into contract with a third party(ies), the Professional Support Services (PSS) contractor(s) , for the provision of services in support of the DND ISSP Project Office. The Contractor shall facilitate the performance of the PSS contractor(s). The terms of communication will be as follows:

- 1) the PSS contractor reports to, receives direction from and provides recommendations to only the DND Technical Authority;
- 2) the Contractor shall designate a point of contact for the PSS contractor personnel, and shall notify Canada in writing of any change; and
- 3) the PSS contractor shall not be required to furnish the Contractor with work plans or schedules, or with any other documentation or information.

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23.2. Contractor shall make available to the PSS Contractor both the use of temporary workspace for a maximum of three (3) people, and access to Project working materials such as documentation, software and schedules, as are normally available to the Contractor's Quality Assurance personnel.

23.3. Canada will ensure that the PSS personnel possess the necessary security clearances.

23.4. The PSS contractor shall be required to handle the Contractor's material in the following manner:

- 1) The PSS contractor shall not remove any Contractor materials from the Contractor's site unless authorized by the Contractor's contact person in writing.
- 2) The PSS contractor shall treat all Contractor information, data and materials as "company confidential". In this context, "company confidential" means the PSS personnel shall not divulge information to anyone other than Contractor personnel and representatives of Canada who have a "need to know" for the sole purpose of allowing the PSS contractor to perform its PSS activities.

24. Deliverable Substitutions & Alternatives

24.1. The Contractor may propose a substitution or alternative for an existing product listed in the Contract, provided the proposed substitute or alternative meets or exceeds the specification(s) of the existing product and the price for the substitute or alternative product does not exceed:

- (a) the firm price (or ceiling price, if applicable) for the product originally offered in the Contractor's bid that resulted in the award of the Contract;
- (b) the current published list price of the substitute product, minus any applicable Government discount; or
- (c) the price at which the substitute product is generally available for purchase,

whichever is the lowest.

24.2. The proposed substitution/alternative may be subject to benchmark evaluation and the Contractor must pay for all costs associated with the benchmark evaluation (e.g., transportation, benchmark fee, etc.).

24.3. Substitute or alternative items must not be shipped until formally authorized by the Contracting Authority after the Technical Authority determines the substitution or alternative is acceptable. Whether or not to accept or reject a proposed substitution or alternative is entirely within the discretion of Canada. If Canada does not accept a proposed substitution or alternative, the Contractor must continue to deliver the original product. If accepted, the substitution will be documented for the administrative purposes of Canada by a contract amendment, by removing the existing product and including the substitution instead. If accepted, the addition of any

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alternative product will be documented for the administrative purposes of Canada by a contract amendment, by adding the alternative as a product under the Contract. Once an alternative product has been included in the Contract, Canada may purchase either product, at its option.

24.4. The ability to propose a substitution or alternative for any given product does not relieve the Contractor of its obligation to make delivery of the existing product when ordered within the period set out in the Contract, regardless of whether or when the proposed substitution is approved.

25. Software Development or Modification Services

25.1. With respect to the provisions of Supplemental General Conditions 4002:

Canada's Responsibilities	Canada will be responsible for the installation of all custom software.
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26. Licensed Software

26.1. With respect to the provisions of Supplemental General Conditions 4003:

Language of Licensed Software (4003 2.5)	The Licensed Software must be delivered as follows: <ul style="list-style-type: none"> ISS-S Battle Management System (BMS) in English and French; ISS-S Configuration Application Software in English and French; ISS-S Battle Management System (BMS) for the CF31 laptop PC in English and French; and System Executive Planning Suite (SEP-S) for the CF31 laptop PC in English only.
Type of License being Granted (4003 04, 05, 06)	Device License.
Media on which Licensed Software must be Delivered (4003 10)	Each BMS and SEP-S is to be provided to the Department of National Defence on CD-ROM/DVD.
Term of License (4003 11)	Perpetual license as already provided under 4003
Canada's Responsibilities	Canada will be responsible for the installation of all Software Error Corrections, Maintenance Releases and upgrades.

27. Safeguarding Electronic Media

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27.1. Before using them on Canada's equipment or sending them to Canada, the Contractor must use a regularly updated product to scan electronically all electronic media used to perform the Work for computer viruses and other coding intended to cause malfunctions. The Contractor must notify Canada if any electronic media used for the Work are found to contain computer viruses or other coding intended to cause malfunctions.

27.2. If magnetically recorded information or documentation is damaged or lost while in the Contractor's care or at any time before it is delivered to Canada in accordance with the Contract, including accidental erasure, the Contractor must immediately replace it at its own expense.

28. Access to Canada's Property and Facilities

Canada's property, facilities, equipment, documentation, and personnel are not automatically available to the Contractor. If the Contractor would like access to any of these, it is responsible for making a request to the Technical Authority. Unless expressly stated in the Contract, Canada has no obligation to provide any of these to the Contractor.

29. Accommodation

The Contractor must provide for the representatives of Canada, such office space, office facilities, telephone service, and suitable sanitary and washing facilities as they may require from time to time at the Contractor's facilities.

30. Canadian Disruptive Pattern (CADPAT™)

30.1. CADPAT™ patterns and technical data are protected by Canadian copyright laws and are patented and copyrighted to Her Majesty the Queen in right of Canada for exclusive use by the Department of National Defence of Canada (DND).

30.2. The Contractor must only purchase CADPAT™ fabrics in a quantity sufficient to fulfill the contract requirements. The use of CADPAT™ fabrics outside of a DND contract may be subject to legal action.

30.3. Any goods made by the Contractor incorporating the CADPAT pattern and colours must be for the sole end use of DND. The Contractor must not manufacture, sell or offer for sale goods incorporating the CADPAT pattern and colours to any person or entity other than DND. The Contractor must dispose of any second quality goods produced, excess raw material or manufacturing leftover, incorporating the CADPAT pattern and colours, in accordance with the following:

- Trimmings – these should be reduced to rags;

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- Left-over material (partial bolts of unused CADPAT) – the owner of the material can attempt to secure a licensing agreement from DND DSSPM in order to use the surplus material in the manufacture of other goods, attempt to sell this material back to the OEM or reduce the material to rags;
- “Seconds” of vests culled from regular production due to quality concerns – these should be destroyed in accordance with Canadian Forces Supply Manual A-LM-007-014/AG-001, Volume 3, Chapter 10, Annex D, Appendix 13 – Clothing.

30.4. CADPAT™ fabrics can only be provided to garment or equipment manufacturers who have contracts with the Crown for approved DND military equipment, clothing or projects. In order to obtain first quality CADPAT™ from CADPAT™ fabric manufacturers, an end item manufacturers must provide the CADPAT™ fabric manufacturers with proof that he has been awarded a contract by Public Works and Government Services Canada (PWGSC) for the provision of CADPAT™ goods to DND. CADPAT™ Fabric manufacturers are permitted to provide sample quantities of CADPAT™ fabrics to end item manufacturers for the purposes of bidding on DND contracts.

30.5. The Contractor must ensure that any subcontractors requiring goods incorporating the CADPAT pattern and colours for the execution of the work are bound by the conditions of this article.

31. Periodic Usage Reports - Contracts with Task Authorization

31.1 The Contractor must compile and maintain records on its provision of services to the federal government under authorized Task Authorizations issued under the Contract.

The Contractor must provide this data in accordance with the reporting requirements detailed below. If some data is not available, the reason must be indicated. If services are not provided during a given period, the Contractor must still provide a "NIL" report.

The data must be submitted on a quarterly basis to the Contracting Authority.

The quarterly periods are defined as follows:

- 1st quarter: April 1 to June 30;
- 2nd quarter: July 1 to September 30;
- 3rd quarter: October 1 to December 31; and
- 4th quarter: January 1 to March 31.

The data must be submitted to the Contracting Authority no later than 30 calendar days after the end of the reporting period.

31.2 Reporting Requirement – Details

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A detailed and current record of all authorized tasks must be kept. This record must contain:

31.2.1 For each authorized task:

- a. the authorized task number or task revision number(s);
- b. a title or a brief description of each authorized task;
- c. the total estimated cost specified in the authorized Task Authorization of each task, GST or HST extra;
- d. the total amount, GST or HST extra, expended to date against each authorized task;
- e. as applicable, when a task is completed, the committed amount should be reduced to reflect the actual expenditure and the change should be reflected in the record of Task Authorizations;
- f. the start and completion date for each authorized task; and
- g. the active status of each authorized task, as applicable.

31.2.2 For all authorized tasks:

- a. the amount (GST or HST extra) specified in the contract, as Canada's total liability to the contractor for all authorized Task Authorizations;
- b. and the total amount, GST or HST extra, expended to date against all authorized Task Authorizations.

32.0 Dangerous Goods/Hazardous Products

32.1 SACC Manual clause D3015C 2007-11-30, Dangerous Goods/Hazardous Products

32.2 Canada Labour Code, Part II dictates that the least hazardous materials should be used at the workplace. Therefore, the Contractor is to strive to use the least hazardous product that meets the requisite performance requirements. The Contractor is required to include within the Environmental, Health and Safety Impact Report (EHSIR) Material Safety Data Sheets (MSDS) for all products/materials, which are used in the operation and maintenance of the Work, that fall under the Hazardous Products Act, R.S.C. 1985m c. H-3 and regulation(s) thereunder in accordance with the said Act and regulation(s).

33.0 Hazardous Waste Disposal

SACC Manual clause A9016C 2011-05-16, Hazardous Waste Disposal

34. Environmental Health and Safety

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34.1. General

34.1.1. New or amended support documentation, such as Canadian Forces Technical Orders (CFTO's) shall incorporate appropriate EHS warnings and instructions in direct relation to the EHS risks presented in the contents.

34.1.2. The Contractor shall comply with Department of National Defence (DND) policies, orders, directives, instructions and best practices when accessing DND owned or controlled lands, buildings or equipment.

34.2. Compliance

34.2.1. The Contractor shall comply in all respects with Environmental, Health and Safety legislation, such as the Canadian Environmental Protection Act, Canadian Environmental Assessment Act, Hazardous Products Act, Transportation of Dangerous Goods Act, Canada Labour Code, and their regulations, in force in relation to the provision of Services. Where the provisions of any such legislation are implemented by the use of voluntary agreements or codes of practice, the Contractor shall comply with such agreements or codes of practices as if they were incorporated into Canada law subject to those voluntary agreements being cited in the Contract documentation. The Contractor is responsible to comply with laws applicable to the performance of the Contract, regardless of them being identified, or not, within the Contract. The Contractor shall provide evidence of compliance with such laws to Canada at such times as Canada may reasonably request.

34.3. Hazardous Products

34.3.1. Canada Labour Code, Part II dictates that the least hazardous materials should be used at the workplace. Therefore, the Contractor is to strive to use the least hazardous product that meets the requisite performance requirements. The Contractor is required to include within the Environmental, Health and Safety Impact Report (EHSIR) Material Safety Data Sheets (MSDS) for all products/materials, which are used in the operation and maintenance of the Work, that fall under the Hazardous Products Act, R.S.C. 1985, c. H-3 and regulation(s) thereunder in accordance with the said Act and regulation(s).

34.4. Controlled Products

34.4.1. Controlled Products are products that harbour chemical substances that are banned, being phased out or regulated by legislation. Products and substances regulated or restricted under the following programs include:

- Ozone Depleting Substances (ODS) Regulations (1998);
- Federal Halocarbon Regulation;
- 2-Butoxyethanol Regulation;

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PCB Regulation;
Prohibition of Certain Toxic Substances, 2005;
Government of Canada's Chemical Management Plan;
National Pollutant Release Inventory (NPRI);
Accelerated Reduction/Elimination of Toxics; and
Canadian Environmental Protection Act, Schedule 1, list of Toxic Substances.

35. Interface Control Document (ICD)

35.1 There is a requirement for the Contractor's Integrated Soldier System Suite (ISS-S) to Interface with LCSS radios (PRC 117,148,152), the DAGR (if the ISS-S provides military GPS capability via an interface to the CF in-service DAGR) and the CORAL-CR-C. This functionality will have to be maintained and improved upon through the Optimized Weapon System Support (OWSS) for the ISS as presented in annex CA to Volume 3.

35.2 It is the Contractor's responsibility to obtain from the respective Original Equipment Manufacturer (OEM) for the LCSS radios (PRC 117,148,152) and the DAGR (if the ISS-S provides military GPS capability via an interface to the CF in-service DAGR) the required ICD's and assistance for the maintenance and engineering efforts thereby allowing the Contractor to complete the ISS In-Service support and ISS Improvements activities.

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MODULE A

TO

VOLUME 3

ANNEX AA to Volume 3

INSURANCE REQUIREMENTS

Commercial General Liability Insurance

1. The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.

2. The Commercial General Liability Insurance policy must include the following:

- (a) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
- (b) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
- (c) Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
- (d) Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
- (e) Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
- (f) Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
- (g) Employees and, if applicable, Volunteers must be included as Additional Insured.
- (h) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)

ANNEX AA to Volume 3 (Cont'd)

- (i) Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
- (j) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
- (k) If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
- (l) Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
- (m) Non-Owned Automobile Liability - Coverage for suits against the Contractor resulting from the use of hired or non-owned vehicles
- (n) Litigation Rights: Pursuant to subsection 5(d) of the *Department of Justice Act*, S.C. 1993, c. J-2, s.1, if a suit is instituted for or against Canada which the Insurer would, but for this clause, have the right to pursue or defend on behalf of Canada as an Additional Named Insured under the insurance policy, the Insurer must promptly contact the Attorney General of Canada to agree on the legal strategies by sending a letter, by registered mail or by courier, with an acknowledgement of receipt.

For the province of Quebec, send to:

Director Business Law Directorate,
Quebec Regional Office (Ottawa),
Department of Justice,
284 Wellington Street, Room SAT-6042,
Ottawa, Ontario, K1A 0H8

For other provinces and territories, send to:

Senior General Counsel,
Civil Litigation Section,
Department of Justice
234 Wellington Street, East Tower
Ottawa, Ontario K1A 0H8

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A copy of the letter must be sent to the Contracting Authority. Canada reserves the right to co-defend any action brought against Canada. All expenses incurred by Canada to co-defend such actions will be at Canada's expense. If Canada decides to co-defend any action brought against it, and Canada does not agree to a proposed settlement agreed to by the Contractor's insurer and the plaintiff(s) that would result in the settlement or dismissal of the action against Canada, then Canada will be responsible to the Contractor's insurer for any difference between the proposed settlement amount and the amount finally awarded or paid to the plaintiffs (inclusive of costs and interest) on behalf of Canada.

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ANNEX AB to Volume 3

ISS-OWSS FINANCIAL BID PRESENTATION SHEET

(This Annex begins on the next page)

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ANNEX AB to Volume 3
ISS-OWSS FINANCIAL BID PRESENTATION SHEET
PART 1 (For a period of 5 years from contract starting date)

Last update: February 5, 2013
ISS_OWSS_FBP5_V2.XLS

Line	BP		Qty	Column A	Column B1	Column B2	Column B3	Column B4	Column B5	Column C
No.	Code	ITEM'S DESCRIPTIONS	U of I	Qty (Over a 5 year period)	Unit Price (Contract Year 1)	Unit Price (Contract Year 2)	Unit Price (Contract Year 3)	Unit Price (Contract Year 4)	Unit Price (Contract Year 5)	Extended Price
1	1.0	Contract Management:								
2		For the management of the Contract including but not limited to the management functions (Core activities) which include in particular the provision and/or revision as necessary of all data items listed below, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Travel and Living expenses and EIE management and maintenance (see SOW para. 4.1.7.) excluded, the Contractor shall be paid monthly on a Cost Reimbursable Basis using the prices under item 6.0 to this annex up to the annual ceiling price herein. If the Contract Management costs exceed the ceiling price herein, the remaining Contract Management costs, if any, will be at the Contractor's own expense.	Year	5	\$					\$
3										
4		Data Items List:		Frequency						
5										
6		1.1 Program Management Plan (PMP) (Annex CA Statement of Work (SOW) para. 4.1.1.0-4, CDRL PM-101)		R						
7		1.2 Quality Assurance Plan (QAP) (SOW para. 4.1.1.0-8, CDRL PM-102)		R						
8		1.3 Significant Incident Report (SOW para. 4.1.1.0-10, CDRL PM-103)		ASREQ						
9		1.4 Monthly Services Status Report (SOW para. 4.1.1.0-11, CDRL PM-104)		MONTHLY						
10		1.5 Meeting Agendas (SOW para. 4.1.1.0-12.0-7, CDRL PM-105)		ASREQ						
11		1.6 Meeting Minutes (SOW para. 4.1.1.0-12.0-8, CDRL PM-106)		ASREQ						
12		1.7 Issue-Action Item Log (IAIL) (SOW para. 4.1.1.0-12.0-9, CDRL PM-107)		ASREQ						
13		1.8 Program Review Meeting (PRM) (SOW para. 4.1.1.0-14)		QUARTERLY						
14		1.9 Kick-off Meeting (SOW para. 4.1.1.0-15)		ONE						
15		1.10 Other Meetings and Reviews (SOW para. 4.1.1.0-16)		ASREQ						
16		1.11 Configuration Management Plan (CMP) (SOW para. 4.1.4.1.0-1, CDRL CM-101)		R						
17		1.12 Engineering Change Proposals (ECP) (SOW para. 4.1.4.3.0-1, CDRL CM-102)		ASREQ						
18		1.13 Request for Deviation/Waiver (RFD/W) (SOW para. 4.1.4.3.0-3, CDRL CM-103)		ASREQ						
19		1.14 Specification Change Notice (SCN) (SOW para. 4.1.4.3.0-4, CDRL CM-104)		ASREQ						
20		1.15 Notice of Revision (NOR) (SOW para. 4.1.4.3.0-5, CDRL CM-105)		ASREQ						
21		1.16 Configuration Status Accounting Report (CSAR) (SOW para. 4.1.4.4.0-1, CDRL CM-106)		MONTHLY						
22		1.17 Technical Data Management Plan (TDMP) (SOW para. 4.1.5.0-2, CDRL DM-101)		R						
23		1.18 Intellectual Property (IP) Lists updates (SOW para. 4.1.6.0-1, CDRL PM-108)		ANNUALLY						
24		1.19 Obsolescence Management Candidates List (OMCL) (SOW para. 4.1.10.0-2, CDRL LS-102)		MONTHLY						
25		1.20 Environmental, Health and Safety Assessment (EHSA) updates (SOW para. 4.1.11.0-6, CDRL PM-109)		ASREQ						
26		1.21 Government Properties Report updates (SOW para. 4.1.12.0-2, CDRL PM-110)		ANNUALLY						
27		1.22 ISS Spares Catalogue updates (SOW para. 4.2.2.0-3, CDRL LS-104)		ANNUALLY						
28		1.23 R&O Performance Report updates (SOW para. 4.2.3.0-17.0-2, CDRL PM-111)		ANNUALLY						
29		1.24 System Engineering Management Plan (SEMP) (SOW para. 4.4.1.0-2, CDRL SE-101)		R						
30		NOTE: The definition of "Frequency" can be found in RFP section 2.2.3 to Annex CC to Volume 3.								

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2.0 Documentation:

For the provision of the data items below, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, upon delivery and acceptance or approval as the case maybe of all data items, Canada shall pay the Contractor, the Firm Lot Price thereon of:

2.1 Documentation set:

Lot

1

\$

\$

- 2.1.1 Program Management Plan (PMP) (Annex CA Statement of Work (SOW) para. 4.1.1.0-3, CDRL PM-101)
- 2.1.2 Initial Intellectual Property (IP) Lists (SOW para. 4.1.6.0-1, CDRL PM-108)
- 2.1.3 Initial Government Properties Report (SOW para. 4.1.12.0-2, CDRL PM-110)
- 2.1.4 Initial ISS Spares Catalogue (SOW para. 4.2.2.0-1, CDRL LS-104)
- 2.1.5 Repair & Overhaul Candidates List (SOW para. 4.2.3.0-1, CDRL LS-105)
- 2.1.6 Revised Technical Data Management Plan (TDMP) (SOW para. 4.1.5.0-2, CDRL DM-101)
- 2.1.7 Revised System Engineering Management Plan (SEMP) (SOW para. 4.4.1.0-2, CDRL SE-101)
- 2.1.8 Revised Quality Assurance Plan (QAP) (SOW para. 4.1.1.0-8, CDRL PM-102)
- 2.1.9 Revised Configuration Management Plan (CMP) (SOW para. 4.1.4.1.0-1, CDRL CM-101)

3.0 Management and Maintenance of the Electronic Information Environment (EIE): (SOW para 4.1.7)

For the management and maintenance of the EIE data and computer infrastructure, Canada shall pay the Contractor, upon delivery and acceptance, a Firm Monthly Fee, thereon of:

Month

60

\$

\$

4.0 In-Plant Repair: (SOW para. 4.2.3.)

For Authorized In-Plant Repair or reduction to spares, during normal business hours, goods excluded, Canada shall pay the Contractor, blended Firm Hourly Rates as specified herein:

DESCRIPTION (Labour categories):

4.1 Repair & Overhaul Labour categories:

4.1.1	
4.1.2	
4.1.3	
4.1.4	
4.1.5	
4.1.6	
4.1.7	
4.1.8	
4.1.9	
4.1.10	
4.1.11	
4.1.12	
4.1.13	
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4.1.19	
4.1.20	

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4.2 Normal business hours R&O average blended rate

\$

4.3 Normal business hours total expected workload

Hrs

53500

\$

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4.4 Outside normal business hours (Monday to Friday):

When authorized, Canada shall pay the Contractor the Firm Hourly Rates specified under this annex item 4.1 plus an overtime premium thereon of:

4.4.1 Overtime premium (Monday to Friday)

4.4.2 Expected Overtime Workload Hrs 8000 \$ \$

4.5 Outside normal business hours (Saturday and Sunday):

When authorized, Canada shall pay the Contractor the Firm Hourly Rates specified under this annex item 4.1 plus an overtime premium thereon of:

4.5.1 Overtime premium (Saturday and Sunday)

4.5.2 Expected Overtime Workload Hrs 8000 \$ \$

5.0 Reconstitution Services: (SOW para. 4.3.3.)

For Authorized Reconstitution Services, Canada shall pay the Contractor as specified herein:

5.1 For the R&O activities, the Contractor shall be paid as per item 4.0 of this annex.

5.2 For the storage and security of the equipment, from the time of receipt by the Contractor up to delivery after reconstitution, the Contractor shall be paid a firm daily fee per Integrated Soldier System - Suite (ISS-S) thereon of

Day 21500 \$ \$

6.0 Support Services (SOW paragraphs 4.3 & 4.4)

When Authorized - for the provision of Support Services using the following labour categories having the minimum mandatory qualifications as stipulated in contract appendix 2 to annex CA, Canada shall pay the Contractor, the Firm Hourly Rates specified herein:

6.1 Normal business hours:

DESCRIPTION (Labour categories):

6.1.1	SPJM - Senior Project manager	Hrs	5200	\$	\$
6.1.2	PJA - Project administrator	Hrs	5200	\$	\$
6.1.3	ISSE - Intermediate Software System Engineer	Hrs	13000	\$	\$
6.1.4	ISS - Intermediate Software Specialist	Hrs	15600	\$	\$
6.1.5	MC - Configuration Manager	Hrs	3900	\$	\$
6.1.6	SSTE - Senior Software Test Engineer	Hrs	7800	\$	\$
6.1.7	FSR - Field Service Representative (Bilingual)	Hrs	3900	\$	\$
6.1.8	SMI - System Management Instructor	Hrs	3900	\$	\$
6.1.9	IILSS - Intermediate Integrated Logistics Support Specialist	Hrs	9100	\$	\$
6.1.10	ITS - Intermediate Test Specialist	Hrs	7800	\$	\$
6.1.11	IST - Intermediate System Technologist	Hrs	11700	\$	\$
6.1.12	IHE - Intermediate Hardware Engineer	Hrs	5200	\$	\$
6.1.13	SSE - Senior System Engineer	Hrs	10400	\$	\$
6.1.14	JSE - Junior System Engineer	Hrs	13000	\$	\$
6.1.15	ISFE - Intermediate Software/Firmware Engineer	Hrs	7800	\$	\$
6.1.16	SQS - Senior Quality Specialist	Hrs	1300	\$	\$
6.1.17	SLSS - Senior Life Cycle Management Support Specialist (Bilingual)	Hrs	5200	\$	\$

6.1.18 Normal business hours total expected workload 130000

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6.2 Outside normal business hours (Monday to Friday):

When authorized, Canada shall pay the Contractor the Firm Hourly Rates specified under this annex item 6.1 plus an overtime premium thereon of:

6.2.1 Overtime premium (Monday to Friday)					
6.2.2 Expected Overtime Workload	Hrs	20000	\$		\$

6.3 Outside normal business (Saturday and Sunday):

When authorized, Canada shall pay the Contractor the Firm Hourly Rates specified under this annex item 6.1 plus an overtime premium thereon of:

6.3.1 Overtime premium (Saturday and Sunday)					
6.3.2 Expected Overtime Workload	Hrs	20000	\$		\$

7.0 ISS-OWSS Recommended Support Equipment: (Annex CA SOW para. 4.2.2)

The Support Equipment performance shall comply with all the technical requirements of the ISS Acquisition Contract (ISS-A). The Support Equipment must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance and support services for a minimum period of one (1) year.
For the supply of Support Equipment on an if, as, and when requested basis, upon delivery and acceptance, excluding delivery charges, Canada shall pay the Contractor as follows:

7.1 When the ISS-OWSS support equipment is listed in this annex's appendix 2, the contractor shall be paid the Firm Unit Prices as per that appendix.

7.2 When the ISS-OWSS support equipment is not listed in the annex's appendix 2, the Firm Unit Price is to be negotiated in accordance with Contract articles 6.7 and 6.8, and will be actual cost plus a firm mark-up thereon of

7.2.1 Contractor Manufactured Parts (CMP)	\$	\$875,000.00	%		\$
7.2.2 Contractor Acquired Parts (CAP)	\$	\$875,000.00	%		\$

8.0 ISS-OWSS Consumable and Bulk Items (CBI): (Annex CA SOW para. 4.2.2)

The CBI performance shall comply with all the technical requirements of the ISS-A. The CBI must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance and support services for a minimum period of one (1) year.

For the supply of Consumable and Bulk Items on an if, as, and when requested basis, upon delivery and acceptance, excluding delivery charges, Canada shall pay the Contractor as follows:

8.1 When the ISS-OWSS Consumable and Bulk Items is listed in this annex's appendix 2, the contractor shall be paid the Firm Unit Prices as per that appendix.

8.2 When the ISS-OWSS Consumable and Bulk Items is not listed in the annex's appendix 2, its Firm Unit Price is to be negotiated in accordance with Contract articles 6.7 and 6.8, and will be actual cost plus a firm mark-up thereon of

8.2.1 Contractor Manufactured Parts (CMP)	\$	\$680,000.00	%		\$
8.2.2 Contractor Acquired Parts (CAP)	\$	\$680,000.00	%		\$

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9.0 ISS-OWSS Provisioning of ISS Spare Parts: (Annex CA SOW para. 4.2.2)

The ISS Spare Parts performance shall comply with all the technical requirements of this contract. The ISS Spare Parts must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance and support services for a minimum period of one (1) year.

For the supply of ISS Spare Parts on an if, as, and when requested basis, upon delivery and acceptance, excluding delivery charges, Canada shall pay the Contractor as follow:

Note: The SOW referenced in items 9.1 to 9.4 is the ISS-A SOW and not the ISS-OWSS SOW.

9.1 Main Equipment: (ISS-A Annex CA SOW (ISS-A SOW) para. 3.3.1.1.0-6)

9.1.1 Integrated Soldier System - Electronics Suite (ISS-ES) (ISS-A SOW para. 3.3.1.1.0-6.0-1)

9.1.1.1		Each	1680	\$	
9.1.1.2		Each	1680	\$	
9.1.1.3		Each	1680	\$	
9.1.1.4		Each	1680	\$	
9.1.1.5		Each	1680	\$	
9.1.1.6		Each	1680	\$	
9.1.1.7		Each	1680	\$	
9.1.1.8		Each	1680	\$	
9.1.1.9		Each	1680	\$	
9.1.1.10		Each	1680	\$	
9.1.1.11		Each	1680	\$	
9.1.1.12		Each	1680	\$	
9.1.1.13		Each	1680	\$	
9.1.1.14		Each	1680	\$	
9.1.1.15		Each	1680	\$	
9.1.1.16		Each	1680	\$	
9.1.1.17		Each	1680	\$	
9.1.1.18		Each	1680	\$	
9.1.1.19		Each	1680	\$	
9.1.1.20		Each	1680	\$	

9.1.2 Universal Canophone Set (ISS-A SOW para. 3.3.1.1.0-6.0-3)

Each	1680	\$	
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191	9.1.3	ISS Battery Sets: (ISS-A SOW para. 3.3.1.1.0-6.0-5)					
192	9.1.3.1	ISS Rechargeable Battery Set (SOW para. 3.3.1.1.0-6.0-5.0-2)	Each	1680			
193	9.1.3.1.1	(Power Domain 1) Rechargeable Battery Set:					
194	9.1.3.1.1.1	Power Domain Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-4)					
195	9.1.3.1.1.1.1	Battery (Type)	Each	—	\$	—	\$ —
196	9.1.3.1.1.1.2	Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)	Each	—	\$	—	\$ —
197	9.1.3.1.1.2	Quantity of Power Domain Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-5)	Each	—			
198							
199	9.1.3.1.2	(Power Domain 2) Rechargeable Battery Set:					
200	9.1.3.1.2.1	Power Domain Rechargeable Battery Pack:					
201	9.1.3.1.2.1.1	Battery (Type)	Each	—	\$	—	\$ —
202	9.1.3.1.2.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$ —
203	9.1.3.1.2.2	Quantity of Power Domain Rechargeable Battery Pack	Each	—			
204							
205	9.1.3.1.3	(Power Domain 3) Rechargeable Battery Set:					
206	9.1.3.1.3.1	Power Domain Rechargeable Battery Pack:					
207	9.1.3.1.3.1.1	Battery (Type)	Each	—	\$	—	\$ —
208	9.1.3.1.3.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$ —
209	9.1.3.1.3.2	Quantity of Power Domain Rechargeable Battery Pack	Each	—			
210							
211	9.1.3.1.4	(Power Domain 4) Rechargeable Battery Set:					
212	9.1.3.1.4.1	Power Domain Rechargeable Battery Pack:					
213	9.1.3.1.4.1.1	Battery (Type)	Each	—	\$	—	\$ —
214	9.1.3.1.4.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$ —
215	9.1.3.1.4.2	Quantity of Power Domain Rechargeable Battery Pack	Each	—			
216							
217	9.1.3.1.5	(Power Domain 5) Rechargeable Battery Set:					
218	9.1.3.1.5.1	Power Domain Rechargeable Battery Pack:					
219	9.1.3.1.5.1.1	Battery (Type)	Each	—	\$	—	\$ —
220	9.1.3.1.5.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$ —
221	9.1.3.1.5.2	Quantity of Power Domain Rechargeable Battery Pack	Each	—			

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223	9.1.3.2	ISS Non-Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-1)	Each	6800		
224	9.1.3.2.1	(Power Domain 1) Non-Rechargeable Battery Set:				
225	9.1.3.2.1.1	Power Domain Non-Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-2)				
226	9.1.3.2.1.1.1	Battery (Type)	Each	—	\$	
227	9.1.3.2.1.1.2	Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)	Each	—	\$	
228	9.1.3.2.1.2	Quantity of Power Domain Non-Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-3)	Each	—		
229	9.1.3.2.2	(Power Domain 2) Non-Rechargeable Battery Set:				
230	9.1.3.2.2.1	Power Domain Non-Rechargeable Battery Pack:				
231	9.1.3.2.2.1.1	Battery (Type)	Each	—	\$	
232	9.1.3.2.2.1.2	Battery Loading/Storage Device	Each	—	\$	
233	9.1.3.2.2.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—		
234	9.1.3.2.3	(Power Domain 3) Non-Rechargeable Battery Set:				
235	9.1.3.2.3.1	Power Domain Non-Rechargeable Battery Pack:				
236	9.1.3.2.3.1.1	Battery (Type)	Each	—	\$	
237	9.1.3.2.3.1.2	Battery Loading/Storage Device	Each	—	\$	
238	9.1.3.2.3.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—		
239	9.1.3.2.4	(Power Domain 4) Non-Rechargeable Battery Set:				
240	9.1.3.2.4.1	Power Domain Non-Rechargeable Battery Pack:				
241	9.1.3.2.4.1.1	Battery (Type)	Each	—	\$	
242	9.1.3.2.4.1.2	Battery Loading/Storage Device	Each	—	\$	
243	9.1.3.2.4.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—		
244	9.1.3.2.5	(Power Domain 5) Non-Rechargeable Battery Set:				
245	9.1.3.2.5.1	Power Domain Non-Rechargeable Battery Pack:				
246	9.1.3.2.5.1.1	Battery (Type)	Each	—	\$	
247	9.1.3.2.5.1.2	Battery Loading/Storage Device	Each	—	\$	
248	9.1.3.2.5.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—		
249	9.1.4	Modular Load Carriage System (MLCS): (ISS-A SOW para. 3.3.1.1.0-6.0-7)				
250	9.1.4.1	MLCS Platform (Small size) (ISS-A SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	1531	\$	
251	9.1.4.2	MLCS Platform (Medium size) (ISS-A SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	653	\$	
252	9.1.4.3	MLCS ISS Pouch Set: (ISS-A SOW para. 3.3.1.1.0-6.0-7.0-2)				
253	9.1.4.3.1		Each	1680	\$	
254	9.1.4.3.2		Each	1680	\$	
255	9.1.4.3.3		Each	1680	\$	
256	9.1.4.3.4		Each	1680	\$	
257	9.1.4.3.5		Each	1680	\$	
258	9.1.4.3.6		Each	1680	\$	
259	9.1.4.3.7		Each	1680	\$	
260	9.1.4.3.8		Each	1680	\$	
261	9.1.4.3.9		Each	1680	\$	
262	9.1.4.3.10		Each	1680	\$	

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267	9.2	Accessory Items: (ISS-A SOW para. 3.3.1.1.0-7)					
268	9.2.1	DAGR Interface Cable (ISS-A SOW para. 3.3.1.1.0-7.0-1)	Each	348	\$		\$
269	9.2.2	CORAL-CR-C Interface Cable (ISS-A SOW para. 3.3.1.1.0-7.0-2)	Each	108	\$		\$
270	9.2.3	LCSS Radio Interface Cable Set (ISS-A SOW para. 3.3.1.1.0-7.0-3)					
271	9.2.3.1		Each	348	\$		\$
272	9.2.3.2		Each	348	\$		\$
273	9.2.3.3		Each	348	\$		\$
274	9.2.3.4		Each	348	\$		\$
275	9.2.3.5		Each	348	\$		\$
276	9.2.3.6		Each	348	\$		\$
277	9.2.3.7		Each	348	\$		\$
278	9.2.3.8		Each	348	\$		\$
279	9.2.3.9		Each	348	\$		\$
280	9.2.3.10		Each	348	\$		\$
281	9.3	Technical documentation: (ISS-A SOW para. 3.3.1.1.0-8.0-1)					
282		(NOT APPLICABLE)					
283	9.4	Support Equipment: (ISS-A SOW para. 3.3.1.1.0-8.0-2)					
284	9.4.1	Recommended Support Equipment: (ISS-A SOW para. 3.3.1.1.0-8.0-2.0-1)					
285		(NOT APPLICABLE)					
286	9.4.2	System Executive Planning Suite (SEP-S) software (ISS-A SOW para. 3.3.1.1.0-8.0-2.0-2)					
287		(NOT APPLICABLE)					
288	9.4.3	Battle Management System (BMS) software on CF Laptop (ISS-A SOW para. 3.3.1.1.0-8.0-2.0-3)					
289		(NOT APPLICABLE)					
290	9.4.4	Battery Charger Set: (ISS-A SOW para. 3.3.1.1.0-8.0-2.0-4)					
291		For the purchase of Battery chargers to support a block of 1680 ISS-ES as per the definitions of "Battery Charger Set" provided in paragraph 3.3.1.1.0-8.0-2.0-4 to ISS-A SOW, the ancillaries being broke down as per the following:					
292	9.4.4.1		Each	—	\$		\$
293	9.4.4.2		Each	—	\$		\$
294	9.4.4.3		Each	—	\$		\$
295	9.4.4.4		Each	—	\$		\$
296	9.4.4.5		Each	—	\$		\$
297	9.4.4.6		Each	—	\$		\$
298	9.4.4.7		Each	—	\$		\$
299	9.4.4.8		Each	—	\$		\$
300	9.4.4.9		Each	—	\$		\$
301	9.4.4.10		Each	—	\$		\$
302	9.5						
		When an ISS-OWSS ISS Spare Part is to be added to this annex's appendix 2, its Firm Unit Price is to be negotiated in accordance with Contract articles 6.7 and 6.8 and will be actual cost plus a firm mark-up thereon of					
303	9.5.1	Contractor Manufactured Parts	\$	\$2,500,000.00	%		\$
304	9.5.2	Contractor Acquired Parts	\$	\$2,500,000.00	%		\$

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307
308

10.0 Substitution and alternative:

For the supply of substitution or alternative to an existing product listed in the Contract during the Contract period in accordance with the Contract article 24, Firm Unit Prices To Be Negotiated (TBN) post contract award. Post contract award price negotiation will be governed by the following:

309
310
311
312

10.1 Firm Unit Prices TBN in accordance with Contract article 6.7 and 24.

313
314

11.0 Spare Parts Orders (SPO):

SPOs DESCRIPTION:

315
316

11.1 For the supply of Spare Parts as detailed under Attachment TBD to Appendix 3 to Annex AB, Canada shall pay The order date is TBD. All deliverables must be delivered on or before TBD.

318
319

11.2 To Be Determined (TBD);

320
321

12.0 Custom Canaphone Set: (SOW para. 4.3.2.0-4)

For the supply of Custom Canaphone Set, on an if, as, and when requested basis, Travel and Living Expenses excluded, Canada shall pay the Contractor as specified herein:

323
324

12.1 For the provision of on the field Audiologist/Technologist services, the Contractor shall be paid a Firm Hourly Rate thereon of

Hrs

5200

\$

\$

326
327

12.2 For the provision of Custom Canaphone Set, the Contractor shall be paid a Firm Unit Price per set thereon of

Each

2512

\$

\$

328
329

13.0 Travel and Living (T&L) expenses:

When Authorized - The Contractor will be reimbursed its travel and living expenses reasonably and properly incurred in the performance of Work outside the scope of the annex CA SOW, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the Treasury Board Travel Directive (http://www.tbs-sct.gc.ca/pubs_pol/hrpubs/TBM_113/td-dv_e.asp), and with the other provisions of the directive referring to "travellers", rather than those referring to "employees". All travel must have the prior authorization of the Contracting Authority. All payments are subject to government audit. The estimated cost is:

332
333

\$

\$50,000.00

\$50,000.00

334
335

14.0 ISS-OWSS WORK TOTAL BID PRICE

\$

336
337

GSTE/HSTE = Goods and Services Tax or the Harmonized Sales Tax excluded

GSTE/HSTE

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APPENDIX 1 TO ANNEX AB to Volume 3

ISS-OWSS FINANCIAL BID PRESENTATION SHEET

(Claim for Exchange Rate Adjustments)

(This Appendix begins on the next page)

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ANNEX AB to Volume 3
ISS-OWSS FINANCIAL BID PRESENTATION SHEET
APPENDIX 1 (Claim for Exchange Rate Adjustments)

Line No.	ITEM'S DESCRIPTIONS	Column D1	Column D2	Column D3	Column D4	Column D5	Column E	Column F	Column G1	Column G2	Column G3	Column G4	Column G5	Column B1	Column B2	Column B3	Column B4	Column B5
		(Year 1)	(Year 2)	(Year 3)	(Year 4)	(Year 5)	Currency	Conversion Factor (Initial)	(Year 1)	(Year 2)	(Year 3)	(Year 4)	(Year 5)	(Year 1)	(Year 2)	(Year 3)	(Year 4)	(Year 5)
1	9.0 ISS-OWSS Provisioning of ISS Spare Parts:																	
2																		
3	9.1 Main Equipment:																	
4	9.1.1 Integrated Soldier System - Electronics Suite (ISS-ES)																	
5	9.1.1.1 (ISS-ES Line-Replaceable Unit (LRU) 1)																	
6	a) Canadian Currency Component (CCC)	\$1.00					CAD	1.00	\$1.00									\$5.19
7	b) Foreign Currency Components (FCC):																	
8	i) US dollars	\$1.00					USD	1.0199	\$1.02									
9	ii) European Euro	€ 1.00					EUR	1.2631	\$1.26									
10	iii) U.K. pound sterling	£1.00					GBP	1.6290	\$1.63									
11	iv) Israeli new shekel	ILS 1.00					ILS	0.28	\$0.28									
12	9.1.1.1x (ISS-ES LRU x)																	
13																		
14	9.1.2 Universal Canaphone Set																	\$5.19
15	a) Canadian Currency Component (CCC)	\$1.00					CAD	1.00	\$1.00									
16	b) Foreign Currency Components (FCC):																	
17	i) US dollars	\$1.00					USD	1.0199	\$1.02									
18	ii) European Euro	€ 1.00					EUR	1.2631	\$1.26									
19	iii) U.K. pound sterling	£1.00					GBP	1.6290	\$1.63									
20	iv) Israeli new shekel	ILS 1.00					ILS	0.28	\$0.28									
21	9.1.3 ISS Battery Sets:																	
22	9.1.3.1 ISS Rechargeable Battery Set:																	
23	9.1.3.1.1 (Power Domain 1) Rechargeable Battery Set:																	
24	9.1.3.1.1.1 Power Domain Rechargeable Battery Pack:																	
25	9.1.3.1.1.1.1 Battery (Type)																	\$5.19
26	a) Canadian Currency Component (CCC)	\$1.00					CAD	1.00	\$1.00									
27	b) Foreign Currency Components (FCC):																	
28	i) US dollars	\$1.00					USD	1.0199	\$1.02									
29	ii) European Euro	€ 1.00					EUR	1.2631	\$1.26									
30	iii) U.K. pound sterling	£1.00					GBP	1.6290	\$1.63									
31	iv) Israeli new shekel	ILS 1.00					ILS	0.28	\$0.28									
32	9.1.3.1.1.1.2 Battery Loading/Storage Device																	\$5.19
33	a) Canadian Currency Component (CCC)	\$1.00					CAD	1.00	\$1.00									
34	b) Foreign Currency Components (FCC):																	
35	i) US dollars	\$1.00					USD	1.0199	\$1.02									
36	ii) European Euro	€ 1.00					EUR	1.2631	\$1.26									
37	iii) U.K. pound sterling	£1.00					GBP	1.6290	\$1.63									
38	iv) Israeli new shekel	ILS 1.00					ILS	0.28	\$0.28									
39	9.1.3.1.x (Power Domain x) Rechargeable Battery Set:																	
40	...																	
41	9.1.3.2 ISS Non-Rechargeable Battery Set:																	
42	...																	
43	9.1.4 ETC...																	

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Annex AC to Volume 3

Security Requirement Check List (SRCL);



Government
of Canada

Gouvernement
du Canada

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Security Classification / Classification de sécurité
UNCLASS

SECURITY REQUIREMENTS CHECK LIST (SRCL) LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)

PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE		
1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine	2. Branch or Directorate / Direction générale ou Direction ADM(MAT/DGLEPM/DSSPM)	
3. a) Subcontract Number / Numéro du contrat de sous-traitance	3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant	
4. Brief Description of Work / Brève description du travail Under the subject contract, the Contractor will be required to perform the Optimized Weapons System Support (OWSS) services for qty 1600 to 10000 Integrated Soldier Systems. The OWSS contract will include provision of Integrated Logistic Support (ILS) services such as training, Repair and Overhaul and technical investigation. The OWSS contract will also include product improvement activities with incremental design and implementation of additional capability and capacity to the initial ISS-S basic configuration provided under the Acquisition contract.		
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
6. Indicate the type of access required / Indiquer le type d'accès requis		
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c)	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé.	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
6. c) Is this a commercial courier or delivery requirement with no overnight storage? S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès		
Canada <input checked="" type="checkbox"/>	NATO / OTAN <input checked="" type="checkbox"/>	Foreign / Étranger <input checked="" type="checkbox"/>
7. b) Release restrictions / Restrictions relatives à la diffusion		
No release restrictions Aucune restriction relative à la diffusion <input checked="" type="checkbox"/>	All NATO countries Tous les pays de l'OTAN <input checked="" type="checkbox"/>	No release restrictions Aucune restriction relative à la diffusion <input checked="" type="checkbox"/>
Not releasable À ne pas diffuser <input checked="" type="checkbox"/>	Restricted to: / Limité à: <input type="checkbox"/>	Restricted to: / Limité à: <input type="checkbox"/>
Specify country(ies): / Préciser le(s) pays: Canada and USA	Specify country(ies): / Préciser le(s) pays:	Specify country(ies): / Préciser le(s) pays:
7. c) Level of information / Niveau d'information		
PROTECTED A PROTÉGÉ A <input checked="" type="checkbox"/>	NATO UNCLASSIFIED NATO NON CLASSIFIÉ <input checked="" type="checkbox"/>	PROTECTED A PROTÉGÉ A <input checked="" type="checkbox"/>
PROTECTED B PROTÉGÉ B <input checked="" type="checkbox"/>	NATO RESTRICTED NATO DIFFUSION RESTREINTE <input type="checkbox"/>	PROTECTED B PROTÉGÉ B <input checked="" type="checkbox"/>
PROTECTED C PROTÉGÉ C <input type="checkbox"/>	NATO CONFIDENTIAL NATO CONFIDENTIEL <input type="checkbox"/>	PROTECTED C PROTÉGÉ C <input type="checkbox"/>
CONFIDENTIAL CONFIDENTIEL <input checked="" type="checkbox"/>	NATO SECRET NATO SECRET <input type="checkbox"/>	CONFIDENTIAL CONFIDENTIEL <input checked="" type="checkbox"/>
SECRET SECRET <input checked="" type="checkbox"/>	COSMIC TOP SECRET COSMIC TRÈS SECRET <input type="checkbox"/>	SECRET SECRET <input checked="" type="checkbox"/>
TOP SECRET TRÈS SECRET <input type="checkbox"/>		TOP SECRET TRÈS SECRET <input type="checkbox"/>
TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) <input type="checkbox"/>		TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) <input type="checkbox"/>

TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité
UNCLASS

Canada

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PART A (continued) / PARTIE A (suite)	
8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets? Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS? If Yes, indicate the level of sensitivity. Dans l'affirmative, indiquer le niveau de sensibilité : Secret	<input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui
9. Will the supplier require access to extremely sensitive INFOSEC information or assets? Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate?	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
Short Title(s) of material / Titre(s) abrégé(s) du matériel : Document Number / Numéro du document :	
PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)	
10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis	
<input type="checkbox"/> RELIABILITY STATUS COTE DE FIABILITE <input type="checkbox"/> TOP SECRET - SIGINT TRÈS SECRET - SIGINT <input type="checkbox"/> SITE ACCESS ACCÈS AUX EMPLACEMENTS	<input type="checkbox"/> CONFIDENTIAL CONFIDENTIEL <input type="checkbox"/> NATO CONFIDENTIAL NATO CONFIDENTIEL <input checked="" type="checkbox"/> SECRET SECRET <input type="checkbox"/> NATO SECRET NATO SECRET <input type="checkbox"/> TOP SECRET TRÈS SECRET <input type="checkbox"/> COSMIC TOP SECRET COSMIC TRÈS SECRET
Special comments: Commentaires spéciaux :	
NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided. REMARQUE : Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.	
10. b) May unscreened personnel be used for portions of the work? Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail? If Yes, will unscreened personnel be escorted? Dans l'affirmative, le personnel en question sera-t-il escorté?	<input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui <input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui
PART C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)	
INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS	
11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises? Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS?	<input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui
11. b) Will the supplier be required to safeguard COMSEC information or assets? Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC?	<input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui
PRODUCTION	
11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises? Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ?	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)	
11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data? Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS?	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency? Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale?	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui

TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité
UNCLASS

Canada

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du Canada

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PART C - (continued) / PARTIE C - (suite)

For users completing the form manually use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.
Les utilisateurs qui remplissent le formulaire manuellement doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form online (via the Internet), the summary chart is automatically populated by your responses to previous questions.
Dans le cas des utilisateurs qui remplissent le formulaire en ligne (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

SUMMARY CHART / TABLEAU RÉCAPITULATIF

Category Catégorie	PROTECTED PROTÉGÉ			CLASSIFIED CLASSIFIÉ			NATO				COMSEC					
	A	B	C	CONFIDENTIAL CONFIDENTIEL	SECRET	TOP SECRET TRÈS SECRET	NATO RESTRICTED NATO DIFFUSION RESTREINTE	NATO CONFIDENTIAL NATO CONFIDENTIEL	NATO SECRET	COMSEC TOP SECRET COSMIC TRÈS SECRET	PROTECTED PROTÉGÉ			CONFIDENTIAL CONFIDENTIEL	SECRET	TOP SECRET TRÈS SECRET
											A	B	C			
Information / Assets Renseignements / Biens Production					✓										✓	
IT Media / Support IT																
IT Link / Lien électronique																

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?
La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?

☒ No
Non

☐ Yes
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire.

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?
La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?

☒ No
Non

☐ Yes
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquer qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).

ANNEX AD to Volume 3

NON-DISCLOSURE AGREEMENT

INTEGRATED SOLDIER SYSTEM PROJECT (ISSP)

This Agreement made in duplicate this _____ day of _____ 201__.

(Day number)

(Month)

(Year)

BETWEEN Her Majesty the Queen in Right of Canada as Represented by the Minister of Public Works and Government Services (the "Crown")

AND _____ receiving the unclassified
(Full legal name of organization in print)
information as constituted pursuant to the laws of _____ and having a
(Insert laws in print)
place of business at _____ (the "Recipient").
(Complete address in print)

Whereas the Crown has issued a Contract No. W8476-112965/002/RA, to provide Optimized Weapon System Support (OWSS) for the Integrated Soldier Systems;

Whereas in accordance with the provisions of the Contract the Crown has provided for the disclosure of certain information listed in the Appendix 1 of this Non-Disclosure Agreement ("Information"); and

Whereas the Recipient wishes to receive the Information solely for the purpose of executing the Contract;

Therefore, in consideration of the premises and the mutual promises, conditions and agreements of this Agreement the Parties hereto agree as follows:

1. Subject to the terms and conditions of this Agreement the Crown agrees to disclose the Information to the Recipient on an as requested basis.
2. The Recipient agrees that it shall use the Information solely for the purpose of executing the Contract and for no other purpose.
3. The Recipient acknowledges that the Information may be subject to certain proprietary rights belonging to various parties and shall not be used by the Recipient or disclosed to anyone at anytime except for the purposes of, and in accordance with, this Agreement and for no other purpose and shall ensure that its personnel do likewise.

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4. The Recipient shall not disclose the Information to anyone unless and until the proposed recipient has signed an agreement in terms identical to this Agreement with the necessary changes to reflect names, addresses, offices and the like. Such disclosure shall be made only to a recipient with a need to know and solely for the purposes of executing the Contract.
5. The Recipient shall not copy, reproduce or otherwise duplicate the Information or any information reflecting the Information in whole or in part or allow others to do so for any purposes other than the execution of the Contract unless the Crown has given its express, prior, written approval.
6. Whether in storage or in use, the information shall be protected by the Recipient with the same degree of care as the Recipient uses to protect its own proprietary intellectual property of like importance against public disclosure, but in no case any less than reasonable care.
7. The Recipient shall return the Information when it is no longer required for the execution of the Contract, when required by the Crown to do so. In like fashion the Recipient shall return any copies it may have been allowed to make which are in a media that is capable of being sent following expiration of the Contract, shall destroy any other copies or any information reflecting the Information on any media whatsoever, and shall ensure that anyone to whom the Information has been divulged do likewise.
8. The obligations herein contained shall survive the expiration of the Contract and shall continue thereafter in full force and effect.
9. This Agreement shall be interpreted, and the relationship of the parties be determined, in accordance with the laws in force in the province of _____ *(NOTE: Bidders may, at their discretion, choose the applicable laws of a Canadian province or territory of their choice)* in Canada.

IN WITNESS THEREOF, this Agreement has been executed by duly authorized officers of

(Name of Recipient in print)

(NOTE: Insert name of recipient in print)

Per: _____
(Name of duly authorized officer in print)

(Signature of duly authorized officer)

(Title of duly authorized officer in print)

(Date in print)

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ANNEX AD to Volume 3 (Cont'd)

NON-DISCLOSURE AGREEMENT

INTEGRATED SOLDIER SYSTEM PROJECT (ISSP)

Appendix 1

Applicable Document Reference Listing

<u>Item</u>	<u>Reference</u>	<u>Title</u>
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MODULE B

TO

VOLUME 3

ANNEX BA to Volume 3

Industrial and Regional Benefits (IRB) Contract

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1. Definitions

1.1. For the purpose of this Part, unless the context otherwise requires, the following definitions apply:

- 1.1.1. "Achieve", "Achieved", or "Achievement" in relation to any Commitment for Industrial and Regional Benefits (IRB), means the accomplishment of all or any part of an IRB Commitment;
- 1.1.2. "Achievement Period" or "IRB Achievement Period" means the period commencing on May 29, 2009 and ending with the end of this Contract;
- 1.1.3. "Banked IRB Transaction" means an IRB Transaction that resides in the IRB Bank that has been approved in writing by the IRB Authority and has met the IRB Eligibility Criteria of Causality, Incrementality, Canadian Content Value and Eligible Party;
- 1.1.4. "Canadian Company" or "Canadian Corporation" means a commercial enterprise that is resident and operating in Canada and incorporated, registered or recognized as such, under federal or provincial legislation and which has ongoing business activities in Canada;
- 1.1.5. "Canadian Content Value" or "CCV" is as described in Article 4, Canadian Content Value;
- 1.1.6. "Capitalization" means the total value of a company's issued shares plus the value associated with instruments which can be converted into shares. For publicly traded companies, this is equal to the total number of issued shares multiplied by the market price plus the equity portion of any derivative instrument according to Canadian Generally Accepted Accounting Principles. For privately held companies, this is equal to the total number of issued shares multiplied by the most recent price at which they were sold plus the equity portion of any derivative instrument according to Canadian Generally Accepted Accounting Principles;
- 1.1.7. "Causality" means the criteria of the IRB Policy which stipulates that a proposed work package or "IRB Transaction" was brought about by an IRB Obligation to Canada as set forth in Article 5, Eligibility Criteria for IRB Transactions;
- 1.1.8. "Commitment" or "IRB Commitment" means the Contractor's contractual obligation to achieve the CCV for IRB Transactions as set forth in Article 2, Statement of Work: IRB Commitments and Responsibilities;
- 1.1.9. "Consortium" or "Consortia" means a public-private partnership established with the intent of undertaking activities related to research and development, and which shall meet the criteria set out in Article 9, Investments made to Consortium;
- 1.1.10. "Designated Regions of Canada" means the following regions: the "Atlantic Region", consisting of the Provinces of Newfoundland and Labrador, Prince Edward Island, New Brunswick and Nova Scotia; the "Quebec Region", consisting of the Province of Quebec; the "Northern Ontario Region", consisting of that part of the Province of Ontario northward from the southern limits of Nipissing and Parry Sound Districts and west of the Ottawa River; and the "Western Region", consisting of the Provinces of Manitoba, Alberta, Saskatchewan, and British Columbia;
- 1.1.11. "Direct IRB Transaction", "Direct" or "Direct IRB" means an IRB Transaction that is entered into for the performance of any part of the Work under this Contract, and includes work on approved Global Value Chain (GVC) platforms as defined in Article 1.1.15;

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- 1.1.12. "Eligibility Criteria" means those criteria, as defined in Article 5, Eligibility Criteria for IRB Transactions, which a proposed IRB Transaction shall meet in order to be accepted by the IRB Authority;
- 1.1.13. "Eligible Party" means the provider of the IRB, and consists of: the contractor, its parent corporation, and all its subsidiaries, divisions and subdivisions; and first tier suppliers related to the performance of any part of the Work under this Contract. Canadian companies (including first-tier suppliers) with less than 500 employees will not be accepted as Eligible Parties unless otherwise approved by the IRB Authority.
- 1.1.14. "Enhanced Priority Technology List" or "EPTL" refers to the list attached as Appendix BA4 which identifies the technologies required by Canada that meet the long-term needs of the Department of National Defence
- 1.1.15. "Global Value Chain" means a platform which is similar to the platform being proposed for the Integrated Soldier System Project and has a market potential (measured by market size and longevity) equal to or greater than the platform proposed for the Integrated Soldier System Project and offers significant opportunities for technological advancement, growth in the level of system integration, small and medium-sized business (SMB) participation, and have large-scale and sustainable acquisition and/or sustainment opportunities.
- 1.1.16. "Import Replacement" refers to the production/manufacture of a good or the provision of a service in Canada that was formerly manufactured or provided from off-shore sources of supply;
- 1.1.17. "Incrementality" refers to the Eligibility Criteria outlined in Article 5.3, Eligibility Criteria for IRB Transactions which stipulates that an indirect IRB activity must include new work, over and above a baseline of similar previous business activity undertaken by the Contractor with the recipient;
- 1.1.18. "Indirect IRB Transaction", "Indirect", or "Indirect IRB" means an IRB Transaction that is entered into for a business activity unrelated to the performance of any part of the Work under this Contract;
- 1.1.19. "Industrial and Regional Benefit" or "IRB" or "IRB Transaction" means a commercial or business activity that is carried out by means of a contract, including any purchase order, sales agreement, license agreement, letter of agreement or other similar instrument in writing, that has an identified dollar value, meets the Eligibility Criteria set forth in this Contract and has been approved by the IRB Authority;
- 1.1.20. "IRB Authority" means the Minister of Industry or any other person designated by the Minister of Industry to act on the Minister's behalf. The IRB Authority is responsible for evaluating, monitoring, verifying and accepting IRB, and for assessing the Contractor's IRB performance under this Contract;
- 1.1.21. "IRB Credit" or "Credit" in relation to any IRB Commitment, means the Written Notice by the IRB Authority that an IRB has been achieved in whole or in part and that the Contractor's obligation has to that extent been fulfilled;
- 1.1.22. "IRB Investment" means an IRB Transaction which consists of an investment within Canada of a verifiable amount of money which fosters the production of goods or the performance of services by Canadian citizens or permanent residents as defined in the Immigration and

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Refugee Protection Act 2001, c.27, and which shall meet the criteria set forth in Article 7, Investment in Canada;

- 1.1.23. "IRB Plans" means the Contractor prepared IRB Plans which form part of this Contract: IRB Management Plan, dated **(to be inserted from Contractor's proposal)**, bearing reference number **(to be inserted from Contractor's proposal)**; IRB Regional Development Plan, dated **(to be inserted from Contractor's proposal)**, bearing reference number **(to be inserted from Contractor's proposal)**; and Small and Medium Business Development Plan, dated **(to be inserted from Contractor's proposal)**, bearing reference number **(to be inserted from Contractor's proposal)**;
- 1.1.24. "IRB Reporting Period" or "Reporting Period" means: Period 1, commencing on the first day of the IRB Achievement Period and ending on the last day of the twelfth month after the Effective Date of contract and a consecutive twelve month increment following Period 1 (Periods 2,3, etc) until the end of the IRB Achievement Period;
- 1.1.25. "Major Obligor" means a company which holds contractual commitments for IRB Obligations in Canada in excess of \$1 billion;
- 1.1.26. "Mutual Abatement" or "IRB swap" means a reduction of the Contractor's IRB Obligation in exchange for the reduction of a Canadian company's obligations to a foreign offset authority;
- 1.1.27. "Over-achievement" in relation to any IRB Commitment, means the degree or amount by which the Contractor's IRB Credit measured in terms of CCV, granted during the IRB Achievement Period for an IRB Transaction is greater than the IRB Commitment for that IRB Transaction;
- 1.1.28. "Pooling" refers to combining IRB Obligations so that an IRB credit achieved on a single IRB Transaction may be applied over several discrete IRB Obligations;
- 1.1.29. "Shortfall" in relation to any IRB Commitment, means the CCV amount by which the Contractor fails to achieve its Commitment in the IRB Reporting Periods;
- 1.1.30. "Small and Medium Business" or "SMB" means a Canadian-based, independently-owned and operated manufacturer or service company with fewer than 250 full-time personnel as of the date of entering into an eligible IRB Transaction. Agents and distributors of foreign goods and services as well as subsidiaries of large firms do not qualify as Small and Medium Business;
- 1.1.31. "Semi-processed Goods" means goods converted from their natural state of a raw material through the use of a specialized process into a state of readiness for use or assembly into a final product.
- 1.1.32. "Strategic Plan" means a document which describes the Contractor's broad corporate business development plans for Canada and how these plans may translate into strategic IRB activities, as set forth in Article 12, Strategic Plans;
- 1.1.33. "Technology Cooperation," "Technology and Skills Cooperation", "IRB Technology Cooperation" and "Technology Transfer" consists of the granting of a license, and the transmission of a usable body of knowledge to a Canadian company. Technology Cooperation has no imputed value based on development, but is measured in CCV of future sales resulting from the cooperation output by the IRB Recipient and shall meet the criteria set forth in Article 6, Technology and Skills Cooperation;

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- 1.1.34. "Venture Capital Fund" or "VCF" means a pooled group of investments directed at assisting the growth of Canadian Small Businesses and which is managed by a third party and which shall meet the criteria set forth in Article 8, Third Party Investments/Venture Capital Funds for Small Business;
- 1.1.35. "World Product Mandate" means a long term supplier relationship between the Contractor or an Eligible Party and a Canadian company whereby the Canadian company has been legally authorized to carry out and has sole responsibility for specific activities including the design, development, intellectual property, manufacture and marketing related to the supply of products, components, modules or services destined for the domestic and world markets. The CCV of the product is calculated as described in Article 19, World Product Mandate.

2. Statement of Work: IRB Commitments and Responsibilities

- 2.1. Through the implementation of the IRB Management Plan, the Regional Development Plan and the Small and Medium Business Development Plan detailed in Article 1.1.23, the Contractor shall by the end of the Achievement Period:
- 2.1.1. achieve \$ _____ **(to be inserted from Contractor's proposal - at least 100% of contract value)** in CCV as Direct and Indirect IRB Transactions as specified in the Contractor's proposal;
- 2.1.2. achieve \$ _____ **(to be inserted from Contractor's proposal)** in CCV as Direct IRB Transactions related to the Integrated Soldier System Project as specified in the Contractor's proposal;
- 2.1.3. achieve \$ _____ **(to be inserted from Contractor's proposal)** in CCV as Indirect IRB Transactions related to the Integrated Soldier System Project as specified in the Contractor's proposal;
- 2.1.4. achieve \$ _____ **(to be inserted from Contractor's proposal)** in CCV, as Direct and Indirect IRB Transactions in the regions of Canada, as specified in the Contractor's proposal, as follows:
- 2.1.4.1. Atlantic \$ _____ **(to be inserted from Contractor's proposal)**
- 2.1.4.2. Quebec \$ _____ **(to be inserted from Contractor's proposal)**
- 2.1.4.3. Northern Ontario \$ _____ **(to be inserted from Contractor's proposal)**
- 2.1.4.4. Ontario (excluding Northern Ontario) \$ _____ **(to be inserted from Contractor's proposal)**
- 2.1.4.5. West \$ _____ **(to be inserted from Contractor's proposal)**
- 2.1.4.6. Unallocated \$ _____ **(to be inserted from Contractor's proposal);**
- 2.1.5. achieve \$ _____ **(to be inserted from Contractor's proposal – at least 15% of contract value)** in CCV for Direct and Indirect Small and Medium Business Development IRB Transactions as specified in the Contractor's proposal;
- 2.1.6. achieve \$ *(to be inserted from Contractor's proposal – at least 5% of contract value)* in CCV, as

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Direct and Indirect IRB transactions as specified in Appendix BA1, in technology areas related to the Enhanced Priority Technology List (EPTL), attached as Appendix BA4;

- 2.1.7. carry out each and every IRB Transaction as per the IRB Transaction Sheets attached at Appendix BA1;
- 2.1.8. commits to Unallocated IRB valued at \$ _____ **(to be inserted from the Contractor's proposal)** and to achieving these within the IRB Achievement Period. As new and/or unallocated IRB Transactions are identified by the Contractor and approved by the IRB Authority, the Direct, Indirect, Regional and Small Business and EPTL IRB Commitments in Clauses 2.1.2, 2.1.3, 2.1.4, 2.1.5, and 2.1.6 will be adjusted as applicable;
- 2.1.9. shall submit to the IRB Authority, no later than one (1) year after the Effective Date of this Contract, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to a minimum of 60% of the contract value, measured in CCV;
- 2.1.10. shall submit to the IRB Authority, three (3) years after the Effective Date of this Contract, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV;
- 2.2. The Contractor shall submit to the IRB Authority, through the Contracting Authority, annual IRB Reports based on the performance achieved during the IRB Reporting Periods defined in this Contract. These reports shall be submitted sixty (60) calendar days after the end of the annual IRB Reporting Period.
 - 2.2.1. As evidence of the Contractor's achievement of IRB Commitments, the Contractor shall provide, appended to the Annual IRB Reports, a Certificate of Compliance, as set forth in Appendix BA2 to this Contract, signed by the senior company Comptroller in respect of each IRB Transaction for which there was activity in that IRB Reporting Period. This Certificate of Compliance also covers those IRB achievements of the Contractor's sub-contractors and/or its Eligible Parties.

3. IRB Reporting

- 3.1. Each annual IRB Report shall consist of four parts, as outlined in the following sub-paragraphs:
 - 3.1.1. part A: The CCV achieved in total since the beginning of the IRB Achievement Period for each of the Tables found at Appendix BA1;
 - 3.1.2. part B: The CCV achieved since the last Annual IRB Report for each of the Tables found at Appendix BA1;
 - 3.1.3. part C: For each IRB transaction being reported, describe any significant achievements, activities, delays or problems which could impact on the implementation of the IRB portion of the Contract and provide a plan of action to resolve any difficulties; and
 - 3.1.4. part D: A summary that includes:
 - 3.1.4.1. the total amount of progress payment requests or invoices submitted by the Contractor for Work completed since the Effective Date;

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- 3.1.4.2. a forecast of IRB achievements;
- 3.1.4.3. a description of Small and Medium Business development activities undertaken during the reporting period;
- 3.1.4.4. an explanation of any IRB Shortfall in achievement evident from the data in Part A, and a plan of action to resolve the problem;
- 3.1.4.5. a list of IRB Authority approved IRB Transactions which have been cancelled, terminated, added or substantially altered during the reporting period, the details of any requested changes, their status vis-a-vis contract amendment, and the reasons therefore;
- 3.1.4.6. a brief narrative describing, on an exception basis, any noteworthy developments with respect to Small and Medium Business; and
- 3.1.4.7. a description and explanation of any changes to the IRB Management Plan.

4. Canadian Content Value (CCV)

- 4.1. The CCV of any Direct and Indirect Transaction shall be determined by the Net Selling Price Method or the Cost Aggregate Method.
 - 4.1.1. Net Selling Price Method: A product which bears a substantiated selling price may have its CCV determined as follows:
 - 4.1.1.1. the Net Selling Price is that total selling price of the product, less the applicable customs duties, excise taxes and applicable GST, HST and all provincial sales taxes; and
 - 4.1.1.2. the CCV is the Net Selling Price less any costs incurred as set out in Clause 4.2.
 - 4.1.2. Cost Aggregate Method: for any product, service or activity which cannot be assigned a substantiated selling price, the CCV shall be the aggregate of the following:
 - 4.1.2.1. the cost of parts produced in Canada, and the cost of materials to the extent that they are of Canadian origin, that are incorporated in the equipment in the factory of the manufacturer in Canada, including parts or materials to the extent that the IRB Authority can verify that they are of Canadian origin and have been exported from Canada and subsequently imported into Canada as parts or finished goods;
 - 4.1.2.2. transportation costs, including insurance charges incurred in transporting parts and materials from a Canadian supplier or frontier port of entry to the factory of the manufacturer in Canada for incorporation in the equipment, to the extent that such costs are not included in the foregoing paragraph; and
 - 4.1.2.3. such part of the following costs, exclusive of GST, HST, all provincial sales taxes, excise taxes, royalties and license fees paid outside of Canada, as are reasonably attributable to the production or implementation of the equipment, service or activity:
 - 4.1.2.3.1. wages and salaries paid for direct and indirect production and non-production labour in Canada paid to Canadians or to permanent residents as defined in the

Immigration and Refugee Protection Act 2001, c.27;

- 4.1.2.3.2. materials used in the Work but not incorporated in the final products;
- 4.1.2.3.3. light, heat, power and water;
- 4.1.2.3.4. workers compensation, employment insurance and group insurance premiums, pension contributions and similar expenses incurred with respect to labour referred to above in sub-paragraph 4.1.2.3.1;
- 4.1.2.3.5. taxes on land and buildings in Canada;
- 4.1.2.3.6. fire and other insurance premiums relative to production inventories and the production plant and its equipment, paid to a company authorized by the laws of Canada or any province to carry on business in Canada or such province;
- 4.1.2.3.7. insurance purchased specifically from a company authorized by the laws of Canada or any province to carry on business in Canada or such province;
- 4.1.2.3.8. rent of factory or office premises paid to a registered owner in Canada;
- 4.1.2.3.9. maintenance and repairs to buildings, machinery and equipment used for production purposes that is executed in Canada;
- 4.1.2.3.10. tools, dies, jigs, fixtures and other similar plant equipment items of a non-permanent nature that have been designed, developed or manufactured in Canada;
- 4.1.2.3.11. engineering and professional services, experimental work and product or process development work executed and completed in Canada;
- 4.1.2.3.12. pertinent miscellaneous factory and office expenses, such as administrative and general expenses, including profits earned in Canada, depreciation with respect to production machinery and permanent plant equipment and the installation costs of such machinery and equipment; and a capital allowance not exceeding five per cent of the total capital outlay incurred for buildings in Canada owned by the producer of the work;
- 4.1.2.3.13. fees paid for services not elsewhere specified; and
- 4.1.2.3.14. pre-tax net profit upon which Canadian taxes are paid or are payable.

4.2. Costs or Business Activities that are ineligible for IRB Credit:

- 4.2.1. the value of materials, labour and services imported into Canada;
- 4.2.2. in the case of Indirect IRB, the value of raw materials and semi-processed goods exported from Canada;
- 4.2.3. the value of any living, relocation costs and remuneration paid for work on the Project;
- 4.2.4. the amount of all Canadian Excise Taxes, Import Duties, Federal and Provincial Sales Taxes,

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Goods and Services Taxes, Harmonized Sales Taxes and other Canadian duties;

- 4.2.5. the value of goods and services with respect to which credit has been received or is being claimed by the Contractor or its Eligible Parties as an IRB to Canada under any other IRB agreement;
- 4.2.6. any proposal or bid preparations costs;
- 4.2.7. all transportation costs not covered under Clause 4.1.2.2;
- 4.2.8. obligations of the Federal Government e.g. government furnished equipment;
- 4.2.9. licence fees paid by the Canadian IRB recipient and any on-going royalty payments;
- 4.2.10. IRB Transactions claimed by a Contractor that pertain to its influence or that of one of its Eligible Parties over their own country's Purchasing Agent/Department or the Purchasing Agent/Department of another country;
- 4.2.11. interest costs associated with Letters of Credit or other financial instruments to support IRB Investments; and
- 4.2.12. fees paid to third-party consultants or agents for work related to gaining IRB Credit against this Contract. This includes, but is not limited to, providing advice on the IRB Policy, preparation of IRB transactions and/or reports, representing the interests of the Contractor to the IRB Authority, and/or searching for potential recipient firms.

5. Eligibility Criteria for IRB Transactions

General: Wherever possible, the IRB Authority will confirm IRB eligibility prior to a proposed IRB Transaction being accepted into the contract.

- 5.1.1 The IRB Authority reserves the right to validate IRB eligibility for any or all IRB Transactions identified in Appendix BA1 within one year of Contract Award. The IRB Authority shall submit to the Contractor within one year of Contract Award a written notice of the IRB Transactions that the IRB Authority wishes to validate. Once the request is made, the Contractor shall have 60 calendar days to submit a package in support of their IRB eligibility claims.
 - 5.1.2 Should the Contractor be unable to satisfy the IRB Authority that the IRB Transaction has met the Eligibility Criteria, future IRB Credits will not be granted and a substitute IRB Transaction will be sought from the Contractor.
 - 5.1.3 Contractors should note that all IRB transactions are subject to annual reporting and verification before IRB credits are confirmed. Should new information arise during verification that seriously calls in to question the eligibility of an IRB Transaction, the IRB Authority will review and investigate as soon as possible.
- 5.2 Causality** - each IRB Transaction shall be one which was clearly and demonstrably brought about by either the Contractor or one of the Contractor's Eligible Parties as a result of a current or anticipated IRB Obligation to Canada. It shall not be one which probably would have been entered into if an IRB obligation had not existed. Causality may be demonstrated to a specific project or more broadly to a company's IRB obligation in general.

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- 5.2.1 The responsibility for demonstrating Causality lies with the Contractor or its Eligible Party, not the IRB recipient.
- 5.2.2 Given the large volume of defence procurements, Contractors and their Eligible Parties are often engaged in IRB planning and execution on several projects with IRB obligations. Therefore, causality may be demonstrated to a specific project or more broadly to a company's IRB obligations in general.
- 5.2.2.1 The Contractor or its Eligible Party must demonstrate causality beyond generic statements on the transaction sheet. They should provide a clear statement on Causality, which outlines the details involved in their decision about a procurement or investment activity.
- 5.2.2.2 As IRB activities should make good business sense to the Contractor or Eligible Party, the causality provision does not require that the IRB obligation be a company's only decision-making factor. However, the Contractor or its Eligible Party must show the link between Canada's IRB Policy and their decisions related to the IRB activity.
- 5.2.2.3 As further demonstration of Causality to this Contract, the IRB Authority's written approval for a proposed IRB Transaction shall be obtained prior to the Contractor, on behalf of itself, its Eligible Parties and Canadian recipients, making public announcement, media or press releases related to the proposed business activities. Failure to do so may result in the rejection of the business activity as an IRB under the Contract.
- 5.2.3 The Contractor or its Eligible Parties must provide clear evidence of causality. Failure to provide sufficient evidence of causality will result in the ineligibility of the IRB Transaction.
- 5.2.3.1 Evidence of Causality includes a history of events in the development of an IRB Transaction and any supporting written documentation. Contractors or its Eligible Party should provide as much detailed supporting documentation as possible at the time of the IRB Transaction submission that supports the statement on Causality. This documentation may include but not be limited to: internal emails, official correspondence, meeting notes, corporate presentations, etc. The IRB Authority seeks documentary evidence that links decisions regarding the IRB transaction to the donor's IRB obligation.
- 5.3 Timing** - IRB Transactions shall be implemented within the Achievement Period. IRB Transactions or substitute IRB Transactions identified after the Effective Date will only be accepted provided the activity meets the IRB Eligibility Criteria and does not occur prior to the date of identification of the IRB Transaction.
- 5.4 Incrementality** - where an Indirect IRB Transaction is for the purchase of goods or services from a Canadian source, and such goods and services are similar to those that the purchaser had acquired in Canada prior to the date of identification of the IRB Transaction:
- 5.4.1 The CCV of the IRB Transaction shall be determined only with respect to the increase that the IRB Transaction will provide over the average amount of orders placed by that purchaser for those goods or services from the Canadian source during the three years preceding the date of identification of the IRB Transaction.
- 5.1. **Eligible Party** - IRB Transactions shall be undertaken by an Eligible Party as defined in this Contract. In any case, the Contractor shall be 100% responsible for IRB Commitments, regardless of flow down to Eligible Parties. A list of approved Eligible Parties for the Integrated Soldier Systems Project Contract is found in Article 32.

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6. Technology and Skills Cooperation

- 6.1. In order to qualify as a technology and skills cooperation IRB Transaction, the activity shall meet the following criteria:
 - 6.1.1. technology shall be in a form that is sufficiently complete to allow the Canadian recipient to apply the knowledge to existing or new products or processes;
 - 6.1.2. technology shall be proprietary, current and equivalent to or better than that used on the ISS Project;
 - 6.1.3. all required licenses or permits to facilitate the sale of products/services domestically or for export shall be included;
 - 6.1.4. the transferor shall make available all engineering and technical advice and assistance required to exploit and keep current the transferred technology and all related information (drawings, methods of application, etc.);
 - 6.1.5. the Canadian company shall have access to domestic and foreign markets and have the resources to exploit the technology in these markets;
 - 6.1.6. the technology shall be exploitable in terms of the capability (financial and technical) of the Canadian company to use and keep it current;
 - 6.1.7. the Contractor shall make available, upon request by the IRB Authority, the licensing agreement with the Canadian recipient. Failure to do so will result in the technology and skills cooperation IRB Transaction being rejected.
- 6.2. The technology and skills cooperation shall be measured in Canadian Content Value of the future sales, export sales or import replacement, of goods or services by the Canadian company as a result of the technology and skills cooperation. In addition, the Contractor may be credited for reasonable costs incurred as a result of the technology and skills cooperation once the achievement in future sales surpasses the cost of the technology and skills cooperation. Reasonable costs incurred include:
 - 6.2.1. training costs;
 - 6.2.2. set-up of infrastructure needed to exploit the technology; and
 - 6.2.3. any others as deemed reasonable by the IRB Authority.
- 6.3. IRB in the form of technology and skills cooperation with Canadian companies may include activities such as:
 - 6.3.1. participation in the design, development and manufacture of new or improved systems;
 - 6.3.2. the provision of new process technologies that will enhance Canadian industry by improving their capabilities in present product lines and enhance their export potential; and
 - 6.3.3. the provision of licences which will allow Canadian companies to manufacture new or existing components of major systems for export sale and import replacement.

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6.4. All costs to develop the technology shall be ineligible for IRB credit.

7. Investment in Canada

7.1. IRB can be derived from activities such as investment in Canada. These investments shall meet the IRB Eligibility Criteria and shall be made directly by the Contractor or its Eligible Party and placed directly with a Canadian recipient.

7.1.1. The Contractor will be credited the CCV of future sales resulting from the specific investment, and the amount of the investment, once the Achievement surpasses the amount of the initial investment. The credited future sales will be prorated by multiplying the applicable sales to the ratio of the Contractor's own direct investment in the company relative to that company's Capitalization at the time the investment was made once the accepted IRB credits surpasses the amount of the total investment.

Credited Future Sales =

Applicable Sales X Contractor's own direct investment in Canadian Recipient
Canadian Recipient's Capitalization at the time the investment was made

7.2. The investment shall be for the purchase of equity such as common shares or preferred shares. Use of the investment to purchase debentures is not permitted.

7.3. The investment made by the Contractor or its Eligible Parties shall remain placed with the Canadian recipient for a minimum of three (3) years, starting from the date the investment is placed with the recipient. Failure to do so will result in the immediate clawback of all IRB approved credits for the IRB Transaction by the IRB Authority. No further IRB credits will be approved for that particular transaction.

7.4. In the event the Contractor or an Eligible Party invests in its own Canadian facilities, the investment and the incremental sales resulting from that investment are eligible for IRB credit, assuming the investment itself is causal to the IRB obligations of the Contractor or Eligible Party. This is also provided that the investment results in a net benefit to Canada and that the transaction does not result in overcapacity, shutdowns of existing companies or losses of prospective sales by existing companies in Canada.

7.5. The capital associated with the purchase of a Canadian company that is considered a "going concern" is not an eligible investment for IRB purposes. If the investment is for a Canadian company that has declared bankruptcy, then the investment can be counted for IRB purposes.

7.6. Investment transactions may include:

7.6.1. the establishment or enhancement of a Canadian facility or project which will develop Canada's advanced technology industries, and provide a capability that does not already exist in Canada. Consideration on the eligibility of the proposed IRB transaction will also be based on whether the transaction results in overcapacity, shutdowns of existing companies or losses of prospective sales by existing companies in Canada; or

7.6.2. the development of joint ventures with Canadian firms, which will contribute to their long-term viability and increase sales in both domestic and international markets.

8. Third Party Investments/Venture Capital Funds for Small Business

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8.1. In any instance where the Contractor or its Eligible Party is not placing an investment directly with a Canadian recipient, and is utilizing a third party to manage such investments, the method of crediting such investments will be as detailed in this Clause. Any organization which manages investments such as, but not limited to Banks, Trust Companies, Venture Capital Funds, and Investment Companies, will not be an Eligible Party to the Contract, but will be deemed a third party. A portion of a Contractor's investment may come from the placement of funds into a Venture Capital Fund (VCF) directed at assisting the growth of Canadian small businesses through their development and exploitation of new technologies. The multiplied IRB credit related to these investments shall not exceed 5% of the IRB Commitment Value. Contributions in support of Canadian small business are permitted within the following parameters:

8.1.1. **Timing**

8.1.1.1. IRB credit can be claimed when:

- 8.1.1.1.1. the Contractor makes a financial contribution to a qualifying VCF. Only the face value of the contribution, measured in Canadian dollars, can be sought as an IRB at this time; and
- 8.1.1.1.2. the VCF Manager invests funds with a Canadian small business and the funds remain placed with the Canadian recipient for a minimum of three (3) years, starting from the date the funds are placed. Failure to do so will result in the immediate clawback of all IRB credits claimed or approved for the IRB Transaction by the IRB Authority.

8.1.1.2. All VCF related IRB credits claimed by the Contractor are subject to verification and approval by the IRB Authority before IRB credits are accepted.

8.1.2. **Scope**

8.1.2.1. (Privately held) small business recipients of the VCF investment shall have 50 employees or less (service based industries) or 100 employees or less (manufacturing based industries) at the commencement of the investment.

8.1.2.2. Initial investments by the VCF Manager, including co-investments, in eligible small businesses cannot exceed \$1M.

8.1.2.3. Small business recipients will generally be involved in the development, manufacture or commercialization of a technologically advanced product or service in one of the following sectors:

- 8.1.2.3.1. Life sciences (biotechnology, medical devices and pharmaceuticals)
- 8.1.2.3.2. Health
- 8.1.2.3.3. Advanced materials
- 8.1.2.3.4. Advanced manufacturing
- 8.1.2.3.5. Environment
- 8.1.2.3.6. Information and communications technologies, and
- 8.1.2.3.7. Aerospace and defence

8.1.2.4. Only Canadian registered and managed VCFs which support the above industrial sectors will be acceptable. The Contractor will have to provide evidence that a high percentage of a chosen fund's investment activity is with companies that are in the

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above sectors.

8.1.3. **Multiplier for IRB Credit purposes**

8.1.3.1. The multiplier for IRB credit purposes is 5:1. The IRB credit will be given for the initial contribution at the time of the deposit to the VCF by the Contractor. The IRB credit that makes up the remaining multiples will be offered when the VCF Manager assigns the funds to a Canadian small business and the funds remain placed with the Canadian recipient for a minimum of three (3) years, starting from the date the funds are placed. The maximum multiplied IRB credit for the Project is 5% of the IRB Commitment Value.

8.1.4. **Limitation to Third Party Investments/Venture Capital Funds for Small Business**

8.1.4.1. Once a small business reaches the Initial Public Offering stage, no further IRB credit will be granted by the IRB Authority for further VCF investment to the Canadian small business.

8.1.5. **Performance Guarantees**

8.1.5.1. IRB Transaction sheets related to qualifying VCF transactions are stated in the multiplied value of the proposed contributions to the VCF. This multiplied value is part of the Contractor's total IRB commitment, and as such is subject to the performance guarantees stipulated in this Contract.

8.1.5.2. If the Contractor fails to achieve an approved IRB Transaction involving a VCF, the full "multiplied" value of its IRB Commitment shall be made up with other IRB activities that meet the IRB Eligibility Criteria. Substitute transactions will not be subject to the multiplier.

9. **Investments made to Consortium**

9.1. In any instance where the Contractor or its Eligible Party invests in research and development through a consortium, the method of crediting such investments will be as detailed in this Clause.

9.1.1. **Timing**

9.1.1.1. IRB credit can be claimed when:

9.1.1.1.1. the Contractor makes a financial contribution to a qualifying consortium; and

9.1.1.1.2. the Consortium partner(s) make their contribution the consortium.

9.1.1.2. All Consortia related IRB credits claimed by the Contractor are subject to annual reporting and verification and approval by the IRB Authority before IRB credits are approved.

9.1.2. **Scope**

9.1.2.1. A Consortium shall be considered as an association between the Contractor(s), Canadian company(s) and Canadian research institute(s). The association shall consist of a minimum of:

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- 9.1.2.1.1. the Contractor or its Eligible Party; and
- 9.1.2.1.2. a minimum of one (1) publicly or privately owned Canadian company; and
- 9.1.2.1.3. a minimum of one (1) post-secondary or public research institutions.
- 9.1.2.2. Involvement of non-Canadian company(s) in the consortia shall be permitted. The combined total investment from foreign sources shall not exceed fifty (50) percent of the Consortium value.
- 9.1.2.3. The Contractor shall not be able to claim its Consortium partner(s) as Eligible Parties to this Contract. In cases where an existing Eligible Party to the Contract participates in a Consortium, a separate IRB Transaction Sheet shall be submitted that describes the Eligible Parties' involvement in the Consortium to claim credits for contributions leveraged by the Eligible Party. At no time shall the Contractor and Eligible Party be able to claim for the same contributions.
- 9.1.2.4. In addition to demonstrating Causality, the Contractor shall be responsible for demonstrating how its involvement in the Consortium leveraged the investments from the other parties involved.
- 9.1.2.5. The Contractor may choose to invest in an existing Consortium and will be credited for its investment into the Consortium. In order to receive credit for funds invested by other companies, the Contractor must demonstrate that the additional funds invested into the Consortium were the result of the Contractor's participation. The Contractor will not receive credit for funds already existing in the Consortium prior to their participation.
- 9.1.2.6. The Contractor will not be eligible to claim IRB on any funds leveraged by other parties and applied to other IRB obligations. In cases where multiple contractors with IRB obligations are involved in a Consortium, each of these contractors may be eligible to receive IRB credit for their own contribution and that of the partners they attract to the Consortium.
- 9.1.2.7. Contributions to the Consortium may take the form of in-kind donations. These donations will not be eligible for a multiplier. In the case of equipment, tools and other final goods, credit for these shall be given based on an assessment to be undertaken by a Third Party to this Contract solely at the cost of the Contractor. Donations that cannot be assessed by a Third Party may be credited for reasonable costs incurred. The costs of these assessments will not be eligible for IRB Credit.
- 9.1.2.8. The future sales that may arise from the Consortium will not be considered for IRB Credit under this Clause. Should the Contractor procure goods and services from the Consortium, the purchase will be considered as a separate IRB Transaction. No multiplier will be applied to these future sales.
- 9.1.3. **Multiplier for IRB Credit purposes**
 - 9.1.3.1. The multiplier for IRB credit purposes shall be credited as follows. An initial value shall be the sum of the following:
 - 9.1.3.1.1. the value of cash contributions from the Contractor to the Consortium; and,

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9.1.3.1.2. the value of cash contributions from other eligible participants, leveraged by the Contractor's participation in the Consortium, up to a maximum value equal to that of the Contractors contribution.

9.1.3.2. However, the following will not be eligible for IRB Credit:

9.1.3.2.1. contributions from post-secondary institutions and not-for-profit research and development institutions shall not be counted towards the Contractor's obligations; and

9.1.3.2.2. direct contributions from all levels of government into the Consortium.

9.1.3.3. Once an initial value is established, the Contractor shall receive a five (5x) times multiplier on the initial value.

9.1.3.4. When a Consortium IRB Transaction is submitted, the Contractor must identify the manner that it proposes to calculate the regional distribution. The Contractor may opt to make regional commitments based on where funding for the Consortia originates as a proportion of the total Canadian funding. Alternatively, the Contractor may opt to make regional commitments based on where the work associated with the Consortium is taking place. In either situation, once a Contractor selects a regional calculation, the Contractor will be held to this selection.

9.1.4. **Performance Guarantees**

9.1.4.1. IRB Transaction sheets related to qualifying Consortium transactions are stated in the multiplied value of the proposed contributions to the Consortium. This multiplied value is part of the Contractor's total IRB commitment, and as such is subject to the performance guarantees stipulated in this Contract.

9.1.4.2. If the Contractor fails to achieve an approved IRB Transaction involving a Consortium, the full "multiplied" value of its IRB Commitment shall be made up with other IRB activities that meet the IRB Eligibility Criteria. Substitute transactions will not automatically be subject to a multiplier.

10. **Indirect Transactions**

10.1. An Indirect IRB in the form of a purchase of goods or services, not specifically for use in the Work, shall be equivalent level of technology to the Project with applications in Canadian advanced technology industries. A credit for these purchases will be given equal to their CCV under the following conditions:

10.1.1. if the CCV is less than 30 percent of the total content for a given activity, then this activity will not qualify as a IRB Transaction; and,

10.1.2. if the CCV is equal or greater than 30 percent, then the CCV will qualify as an IRB.

11. **Direct IRB Transactions**

11.1. Direct IRB Transactions are those achieved through the provision of the goods and services required to deliver the Integrated Soldier System Project or achieved through the provision of goods and/or services on approved Global Value Chain (GVC) platforms.

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- 11.2. Canadian resources should be utilized to the maximum extent possible to develop, produce, integrate, deliver and support the Integrated Soldier System Project. Eligible areas of involvement include hardware and software, project management, systems design, engineering and integration, programming and independent validation and verification, installation engineering and site installation, and transportation.
- 11.3. An eligible Global Value Chain (GVC) platform must be similar to the platform being proposed for the Integrated Soldier System Project and has a market potential (measured by market size and longevity) equal to or greater than the platform proposed for the Integrated Soldier System Project and one that offers significant opportunities for technological advancement, growth in the level of system integration, small and medium-sized business (SMB) participation, and have large-scale and sustainable acquisition and/or sustainment opportunities.
- 11.4. Activities associated with GVC platforms include, but are not limited to, pre-commercialization activities (e.g. collaborative technology development and demonstration projects), production activities (e.g. definition, design, and manufacturing) and In-Service Support activities.
- 11.5. A list of approved GVC platforms is found in Article 33.1. The IRB Authority reserves the right to seek validation of the eligibility of the GVC platforms found in Article 33.1, within one year of the Effective Date of the Contract. The IRB Authority shall submit to the Contractor within one year of the Effective Date of the Contract a written notice of the GVC platforms that the IRB Authority wishes to validate. Once the request is made, the Contractor shall have 60 calendar days to submit a package in support of their GVC eligibility claims. Should a GVC platform be found to not meet the GVC criteria (outlined in article 11.3), any IRB Transactions involving that platform will not be eligible to be used towards meeting the minimum Direct requirement outlined in article 2.1.2.

12. Strategic Plans

- 12.1. Major Obligors to Canada are required to submit a Strategic Plan to the IRB Authority annually. If the Contractor is a Major Obligor, as defined in Article 1.1.25, then;
 - 12.1.1. The Contractor and the IRB Authority will meet annually to update, review and discuss the Contractor's Strategic Plan.
 - 12.1.2. Representatives at senior levels of the corporation and senior levels of Industry Canada will be available for annual meetings.
- 12.2. The Contractor's Strategic Plan should include:
 - 12.2.1. a description of the Contractor's broad corporate plans for Canada over the medium-term (3-5 years) and long-term (5+ years);
 - 12.2.2. how these corporate plans may translate into IRB activities
 - 12.2.3. an overview of the Contractor's current and anticipated IRB Obligations to Canada
 - 12.2.4. IRB Partnerships with tier-one suppliers or other Eligible Parties.
- 12.3. Contractor's with multiple IRB Obligations totalling less than \$1 billion may also submit a Strategic Plan to the IRB Authority, however neither the IRB Authority or the Contractor will be required to meet annually to discuss the Strategic Plan.

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- 12.4. Major Obligors submitting a Strategic Plan may be permitted to “pool” high value, strategic IRB business activities.
- 12.5. Pooled IRB Transactions must meet the following criteria:
- 12.5.1. meet the IRB Eligibility Criteria as described in Article 5, Eligibility Criteria for IRB Transactions;
- 12.5.2. have a value of over \$100 million measured in CCV;
- 12.5.3. provide long term impact to the Canadian recipient including R&D support, first purchase of innovative Canadian technologies, market leadership, world product mandate, global value chain activities, or technology advancement.
- 13. Not used**
- 14. Valid Orders**
- 14.1. The extent to which each IRB Transaction will qualify will be based on and limited to valid orders and/or contracts delivered by the end of the IRB Achievement Period.
- 15. Trading and Mutual Abatement**
- 15.1. Trading of IRB credits is not permitted.
- 15.2. Mutual Abatement is not permitted.
- 16. Banking**
- 16.1. A total of 50% of the IRB Commitment value can be utilized with Banked IRB Transactions from the IRB Bank.
- 17. Import Replacement**
- 17.1. Import replacements due to the transference of work into Canada will be counted for IRB purposes.
- 18. Multipliers**
- 18.1. Multipliers are only permitted on IRB Transactions involving cash contribution input to Canadian universities for university research or the establishment of university Chairs; investments in advanced technology skill development through publicly operated post secondary institutions; collaborative research undertaken with publicly accessible research institutions (e.g. the National Research Council or other federal or provincial research institutions); contributions to Venture Capital Funds specializing in small business development; and cash contributions to research and development through a Consortium. Multipliers will not exceed five (5:1).
- 19. World Product Mandate**
- 19.1. If a product designed, developed and manufactured by a Canadian company is the subject of a world product mandate, where it is a long term relationship between the Contractor or an Eligible Party and a Canadian company, whereby the Canadian company has been legally authorized to carry out the aforementioned specific activities, and is identified as such in an Indirect IRB

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Transaction, and where the CCV of the product is verified to be seventy (70) percent or greater, the full contract value of the transaction will be deemed to be CCV.

20. Small and Medium Business

- 20.1. For the benefit of Small and Medium Business and to lessen their administrative burden, if at least seventy (70) percent of the value of an IRB Transaction below \$100,000.00 is CCV, that contract will be deemed to have 100 percent CCV for reporting and verification purposes only.

21. Enhanced Priority Technology List

- 21.1 Version 1.0 of the EPTL is attached as Appendix BA4 and applies to this contract. The IRB Authority will assess proposed EPTL transactions to determine whether they are: relevant to the EPTL List Version 1.0; and, of a unique and/or transformational nature to existing global product offerings. All EPTL transactions must meet the IRB Eligibility Criteria outlined in Article 5.
- 21.2 The IRB Authority may publish updated versions of the EPTL. Such a subsequent published version of the EPTL may be considered to replace Version 1.0 in this Contract. Replacing the EPTL would require agreement between the IRB Authority and the Contractor, as part of a contract change proposal submitted to the Contracting Authority.
- 21.3 In the case where EPTL Version 1.0 is replaced with a subsequent version, any IRB Transactions which have already been accepted by the IRB Authority as eligible under Version 1.0 will remain unaffected by the change to a subsequent version.
- 21.4 The Contractor may choose to submit a banked EPTL-related transaction for this ISS Project. (*please see Article 15 - Banking*). With respect to a banked EPTL transaction, the Version of the EPTL which was in effect at the time of the transaction's acceptance into the IRB Bank may be different than the version applicable to this ISS Project. In that case, the banked EPTL transaction can nonetheless be counted towards the EPTL requirement on this ISS Project.
- 21.5 The IRB Authority reserves the right to seek validation of the eligibility of the EPTL Transactions found in Appendix BA1 within one year of the Effective Date of the Contract. The IRB Authority shall submit to the Contractor within one year of the Effective Date of the Contract a written notice of the EPTL transactions that the IRB Authority wishes to validate. Once the request is made, the Contractor shall have 60 calendar days to submit a package in support of their EPTL eligibility claims. Should an EPTL transaction be found to not meet the EPTL criteria (outlined in article 21.1), it will not be eligible to be used towards meeting the minimum EPTL requirement outlined in article 2.1.6.
- 21.6 The IRB Authority is the single point of contact between industry and government regarding the EPTL. All enquiries regarding the EPTL contents should be directed to the IRB Authority.

22. Announcements

- 22.1. Industry Canada reserves the right to make general announcements on contracted or signed Memorandum of Understanding IRB Transactions. Announcements would include company names, general descriptions of the work being proposed and approximations of CCV and sub contract value.

23. IRB Transaction Alterations

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- 23.1. The Contractor shall not alter the IRB Commitments listed in Appendix BA1 unless:
- 23.1.1. the Contractor has submitted a proposal to the IRB Authority through the Contracting Authority, with respect to the alteration; and,
 - 23.1.2. the IRB Authority through the Contracting Authority has given written approval to the Contractor and requested the Contracting Authority to amend the Contract accordingly.
- 23.2. The Contractor may propose alterations to or substitutions for any of the IRB Transaction(s) listed in Appendix BA1, and the IRB Authority may accept these requests provided that in the judgment of the IRB Authority:
- 23.2.1. the circumstances requiring the change are exceptional and likely to result in undue hardship upon the Contractor is a change is not made;
 - 23.2.2. the obligations of this Contract under the Statement of Work are maintained i.e. the overall Regional and Small and Medium Business Commitments are maintained;
 - 23.2.3. the proposed alterations or substitutions meet the IRB Eligibility Criteria stated in this Contract;
 - 23.2.4. the proposed substitute IRB Transaction is not less than the IRB Transaction to be replaced both as to the level of technological sophistication of the work to be performed and the CCV;
 - 23.2.5. Canadian industry will receive the maximum high-quality, low risk, Direct Benefits associated with the delivery of the work; and
 - 23.2.6. Canadian industry will receive high-quality, low risk, Indirect Benefits of the same level of technology as the Direct Benefits.

24. Contract Price Changes

- 24.1. Where the Contract is to be amended, the IRB Commitments as specified in Article 2, Statement of Work: IRB Commitments and Responsibilities, shall be correspondingly either increased or decreased to reflect this amendment.

25. Verification and Access to Records

- 25.1. The Contractor shall implement the IRB procedures and practices as described in the IRB Management Plan. Any changes to the IRB Management Plan are subject to approval by the IRB Authority.
- 25.2. The Contractor shall keep proper records and all documentation relating to the determination of the CCV of the work provided under this Contract, including invoices and proof of payments. The Contractor shall not, without the prior written consent of the IRB Authority, dispose of any such records or documentation until the expiration of two (2) years after final payment of this Contract, or until settlement of all outstanding claims and disputes, whichever is later. All such records and documentation shall at all times during the aforementioned retention period be open to verification, inspection and examination by the IRB Authority or his/her delegate, who may make copies thereof and take extracts there from.
- 25.3. In addition, the IRB Authority may request the Contractor provide copies of all such information be sent to him/her via mail or courier for a random sample of IRB Transactions as he/she may

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from time to time request.

- 25.4. If the IRB Authority determines that the information contained in the annual report and certified by the Certificate of Compliance shall be verified, the Contractor shall undertake to provide the IRB Authority with access, at all reasonable times, and within sixty (60) calendar days of being notified, to its accounts and records relating thereto and shall, by obtaining similar undertakings in the subcontracts of all Eligible Parties, arrange for the same in respect of any subcontracts and suppliers carrying out the work.
- 25.5. Where, subsequent to the verification action taken pursuant to this Clause, the IRB Authority determines that the records are insufficient to verify the Contractor's achievements in respect of any IRB Commitment, the Contractor shall provide such additional information as may be required by the IRB Authority.
- 25.6. Where it cannot be verified that an IRB Transaction has provided the IRB claimed, that portion of the IRB which cannot be verified will be considered as not having been achieved and the IRB Authority will give Notice to the Contractor of the shortfall through the Contracting Authority.
- 25.7. Should the Contractor disagree with a decision delivered pursuant to the above paragraph, the Contractor, within twenty (20) Business Days from the notification of the said decision, may appeal, by Notice to the Contracting Authority, the above decision by describing fully the issue, all relevant factors and the reasons for its disagreement with the said decision. The IRB Authority, on subsequent review of the factors surrounding the disagreement, will issue a final determination, identifying the amount of any such IRB achieved.
- 25.8. If the IRB Authority determines that a significant Shortfall in the Contractor's total IRB Commitment exists and if the IRB Authority believes that the Contractor will not meet its total IRB Commitment, the IRB Authority may give, through the Contracting Authority, notice to the Contractor and request the contractor to submit a proposal showing how the Contractor plans to correct such deficiencies. The Contractor will submit its proposal within sixty (60) calendar days of receipt of such notice. If the proposal is not acceptable to the IRB Authority, the IRB Authority may request the Contracting Authority to terminate the Contract.
- 25.9. The Contractor's overall IRB Commitments, claims and achievements, is information available to Parliament and is considered by the Canadian Government as information that can be released to the public. However, the Contractor's specific corporate and transactional information is considered as commercial confidential and its receipt, storage and protection is governed by applicable federal laws and processes. Contractors are encouraged to clearly mark their documents identifying each page as belonging to them and containing sensitive, commercially confidential information.

26. Over-Achievement of IRB Commitments

- 26.1. The Contractor may achieve a CCV for any Commitment in excess of the value stated in the IRB Transactions without prior approval. When an over-achievement occurs in an IRB Transaction Commitment, subject to the prior written approval of the IRB Authority, the over-achievement may be applied against the shortfall or unallocated portion of the IRB Transactions, as long as the Regional and Small and Medium Business Commitments are achieved. An over-achievement in one Region will not be applied to reduce a shortfall in another Region.

27. Failure to Achieve IRB Commitments

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27.1. Liquidated Damages

- 27.1.1. In respect of the failure to achieve any of the Commitments in clauses 2.1.1 to 2.1.9 (Statement of Work: IRB Commitments and Responsibilities) by the end of the IRB Achievement Period, the Contractor shall immediately pay to Canada as liquidated damages 10% of the Shortfall.
- 27.1.2. In the event that liquidated damages arise under more than one of the IRB Commitments, the Contractor will be liable only under the IRB Commitment which results in the highest liquidated damages.
- 27.1.3. Included in the total IRB Commitments are the unallocated IRB Commitments.

27.2. Holdback/Stop Payment

- 27.2.1. If at the end of IRB Reporting Period 2, it is confirmed through the submission and evaluation of transactions that the Contractor failed to identify 60% of the IRB Commitment Value in eligible IRB Transactions by the end of Reporting Period 1, as stated in Article 2.1.9, the holdback applied to all subsequent payments becoming due and payable after written notice from the Contract Authority shall be 15%. The holdback shall only be released once the Contractor has identified 60% of the IRB Commitment Value in eligible IRB Transactions to the satisfaction of Canada.
- 27.2.2. With respect to the Holdback outlined in sub-section 27.2.1, a grace period of thirty (30) calendar days, beginning on the date of failure notification by the IRB Authority, shall pass before the Holdback takes effect. Within this period, the Contractor may take corrective action. One year after the contract expiry date, if no acceptable corrective actions are taken by the Contractor, the accumulated deduction for holdback is forfeited.
- 27.2.3. If at the end of the IRB Reporting Period 4, it is confirmed through the submission and evaluation of transactions that the Contractor has failed to identify 100% of the IRB Commitment Value in eligible IRB transactions by the end of Reporting Period 3, as stated in Article 2.1.10, Canada will suspend contract payment until the situation is remedied.
- 27.2.4. With respect to the suspension of contract payment outlined in sub-section 27.2.3, a grace period of thirty (30) calendar days, beginning on the date of failure notification by the IRB Authority, shall pass before the suspension of contract payment takes effect. Within this period, the Contractor may take corrective action.
- 27.3. In the event that the Contract is terminated for default pursuant to the General Conditions Clause entitled "Default by the Contractor", the Contractor will immediately pay to Canada an amount equal to the Liquidated Damages that would be payable under clause 27.1.1 based on the shortfall in regard to those Commitments that, according to Appendix BA1 (Plans, Transactions and Tables) were to be achieved by the date of termination. In the event of such payment, the Contractor will have no further liabilities in regard to the IRB requirements of the Contract.
- 27.4. In the event that this Contract is terminated for convenience pursuant to the General Conditions Clause entitled "Termination for Convenience", the Contractor will have no further liabilities. In the event of partial termination of the Contract, the Contractor will be released from the terminated portions of its Commitments and from the provisions of Article 2 (Statement of Work: IRB Commitments and Responsibilities) as it relates to such terminated portions.

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- 27.5. If, during the progress of the Contract, a change in the Work is initiated by the Crown which results in the Contractor no longer being able to source from a Canadian Company and, as a consequence, Commitments in the Statement of IRB Work may not be met, the Contractor shall immediately notify the IRB Authority through the Contract Authority. The Contractor shall fully describe the issue, provide all supporting data, including a complete record of attempts to purchase from Canadian sources and Canadian suppliers' responses, together with an analysis of specific technical, commercial or other factors which result in the inability to source from Canada.
- 27.6. The Contractor shall, prior to being entitled to receipt of the final Milestone Payment from Canada following the completion of the Work, provide Canada a guarantee in the form of a letter of credit, covering the amount of monies that would be owing by way of liquidated damages pursuant to the Liquidated Damages Clause should the Contractor not achieve any further IRB Credits after the date of the final Milestone Payment. The letter of credit shall be:
- 27.6.1. issued by a financial institution which is a member of the Canadian Payment Association;
 - 27.6.2. in form and substance satisfactory to the Minister;
 - 27.6.3. solely at the cost of the Contractor;
 - 27.6.4. abated as set forth below;
 - 27.6.5. unconditional and irrevocable; and
 - 27.6.6. subject to the Uniform Customs and Practice for Documentary Credits, as set out in Publication No. 600, July 2007.
- 27.7. The letter of credit shall remain in force until the earliest of:
- 27.7.1. the achievement of the Commitments; and
 - 27.7.2. six months following the submission of the final IRB Report at which time the letter of credit will be abated in full and will be returned by Canada to the Contractor.
- 27.8. The obligation of the Financial Institution to pay under the letter of credit will be triggered by notice executed by either the Minister or the Deputy Minister of Public Works and Government Services Canada to the Issuing Bank stating that the Contractor is in default under the Contract for failure to achieve the Commitments within the Achievement Period, that Canada has made a demand by Notice for payment of Liquidated Damages in accordance with the Liquidated Damages Clause and that the Contractor has failed to pay Canada Liquidated Damages in accordance with the Liquidated Damages Clause. No other event will trigger payment under the letter of credit.
- 27.9. The Contract Authority in accordance with this Article, will have the right to holdback, drawback, deduct and set off from and against the monies owing at any time by the Crown to the Contractor, any damages owing under this Contract equal to ten percent (10%) of the shortfall amount.
- 27.10. Nothing in this Article will be interpreted as limiting the rights and remedies which the Contracting Authority may otherwise have in relation to any breach of this Article by the Contractor, including the right to terminate the Contract for default.

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28. Responsibilities of the Parties

28.1. The Parties to this Contract acknowledge and agree that:

- 28.1.1. Canada has responsibility for the economy of Canada and, in order to develop its economy, has set in place policies and programs to promote and enhance the development of the Canadian industrial base, including regional industry and small business;
- 28.1.2. the award of this Contract to the Contractor resulted from a procurement process in which the Contractor committed to fulfil the CCV Commitments set out in Article 2, Statement of Work: IRB Commitments and Responsibilities;
- 28.1.3. it is the responsibility of the Contractor to ensure that it can complete the IRB Transactions and that these are not limited by applicable laws, regulations, policies or standards; and
- 28.1.4. actual damages which would be sustained by Canada in the event of a breach by the Contractor of the CCV Commitment provisions of this Contract would be commercially impracticable or extremely difficult to compute or ascertain and, therefore, the provisions for Liquidated Damages are agreed to be a fair and reasonable best estimate of such actual damages, and the manner provided herein for the enforcement and collection of Liquidated Damages is agreed to be fair and reasonable.

29. Dispute Settlement - Resolution of Discrepancies

- 29.1. In matters pertaining to proposed and/or approved IRB Transactions, in circumstances where the IRB Authority and the Contractor fail to agree after negotiating in good faith, then the decision of the IRB Authority will prevail.
- 29.2. In the event that the Contractor fails to agree to the decision rendered by the IRB Authority, then the Contractor may, within twenty-eight (28) calendar days of receipt of Canada's decision, submit a request to the Contracting Authority, for reconsideration of the matter by the IRB Authority. Such a request shall fully describe the issue, all relevant factors and the reasons for the Contractor's disagreement. Industry Canada will, within twenty-eight (28) calendar days of receipt of the request, issue the final determination detailing the reasons for the decision.

30. Government Organizations

- 30.1. It is the responsibility of the Contractor to be familiar with Government departments and agencies including the following which are responsible for regional and industrial development: Industry Canada; Department of Western Economic Diversification (WD); Atlantic Canada Opportunities Agency (ACOA); and Canada Economic Development for Quebec (CED-Q).

31. Compliance with the *Lobbying Act*

- 31.1 The Contractor and its Eligible Parties each represents and warrants:
 - 31.1.1 that it has filed all *Lobbying Act* returns to be filed in respect of persons employed by it who communicate and/or arrange meetings with public office holders as part of their employment duties, and that it will continue to do so;
 - 31.1.2 that it has not contracted with any person to communicate and/or arrange meetings with public office holders for remuneration that is or would be contingent in any way upon success of such

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person arranging meetings with public office holders, or upon the approval and granting of IRB Credit under this Contract;

- 31.1.3 that it will not contract with any person to communicate and/or arrange meetings with public office holders for remuneration that is or would be contingent upon the success of such person arranging meetings with public office holders, or upon the approval and granting of IRB Credit under this Contract;
- 31.1.4 all persons who are or have been contracted by it to communicate and/or arrange meetings with public office holders in respect to this Contract are in full compliance with the registration and other requirements of the *Lobbying Act*;
- 31.1.5 it shall at all times ensure that any persons contracted to communicate and/or arrange meetings with public office holders in respect of this Contract are in full compliance with the requirements of the *Lobbying Act*.
- 31.2 When submitting each IRB Annual Report, the Contractor and its Eligible Parties must provide the IRB Authority with an update, in a form satisfactory to the IRB Authority, on all representations, warranties and undertakings made herein.

32. List of Eligible Parties

- 32.1. The Eligible Parties to this contract include the companies and coordinates listed below:

(List to be included once the contract has been negotiated)

33. List of Approved Global Value Chain Platforms

- 33.1. The Platforms approved for GVC work are listed below:

(List to be included once the contract has been negotiated)

Appendix BA1

Plans, Transactions and Tables

IRB Plans – to be attached from Contractor's IRB Proposal

IRB Transactions – to be attached from Contractor's IRB Proposal

IRB Tables – templates below, for IRB reporting purposes

Table 1: Total of IRB Transactions by Period and Region

Region	Period 1	Period 2	Period 3	Period 4	Period 5	Totals by Region
Atlantic						
Quebec						
West						
N. Ontario						
Ontario						
Unallocated						
Totals By Period						

Table 2: Total Direct IRB Transactions by Period and Region

Region	Period 1	Period 2	Period 3	Period 4	Period 5	Totals by Region
Atlantic						
Quebec						
West						
N. Ontario						
Ontario						
Unallocated						
Totals By Period						

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Table 3: Total Indirect IRB Transactions by Period and Region

Region	Period 1	Period 2	Period 3	Period 4	Period 5	Totals by Region
Atlantic						
Quebec						
West						
N. Ontario						
Ontario						
Unallocated						
Totals By Period						

Table 4: IRB Transaction Listing and Summary - by Period

Transaction Description	Period 1	Period 2	Period 3	Period 4	Period 5	Totals
Direct IRBs						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

Table 5: IRB Transaction Listing and Summary - by Region

Transaction Description	Atlantic	Quebec	Ontario	Northern Ontario	West	Totals
Direct IRBs						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

Table 6: IRB Transactions Listing and Summary for Small and Medium Business - by Period

Transaction Description	Period 1	Period 2	Period 3	Period 4	Period 5	Totals
Direct IRBs						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

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Table 7: IRB Transactions Listing and Summary for Small and Medium Business - by Region

Transaction Description	Atlantic	Quebec	Ontario	Northern Ontario	West	Totals
Direct IRBs						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

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Appendix BA2

Certificate of Compliance For IRB Reporting Purposes

WHEREAS Her Majesty the Queen, in right of Canada as represented by the Minister of Public Works and Government Services Canada (referred to herein as the Minister) on the ____ day of ____ has entered into contract with _____ for the Contract.

AND WHEREAS Such Contract requires that, as evidence of the achievement of Canadian Content Value of Industrial and Regional Benefits Transactions and Commitments, the Contractor shall submit a Certificate of Compliance to that effect to the IRB Authority;

NOW THEREFORE, The Contractor declares and certifies as follows:

- I) The information contained in the documents appended herewith, which applies to the reporting of the IRB Transaction periods is to the best of our knowledge and ability complete, true and correct;
- ii) The information contained in the documents appended herewith is compliant with information contained in Certificates of Compliance submitted to the Contractor by other Eligible Parties;
- iii) The Canadian Content Values shown in documents appended herewith have been determined in accordance with Article 4 (Canadian Content Value) of Volume 3 Module B of the Contract;

IN WITNESS THEREOF THIS CERTIFICATE OF COMPLIANCE HAS BEEN SIGNED THIS
____ DAY OF _____ BY THE SENIOR COMPTROLLER WHO IS DULY
AUTHORIZED IN THAT BEHALF.

SIGNATURE

NAME AND TITLE OF SENIOR COMPTROLLER

AT: _____

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Appendix BA3

IRB Transaction Sheet

1. IRB Transaction #:

2. IRB Transaction Title (a brief title identifying the nature of the transaction):

3. Indirect or Direct IRB Transaction:

Type of activity:

4. Transaction Value:

Total Transaction Value:

% of Canadian Content Value:

Total Canadian Content Value:

5. Sourcing Region:

Region:

City, Province:

6. Small and Medium Business - is the Recipient a Small and Medium Business:

Yes/No:

7. Company providing IRB (Donor):

Company:

Address:

Contact:

Tel:

Fax:

E-mail

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8. Company Receiving IRB (Recipient):

Company:

Address:

Contact:

Tel:

Fax:

E-mail:

9. Industrial Sector, Technology and Expertise of the IRB Recipient:

Industrial Sector:

Federal Supply Class (FSC) – If known:

Enhanced Priority Technology List (EPTL): Yes / No

If YES:

EPTL Version:

Sector:

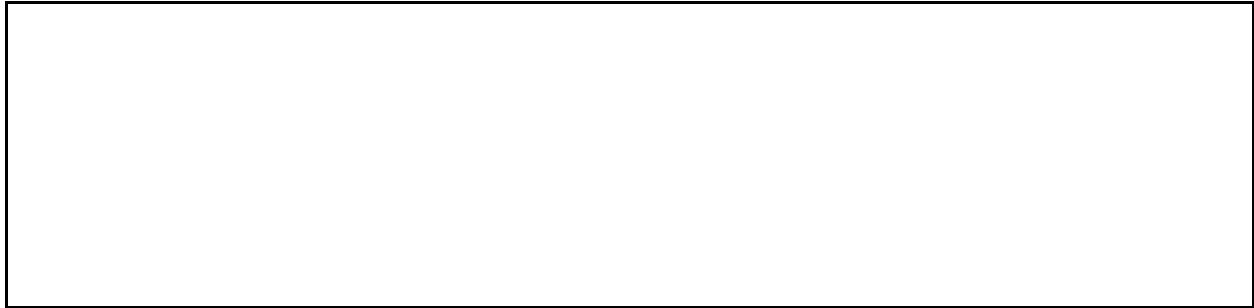
Category:

Describe and document the activity's relevance to the EPTL List Version 1.0 and its unique and/or transformational nature to existing global product offerings:

Description of the expertise of the IRB Recipient:

10. Description of the IRB Transaction and Canadian Recipient for the IRB Transaction:

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11. Quality of IRB:

Provide description of the quality of the individual Transaction. For example, increases in employment, increased marketability of recipient company, international exposure, experience with new technology, etc.

12. Provide and show justification for eligibility as a valid IRB Transaction (causality, timing, incrementality, eligible party and CCV):

13. Canadian Government Assistance:

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Does this apply? If so, provide a description of other Canadian Government assistance:

14. Time Phasing of IRB Transaction:

Total Contract Value of the Transaction		Total CCV		CCV %		Liquidated Damages: 10%			
\$		\$		%					
Period	Pre-Contract	1	2	3	4	5	6	7	Total
Region									
Atlantic									
Quebec									
Ontario									
N. Ontario									
Western									
Unallocated									
Total CCV									
Foreign									
Total									

15. Any other comment related to the Transaction:

16. Federal Supplier Classification (FSC) code.

Appendix BA4

Enhanced Priority Technology List – Version 1.0

Sector	Category	Description
Ships	Defence	Detection capabilities and decision aids
	Signature Management	Detectability reduction
Cyber	Network Monitoring	Detection and tracking of anomalous behaviours that threaten network defence capabilities
	Network Defence	Tools to support dynamic responses to isolate, monitor and defeat cyber intrusions
Aerospace	Arctic and Maritime Domain Awareness	Affordable aerospace-based surveillance and monitoring systems
	Vulnerability Reduction	Precision navigation and timing capabilities that reduce vulnerabilities in current systems such as GPS
Soldier Systems	Power and Energy	Lightweight high-energy portable power sources
	Full Spectrum Protection	Blast and ballistic omni-directional shielding
	Garment Platforms	Integrated multi-function electro-textiles
	Tunable Weapons Systems	Weapons systems which deliver effects across non-lethal and lethal environments
	Situation Awareness	Integrated, portable, lightweight, multifunction, wireless and secure C3 systems

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Appendix BA5

IRB CDRLs

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Module B Volume 3 Appendix BA5			B. Contract / RFP Number W4x-09ISSP/A																									
C. SOW Identifier		D. Data Category		E. Contractor																								
1. Item Number IRB-001		2. Title IRB Annual Report		3. Subtitle																								
4. Data Item Number IRB-001 IRB Annual Report		5. Reference IRB Terms and Conditions – Module B Volume 3, Clauses 2.2 and 3		6. Technical Office Industry Canada IRB Authority																								
7. Inspection N/A		8. Approval Code A		9. Review Period																								
10. Frequency ANNLY																												
11. As of Date Contract effective date		12. Date of First Submission 14 months after contract effective date		13. Date of Subsequent Submission ANNLY																								
14. Remarks The IRB Annual Report will be reviewed by Industry Canada		15. Distribution																										
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="2">Draft</th> <th colspan="2">FINAL</th> </tr> <tr> <th>Hard Copy</th> <th>Soft Copy</th> <th>Hard Copy</th> <th>Soft Copy</th> </tr> </thead> <tbody> <tr> <td>PWGSC CA</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> </tr> <tr> <td>IC IRB Auth</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> </tr> <tr> <td>TOTAL</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> </tr> </tbody> </table>			Addressee	Draft		FINAL		Hard Copy	Soft Copy	Hard Copy	Soft Copy	PWGSC CA	0	0	0	1	IC IRB Auth	0	0	0	1	TOTAL	0	0	0	2
		Addressee	Draft			FINAL																						
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		PWGSC CA	0	0	0	1																						
		IC IRB Auth	0	0	0	1																						
TOTAL	0	0	0	2																								
16. Prepared By Industry Canada		17. Preparation Date 2012 January 20		18. Approved By Industry Canada																								
				19. Approval Date 2012 January 20																								

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C. SOW Identifier		D. Data Category		E. Contractor																									
1. Item Number IRB-002		2. Title Tranche 2 IRB Transactions		3. Subtitle																									
4. Data Item Number IRB-002 Tranche 2 of proposed IRB Transactions		5. Reference IRB Terms and Conditions – Module B Volume 3, Clause 2.1.9		6. Technical Office Industry Canada IRB Authority																									
7. Inspection N/A		8. Approval Code A		9. Review Period 12 months																									
				10. Frequency One																									
11. As of Date 12 months after the effective date of the contract		12. Date of First Submission		13. Date of Subsequent Submission																									
14. Remarks Review period by IC – 12 months		15. Distribution																											
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C. SOW Identifier		D. Data Category		E. Contractor																									
1. Item Number IRB-003		2. Title Tranche 3 IRB Transactions		3. Subtitle																									
4. Data Item Number IRB-003 Tranche 3 of proposed IRB Transactions		5. Reference IRB Terms and Conditions – Module B Volume 3, Clause 2.1.10		6. Technical Office Industry Canada IRB Authority																									
7. Inspection N/A		8. Approval Code A		9. Review Period 12 months																									
				10. Frequency One																									
11. As of Date 36 months after effective date of contract		12. Date of First Submission		13. Date of Subsequent Submission																									
14. Remarks Review period by IC – 12 months		15. Distribution																											
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Appendix BA6

IRB DIDs

DATA ITEM DESCRIPTION – DESCRIPTION DE DONNÉES

1. TITLE – TITRE Industrial and Regional Benefits (IRB) Annual Report		2. IDENTIFICATION NUMBER – NUMÉRO D'IDENTIFICATION IRB-001	
3. DESCRIPTION / PURPOSE – DESCRIPTION / OBJET The IRB Report reports IRB achievements against Contract commitments.			
4. APPROVAL DATE DATE D'APPROBATION	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) Industry Canada IRB Authority	6. GIDEP APPLICABLE – PROGRAMME D'ÉCHANGE DE DONNÉES PERTINENT	
7. APPLICATION / INTERRELATIONSHIP – APPLICATION / INTERDÉPENDANCE Reference: IRB Terms and Conditions (Module B Volume 3, clauses 2.2 and 3)			
8. ORIGINATOR – AUTEUR IRB Authority, Industry Canada		9. APPLICABLE FORMS – FORMULES PERTINENTS	
10. PREPARATION INSTRUCTIONS – INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES <p>10.1 The Contractor must submit to the IRB Authority, through the PWGSC Contracting Authority (CA), annual IRB Reports based on the performance achieved during the IRB Reporting Periods noted in this Contract. These reports must be submitted 60 calendar days after the end of the annual IRB Reporting Period. Each annual IRB Report shall consist of four parts.</p> <p>10.2 Content:</p> <p>Part A. the Canadian Content Value (CCV) achieved in total since the beginning of the IRB Achievement Period for each of the following:</p> <ul style="list-style-type: none">i. total IRBs;ii. direct IRBs;iii. indirect IRBs;iv. IRBs by period;v. IRBs in each of the individual regions;vi. IRBs with small and medium size business; andvii. each IRB transaction; <p>Part B. the CCV achieved since the last IRB Annual Report for:</p> <ul style="list-style-type: none">i. total IRBsii direct IRBs;iii. indirect IRBs;iv. IRBs in each of the individual regions;v. IRBs with small and medium size business; andvi. each IRB transaction;			

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Part C. for each IRB Transaction being reported, a description of the achievements, activities, delays and/or problems. A plan of action to resolve any difficulties.

Part D. A summary that shall include:

- i. the total amount of progress payments or invoices submitted by the Contractor for work completed since the Effective Date of the Contract;
- ii. a forecast of IRB achievements;
- iii. a description of Small and Medium Size Business development activities undertaken during the reporting period;
- iv. an explanation of any IRB shortfall in achievement evident from the data in Part A, and a plan of action to resolve the problem;
- v. a list of the IRB Transactions, which had been approved by the IRB Authority, which have since been cancelled, terminated, added or substantially altered during the reporting period, the details of any requested changes, their status vis-à-vis Contract amendment, and the reasons thereof;
- vi. a brief narrative describing, on an exception basis, any noteworthy developments with respect to Regional Small Business marketing considerations; and
- vii. a description and explanation of any proposed changes to the IRB Management Plan.

10.3 Additional Information

As evidence of the Contractor's achievement of IRB Commitments, the Contractor shall provide, appended to the IRB Annual Reports, a Certificate of Compliance, signed off by the senior company Comptroller, in respect of each IRB Transaction for which there was activity in that Reporting Period. The Certificate of Compliance also covers those IRB achievements of the Contractor's Eligible Parties and sub-contractors.

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DATA ITEM DESCRIPTION – DESCRIPTION DE DONNÉES

1. TITLE – TITRE Tranche 2 of proposed IRB Transactions		2. IDENTIFICATION NUMBER – NUMÉRO D'IDENTIFICATION IRB-002	
3. DESCRIPTION / PURPOSE – DESCRIPTION / OBJET The Contractor shall submit to the IRB Authority, 12 months after the effective date of the contract, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 60% of the contract value, measured in CCV.			
4. APPROVAL DATE DATE D'APPROBATION	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) IRB Authority, Industry Canada		6. GIDEP APPLICABLE – PROGRAMME D'ÉCHANGE DE DONNÉES PERTINENT
7. APPLICATION / INTERRELATIONSHIP – APPLICATION / INTERDÉPENDANCE Reference: IRB Terms and Conditions (Module B Volume 3, clauses 2.1.9)			
8. ORIGINATOR – AUTEUR IRB Authority, Industry Canada		9. APPLICABLE FORMS – FORMULES PERTINENTS	
10. PREPARATION INSTRUCTIONS – INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES Contractor shall submit to the IRB Authority, 12 months after the effective date of the contract, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 60% of the contract value, measured in CCV. For each IRB Transaction, the information submitted must be in the same format as that which was used for the IRB Proposal submitted at bid closing.			

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DATA ITEM DESCRIPTION – DESCRIPTION DE DONNÉES

1. TITLE – TITRE Tranche 3 of proposed IRB Transactions		2. IDENTIFICATION NUMBER – NUMÉRO D'IDENTIFICATION IRB-003	
3. DESCRIPTION / PURPOSE – DESCRIPTION / OBJET The Contractor shall submit to the IRB Authority, 36 months after the effective date of the contract, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV.			
4. APPROVAL DATE DATE D'APPROBATION	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) IRB Authority, Industry Canada		6. GIDEP APPLICABLE – PROGRAMME D'ÉCHANGE DE DONNÉES PERTINENT
7. APPLICATION / INTERRELATIONSHIP – APPLICATION / INTERDÉPENDANCE Reference: IRB Terms and Conditions (Module B Volume 3, clauses 2.1.10)			
8. ORIGINATOR – AUTEUR IRB Authority, Industry Canada		9. APPLICABLE FORMS – FORMULES PERTINENTS	
10. PREPARATION INSTRUCTIONS – INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES Contractor shall submit to the IRB Authority, 36 months after the effective date of the contract, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV. For each IRB Transaction, the information submitted must be in the same format as that which was used for the IRB Proposal submitted at bid closing.			

MODULE C

TO

VOLUME 3

(This Module C to Volume 3 can be found after this page. The Module C has a structure, format and page numbering of its own.)

ANNEX CA TO VOLUME 3

STATEMENT OF WORK

FOR THE

OPTIMIZED WEAPON SYSTEM SUPPORT (OWSS)

FOR THE

INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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1	1 Introduction
1.1	1.1 Scope
1.1.1	1.1.1 ISS - Optimized Weapon System Support
1.1.1.0-1	The purpose of this Statement of Work (SOW) is to identify and define the scope of the Optimized Weapon System Support (OWSS) Services required to maintain and improve the newly acquired Canadian Integrated Soldier Systems (ISS) over its useful life.
1.2	1.2 Background
1.2.0-1	The ISS has been procured primarily to support Task Forces deployed on operations at extended distances from Canada. Although the ISS has been designed to have a high level of reliability and operational availability, the overall support system must be designed to adapt to the pace of pre-deployment training, support the intensity and ruggedness of unpredictable combat, and have the ability to maintain the ISS system at peak efficiency to meet the challenges of evolving threats. The integral Combat Service Support system, designed to provide the immediate response to return equipment to operational readiness, must be augmented by tailored support services capable of providing the full range of support services for ISS throughout its life cycle.
1.2.0-2	The Optimized Weapons Support System contract will augment the DND Combat Service Support Capability and provide specific core and task tailored support to the System throughout its life cycle. The OWSS contract will be amended over time to reflect additional work to be done via task directives and respective contract changes.
1.2.0-3	During the execution of the OWSS contract, the authorisation of product improvement activities will provide incremental design and implementation of additional capability and capacity, including any interim Integrated Logistic Support (ILS), on an if, as, and when required basis, to the initial ISS-S configuration provided under the Acquisition Contract. The product improvement activities are embedded into the OWSS Contract.
1.3	1.3 Guiding Concepts
1.3.1	1.3.1 Optimization Concept
1.3.1.0-1	In providing optimized support for the ISS, it must be understood by the Contractor that there will be a teaming relationship between the Canada and the Contractor that will evolve over the duration of the contract. The teaming relationship must not be interpreted to be a legal partnership. In this OWSS context, teaming must be interpreted as the understanding between the Canada and the Contractor that both parties must be flexible and work together when facing changes in laws, regulations, policies, organisations,

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	industry, technology and operational requirements.
1.3.2	1.3.2 Support Objectives
1.3.2.0-1	The Technical Authority's (TA) objectives for this in-service support are:
1.3.2.0-1.0-1	<ul style="list-style-type: none"> to manage and maintain the ISS in-service baseline;
1.3.2.0-1.0-2	<ul style="list-style-type: none"> the successful delivery and deployment of ISS product improvements;
1.3.2.0-1.0-3	<ul style="list-style-type: none"> the responsive resolution of field domain problems and mission specific requirements; and
1.3.2.0-1.0-4	<ul style="list-style-type: none"> the responsible management of resources to attain time, budget and quality objectives.
1.3.3	1.3.3 Performance-Based Assessment
1.3.3.0-1	The measure of the Contractor's success will be the successful completion of all its activities in support of the TA's objectives. The Contractor's performance will be assessed against performance bands defined in this SOW and in Annex CB to this Contract. The initially established performance baseline will be monitored regularly and the results will be used to provide guidance towards the areas requiring improvements during the life of this contract.
1.3.4	1.3.4 Equipment Covered
1.3.4.0-1	For the purpose of this SOW, the term ISS refers to the configuration baseline approved for production and the resulting approved ISS configuration baseline delivered as a result of product improvement activities. The equipment covered will also include all items required to support the ISS including:
1.3.4.0-1.0-1	<ul style="list-style-type: none"> any associated peripherals that are included as part of the ISS;
1.3.4.0-1.0-2	<ul style="list-style-type: none"> any external support equipment such as a battery charging system and/or vehicle installations;
1.3.4.0-1.0-3	<ul style="list-style-type: none"> all tools and test equipment that is specific to the support of ISS;
1.3.4.0-1.0-4	<ul style="list-style-type: none"> System Executive and Planning Suite (SEP-S);
1.3.4.0-1.0-5	<ul style="list-style-type: none"> any software (SW) and/or firmware (FW) that is specific to ISS, including the Battle Management System Software and any supporting operational software; and
1.3.4.0-1.0-6	<ul style="list-style-type: none"> any other associated equipment as yet undefined that will result from product improvement activities.

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1.3.5	1.3.5 Estimated Duration of Service
1.3.5.0-1	The expected in-service life of the production ISS is eight years, commencing after fielding. An additional period will be required in order to support the transition and fielding of the replacement system and disposal of the initial ISS. This OWSS Contract is expected to end after eleven years.
1.3.6	1.3.6 Support Concept
1.3.6.0-1	The purpose of the Support Concept is to:
1.3.6.0-1.0-1	<ul style="list-style-type: none"> ○ provide the ISS Contractor with a document to be used in the development of the Integrated Logistics Support Program. It provides information regarding mission cycles, projected usage and DND's internal support processes and programs. It is not structured as a procedures guide, but rather, will form the basis for the Contractor and DND's development of complimentary and supportive in-service processes for the ISS.
1.3.6.0-1.0-2	<ul style="list-style-type: none"> ○ provide DND stakeholders with a consolidated view of how the ISS will be used and supported through its lifecycle. During the in-service life of the ISS, the Support Concept will be used by the Equipment Maintenance Team (EMT) to develop DND support plans.
1.3.6.0-2	The Support Concept document is attached in Appendix 1 to this annex.
1.4	1.4 Not used
1.5	1.5 SOW Structure
1.5.0-1	The OWSS SOW is structured as follows:
1.5.0-1.0-1	<ul style="list-style-type: none"> ○ Section 1 is an Introduction providing information and insight into the project context and duration;
1.5.0-1.0-2	<ul style="list-style-type: none"> ○ Section 2 provides administrative information for references (Applicable Documents, Standards, Specifications and Publications), acronyms and glossary.
1.5.0-1.0-3	<ul style="list-style-type: none"> ○ Section 3 identifies the work requirements and defines the need for core and tasking activities; and
1.5.0-1.0-4	<ul style="list-style-type: none"> ○ Section 4 defines the work areas/capabilities that need to be performed.
2	2 Applicable Documents, Acronyms and Glossary
2.1	2.1 Applicable Documents

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2.1.0-1	The documents listed in Annex CE to this contract support this SOW and must be considered as supplemental information if not specifically identified in the text.
2.1.0-2	In the event of a conflict between the text of this SOW and the references cited herein the text of this SOW must take precedence.
2.1.0-3	In the event of inconsistency within the SOW, the Technical Authority must be contacted for clarification.
2.2	2.2 Standards, Specifications and Publications
2.2.0-1	The specifications, standards and publications are applicable to the extent specified herein (all are International, Canadian or United States government standards and specifications unless otherwise indicated) and are listed in Annex CE to this contract.
2.2.0-2	Canada will provide Government Furnished Information (GFI) referenced in Annex CE, sections 1.1 to 1.4, upon request from the Contractor.
2.2.0-3	International, National and Industry Standards, guidelines, specifications and publications are readily available publicly and commercially and will not be provided by Canada.
2.3	2.3 Acronyms and Glossary
2.3.0-1	A list of acronyms and a glossary can be found in Annex CE to this contract.
3	3 Requirements
3.1	3.1 Services Support Requirements
3.1.0-1	The services required from the Contractor include the following:
3.1.0-1.0-1	○ Program Management;
3.1.0-1.0-2	○ Supply Support;
3.1.0-1.0-3	○ Technical Support; and
3.1.0-1.0-4	○ Engineering Support.
3.1.0-2	<u>Available Resources.</u> The Contractor must have available, as a minimum, the labour categories identified in Appendix 2 to perform the Work specified in this SOW.
3.1.0-3	<u>Qualifications.</u> The Contractor must ensure that the minimum specified education and experience levels for the corresponding minimum labour categories are met.
3.1.0-4	<u>Bilingual Requirements.</u> The Contractor should have bilingual service available for the

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	following categories:
3.1.0-4.0-1	○ Field Service Representatives (FSR); and
3.1.0-4.0-2	○ Senior Life Cycle Material Management (LCMM) Support Specialist.
3.2	3.2 Core vs. Task Based Activities
3.2.1	3.2.1 Core Activities
3.2.1.0-1	Core activities are those minimal essential activities required to manage and maintain the fielded equipment and be capable of responding to operational requirements, on an on-going basis during the period of performance of this contract. Core activities generally include activities concerning monitoring, controlling and reporting.
3.2.1.0-2	The Contractor must complete core activities as directed by this SOW.
3.2.2	3.2.2 Task Based Activities
3.2.2.0-1	Task based activities (or tasks) are referred to by “if, as, and when required” in this SOW. These activities must be executed by the Contractor using a DND 626 Task Authorisation, using the process defined in Appendix 3 to this SOW.
3.2.2.0-2	These activities include, but are not limited to:
3.2.2.0-2.0-1	○ product improvements (software, firmware and hardware), including design, integration, verification/validation, supporting documentation changes, required to fulfill user requirements resulting from
3.2.2.0-2.0-1.0-1	• original operational and technical requirements not covered through the system acquisition in the area of system performance, power consumption, recharging capability, as well as sensor functions and integration,
3.2.2.0-2.0-1.0-2	• feedback from operational community on required product improvement and refinement based on user's lessons learned in operation,
3.2.2.0-2.0-1.0-3	• modifications required to adapt to changes to the operational environment and deployment, and
3.2.2.0-2.0-1.0-4	• modification required to perform voice and data integration with the new baseline of Land Command Support System (LCSS) resulting from the modification associated with the LCSS Life Extension (LE), the Combat Net Radio Enhancement (CNR(E)) and the new Family of Land Combat Vehicle (FLCV) projects. Those modifications may include changes to the messaging solution and communication protocols, integration of a Cross Domain Solution (CDS) and integration of a Type 1 radio;

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3.2.2.0-2.0-2	○ technical investigations and engineering support (TIES) and special investigations and technical studies (SITS);
3.2.2.0-2.0-3	○ development and execution of repair and test schemes on equipment;
3.2.2.0-2.0-4	○ investigation and recommendations on Technical Failure Reports (TFRs) and Unsatisfactory Condition Reports (UCRs) submitted by the TA;
3.2.2.0-2.0-5	○ carrying out failure analysis on repairable processed in-plant, monitoring and recording of failure trends, including findings reports and recommended solutions; and
3.2.2.0-2.0-6	○ equipment reconstitution.
3.2.2.0-3	The Contractor must not start any task based activity until receipt of a task authorisation (DND 626) approved by the PA.
4	4 Support Services
4.1	4.1 Program Management
4.1.1	4.1.1 Coordination and Management
4.1.1.0-1	Contractor Program Manager. The Contractor must formally appoint an experienced Program Manager to manage and coordinate all of the program and technical matters that are related to the services identified by this SOW.
4.1.1.0-2	Single Point of Contact. The Contractor Program Manager must be the single point of contact as it relates to the management of the ISS OWSS.
4.1.1.0-3	Program Management Plan (PMP). As a core activity, the Contractor must prepare a PMP and deliver it in accordance with Contract Data Requirement List (CDRL) PM-101 .
4.1.1.0-4	As a core activity, the Contractor must update the PMP for the duration of the Contract.
4.1.1.0-5	As a core activity, the Contractor must
4.1.1.0-5.0-1	○ implement and manage the Work in accordance with the approved PMP and its subordinate plans,
4.1.1.0-5.0-2	○ manage all risks identified in accordance with the approved PMP, and
4.1.1.0-5.0-3	○ report on all risks identified by the Contractor and Canada, and mutually agreed, through the Monthly Services Status Report discussed in paragraph 4.1.1.0-11 below.

4.1.1.0-6	As part of the Program Management plan, the Contractor must describe how all the OWSS support activities and outcomes in the SOW will be satisfied and managed. The description must include all of the deliverables identified within this SOW broken down between core activities and task based activities.
4.1.1.0-7	The Contractor's plan must detail in hours per month the level of effort (LOE) associated to the PMP, broken down by activities.
4.1.1.0-8	As a core activity, the Contractor must prepare for approval a Quality Assurance Plan (QAP) and deliver it in accordance with CDRL PM-102 .
4.1.1.0-9	Communication. It is important to maintain regular communications between the Contractor and Canada, especially during a period of operational deployment by the CF. Information exchanges should be frequent and provide advanced warning when possible. Most information exchanges will be accomplished through regular meetings or through written correspondence resulting from program activities.
4.1.1.0-10	Significant Incident Reports. As a core activity, the Contractor must immediately notify the TA of an event that may have significant impact on the ISS and the OWSS. Reports must be prepared and delivered in accordance with CDRL PM-103 . The TA will register and monitor all significant Incident Reports from receipt to resolution.
4.1.1.0-11	Monthly Services Status Report. As a core activity, the Contractor must prepare a Monthly Services Status Report and deliver it in accordance with CDRL PM-104 .
4.1.1.0-12	Meetings. Meetings held during the execution of this contract must be conducted in accordance with the following general terms:
4.1.1.0-12.0-1	Meetings must be convened at the Contractor's facility, unless stated otherwise in the SOW, or at an alternate location as agreed to by the Contractor and Canada.
4.1.1.0-12.0-2	The Contractor must provide a facility, cleared to the appropriate security level, of a size sufficient to accommodate the attendees.
4.1.1.0-12.0-3	The meetings must be co-chaired by Canada and the Contractor, unless specified otherwise.
4.1.1.0-12.0-4	Video or telephone conferences in lieu of face-to-face meetings are encouraged and may be convened as mutually agreed by the Contractor and Canada.
4.1.1.0-12.0-5	Whenever possible, face-to-face meeting schedules should be adjusted to coincide with other events requiring the presence of Canada personnel.
4.1.1.0-12.0-6	The Contractor must ensure that specific personnel responsible for work under discussion are physically present at the meetings, including sub-contractors as required, and that

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	supporting documentation required for review is available in advance whenever possible.
4.1.1.0-12.0-7	As a core activity, the meetings agendas must be prepared and delivered in accordance with CDRL PM-105 .
4.1.1.0-12.0-8	As a core activity, the Contractor must produce minutes and deliver them in accordance with CDRL PM-106 .
4.1.1.0-12.0-9	As a core activity, the action items (AIs) identified in these meeting minutes must be incorporated, by the Contractor, into an Issue-Action Item Log (IAIL) prepared and maintained by the Contractor; a copy of the log must be delivered in accordance with CDRL PM-107 . Status of these AIs must be reviewed at each PRM. The IAIL must be available on line via the EIE described below in section 4.1.7.
4.1.1.0-13	Program/Quarterly Review Meetings. As a core activity, the Contractor must conduct Program Review Meetings (PRM), quarterly. The Contractor, the CA, the TA and the PA must be appropriately represented.
4.1.1.0-14	Each PRM must address as a minimum the following items:
4.1.1.0-14.0-1	○ Program progress, authorised tasks progress, significant incident review, Spares orders status, and R&O status;
4.1.1.0-14.0-2	○ Risks and mitigation actions;
4.1.1.0-14.0-3	○ Tasks proposals status;
4.1.1.0-14.0-4	○ Issues - Engineering, ILS, CM/DM, EIE, QA, OM, EHS, Spares, R&O;
4.1.1.0-14.0-5	○ Action items status;
4.1.1.0-14.0-6	○ Financial issues; and
4.1.1.0-14.0-7	○ Contractor performance evaluation reviews (quarterly and annual reviews).
4.1.1.0-15	Kick-Off Meeting. The first PRM will be a formal Kick-Off meeting, within two weeks after contract start. The meeting must address as a minimum the following items:
4.1.1.0-15.0-1	○ Contractor briefing on how it will be organized to manage the contract;
4.1.1.0-15.0-2	○ roles and responsibilities of key personnel and points of contact;
4.1.1.0-15.0-3	○ key contract terms and program objectives;
4.1.1.0-15.0-4	○ timelines;

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4.1.1.0-15.0-5	○ deliverables;
4.1.1.0-15.0-6	○ communications - Procedures for monitoring and reporting progress;
4.1.1.0-15.0-7	○ procedures for managing risks and issues;
4.1.1.0-15.0-8	○ contract administration and contract change procedures; and
4.1.1.0-15.0-9	○ performance based evaluation framework.
4.1.1.0-16	The Contractor and/or Canada may schedule meetings/reviews, such as conferences, briefings and technical meetings, to help in achieving the requirements of the contract. These meetings/reviews will be conducted by audio or videoconference, as mutually agreed between the Contractor and Canada.
4.1.1.0-17	Action Items Follow-up. As a core activity, the Contractor must:
4.1.1.0-17.0-1	○ ensure that all action items identified during any meetings between the Contractor and Canada are entered into the IAIL during the meeting and agreed upon before the end of the meeting;
4.1.1.0-17.0-2	○ take action to address and complete the action items that are assigned to the Contractor, by the agreed-to date; and
4.1.1.0-17.0-3	○ seek approval by Canada in order to close an action item, or to annotate an action item as being completed.
4.1.1.0-18	Performance. The Contractor must perform in accordance with Annex CB, Appendix 1 , to achieve the following outcomes:
4.1.1.0-18.0-1	○ Management of the work in accordance with the PMP as specified in para 4.1.1.0-4 (CB-A1 #1);
4.1.1.0-18.0-2	○ Preparation and submission of CDRL Items in accordance with DID's in Annex CC as specified at para 4.1.1.0-3, 8, 10, 11 and 12 (CB-A1 #3);
4.1.1.0-18.0-3	○ Notification to TA of significant incident report as specified at para 4.1.1.0-10 (CB-A1 #7);
4.1.1.0-18.0-4	○ Management of meetings as specified in para 4.1.1.0-12, 13, 14, 15 and 16 (CB-A1 #6); and
4.1.1.0-18.0-5	○ Preparation and maintenance of IAIL as specified at para 4.1.1.0-12.0-9 and 4.1.1.0-17 (CB-A1 #5).
4.1.2	4.1.2 Program Performance Management System

4.1.2.0-1	<p>Program Performance Management System. An important objective of the OWSS is to establish and maintain a Program Performance Management System. The Initial Performance Levels are specified in the Performance Based Requirements (PBR) (Annex CB). These requirements form the Performance Baseline for Program Implementation. The Performance Requirements have both qualitative and measurable performance elements. Once established, the Performance Baseline will come under a formal Performance Monitoring Process. The primary objective of the Performance Monitoring Process is to measure and evaluate performance against the established baseline. The resulting performance evaluations may support DND's decision making process with respect to the award of contract option years, increased work efforts or expanded services/tasks based on proven efficiencies and capabilities, and provide insight into those areas that would benefit from performance improvements. These performance evaluation results will form the basis of lessons learned that DND may use on future requirements in the pursuit of what has not been contracted for yet (cycle 3 during which a new ISS separate competitive procurement process will be initiated).</p>
4.1.2.0-2	<p>Program Performance Management. The Contractor must be responsible for achieving the agreed performance targets specified in this SOW and associated Annex CB. Specifically, the Contractor must be responsible for achieving the performance targets specified in the Performance Based Requirements for Program Implementation and Execution. The responsibility for achieving the agreed performance is vested in the Contractor's Program Management. The Contractor's Program Management must make transparent the contribution from any of the Contractor's functional units, subcontractors or other suppliers.</p>
4.1.2.0-3	<p>Performance Baseline. The Performance Baseline is the agreed Performance Based Requirements as detailed in Annex CB to this contract. Those requirements form the baseline of the Performance Monitoring Process. The Performance Based Requirements will evolve over the period of the contract as a result of amendments to the OWSS Contract and these changes will be reflected in the Performance Monitoring Process.</p>
4.1.2.0-4	<p>Performance Monitoring Process. An important factor ensuring the overall effectiveness of the OWSS contract is having a common understanding of the expected level of performance, an agreed method of measurement and agreement on the results. Both parties will be responsible to perform an independent evaluation as detailed in the following paragraphs.</p>
4.1.2.0-5	<p>Contractor Performance Assessment. As a core activity, the Contractor will initiate the Performance Monitoring process by providing a self-assessment of his performance of Work on a quarterly basis against the current outcome criteria. The guidance for measurement is outlined in Annex CB, Appendix 1. The Contractor will submit its results with the applicable Quarterly PRM Agenda.</p>
4.1.2.0-6	<p>TA Assessment. The TA will complete also on a quarterly basis its assessment of the Contractor's performance for the same period against the outcome criteria and provide its</p>

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	assessment to the Contractor for their review and consideration.
4.1.2.0-7	Performance Resolution. Where there are differences in the evaluations completed by the respective parties, the differences must be discussed and resolved at the quarterly PRM.
4.1.2.0-8	Annual Performance Evaluation. An annual evaluation of the Contractor performance will be completed by aggregating all criteria based on the quarterly evaluations. This will be prepared for review at an Annual Performance Review Meeting convened by both Canada and the Contractor, for each Performance Period of the Contract, the period of performance being one year defined as a period from Contract Starting Date anniversary to the next Contract Starting Date anniversary minus one day. This Annual Review will be based on the cumulative quarterly assessments in accordance with Appendix 1 of Annex CB , and be presented at the first PRM following the end of the year.
4.1.2.0-9	Performance Improvement. As a core activity, the Contractor must develop and implement initiatives for corrective action and performance improvement to increase customer satisfaction when necessary. The effort on any given initiative shall not detract from the Contractor's responsibility for performance in other areas. The Contractor is also encouraged to recommend changes to the Performance Requirements which may result in improved efficiency and overall cost savings. Areas identified for Improvement or specific proposals are to be presented at the same time as the Annual Performance Evaluation. To assist this effort, Part II of Table 1 to Appendix 1 to Annex CB invites suggestions for Improvement.
4.1.2.0-10	Extraordinary Performance in Support of Operations. The ISS is a Deployable Weapons System. While the OWSS Performance Requirements are meant to reflect these circumstances and cover a wide range of performance scenarios, there will be times when an increased tempo of operations will result in demands for an increased level of service response. In these instances, the evaluations will have additional serials added to acknowledge the performance of support services provided to operations.
4.1.2.0-11	OWSS Performance Exception List (OPEL). There may be instances where the Contractor is unable to meet the performance requirements as a result of changing DND priorities and processes. In these instances, and as mutually agreed, the TA may grant specific performance relief to the Contractor on a case-by-case basis, providing the Contractor is able to demonstrate best efforts. As a core activity, the Contractor must maintain a consolidated list (OPEL) of agreed exceptions and include these in the Monthly Services Status Report. Each item of the OPEL must be addressed with a specific action plan, for which an OPI is assigned and a date of completion is committed to. An abnormal number of OPEL, as observed by Canada, will become the subject of a PRM.
4.1.2.0-12	Annual Level of Effort (LOE) Review. During the Contract, once a year at the PRM following the end of the Annual Performance Evaluation Review reporting period, the Contractor must present to the TA the previous year's aggregate of actual resource utilisation for purpose of verification by Canada. This LOE is directly related to the LOE

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	breakdown initially established at para 4.1.1.0-7.
4.1.2.0-13	Performance. The Contractor must perform in accordance with Annex CB, Appendix 1 , to achieve the following outcome:
4.1.2.0-13.0-1	<ul style="list-style-type: none"> Development and implementation of a performance improvement process as specified in para 4.1.2.0-9 (CB-A1 #2).
4.1.3	4.1.3 Task Management and Performance
4.1.3.0-1	Any work within the scope of this Contract that is not already covered by this SOW as a core activity will be performed using the Task Authorisation Process (DND626) described at Appendix 3 to this SOW. A detailed description of the work to be performed will be provided by DND using a Task Request. Upon acceptance of a Contractor Task Proposal by the TA, the Contractor will be assigned a Task Authorisation (DND 626), at which time the work will be allowed to start.
4.1.3.0-2	Task Proposals. Every Contractor's Task Proposal must address all the elements of the associated Task Request and outline the assumptions made, labour hours, material, schedule, risk, deliverables and cost breakdown. If a proposal is a firm fixed price proposal, it must be clearly identified as such in the proposal letter. Milestones and detailed cost breakdown must accompany a firm fixed price proposal.
4.1.3.0-3	Task Authorisations and Deliverables. If, as, and when required, the Contractor will be required to initiate and perform tasks based on specified requirements, to be defined throughout the duration of the OWSS Contract, and that are within the scope of this Contract. The Contractor must not commence activities until receiving a duly authorized Task Authorisation (DND 626). The Contractor must manage tasks as per the tasking procedures described at Appendix 3 to this SOW.
4.1.3.0-4	As a core activity, the Contractor must develop and maintain a list of authorised tasks including item number, title, brief description, current status and delivery time. The list must be reviewed at each PRM for deviations, and must be maintained up-to-date and available for viewing via the EIE.
4.1.3.0-5	Contractor's tasking performance will be reviewed during the regular PRM.
4.1.3.0-6	Priority and Response Time. Each task shall have a priority assigned to it by the TA depending on the nature and criticality of the requirement for the task. Notwithstanding the requirement of Appendix 3 to this SOW, when a task is in response to a problem report, the processing response time shall take into account the priority level of the need for a resolution to that problem. When urgent task support is required, the Contractor shall consider the rescheduling of other tasks, resulting in task amendments. Task priorities are defined as follows:
4.1.3.0-6.0-1	<ul style="list-style-type: none"> P1 - same as P1 for technical problem reports (TPR) defined in para 4.1.9.1.6

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	below;
4.1.3.0-6.0-2	○ P2 - same as P2 for TPR defined in para 4.1.9.1.6 below;
4.1.3.0-6.0-3	○ P3 - same as P3 for TPR defined in para 4.1.9.1.6 below;
4.1.3.0-6.0-4	○ P4 - same as P4 for TPR defined in para 4.1.9.1.6 below; and
4.1.3.0-6.0-5	○ P5 - normal business level for implementation of a task not related to a TPR, or a TPR for which priority is assigned as P5. The response time shall be in accordance with the timeline described in Appendix 3 to this SOW.
4.1.3.0-7	Performance. The Contractor must perform in accordance with Annex CB, Appendix 1 to achieve the following outcomes:
4.1.3.0-7.0-1	○ Delivery of Task Proposals as specified at Para 4.1.3.0-2 and 4.1.3.0-6 (CB-A1 #9 and 10);
4.1.3.0-7.0-2	○ Completion of the Tasks as specified at Para 4.1.3.0-3 and 4.1.3.0-6 (CB-A1 #8); and
4.1.3.0-7.0-3	○ Preparation and maintenance of list of authorised tasks as specified at para 4.1.3.0-4 (CB-A1 #11).
4.1.4	4.1.4 Configuration Management (CM)
4.1.4.0-1	Throughout this in-service support contract and as a core activity, the Contractor must maintain the Configuration Management (CM) program established during the execution of the ISS acquisition contract.
4.1.4.0-2	The CM program must ensure that the documentation continue to reflect the supported and approved product through all the changes and evolution implemented as task based activities during the execution of this contract.
4.1.4.0-3	As a core activity, the established configuration management program must continue to address, as a minimum, the following areas:
4.1.4.0-3.0-1	○ Configuration Management Plan;
4.1.4.0-3.0-2	○ Configuration Identification;
4.1.4.0-3.0-3	○ Configuration Control;
4.1.4.0-3.0-4	○ Configuration Status Accounting;
4.1.4.0-3.0-5	○ Configuration Audits, and

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4.1.4.0-3.0-6	○ Technical data.
4.1.4.1	4.1.4.1 Configuration Management Plan
4.1.4.1.0-1	As a core activity, the Contractor must update and deliver their Configuration Management Plan (CMP) which delineates the policies, procedures, and responsible personnel that will be employed to ensure that the configuration of the ISS is properly controlled and documented. The CMP must be prepared and delivered in accordance with CDRL CM-101 .
4.1.4.2	4.1.4.2 Configuration Identification
4.1.4.2.0-1	Should new Configuration Item (CI) with no NATO Stock Number (NSN) be introduced during the execution of this contract, if, as, and when required, the Contractor must prepare and deliver Supplementary Provisioning Technical Data (SPDT) in accordance with CDRL LS-101 .
4.1.4.3	4.1.4.3 Configuration Control
4.1.4.3.0-1	As a core activity, the Contractor must prepare and submit Engineering Change Proposals (ECP) in accordance with CDRL CM-102 to request authorization to make changes to the approved product baseline configuration or to a particular performance or design requirement of the contract, specification or document. If and when approved, an ECP will be implemented as a task based activity.
4.1.4.3.0-2	As a core activity, the Contractor must submit an impact analysis on cost, schedule, ILS, human factor engineering, environment and health and safety with each ECP that changes any of the following characteristics: fit, form, function or performance outside of specified limits. ECPs that do not change fit, form, function and performance outside of specified limits do not need DND's approval but must be provided as info without the full impact analysis.
4.1.4.3.0-3	As a core activity, the Contractor must prepare and submit Requests for Deviation (RFD) and/or Requests for Waiver (RFW) in accordance with CDRL CM-103 . A RFD describes a requested departure from a Contract requirement for a specified period of time and/or a specified number of units. A RFW obtains authorization to deliver non-conforming material which may not meet prescribed documentation but is suitable for use as is or after repair and/or retrofit
4.1.4.3.0-4	As a core activity, the Contractor must prepare and submit a Specification Change Notice (SCN) in accordance with CDRL CM-104 to describe changes to specification concurrently with the preparation of a related ECP, for each specification which would require revision if the ECP were to be approved. The SCN should only state the exact change proposed to the specification.

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4.1.4.3.0-5	As a core activity, the Contractor must prepare and submit a Notice of Revision (NOR) in accordance with CDRL CM-105 to describe the exact change(s) to be made to each drawing, associated list, or other affected document(s) when specified as a data requirement(s) in the contract. NOR are normally applicable where document(s) affected by an ECP are not controlled by the ECP preparing activity.
4.1.4.4	4.1.4.4 Configuration Status Accounting
4.1.4.4.0-1	As a core activity, the Contractor must prepare CSA reports and deliver them in accordance with CDRL CM-106 . CSA reports must be submitted with the Monthly Services Status Report (para 4.1.1.11).
4.1.4.4.0-2	If, as, and when required, for software CIs, the Contractor must update and process Software Version Description Documents in accordance with CDRL CM-107 for new software revision.
4.1.4.5	4.1.4.5 Configuration Audits
4.1.4.5.0-1	If, as, and when required, the Contractor must identify, schedule and conduct the following configuration audits:
4.1.4.5.0-1.0-1	○ Functional Configuration Audits (FCA); and
4.1.4.5.0-1.0-2	○ Physical Configuration Audits (PCA).
4.1.4.5.0-2	If, as, and when required, the Contractor must produce an Audit Plan for each FCA and PCA conducted. The plans must be prepared and delivered in accordance with CDRL CM-108 .
4.1.4.5.0-3	If, as, and when required, the Contractor must prepare and submit an Audit Report for DND approval in accordance with CDRL CM-109 following completion of the respective audits.
4.1.4.5.0-4	For each audit conducted and upon approval of the audit report, and closure of related Action Items (AIs), if, as, and when required, the Contractor must prepare, in Contractor format, a certification for approval by the ISSP PMO. The certification package will include:
4.1.4.5.0-4.0-1	○ proof of AIs closure;
4.1.4.5.0-4.0-2	○ updated baseline; and
4.1.4.5.0-4.0-3	○ final certification sheet.
4.1.4.6	4.1.4.6 Technical Data

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4.1.4.6.0-1	The Contractor must provide access to its technical data (engineering drawings, data list and reference documents) depicting the ISS product delivered, when requested by the TA for viewing.
4.1.4.7	4.1.4.7 Performance
4.1.4.7.0-1	The Contractor must perform in accordance with Annex CB, Appendix 1 , to achieve the following outcomes:
4.1.4.7.0-1.0-1	<ul style="list-style-type: none"> ○ Preparation and submission of CDRL Items in accordance with DIDs in Annex CC as specified in para 4.1.4.1.0-1, 4.1.4.2.0-1, 4.1.4.3.0-1, -3, -4, -5, 4.1.4.4.0-1, -2, 4.1.4.5.0-2 and -3 (CB-A1 #3); and
4.1.4.7.0-1.0-2	<ul style="list-style-type: none"> ○ Submission of impact analysis as specified at para 4.1.4.3.0-2 (CB-A1 #12).
4.1.5	4.1.5 Data Management (DM)
4.1.5.0-1	Throughout this in-service support contract and as a core activity, the Contractor must maintain the Data Management Program established during the execution of the acquisition contract, to control access to and delivery of contract data deliverables.
4.1.5.0-2	As a core activity, the Contractor must update and maintain his Technical Data Management Plan (TDMP) previously prepared, delivered and approved during the execution of the acquisition contract, which delineates the policies, procedures, and responsible personnel that will be employed to ensure that the data management of the ISS is properly maintained and documented. Preparation and delivery must be in accordance with CDRL DM-101 .
4.1.5.1	4.1.5.1 Deliverable Data
4.1.5.1.0-1	The Contractor must prepare and deliver, for DND approval/acceptance, all data specified in the Contract Data Requirements List (CDRL), in accordance with instructions contained in each Data Item Description (DID) contained in Annex CC .
4.1.5.1.0-2	As required, the Contractor must revise and resubmit all data items within 15 working days (WD) of receipt of DND comments, unless specified otherwise.
4.1.5.1.0-3	The Contractor must maintain and revise all data items if, as, and when required to reflect approved changes to the Contract.
4.1.5.2	4.1.5.2 Delivery of Data
4.1.5.2.0-1	The TA will notify the Contractor within 15 WD of the effective start date of this Contract, the points of delivery for the data deliverables. Such notice will include the name, organisation, job title, postal and e-mail addresses, telephone and facsimile

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	numbers. The TA may, by notice, change these delivery addresses at any time.
4.1.5.2.0-2	As a core activity, the Contractor must notify the TA within 15 WD of the effective start date of this Contract, the points of delivery for TA's responses. Such notice must include the name, organisation, job title, postal and e-mail addresses, telephone and facsimile numbers. The Contractor may, by notice, change these delivery addresses at any time.
4.1.5.2.0-3	The Contractor must produce and deliver data items in a format compatible with MS Office 2003 for documents and in a format compatible with MS Project 2003 for schedules.
4.1.5.2.0-4	As a core activity, the Contractor must make available to the TA any or all Contractor policies and procedures, or other data that are referred to in this SOW or in the Contractor's data items, whenever a request is received from the TA. The Contractor must make available the data requested within five working days of receiving a request.
4.1.5.3	4.1.5.3 Delivery of Data via Electronic Information Environment (EIE)
4.1.5.3.0-1	Data items shall be delivered via the EIE described in the next section. The purpose of the EIE is to ensure timely delivery and access to required information.
4.1.5.3.0-2	The Contractor must notify the TA whenever a data item cannot be delivered via the EIE and propose an alternative interim means of delivery. Use of an alternate means of delivery must not preclude compliance with the delivery date for the respective data item. The Contractor must post the data item on the EIE when it is possible.
4.1.5.4	4.1.5.4 Management of Data
4.1.5.4.0-1	As a core activity, the Contractor must manage ISSP data deliverables and other related data within the EIE.
4.1.5.4.0-2	As a core activity, the Contractor must manage GFI in accordance with the Terms and Conditions of the Loan Agreement to contractors in Annex CD .
4.1.5.4.0-3	As a core activity, the Contractor must prepare and maintain a Contract Data Requirements List Item Register accessible via the EIE.
4.1.5.4.0-4	This register must contain the following fields as defined in Annex CC and the history of transactions of each CDRL as per the following:
4.1.5.4.0-4.0-1	○ Item #;
4.1.5.4.0-4.0-2	○ Submission # (Rev #);
4.1.5.4.0-4.0-3	○ Submission Type (Original or Revision);

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4.1.5.4.0-4.0-4	○ Title;
4.1.5.4.0-4.0-5	○ Linked event / Milestone;
4.1.5.4.0-4.0-6	○ Due Date;
4.1.5.4.0-4.0-7	○ Date Sent;
4.1.5.4.0-4.0-8	○ Contractor Documentation Reference;
4.1.5.4.0-4.0-9	○ Contractor Document #;
4.1.5.4.0-4.0-10	○ Contractor Document Date;
4.1.5.4.0-4.0-11	○ TA Comments Due Date;
4.1.5.4.0-4.0-12	○ TA Comments Received Date;
4.1.5.4.0-4.0-13	○ Approval Code Ap (Approval), Ac (Acceptance) or R (Review);
4.1.5.4.0-4.0-14	○ TA Response Reference; and
4.1.5.4.0-4.0-15	○ Remarks.
4.1.5.4.0-5	As a core activity, the Contractor's Data Manager must review with the DND Configuration Manager, on a mutually agreed frequency, the status of CDRL items, and the CDRL Item Register for completeness, accuracy and clarity, and perform the required amendments.
4.1.5.4.0-6	As a core activity, the Contractor must make the CDRL Item Register available for review by the TA via the EIE within two months after Contract start (MACS) and maintain its availability throughout the duration of the Contract.
4.1.5.5	4.1.5.5 Notification of Data Delivery
4.1.5.5.0-1	The Contractor must notify the CA and the TA that the data deliverable is available on the EIE for review, approval, acceptance or information as applicable.
4.1.5.5.0-2	The Contractor must include the following information in its notification:
4.1.5.5.0-2.0-1	○ CDRL Item number;
4.1.5.5.0-2.0-2	○ document revision number and date;
4.1.5.5.0-2.0-3	○ title of the document; and

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4.1.5.5.0-2.0-4	○ contract number.
4.1.5.6	4.1.5.6 Performance
4.1.5.6.0-1	The Contractor must perform in accordance with Annex CB, Appendix 1 , to achieve the following outcomes:
4.1.5.6.0-1.0-1	○ Preparation and submission of CDRL Items in accordance with DIDs in annex CC as specified at para 4.1.5.0-2, 4.1.5.1.0-1 (CB-A1 #3); and
4.1.5.6.0-1.0-2	○ Submission of revised CDRL Items as specified at para 4.1.5.1.0-2 (CB-A1 #4).
4.1.6	4.1.6 Intellectual Property
4.1.6.0-1	As a core activity, the Contractor must prepare and submit Intellectual Property (IP) Lists identifying the intellectual property used by and developed under the Contract in accordance with CDRL PM-108 . The Intellectual Property Lists will identify the background and foreground intellectual property used and developed by the Contractor in carrying out the Contract.
4.1.7	4.1.7 Electronic Information Environment (EIE)
4.1.7.1	4.1.7.1 Scope
4.1.7.1.0-1	The Contractor must continue to manage and maintain (as a core activity) and evolve (as a task based activity) the EIE system initially provided during the execution of the acquisition contract to enable DND to continue to securely access the OWSS Contracts and ISS data.
4.1.7.1.0-2	As a core activity, the Contractor must provide authorized users with access to required data to perform their activities in support of the in-service support of the ISS.
4.1.7.2	4.1.7.2 General Features
4.1.7.2.0-1	From initiation of the contract, the EIE may evolve to provide increased capabilities; evolution will be the result of authorised tasks.
4.1.7.2.0-2	As a core activity, the content (data) must initially be made available as specified in the acquisition SOW. The EIE must provide access to the product related data.
4.1.7.2.0-3	The EIE must provide remote bi-directional access, between DND and the Contractor, to the Contract data items for all in-service support activities.
4.1.7.3	4.1.7.3 Web-browser Based Access
4.1.7.3.0-1	The EIE must provide users with access to data, through the use of DND's standard

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	Internet browser application, currently Windows Internet Explorer 7.
4.1.7.4	4.1.7.4 EIE Access
4.1.7.4.0-1	<u>As a core activity</u> , the Contractor must provide and maintain user account management services to establish and administer user accounts for the EIE.
4.1.7.4.0-2	Access to the EIE must be controlled via the use of passwords, which will be managed by the Contractor as a core activity.
4.1.7.4.0-3	The EIE must be accessible to authorised members of the TA support team in the performance of their activities 24 hours a day, 7 days a week, excluding Contractor planned down time.
4.1.7.4.0-4	The EIE must provide access to the latest released technical data.
4.1.7.4.0-5	The EIE must allow a user to electronically access, transfer, and post an electronic copy of CDRLs, data items (DI), Life cycle data, Project Management data, engineering change process, design reviews and other data as necessary to support the review and use of data by the TA in the performance of their activities.
4.1.7.5	4.1.7.5 Extended Functionality Requirements
4.1.7.5.0-1	The Contractor must support the EIE evolution through extended functionality via the use of Task Authorisations.
4.1.8	4.1.8 Quality Management
4.1.8.0-1	As a core activity, the Contractor must implement a Quality Management System to conduct the Work, in accordance with its PMP and its in-house Quality Management System.
4.1.8.0-2	As a core activity, the Contractor must perform Quality Management in accordance with the approved QAP.
4.1.8.0-3	As a core activity, the Contractor must provide the DND Quality Assurance Representative (QAR) with access to the Quality System, within 48 hours of receiving a visit request, to ensure the activities performed by the Contractor are in accordance with the processes and procedures detailed in the QAP.
4.1.8.0-4	As a core activity, the Contractor must provide corrective measures for all non-conformances identified by the DND QAR. The measures must address non-conformance from the prescribed or documented procedures or instances of poor practices which might have an adverse effect upon the quality of the ISS.
4.1.9	4.1.9 Technical Problem Management System

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4.1.9.1	4.1.9.1 Technical Problem Management (TPM)
4.1.9.1.0-1	As a core activity, the Contractor must provide and maintain a responsive TPM capability to support the identification, investigation and resolution of technical problems of the ISS.
4.1.9.1.0-2	The Contractor must provide this service no later than the delivery of the first ISS equipment.
4.1.9.1.0-3	The Contractor must:
4.1.9.1.0-3.0-1	<ul style="list-style-type: none"> ○ as a core activity, collect, monitor, and analyse information concerning product technical defects and performance deficiencies, non-conformances against technical performance requirements and engineering specifications, contractual requirements, and inventory status. This should include information from any sub-contractors. Any deviations must be recorded in Technical Problem Reports (TPRs) , from both internal (Contractor origin) and external (TA origin) sources;
4.1.9.1.0-3.0-2	<ul style="list-style-type: none"> ○ for problems requiring resolution and as a core activity, classify them in terms of category and priority in collaboration with the TA;
4.1.9.1.0-3.0-3	<ul style="list-style-type: none"> ○ as a core activity, identify possible solutions or courses of action i.e. recommend increased monitoring and the appropriate technical resources required;
4.1.9.1.0-3.0-4	<ul style="list-style-type: none"> ○ should a task based activity result from the above steps, upon receipt of a task authorisation, investigate, develop and implement a corrective action plan; and
4.1.9.1.0-3.0-5	<ul style="list-style-type: none"> ○ as a core activity, track the problem resolution status.
4.1.9.1.0-4	As a core activity, the Contractor must submit all TPRs, to the TA, for his concurrence.
4.1.9.1.0-5	Once concurred with by the TA, a request for a task based activity may be raised by the TA to start the investigative work and to develop a corrective action plan to correct a reported technical problem and prevent its recurrence.
4.1.9.1.0-6	Priority and Response Time. Corrective action plans shall take into consideration the priority level assigned to the technical problem, which will also be reflected in the priority of the task. The Contractor's response to technical problem shall be in accordance with the priorities defined in the table below:

4.1.9.1.0-7	Priority	Definition	Response Time
	1	Any problem that prevents the accomplishment of an operational or mission critical capability jeopardizing safety, security, or any other requirement designated critical. This can be further defined as any problem that causes or has the potential to cause a failure that results in complete denial of a capability.	Contractor must respond within 24 hours with a technical solution, which either resolves the problem, or at worst must provide a reasonable work-around thereby downgrading the problem to a priority 3.
	2	Any problem that causes the loss of or denies the use of a function of an operational or mission critical capability and there is, at the time, no reasonable work around.	Contractor must respond within 48 hours with a technical solution that resolves the problem, or at worst must provide a reasonable work-around thereby downgrading the problem to a priority 3.
	3	Any problem that causes the loss of or denies the use of a particular function of a capability and there is a reasonable workaround.	The Contractor must respond within 10 working days with a technical solution, which resolves the problem.
	4	Any problem that results in user/operator inconvenience or annoyance but does not prevent the user/operator from performing any function.	The Contractor must respond within 20 working days with a technical solution, which resolves the problem.
	5	Any other problems/defects.	The Contractor must respond within 65 working days with a technical solution, which resolves the problem.
4.1.9.2	4.1.9.2 Technical Problem Management		
4.1.9.2.0-1	As a task based activity, the Contractor must develop a task proposal for a recommended solution/corrective action plan with appropriate engineering change proposal if required, for technical problems in which DND is causally involved in part or in whole.		

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4.1.9.3	4.1.9.3 Performance
4.1.9.3.0-1	The Contractor must perform in accordance with Annex CB, Appendix 1 , to achieve the following outcome:
4.1.9.3.0-1.0-1	<ul style="list-style-type: none"> ○ Response time to technical problems as specified at para 4.1.9.1.0-6 (CB-A1 #10).
4.1.10	4.1.10 Obsolescence Management (OM)
4.1.10.0-1	Obsolescence Management (OM) Support. As a core activity, the Contractor must provide Obsolescence Management Services for the ISS. Obsolescence is defined as the loss or impending loss of the last known manufacturer or supplier of raw materials, production parts or repair parts. OM consists of those activities necessary to monitor, analyze and report obsolescence issues. If, as, and when required, the implementation of an OM solution must be performed under a Task with a resulting Spare Parts order.
4.1.10.0-2	OM Candidates List. As a core activity, the Contractor must maintain and deliver for information an Obsolescence Management Candidates List (OMCL) in accordance with CDRL LS-102 .
4.1.10.0-3	OM Issues Report. As a task based activity, the Contractor must provide the Technical Authority (TA) an Obsolescence Management Issues Report (OMIR) in accordance with CDRL LS-103 . The OM Issues Report must outline the specifics of a pending issue for those sub-systems or component parts that represent the most significant and highest risk in terms of obsolescence. A component must be considered to be a high risk if it is on the OMCL and will become obsolete within one year or less. Based upon the Contractor's recommendation, the TA may request that an OM solution be performed under an authorized task or through spare parts procurement.
4.1.10.0-4	Performance. The Contractor must perform in accordance with Annex CB, Appendix 1 to achieve the following outcome:
4.1.10.0-4.0-1	<ul style="list-style-type: none"> ○ provision of an effective OM system as specified at para 4.1.10.0-1 (CB-A1# 13); and
4.1.10.0-4.0-2	<ul style="list-style-type: none"> ○ Preparation and submission of CDRL Items, in accordance with DIDs in Annex CC as specified at para 4.1.10.0-2 and 3 (CB-A1 #3).
4.1.11	4.1.11 Environmental Health and Safety (EHS) Support
4.1.11.0-1	The Contractor must provide EHS support on a continuous basis as detailed below.
4.1.11.1	4.1.11.1 General
4.1.11.1.0-1	The Contractor must consider, incorporate and document EHS into the decision making

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	process throughout the OWSS execution.
4.1.11.1.0-2	The Contractor must not increase the hazard risk, or the number of controlled substances in any changes to the existing configuration without a measureable increase in equipment performance that is authorized by the Technical Authority. For any proposed changes, the Contractor must review the Canadian Forces Supply System (CFSS) material listing for an existing suitable product before recommending introduction of a new product into the CFSS inventory.
4.1.11.1.0-3	New or amended support documentation, such as Canadian Forces Technical Orders (CFTOs) must be incorporated with appropriate EHS warnings and instructions in direct relation to the EHS risks presented in the contents.
4.1.11.1.0-4	As a core activity, the Contractor must provide for and allow DND inspection and monitoring of EHS documentation throughout the life of the contract.
4.1.11.1.0-5	The Contractor must comply with DND policies, orders, directives, instructions and best practices when accessing DND owned or controlled lands, buildings or equipment.
4.1.11.1.0-6	The Contractor shall be held liable for any damages caused by the Contractor's improper packaging, labelling or carriage of goods/products.
4.1.11.1.0-7	The Contractor must ensure that revisions to the specifications, standards, support documents and test programs are reviewed for EHS compliance. The contractor must incorporate into the technical publications the appropriate EHS warnings and instructions in direct relations to new EHS risks.
4.1.11.1.0-8	As a core activity, the Contractor must advise the TA and obtain approval prior to incorporating any new materials that impact EHS. The ECP (4.1.4.3.0-1) must address such change.
4.1.11.1.0-9	Upon request by the TA, the Contractor must implement design changes, or changes to processes or other equipment, that TA identifies to reduce environmental impact and hazards. The Contractor may propose additional measures.
4.1.11.1.0-10	The TA may request that the Contractor incorporate changes to the equipment or program equipment and services in response to the promulgation of new or amended EHS legislation, DND policies or directives.
4.1.11.1.0-11	The Contractor must distribute, as directed by the TA, the Hazardous Material Profiles of the supported equipment.
4.1.11.2	4.1.11.2 Compliance
4.1.11.2.0-1	The Contractor must comply in all respects with Environmental, Health and Safety legislations, such as the Canadian Environmental Protection Act, Canadian Environmental

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	Assessment Act, Hazardous Products Act, Transportation of Dangerous Goods Act, Canada Labour Code, and their regulations, in force in relation to the provision of Services. Where the provisions of any such legislation are implemented by the use of voluntary agreements or codes of practice, the Contractor must comply with such agreements or codes of practices as if they were incorporated into Canada law subject to those voluntary agreements being cited in tender documentation. The Contractor must comply with laws applicable to the performance of the Contract, regardless of them being identified, or not, within the tender. The Contractor must provide evidence of compliance with such laws to Canada at such times as Canada may reasonably request.
4.1.11.2.0-2	The Contractor must ensure that the provision of the goods and services are fully compliant with Canadian Legislation or regulations. When non-compliance occurs the Contractor must advise DND.
4.1.11.3	4.1.11.3 Hazardous Products
4.1.11.3.0-1	Canada Labour Code, Part II dictates that the least hazardous materials should be used at the workplace. Therefore, the Contractor is to strive to use the least hazardous product that meets the requisite performance requirements.
4.1.11.3.0-2	The Contractor must include within the Environmental, Health and Safety Assessment (EHSA) Material Safety Data Sheets (MSDS) for all products/materials, which are used in the operation and maintenance of the Work, that fall under the Hazardous Products Act, R.S.C. 1985, c. H-3 and regulation(s) there under in accordance with the said Act and regulation(s).
4.1.11.4	4.1.11.4 Controlled Products
4.1.11.4.0-1	Controlled products are defined as products containing substances:
4.1.11.4.0-1.0-1	<ul style="list-style-type: none"> ○ Regulated and proposed to be regulated under the Canadian Environmental Protection Act (CEPA);
4.1.11.4.0-1.0-2	<ul style="list-style-type: none"> ○ Listed in Schedule I, Toxic Substances List under the CEPA;
4.1.11.4.0-1.0-3	<ul style="list-style-type: none"> ○ Targeted chemicals subject to the National Pollutant Release Inventory;
4.1.11.4.0-1.0-4	<ul style="list-style-type: none"> ○ Targeted by the Chemicals Management Plan - List of Challenge Substances; and/or
4.1.11.4.0-1.0-5	<ul style="list-style-type: none"> ○ Targeted under the Accelerated Reduction/Elimination of Toxic Substances Program.
4.1.11.4.0-2	The use of any controlled products, as part of the Work under this Contract, must be submitted for review and approval through the TA before use. The use of controlled products must be reviewed in consultation with the TA, to determine whether replacement

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	by other less hazardous products (IAW the Canada Labour Code, Part II) that meet performance requirements can be utilised, and if so, to replace these controlled products with products of less hazard. It is DND policy to restrict or eliminate the use of controlled products. The promulgation of new or amended legislations, regulations, policies or directives throughout this Contract period may necessitate changes to support processes and activities. These changes must be incorporated as required to ensure compliance throughout the contract period.
4.1.11.4.0-3	Controlled Products Listing. As part of any subcontract/sublet requirement raised by the Contractor in support of the Work, the subcontract/sublet must include a clause for the use of the least hazardous Controlled Product necessary, while maintaining operation effectiveness. Controlled Products that are banned must not be used. When a Controlled Product must be used, the Contractor must provide justification for its use and obtain TA approval prior to use. The Contractor must supply the TA with the respective Material Safety Data Sheets for all hazardous material products listed.
4.1.11.4.0-4	The Contractor must submit a request to the Technical Authority for approval for the use of any controlled products. The use of controlled products must be reviewed in consultation with Technical Authority, to determine whether replacement by other less hazardous products (IAW the Canada Labour Code, Part II) that meet performance requirements can be utilised, and if so, to replace these controlled products with products of less hazard. It is DND policy to restrict or eliminate the use of controlled products.
4.1.11.4.0-5	The Contractor must avoid the use of any controlled products/substances, as part of the Work under this Contract, where feasible and as dictated by regulatory requirements.
4.1.11.4.0-6	Controlled Products Instructions: The Contractor must ensure that appropriate instructions regarding the handling, use, transportation, storage and disposal of Controlled Products are contained in the EHS documentation.
4.1.11.4.0-7	The Contractor shall be responsible for the change of any products used in the provision of the goods or services that are not in compliance with Canadian legislation or regulations at their own expense.
4.1.11.5	4.1.11.5 Hazardous Materials Restrictions
4.1.11.5.0-1	The following specified hazardous substances are restricted in the following manner:
4.1.11.5.0-1.0-1	<ul style="list-style-type: none"> ○ The Contractor must not utilize a halocarbon identified within Schedule 1, items 1 to 9, 11, and 12 of the Federal Halocarbon Regulations;
4.1.11.5.0-1.0-2	<ul style="list-style-type: none"> ○ Halocarbons as identified within the Ozone-Depleting Substances Regulations must not be incorporated into the design, operation or maintenance of equipment, products, or support services;
4.1.11.5.0-1.0-3	<ul style="list-style-type: none"> ○ Asbestos and Polychlorinated Biphenyls (PCBs) must not be incorporated into the

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	design, operation or maintenance of equipment, products, or support services; and
4.1.11.5.0-1.0-4	○ Mercury as follows:
4.1.11.5.0-1.0-4.0-1	<ul style="list-style-type: none"> • The Contractor must comply with all Mercury Regulations in effect throughout the conduct of the Work.
4.1.11.5.0-1.0-4.0-2	<ul style="list-style-type: none"> • Products containing mercury must comply with mercury content limit as identified in the promulgated Mercury Regulations. <p>Source Environment Canada: http://www.gazette.gc.ca/rp-pr/p1/2011/2011-02-26/html/reg4-eng.html</p>
4.1.11.5.0-1.0-4.0-3	<ul style="list-style-type: none"> • Where the equipment utilizes mercury, in any shape or form, contained or used within the design, operation and maintenance of equipment, support tooling, products or materials used or consumed, they must be identified and associated with their physical location within or on the Work provided. The Contractor must provide the following for each occurrence of mercury in tabular format to the Technical Authority (TA): <ul style="list-style-type: none"> i. Equipment NSN (for equipment containing mercury); ii. Equipment Description; iii. NSN or Defence Resource Management Information Systems (DRMIS) unique identifier of the item containing Mercury (if it exists); iv. Manufacturer of the mercury-containing item; v. Date of manufacture of the mercury-containing item; vi. Manufacturer part number of the mercury-containing item; vii. NATO Supply Code for Manufacturers (NSCM) of the mercury-containing item /Commercial and Government Entity (CAGE) Code; viii. Description of the mercury-containing item; ix. The form of mercury (e.g. liquid, vapour, amalgam, metal halide); x. Quantity of mercury (kg mass); xi. Volume of mercury (L) and its concentration in ppm [provided either mass or volume/concentration of mercury, but not both]; xii. The location of the mercury-containing item(s); xiii. Quantity of mercury-containing item per reported equipment; xiv. Total Quantity of mercury within the reported equipment (for kg mass and volume/concentration); and

	xv. Material Safety Data Sheet, where possible.
4.1.11.5.0-1.0-4.0-4	<ul style="list-style-type: none"> The Contractor must ensure that consumable products and equipment containing mercury are labelled in a readily visible location. The information must be in characters that are at least 3 mm in height, legible and indelible and that are impressed, embossed or in a colour that contrasts with the label's background or the colour of the product as applicable. The label must be enclosed by a borderline and easily distinguishable from other graphic material on the product or its package. The label must be bilingual and include the following: <ul style="list-style-type: none"> i. a statement "CAUTION/MISE EN GARDE" in characters that are at least 4 mm in height; ii. a statement that the product contains mercury and the content of mercury in the product in milligrams or, in the case of a product found in the 'Substances Contained in Certain Products' Table from the Mercury Regulation source in Para 4.1.11.5.0-1.0-4.0-2, a statement that the quantity of the toxic substance is less than or equal to the Maximum Quantity listed in the table. iii. information on the action to be taken in case of accidental breakage and a description of the risks associated with the use of the product, the address of a website that contains the information, or contact information for a person who can provide that information; iv. information on the options available for proper disposal and recycling in accordance with the laws of jurisdiction where the disposal or recycling to take place, the address of a website that contains the information, or contact information for a person who can provide that information; v. a warning that the product is to be managed in accordance with the applicable disposal or recycling laws; and vi. the "Hg" symbol encircled by a line on a readily visible location on the product where the characters are at least 3 mm in height which are impressed, embossed or in a colour that contrasts with the label's background or the colour of the product as applicable. Note: Hg symbol stands for mercury.
4.1.11.5.0-1.0-4.0-5	<ul style="list-style-type: none"> If the product is not large enough to accommodate the information, the information must be: <ul style="list-style-type: none"> i. in a readily visible location on the package in which the product is sold or offered for sale; or ii. in a notice attached to the product or in a manual that accompanies the product, if there is no package, or if the package is not large enough to accommodate the information; and

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	iii. in both official languages.
4.1.11.5.0-2	Technical documentation must include warnings for equipment containing mercury and must identify work procedures for safe handling of mercury including PPE, spill clean up and disposal.
4.1.11.6	4.1.11.6 Occupational Health and Safety
4.1.11.6.0-1	The design, engineering, procurement, installation, operation, and maintenance of equipment and installations must be compliant with the provisions contained in standards, legislation and best practices, specifically Canada Labour Code, Part II, the Canada Occupational Health and Safety Regulations, and any referenced standard. Where there is a known standard (i.e. international) that is more stringent; then it must be considered as the minimum requirement to ensure all health and safety considerations are incorporated and conformance to regulations.
4.1.11.6.0-2	As a core activity, the contractor must maintain an Occupational Health and Safety Management System (OHSMS), which is consistent with the principles presented in OHSAS 18001, throughout the OWSS execution.
4.1.11.6.0-3	It is DND / CF policy to maintain a program of General Safety, which ensures that safety considerations are incorporated into every aspect of departmental operations including training and support activities.
4.1.11.6.0-4	The Contractor must comply with the requirements of the general safety program in the development, maintenance and provision of the project. Where work is performed at government owned facilities, the contractor must implement a general safety program for OWSS activities of the project that must conform to the following publications, which contain the major occupational health and safety regulatory instruments that have been approved for application throughout DND and the CF:
4.1.11.6.0-4.0-1	○ A-GG-040-004/AG-001 - General Safety Program - Volume 1, Policy and Program;
4.1.11.6.0-4.0-2	○ C-02-040-007/TS-001- General Safety Precautions;
4.1.11.6.0-4.0-3	○ C-02-040-009/AG-001 – General Safety Program - General Safety Standards; and
4.1.11.6.0-4.0-4	○ Canada Labour Code, Part II.
4.1.11.7	4.1.11.7 Environmental Health and Safety Management System (EHSMS)
4.1.11.7.0-1	As a core activity, the Contractor must maintain a management system in place throughout the OWSS execution to control environmental, health and safety impacts resulting from their activities, products or services. ISO 14001 - Environmental Management Systems; Specification with Guidance for Use - is a benchmark for an

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	effective environmental management system (EMS) applicable to all types and sizes of organizations. Certification to this standard is preferred but not necessary. The Contractor must, however, have a formalized set of procedures and control measures in place to achieve conformance with the requirements of this Work, while ensuring environmental, health and safety protection and pollution prevention. The EMS requirement is applicable to the Contractor. The TA must have the right to make examinations and audits of the Work and control processes/procedures and infrastructure with respect to the environmental, health and safety management system as they may think fit.
4.1.11.7.0-2	The EMS requirement is applicable to the Contractor, and all subcontractors that may provide support to the Contract requirements. The Contractor must make reasonable effort to monitor that all subcontractors are in compliance with applicable environmental laws and regulations.
4.1.11.7.0-3	The Contractor must keep accurate and complete EHS records, which must, upon request, be made available to the Technical or Inspection Authority, who may only view such documents. During the performance of the Contract and for any period of time thereafter provided in the Contract, request for copies of any document will be made formally to the Contractor.
4.1.11.8	4.1.11.8 Environmental Health and Safety aspects in Design
4.1.11.8.0-1	The ECMA International Standard ECMA-341, “Environmental design considerations for ICT and CE products” (<< http://www.ecma-international.org/publications/files/ECMA-ST/ECMA-341.pdf >>)) must be incorporated where feasible, and not in conflict with other requirements identified within the Work requirement, to reduce the environmental impact of the product and to facilitate end of life disposal.
4.1.11.8.0-2	The Contractor must comply with the Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 KHZ to 300 GHZ - Safety Code 6.
4.1.11.9	4.1.11.9 Environmental Health and Safety Assessment (EHSA)
4.1.11.9.0-1	Should approved changes occur throughout the OWSS execution that impact EHS, as a core activity, the Contractor must update and deliver a revised Environmental, Health and Safety Assessment (EHSA) for approval by the Technical Authority in accordance with CDRL PM-109 . These EHS assessments are controlled documents and the Contractor must retain them for the duration of the OWSS execution, including any options exercised pursuant to the Contract and must provide them upon request.
4.1.11.10	4.1.11.10 Disposal
4.1.11.10.0-1	As a task based activity, the Contractor must develop disposal plans and prepare decommissioning/disposal instructions as directed or approved by the TA. In addition to the operational, technical and administrative aspects required, these plans and instructions must include EHS considerations to ensure the protection of individuals and the

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	environment and to mitigate the EHS impacts resulting from the decommissioning/disposal activities. A Decommissioning/Disposal EHS Assessment must be conducted prior to any decommissioning/disposal action being taken to ensure that the proper mitigation measures have been identified and that the instructions/plans are compliant with EHS legislations/regulations and policies/directives that are in force at that time.
4.1.11.11	4.1.11.11 Performance
4.1.11.11.0-1	The Contractor must perform in accordance with Annex CB, Appendix 1 , to achieve the following outcome:
4.1.11.11.0-1.0-1	<ul style="list-style-type: none"> ○ Preparation and submission of CDRL Items in accordance with DID in Annex CC, as specified at para 4.1.11.9.0-1 (CB-A1 # 3).
4.1.12	4.1.12 Government Property Management
4.1.12.0-1	Canada will make available to the Contractor Government Furnished Equipment (GFE) and Government Furnished Information (GFI) to be used to support the Work of the SOW, as per the listing in Annexes CD and CE (sections 1.1 to 1.4) to the OWSS contract.
4.1.12.0-2	As a core activity, the Contractor must prepare and deliver Government Property Reports in accordance with CDRL PM-110 following the conduct of physical audits. The reports must be made available via the EIE.
4.1.12.0-3	As a core activity, the Contractor must assist Canada in conducting physical audits of all Government property selected for use by the Contractor.
4.2	4.2 Supply Support
4.2.1	4.2.1 Supply Support Management Services
4.2.1.0-1	The Contractor must provide Supply Support Management Services in support of provision of Spare Parts and Repair & Overhaul Services. The support management services (administration and management) described in this section are considered core activities. The cost of spares and actual repairs will be covered by contract change proposals and/or tasking activities (DND 626).
4.2.2	4.2.2 Provision of Spare parts
4.2.2.0-1	As a core activity, the Contractor must deliver a Spares Catalogue listing all items identified as being required for DND ISS maintenance tasks in accordance with CDRL LS-104 . The Contractor must base the ISS Spares Catalogue on the Recommended Spare Parts List (RSPL), the Consumable and Bulk Item List (CBIL) and the Recommended Support Equipment Requirements List (RSERL) all approved by the TA during the

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	execution of the Acquisition Contract.
4.2.2.0-2	Spare Parts Proposals. Upon the initiation of a requirement for spare parts for ISS, except for consumables and common hardware, as a core activity the Contractor must prepare and submit its prices and delivery schedule proposal. The Contractor must reference the TA approved ISS Spares Catalogue. As a core activity the Contractor must monitor all proposals and report monthly, in the Monthly Service Status Report, on related issues. The Monthly Service Status Report must include, when applicable, a recommended plan to address issues. Clarification on the proposal may be requested.
4.2.2.0-3	Maintenance of Spares Catalogue. To facilitate the selection of spares and as a core activity, the Contractor must maintain the ISS Spares Catalogue. Notification of updates to the Catalogue due to changes by suppliers or errors in the Catalogue must be provided for TA acceptance.
4.2.2.0-4	Spares Catalogue Validity. As a core activity, the Contractor must ensure that the Spares Catalogue is valid until the end of the first Contract Year of the OWSS contract. For each subsequent Contract Year, the Contractor must submit for TA acceptance its updated Catalogue no later than two months before the start of the new Contract year.
4.2.2.0-5	Ordering of Spares. After a review of the Contractor's proposal for Spare Parts, the CA may provide the Contractor with orders using the formal process described at Appendix 4 of this SOW - Spare Parts Procurement Process . At regular intervals, Contract changes consolidating all orders will be made by the CA for the agreed upon spare parts with price and delivery schedule. These spare parts will be included in the Contract as deliverables.
4.2.2.0-6	Supplied Materiel. The Contractor must ensure that materiel supplied must be new materiel. On an exceptional basis, and upon approval from the TA and the CA, Non-New or Reconditioned Materiel may be acquired. In such instances, the Contractor must provide certification that the Non-New or Reconditioned Materiel is in conformance to the applicable Original Equipment Manufacturer (OEM) performance specification. The Contractor must notify both the TA and the CA if an item is superseded or made obsolete, in accordance with this SOW. The Contractor must obtain consent prior to incurring further costs pursuant to the processing of an order for such a superseded or obsolete item.
4.2.2.0-7	Incomplete Assemblies. The Contractor must not ship incomplete assemblies against a requirement, unless prior authority for such shipment has been obtained from the TA, in accordance with this SOW.
4.2.2.0-8	Timely Delivery of Spare Parts. The Contractor must deliver Spare Parts in accordance with the agreed delivery date. After an order is placed, the Contractor must immediately advise the CA and the TA of any delay to the agreed delivery date (Past Due).
4.2.2.0-9	Urgent Orders for Spare Parts. The Contractor may be required from time to time to process an urgent spare parts order. The Contractor will be requested to expedite delivery,

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	at which point special terms and conditions may apply.
4.2.2.0-10	Performance. The Contractor must perform in accordance with Annex CB, Appendix 1 to achieve the following outcomes:
4.2.2.0-10.0-1	<ul style="list-style-type: none"> o delivery of Spare Parts Proposals or clarifications to the CA as specified at Para 4.2.2.0-2 and 4.2.2.0-5 (CB-A1 # 15); and
4.2.2.0-10.0-2	<ul style="list-style-type: none"> o delivery of Spare Parts as specified at Para 4.2.2.0-8 (CB-A1 # 16).
4.2.2.0-11	The Contractor's performance with the provision of spare parts will be reviewed during regularly held PRM. Related issues and their resolution will also be discussed at that time.
4.2.3	4.2.3 Repair and Overhaul (R&O)
4.2.3.0-1	As a core activity, the Contractor must deliver for approval by the TA an R&O Candidates List in accordance with CDRL LS-105 .
4.2.3.0-2	Repair and Overhaul Services. As a core activity, the Contractor must provide Repair and Overhaul (R&O) services for all applicable depot repairable items identified by the Contractor in the approved CDRL LS-105 . This list of items will be used to prepare a DND Selection Notice and Priority Summary (SNAPS), which will specify the procedures for the repairable items. The SNAPS will be provided to the Contractor by the TA and be updated/revised as required.
4.2.3.0-3	The Contractor R&O services must be in accordance with the instructions provided under A-LM-184-001/JS-001, Special Instructions for Repair and Overhaul Contractors.
4.2.3.0-4	DND will send items for R&O to a Canadian address only. If applicable, custom clearance will be the responsibility of the Contractor. The time required for clearances must be included as part of the turn-around-time (TAT).
4.2.3.0-5	All material going to R&O will be accounted for on a Repairable Material Account (RMA) to be allocated by the TA or his authorized representative.
4.2.3.0-6	Repairable Material Request. For repairable material that are received but are not specifically documented on the SNAPS, as a core activity, a repairable material request (RMR) must be raised by the Contractor and appropriately approved by the TA. The Contractor must not begin servicing any item under this category until he has, as a core activity, submitted an estimate for the repair work and received authorization from the TA to proceed. The Contractor is to advise the TA by written message of this occurrence and then hold the materiel pending disposition instructions. The message to the TA should contain the NSN, the cost of repairs, the replacement cost and any other pertinent information.
4.2.3.0-7	The Contractor will be responsible for the provisioning of parts, material, equipment and

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	technical data to conduct R&O. In circumstances where the repair of ISS equipment, will require spare parts, the Contractor must supply all parts and components necessary to satisfy the R&O activity. The price of such spare parts must be in accordance with the pre-authorised and agreed spares catalogue.
4.2.3.0-8	It will be the Contractor's responsibility to ensure the procurement of spare parts do not have any negative impact on the Contractor R&O committed TAT performance.
4.2.3.0-9	Replacement parts and subassemblies provided by the Contractor must be of new or like-new quality and equivalent in function to original equipment parts.
4.2.3.0-10	As part of the authorised task, a list of replaced parts must be sent to the TA with a request for disposal instructions. All Contractor-supplied parts and associated labour must carry a ninety-day (90) warranty as a minimum.
4.2.3.0-11	As part of the authorised task, the Contractor must ensure that all equipment assemblies or components, after overhaul or reconditioning have the original marking information restored and a CF 942 Tag or Label attached and appropriately marked with:
4.2.3.0-11.0-1	○ Stock Code;
4.2.3.0-11.0-2	○ Description;
4.2.3.0-11.0-3	○ Serial Number (where applicable);
4.2.3.0-11.0-4	○ RMA #;
4.2.3.0-11.0-5	○ Date of Repair; and
4.2.3.0-11.0-6	○ Tech signature.
4.2.3.0-12	Beyond Economical Repair. Items which are identified as beyond economical repair in accordance with the agreed maximum repair price must be reported to the TA, who in turn must provide disposal instructions. As part of the authorised task, the Contractor must then provide disposal services of the DND own material.
4.2.3.0-13	Third Party R&O Providers. As a core activity, the Contractor must manage DND R&O items that are sent to any third party R&O provider.
4.2.3.0-14	Turn Around Time (TAT). For R&O performance measurement purposes, the term "Turn Around Time" (TAT) is defined as the elapsed time between when the Contractor takes receipt on his dock and the generation of the DND Picking Slip when the item is available for return to DND.
4.2.3.0-15	Timely Return of R&O Candidates. The Contractor must return R&O candidates in accordance with the agreed TAT, as documented in Item 17 of Attachment 1 to

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	Appendix 1 to Annex CB to this contract.
4.2.3.0-16	From time to time, when requested by the TA, the Contractor shall have the capability to support up-tempo return of R&O candidates (e.g. reconstitution activities). Special terms and conditions may apply in those instances.
4.2.3.0-17	R&O Performance Reports. The Contractor must prepare and deliver, as prescribed at Annex CC , the following R&O reports:
4.2.3.0-17.0-1	○ CDRL PM-104 - Monthly Services Status Reports; and
4.2.3.0-17.0-2	○ CDRL PM-111 - Annual R&O Performance Reports.
4.2.3.0-18	R&O Candidate List Updates. On an if, as, and when required basis, and/or in support to an ECP or CCP, the Contractor must submit updates in CDRL LS-105 - Repair and Overhaul (R&O) Candidates List.
4.2.3.0-19	Performance. The Contractor must perform in accordance with Annex CB, Appendix 1 to achieve the following outcome:
4.2.3.0-19.0-1	○ provision of R&O services as specified at Para 4.2.3.0-1 to 4.2.3.0-13, following, whenever possible, the prioritization principle of "FIFO" (first-in-first-out) (CB-A1 # 14);
4.2.3.0-19.0-2	○ achievement of R&O Turn Around Time (TAT) as specified at Para 4.2.3.0-14 and 4.2.3.0-15 (CB-A1 # 17); and
4.2.3.0-19.0-3	○ Preparation and submission of CDRL Items in accordance with DID's in Annex CC, as specified at para 4.2.3.0-1, -17 and -18 (CB-A1 # 3).
4.2.3.0-20	The Contractor's performance with the provision of R&O services will be reviewed during regularly held PRM. Related issues and their resolution will also be discussed at that time.
4.3	4.3 Technical Support
4.3.1	4.3.1 Technical Training
4.3.1.0-1	Training Provisioning Services. If, as, and when required by the TA, the Contractor must conduct ISS training in accordance with the requirements of the authorized task. The Contractor must conduct training at the location identified in the Tasking Authorisation. The Contractor must conduct Instructor (Train the Trainer) training and training that fulfills the operator, maintenance, and system management functions of the ISS.
4.3.1.0-2	Training Development Services. If, as, and when required, the Contractor must complete training development activities that include the analysis, design, development, and

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	delivery of ISS training. When tasked by the TA, the Contractor must complete training development activities to either modify existing training or create new training in order to meet evolving operational requirements.
4.3.2	4.3.2 Technical Support Services
4.3.2.0-1	If, as, and when required by the TA, the Contractor must provide Technical Support Services. These services include:
4.3.2.0-1.0-1	○ support to technical investigations and engineering support;
4.3.2.0-1.0-2	○ special investigations and technical studies;
4.3.2.0-1.0-3	○ investigation and recommendation on UCRs;
4.3.2.0-1.0-4	○ support to execution of preventive and corrective maintenance (including troubleshooting and repair), as well as equipment modifications;
4.3.2.0-1.0-5	○ failure analysis, monitoring failure record trends and recommend solution on repetitive failures;
4.3.2.0-1.0-6	○ maintenance of technical reference data and training material; and
4.3.2.0-1.0-7	○ deployment to DND sites.
4.3.2.0-2	If, as, and when required, the Contractor must provide Field Service Representative (FSR) support to meet a TA requirement for expert technical assistance in the field. The FSR could be deployed to
4.3.2.0-2.0-1	○ support off-site unit training and readiness activities (within Canada, and overseas),
4.3.2.0-2.0-2	○ perform maintenance, installation of field upgrades and modifications to deployed ISS, and
4.3.2.0-2.0-3	○ provide support in operational theatres.
4.3.2.0-3	If, as, and when required, the Contractor must provide up-tempo support to the technical support services listed above.
4.3.2.0-4	If, as, and when required, the Contractor must support the provision of custom fitting for special sized canalphones for use with headsets in support of deployed ISS. This service must include as a core activity the maintenance of records of canalphones to support requests for replacement.
4.3.3	4.3.3 Reconstitution

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4.3.3.0-1	The Contractor will be required, on an if, as, and when required basis, to provide reconstitution services to support DND operational objectives.
4.3.3.0-2	Through a task authorisation from the TA, the Contractor will receive bulk shipments of ISS-S equipment and perform the following services:
4.3.3.0-2.0-1	<ul style="list-style-type: none"> ○ clean and inspect for serviceability and configuration status of the returned equipment;
4.3.3.0-2.0-2	<ul style="list-style-type: none"> ○ report on repair, upgrade and/or replacement requirements;
4.3.3.0-2.0-3	<ul style="list-style-type: none"> ○ upon TA review of the requirements and issue of a separate authorised task, reconstitute the ISS-S equipment; and
4.3.3.0-2.0-4	<ul style="list-style-type: none"> ○ prepare the equipment for shipment with shipping instructions provided by the TA.
4.3.3.0-3	If, as, and when required, the Contractor will be responsible for the storage and security of the reconstituted equipment until shipping instructions by the TA are issued for delivery to a designated DND location.
4.3.4	4.3.4 Package, Handling, Storage and Transportation
4.3.4.0-1	The Contractor's Packaging, Handling, Storage and Transportation (PHST) methods must be compliant with DND Minimum Requirements for Manufacturer's Standard Pack and Canadian Forces Methods of Packaging D-LM-008-001/SF-001.
4.3.4.0-2	One exception to the general rule is the PHST method for the MLCS platform must be compliant to CFTPO-ISS-MLCS, a copy of which is included in Appendix 5 to this Annex.
4.3.5	4.3.5 Disposal
4.3.5.0-1	In accordance with A-LM-007-014/AG-001 - Canadian Forces Supply Manual, Volume 3 - CFSS Supply Processes, Chapter 10 - Surplus and Excess Materiel - Special Disposal Instructions and A-LM-184-001/JS-001 - Special Instructions for R&O Contractors, as a core activity, the Contractor must monitor all ISS items for disposal.
4.3.5.0-2	Disposal is the term used to remove materiel from the CFSS inventory that is of no further use to DND. This may occur through such situations as:
4.3.5.0-2.0-1	<ul style="list-style-type: none"> ○ materiel losing its value, owing to deterioration (shelf-life expired), becoming non-repairable or becoming Beyond Economical Repair (BER);
4.3.5.0-2.0-2	<ul style="list-style-type: none"> ○ technological changes (obsolescence) which render equipment and support stock obsolete; and/or

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4.3.5.0-2.0-3	<ul style="list-style-type: none"> ○ excesses (overstock) because of failure of supply controls to ensure maximum use of the system's assets or over-programming.
4.3.5.0-3	Upon identification of requirement for disposal of DND owned equipment, as a core activity the Contractor must advise the TA of the situation and request instructions. The Contractor must not initiate any activity until a task authorisation has been received.
4.3.5.0-4	Scrapping Equipment. Materiel that has been determined to be BER should be quarantined and converted to scrap on receipt of an authorised task.
4.3.5.0-5	HAZMAT, ITAR and Controlled Goods Materiel Considerations. As a core activity, the Contractor must ensure that all regulations relating to the transportation and disposal of HAZMAT, ITAR and Controlled Goods items are adhered to.
4.3.6	4.3.6 Performance
4.3.6.0-1	The Contractor must perform in accordance with Annex CB, Appendix 1 to achieve the following outcome:
4.3.6.0-2	<ul style="list-style-type: none"> ○ Provision of qualified FSR as specified at para 4.3.2.0-2 if, as, and when required (CB-A1 # 20);
4.3.6.0-3	<ul style="list-style-type: none"> ○ Provision of qualified FSR to meet up-tempo requirements as specified at para 4.3.2.0-3(CB-A1 # 21);
4.3.6.0-4	<ul style="list-style-type: none"> ○ Provision of Reconstitution services as specified at Para 4.3.3.0-1 and -2 (CB-A1 # 19); and
4.3.6.0-5	<ul style="list-style-type: none"> ○ Provision of disposal services as specified at Para 4.3.5.0-1 (CB-A1 # 18).
4.4	4.4 Engineering Support
4.4.1	4.4.1 Engineering Management
4.4.1.0-1	As a core activity, the Contractor must continue to maintain the established Engineering Program consistent with the Work requirements of this Contract. Unless specified otherwise, the engineering management activities are considered as core activities.
4.4.1.0-2	The System Engineering Management Plan (SEMP), previously developed, delivered and approved during the execution of the acquisition contract, describing the Engineering Program must continue to be implemented. As a core activity it must be updated if needed to reflect the work of this SOW and be delivered in accordance with CDRL SE-101 .
4.4.1.0-3	As the Design Authority, the Contractor must maintain the responsibility for complete system design, engineering and integration of the System to ensure that all sub-systems, when assembled and operating as a complete system, meet the overall requirements of the

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4.4.1.0-4	As a core activity, the Contractor must manage all the Engineering Design and Development (ED&D) elements of the Work in support of this SOW including the additional task based activities. The management activities must include liaison with:
4.4.1.0-4.0-1	○ the TA;
4.4.1.0-4.0-2	○ organisations with cross-program issues; and
4.4.1.0-4.0-3	○ OEMs, subcontractors and suppliers, as applicable.
4.4.1.0-5	Engineering Reporting. As a core activity, the Contractor must include in the Monthly Services Status Report the status of any and all Engineering activities undertaken under this Contract.
4.4.1.0-6	Proposal Support to Task Requests. As a core activity, the Contractor must support the preparation of proposals in response to task requests initiated by the TA, in accordance with the process described in Appendix 3 to this SOW . The Contractor may also prepare and submit unsolicited proposals. Such proposals must be considered to be outside the scope of the Work, but may be converted to a formal Task if directed by the TA.
4.4.1.0-7	Support to Task Proposals and Contract Changes. As a core activity, the Contractor must vet Tasks and Contract Change Proposals from the point of view of compliance to the TA performance requirement. The Contractor must ensure that the appropriate level of engineering analysis, supporting recommendations and test plans, is applied. As a core activity ensuring value, a detailed and priced Work Breakdown Structure (WBS) and a project schedule must support the recommended level of effort.
4.4.1.0-8	Business Cases. In support of an engineering activity related to a potential new requirement and as a core activity required by the TA, the Contractor must prepare and submit to the TA a business case, presenting the following elements: background, objective, proposed implementation (if applicable), technical requirements, risk assessment (if applicable), project justification and any additional information deemed important. The TA will review the business case and may request a Task Proposal using a Task Request.
4.4.1.0-9	Requests for information and clarification. As a core activity, the Contractor must respond to TA requests for technical information and clarifications on the delivered product, within 2 working days (WD) of the request.
4.4.1.0-10	Management of Priorities. The Contractor must abide by the DND priorities for engineering support services as directed by the TA.
4.4.1.0-11	Engineering Working Group Meetings. As a core activity, the Contractor must conduct Engineering Working Group Meetings to review Contractor's performance with the

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	provision of engineering services and to discuss and resolve issues. These meetings must be conducted following agendas prepared and delivered in accordance with CDRL PM-105 . These meetings must be conducted as required and to the extent possible in conjunction with the PRMs. The Contractor, the CA, the TA and the RA must be appropriately represented.
4.4.1.0-12	As a core activity, the Contractor must produce meeting minutes and deliver them in accordance with CDRL PM-106 .
4.4.1.0-13	The AIs identified in these meeting minutes must be incorporated, by the Contractor as a core activity, into the IAIL prepared and delivered in accordance with CDRL PM-107 . Status of these AIs must be reviewed at each PRM.
4.4.2	4.4.2 System and Design Engineering Support
4.4.2.0-1	System Integration and Support. The Contractor is responsible for the integration of all system, sub-systems and components comprising the ISS, including all hardware, firmware and software. From time to time and as a task based activity, system engineering support may be required to address technical investigations, deficiencies, obsolescence and other supportability issues in order to ensure that the ISS continues to meet the requirements of its performance specification post modification/upgrade.
4.4.2.0-2	Reliability and Performance. If, as, and when required by the TA, the Contractor must investigate system and subsystem reliability and performance issues and be responsive to issues identified by the TA. The Contractor must analyze reliability and performance issues, including data from operational reports. The Contractor must recommend appropriate actions and changes to the TA.
4.4.2.0-3	Design Review. If, as, and when required by the TA, the Contractor must perform System Design Review (SDR) and analysis.
4.4.3	4.4.3 Security Engineering
4.4.3.0-1	As a core activity, the Contractor must maintain the Security Engineering program previously established during the execution of the Acquisition contract.
4.4.3.0-2	If, as, and when required by the TA, the Contractor's Security Engineering Program must continue to offer the following services if, as, and when requested by the TA:
4.4.3.0-2.0-1	<ul style="list-style-type: none"> ○ Assess all engineering change requests associated with ISS integration or connectivity with a Secret System High and Type 1 cryptographic environment to determine TEMPEST impact;
4.4.3.0-2.0-2	<ul style="list-style-type: none"> ○ Review all engineering change requests associated with ISS integration with a Secret System High and Type 1 cryptographic environment to determine impact on

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	INFOSEC Boundaries and propose solutions to identified issues;
4.4.3.0-2.0-3	<ul style="list-style-type: none"> ○ Perform technical investigations and work to integrate or interface the ISS-S with a Secret System High environment while ensuring the implementation meets security requirements;
4.4.3.0-2.0-4	<ul style="list-style-type: none"> ○ Conduct equipment and subsystem security testing including TEMPEST acceptance testing and product integration testing;
4.4.3.0-2.0-5	<ul style="list-style-type: none"> ○ Prepare and review test plans, procedures and reports;
4.4.3.0-2.0-6	<ul style="list-style-type: none"> ○ Develop and maintain formal, information security control requirements for the ISS;
4.4.3.0-2.0-7	<ul style="list-style-type: none"> ○ Manage ISS using a development life cycle methodology that includes information security considerations;
4.4.3.0-2.0-8	<ul style="list-style-type: none"> ○ Provide and maintain system and product level functional and technical specifications for all ISS technical security safeguards; and
4.4.3.0-2.0-9	<ul style="list-style-type: none"> ○ Participate and support the Departmental certification and accreditation process of the ISSP solution.
4.4.4	4.4.4 Logistics Engineering
4.4.4.0-1	If, as, and when required by the TA, the Contractor must provide logistics engineering support for the ISS using A-LM-505-001/AG-002 and -001 as guidance manuals. This support must be provided through the performance of, but not limited to:
4.4.4.0-1.0-1	<ul style="list-style-type: none"> ○ Life Cycle Cost (LCC) Analysis for reduction;
4.4.4.0-1.0-2	<ul style="list-style-type: none"> ○ Reliability, Availability and Maintainability (RAM);
4.4.4.0-1.0-3	<ul style="list-style-type: none"> ○ Logistic Support Analysis (LSA); and
4.4.4.0-1.0-4	<ul style="list-style-type: none"> ○ Failure Modes, Effects and Criticality Analysis (FMECA).
4.4.4.0-2	System Life Cycle Cost Reduction. As a task based activity, the Contractor must identify opportunities for Life Cycle Cost (LCC) reduction. To this end, the Contractor must prepare Support System Alternatives Studies and deliver them in accordance with CDRL LS-106 . This may involve investigation of how using appropriate technology will result in potential system enhancements and/or improvements. The effort to make LCC recommendations must involve the level of investigation outlined at Para 4.4.1.0-8, Business Cases.
4.4.4.0-3	Reliability/Trend Analysis Reports. As a task based activity, the Contractor must review

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	available Weapons System management data, provided by the technical services and R&O repair analysis reports, to identify failure trends that require further investigation. The Contractor must prepare Reliability/Trend Analysis Reports and deliver them in accordance with CDRL LS-107 .
4.4.4.0-4	Logistics Support Analysis. As a task based activity, the Contractor must provide continuing LSA using the MIL-HDBK-502 Acquisition Logistics Handbook as a guide. To this end, the Contractor must develop an In-Service LSA Proposal and deliver it in accordance with CDRL PM-112 . LSA includes:
4.4.4.0-4.0-1	<ul style="list-style-type: none"> ○ Maintenance Task Analysis: As a task based activity, the Contractor must perform maintenance task analysis and document it in the optimized LSA Record (LSAR) database to support the update of Logistics Support deliverables (i.e. Maintenance Plan);
4.4.4.0-4.0-2	<ul style="list-style-type: none"> ○ Provisioning Support: As a task based activity, the Contractor must provide provisioning support and relevant documentation in the optimized LSAR database; and
4.4.4.0-4.0-3	<ul style="list-style-type: none"> ○ Optimized LSAR Database: As a task based activity, the Contractor must update and maintain the optimized LSAR database to reflect the fielded configuration of the ISS.
4.4.4.0-5	FMECA. If, as, and when required the Contractor must provide Failure Modes, Effects and Criticality Analysis (FMECA) for the ISS, prepared and delivered in accordance with CDRL LS-108 .
4.4.5	4.4.5 Technical Publications
4.4.5.0-1	Support. As a core activity, the Contractor must be responsible for the management and maintenance of technical publications and the related ISS Technical Data, including the data relating to GFE/GFI. As a core activity, the Contractor must ensure that all technical publications and data are stored in a manner that protects its integrity. The technical publications and data must be readily available to the TA via the EIE.
4.4.5.0-2	Technical publications include commercial publications and Canadian Forces Technical Orders (CFTO), as delivered during the execution of the acquisition contract.
4.4.5.0-3	Technical Publication Status. As a core activity, the Contractor must report on technical publications detailing the update status and activity on each publication under maintenance as part of the Monthly Services Status Report.
4.4.5.0-4	Technical Publication Change Management. As a core activity, the Contractor must ensure that all changes authorized by the TA resulting from (1) Engineering Change Orders (ECO), (2) feedback from field personnel and (3) other changes required by the TA are recorded and implemented in all applicable documentation in accordance with the

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	PMP. The activities to record and implement the changes in all applicable documentation are considered task based activities previously authorised by the TA.
4.4.5.0-5	CFTO Maintenance. If, as, and when required, the Contractor must incorporate all TA approved changes in the relevant CFTO. The Contractor must prepare CFTO updates and deliver them in accordance with CDRL LS-109 .
4.4.5.0-6	Creating New CFTOs. For new equipment, if, as, and when required and authorized by the TA, the Contractor must develop and deliver the required CFTO(s) in DND format, in accordance with CDRL LS-109 .
4.4.5.0-7	Documentation Database. If, as, and when required, the Contractor must update the CFTO source files, in a technical documentation database on their server.
4.4.5.0-8	Obsolete Documentation. If, as, and when required by the TA, the Contractor must dispose of all DND source-file technical documentation, in the Contractor's possession, that has been deemed by the TA to be no longer applicable. Based upon DND Policy the Contractor must identify and recommend procedures for the handling of all technical documentation for equipment that is declared obsolete or surplus.
4.4.6	4.4.6 Performance
4.4.6.0-1	The Contractor must perform in accordance with Annex CB, Appendix 1 to achieve the following outcome:
4.4.6.0-1.0-1	<ul style="list-style-type: none"> ○ Preparation and submission of CDRL Items in accordance with DIDs of Annex CC, as specified at para 4.4.1.0-2, -11, -12 and -13, 4.4.4.0-2, -3, -4 and -6, and 4.4.5.0-5 and -6 (CB-A1 # 3);
4.4.6.0-1.0-2	<ul style="list-style-type: none"> ○ Provision of technical information and product clarification as specified at para 4.4.1.0-9 (CB-A1 #24);
4.4.6.0-1.0-3	<ul style="list-style-type: none"> ○ Provision of engineering services responsive to TA requirements as specified at para 4.4.2.0-1, -2 and -3 (CB-A1 # 22); and
4.4.6.0-1.0-4	<ul style="list-style-type: none"> ○ Availability of updated and accurate technical publications via EIE as specified at para 4.4.5.0-1 (CB-A1 # 23).

APPENDIX 1 TO
ANNEX CA TO VOLUME 3

SUPPORT CONCEPT
FOR THE
OPTIMIZED WEAPON SYSTEM SUPPORT (OWSS)
FOR THE
INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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HISTORY

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1	1 INTRODUCTION
1.1	1.1 Purpose
1.1.0-1	This document describes the overall Support Concept for the Integrated Soldier System (ISS). The purpose of the Support Concept is to:
1.1.0-1.0-1	Provide the Contractor with a document to be used in the development of the Integrated Logistics Support (ILS) Program; and,
1.1.0-1.0-2	Provide Department of National Defence (DND) stakeholders with a consolidated view of how the ISS will be used and supported through its lifecycle. During the in service life of the ISS, the Support Concept will be used by the Equipment Management Team (EMT) to implement DND support plans.
1.2	1.2 Scope
1.2.0-1	This document is intended to describe the overall concept for fielding and supporting the ISS in service. It provides information regarding mission cycles, projected usage and DND's internal support processes and programs.
1.3	1.3 Deployable Weapons System
1.3.0-1	The ISS is designated as a Deployable Weapons System. A Deployable Weapons System is defined as a platform that is intended to be operated and maintained in a threat environment. A threat environment is defined as a location where there is <u>heightened</u> risk of injury or death to personnel due to enemy action. Therefore the support system is aimed at ensuring <u>maximum</u> operational availability.
1.3.0-2	To ensure maximum operational availability, DND will:
1.3.0-2.0-1	○ <u>maintain</u> an in-house maintenance and support capability;
1.3.0-2.0-2	○ <u>control</u> Supply support activities between Canada and theatre of operations;
1.3.0-2.0-3	○ <u>conduct</u> support activities required for Force Generation (i.e. support to pre-deployment training, operator and maintenance training);
1.3.0-2.0-4	○ <u>retain</u> Technical Authority (TA); (Design Authority will rest with the Prime Contractor);
1.3.0-2.0-5	○ <u>maintain</u> a stock of ready-use spares (operational and maintenance stocks);
1.3.0-2.0-6	○ <u>conduct</u> Operational training;

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1.3.0-2.0-7	○ <u>provide</u> Operational advice; and
1.3.0-2.0-8	○ <u>reserve</u> the right to conduct other activities.
1.4	1.4 Initial Operational Capability (IOC)
1.4.0-1	A significant milestone for ISS is the declaration of Initial Operational Capability (IOC). This state will be achieved when the first Mission Specific TF (MSTF) equipped with ISS has been declared operationally ready for deployment.
1.4.0-2	IOC is the culmination of the fielding and training activities of the ISS and means the TF is ready for operational deployment. To achieve IOC, the designated Task Force (TF) will have completed both Individual and Collective Training, all ILS will have been delivered, and the in-service support system will be fully established in order to ensure the sustainment of the TF.
1.5	1.5 Mission Cycles
1.5.0-1	The following describes the projected mission cycle for ISS. A typical deployment will undergo a Pre-deployment Training Cycle of six (6) months. This would be followed by an operational mission totaling six (6) months of continuous operations i.e. “Battlefield Days (BDs)” while on a MSTF Deployment. This would be followed by a Reconstitution Cycle consisting of three (3) months reconstitution and three (3) months DND storage/limited use.
1.5.0-2	The Pre-deployment Training Cycle is divided into two three (3) month segments based on the level of intensity of the training. In the first segment, the level of intensity will be low, with the ISS primarily being used in a classroom and short training exercise settings. Typical system usage will be up to eight (8) operating hours per day, five (5) days per week. In the second segment, the activity will increase from medium to high intensity training with system usage simulating that of the MSTF Deployment BD operating up to twenty four (24) hours per day, seven (7) days per week. The training exercises of this second segment can be expected to expose the ISS to all the environmental conditions and operating modes of a MSTF deployment.
1.5.0-3	The MSTF Deployment Cycle consists of one hundred and eighty (180) consecutive BDs. During this cycle the ISS will be employed world-wide across the North Atlantic Treaty Organization (NATO) defined climatic zones of C0 to C2, A1 to A3, B1 to B3 and M1 to M3 (as per NATO Standardization Agreement (STANAG) 2895 Edition 1) and operating environments of desert, jungle, mountain, tundra, arctic and high urban density terrain.
1.5.0-4	The Reconstitution cycle consists of two three (3) month segments, where the first segment includes the withdrawal of the ISS back from the MSTF (possibly directly from the Deployment theatre of operations), necessary repairs completed and return to DND Depot storage of the system. The second segment would include upkeep of the ISS and

	preparation for reissue.																																										
1.5.0-5	These Mission Cycles are summarized in Table 1 below.																																										
1.5.0-6	<table><tr><th>Mission Cycle</th><th>Operational Intensity</th><th>Duration (months)</th><th>Usage</th><th>Total System Operating Time (hrs)</th><th>Relative Life Usage</th></tr><tr><td>Pre-deployment Training - Segment 1</td><td>Low/Medium</td><td>3</td><td>6 weeks Low 7 weeks Medium</td><td>400</td><td>7 %</td></tr><tr><td>Pre-deployment Training - Segment 2</td><td>Medium/High</td><td>3</td><td>7 weeks Medium 6 weeks High</td><td>1,204</td><td>22 %</td></tr><tr><td>MSTF Deployment</td><td>Medium/High</td><td>6</td><td>4 weeks Medium 22 weeks High</td><td>3,548</td><td>66 %</td></tr><tr><td>Reconstitution - Segment 1</td><td>Not Employed</td><td>3</td><td>None</td><td>0</td><td>0 %</td></tr><tr><td>Reconstitution - Segment 2</td><td>Low</td><td>3</td><td>13 weeks Low</td><td>260</td><td>5 %</td></tr><tr><td>Total Times</td><td></td><td>18</td><td></td><td>5,412</td><td></td></tr></table> <p style="text-align: center;">Table 1 ISS Usage Profile by Mission Cycle</p>	Mission Cycle	Operational Intensity	Duration (months)	Usage	Total System Operating Time (hrs)	Relative Life Usage	Pre-deployment Training - Segment 1	Low/Medium	3	6 weeks Low 7 weeks Medium	400	7 %	Pre-deployment Training - Segment 2	Medium/High	3	7 weeks Medium 6 weeks High	1,204	22 %	MSTF Deployment	Medium/High	6	4 weeks Medium 22 weeks High	3,548	66 %	Reconstitution - Segment 1	Not Employed	3	None	0	0 %	Reconstitution - Segment 2	Low	3	13 weeks Low	260	5 %	Total Times		18		5,412	
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Total Times		18		5,412																																							
1.5.0-7	The ISS will be expected to perform five (5) of these combined cycles (Pre-deployment Training / MSTF Deployment / Reconstitution) in consecutive order throughout its life. Thus, the expected Service Life of the ISS will be will be 90 months (7.5 years) accumulating an expected 27,060 system operating hours.																																										
1.6	1.6 Overall Support Concept																																										
1.6.0-1	Since ISS is an operationally focused capability, the Concept of Support will aim to ensure maximum operational availability. Maximizing operational availability has guided the establishment of reliability parameters, which will influence the allocation of maintenance tasks, repair parts, and allocation of spares within the MSTF. The designation as a Deployable Weapons Systems will also guide the assignment of support tasks between the Canadian Forces (CF) and the Original Equipment Integrator (OEI)/Original Equipment Manufacturers (OEMs). Once fielded, overall Life Cycle management will be provided by Director General Land Equipment Program Management (DGLEPM)/Director Soldier Systems Program Management (DSSPM) at National Defence Headquarters (NDHQ). The OEI will support DSSPM by providing ongoing Optimized Weapons System Support (OWSS) throughout the life of the system. Support concepts will adhere to the fundamentals and levels of Combat Service Support (CSS) as																																										

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	detailed in the Land Force Sustainment doctrine and the principles of the EMT structure of the Land Equipment Management System (LEMS).
2	2 FIELDING
2.1	2.1 Deployed MSTFs
2.1.0-1	Since ISS is intended to be used primarily by operationally deployable MSTFs, its introduction into service will be somewhat unique.
2.2	2.2 MSTF Based Distribution
2.2.0-1	ISS is intended to be used primarily by MSTF deployed outside Canada on Operations. As such, ISS will be issued to a MSTF only after it has been designated for operations or operational standby. It is not intended to be issued to the institutional Army. There will be a requirement to 'train up' to operational status before deployment. This is achieved through the Army Managed Readiness cycle.
2.3	2.3 Army Managed Readiness Cycle
2.3.0-1	The Army follows a formal structured process to ensure that units know they are selected well in advance as stand-by Forces (to be prepared for deployment) or for a known mission (Rotation). The introduction of ISS equipment will be based on the Army Managed Readiness Plan in place at the time of Project Implementation.
2.3.0-2	The Managed Readiness cycle has Army units undergo a three-phase cycle of readiness and employment every three years. The phases are: training, high readiness/operations, and reconstitution/support. It is expected that individual qualification training (initial training up to individual skill level on ISS) and collective training (collective training at the Team and Platoon level within a Company context) will take place during the training phase.
2.3.0-3	The initial fielding of ISS will enable the first designated MSTF to commence its 'pre-rotation' training cycle. As it becomes ready to deploy, the second MSTF will be issued ISS, and so on. As the current 'cycle' spans a six month period, ISS may take at least a year before becoming fully fielded.
2.4	2.4 MSTF Composition
2.4.0-1	A MSTF will be based on a Land Force Infantry unit, augmented by other Combat Arms, Combat Support and CSS. Total deployed systems will be 628 ISS per MSTF.
2.5	2.5 Centers of Excellence (CoE)
2.5.1	2.5.1 Operators

2.5.1.0-1	Since the major user of the ISS will be the Infantry, the Infantry School at the Combat Training Center (CTC), CF (CF) Base Gagetown, has been designated as the Center of Excellence (CoE) for operational training. They will attend the Contractor delivered Pilot Initial Cadre Training (ICT) for the Operator Instructors and System Management Instructors.
2.5.2	2.5.2 Maintainers
2.5.2.0-1	Since technical support for Systems Management and electronic maintenance for the ISS will be provided by Signals Operators and Land Communications and Information Systems (LCIS) Technicians, the CF School of Communications and Electronics at CF Base (CFSCE) Kingston will be the primary CoE for support. They will attend the Contractor delivered Pilot ICT for the System Management Instructors and Maintenance Instructors.
2.6	2.6 Delivery of ISS
2.6.0-1	The delivery of production ISS will be by Batch Lots to the CF Supply Depot (CFSD). ISS systems, including all necessary support, will be issued from the Depot to the supporting Area/Base once a TF has been designated. The use of Batch Lots is aimed to ensure that all production components for a complete TF have been received by DND prior to a fielding decision. This will ensure the Army Managed Readiness Cycle commences only once all essential elements have been received.
2.7	2.7 Initial Training Batches
2.7.0-1	First deliveries will consist of the: Initial Training Batch (1) - the ISS systems designated for the CoEs at CTC Gagetown and CFSCE Kingston, and Initial Training Batch (2) - a quantity of operational and logistics spare systems. The issue of Training Batch systems to CoEs will be timed with the completion of ICT.
2.8	2.8 MSTF Batches
2.8.0-1	The next deliveries will be by TF Batches. The first MSTF Batch will enable the selection, through the Army Managed Readiness Plan, of the initial designated MSTF. Deliveries from the Depot will be timed with the completion of ICT.
2.9	2.9 Reconstitution
2.9.0-1	Once a MSTF has completed its operational deployment and enters its reconstitution phase, ISS will be withdrawn from the units and personnel involved. At this time, under the OWSS contract, the ISS would undergo serviceability verification, a resulting repair cycle, and be returned to DND storage until needed.
3	3 SUPPLY SUPPORT CONCEPT

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3.1	3.1 Overall Concept
3.1.0-1	As this is an operational system, the overall Supply Concept will be to support the ISS in operations and pre-deployment training through an assured inventory, effective response, and efficient inventory management of primary systems, Line Replaceable Units (LRU), and repair parts. The acquisition phase will acquire the essential contractor delivered data that will be used for the establishment of inventories, allocations, and controls based on the delivered Equipment Breakdown Structure (EBS), approved spares and repair parts, tools and test equipment and associated consumable items. This will be based on the initial data provided by the Contractor, with subsequent Project Activities such as the Logistics Support Analysis (LSA) and Initial Provisioning Conference (IPC).
3.1.0-2	A critical component will be sustainment. The project must ensure that all support required for the Army Managed Readiness Cycle initial training phase and follow-on deployment is in place in a timely manner. All equipment, spares, tools and test equipment must be in place to support fielding and on going in service support.
3.2	3.2 Cataloguing
3.2.0-1	The ISS will be catalogued into the Defence Management System, which will support the EMT and the Contractor's in service support processes. The final EBS, spares, repair parts and unique consumables, along with all necessary data that indicates accountability: grouping of systems/sub-systems, control/authorized access, allocations, Reparability (RPY) codes, safety data, and need to be recorded in the system.
3.3	3.3 IT Systems/Supply Accounting Systems
3.3.0-1	Within the Defense Management System, the CF Supply System (CFSS) controls and manages supply materiel for the DND. The CFSS application includes interfacing with other DND applications, reports, tools, objects, and supporting databases. Each application automates CF business transactions and eliminates manual management of CF supply materiel. The CFSS interfaces with:
3.3.0-1.0-1	○ Defence Resource Management Information System (DRMIS);
3.3.0-1.0-2	○ National Materiel Distribution System (NMDS); and
3.3.0-1.0-3	○ Tactical Asset Configuration Information System (TACIS).
3.4	3.4 CFSS Accountability
3.4.0-1	Within the CFSS, it will be necessary to establish an appropriate level of accountability for each item. This will be based on its initial acquisition cost, assigned RPY level (as determined by the repair analysis) and need for asset tracking (serial number control), and attractiveness. An initial rule is that an item is to be classified as accountable if the item is over \$1000; or is a critical repairable asset; or is considered to be an attractive item. Items

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	that do not meet these requirements should be considered as consumables in DRMIS/CFSS. This level of accountability will be established following completion of the maintenance and logistics supportability analysis phase.
3.5	3.5 Reparability (RPY) Codes
3.5.0-1	RPY codes will be assigned to each NATO Stock Number (NSN) during the cataloguing process. These are assigned based on what level of repair is assigned to each component. Example: RPY B (Third Line Only - Contractor) will likely be assigned to all major components.
3.6	3.6 DRMIS/CFSS Controls
3.6.0-1	All ISS catalogued NSNs will be coded in DRMIS/CFSS so that they can not be issued from the contractor or the depot without authorization from the Life Cycle Material Manager (LCMM) and/or Supply Manager. This is an internal control indicating that all inventory is under NDHQ control.
3.7	3.7 Inventory Tracking
3.7.0-1	ISS Inventories at Third Line (Depot/Contractor) and all CF Units will be tracked in the CFSS.
3.7.0-2	For Configuration Management (CM) of ISS, serial tracking of major components will be required. On operations, it is essential to ensure that the same version of ISS components and software are deployed and visible to the support system. This will be done through TACIS at all levels of maintenance. In the future, TACIS may be incorporated into DRMIS. Due to its operational importance, ISS may need an even higher level of tracking to manage operational stocks. In this case the ISS may be designated in the CFSS as a weapons system and become designated as a “Serial Tracked” system.
3.7.0-3	Bar coding for unique item identification and tracking is required In Accordance With (IAW) STANAG 2290 Edition 2.. The addition of bar codes to ISS components will support inventory management and tracking at all levels of the supply chain.
3.8	3.8 Equipment Check Lists (ECL)
3.8.0-1	An ECL is an assemblage of related items of supply, which are brought together to permit them to be issued and accounted for under a single stock code. The ISS ECL will encompass specific primary components and where applicable some specialized components will be listed on the ECL but will be separately demandable.
3.9	3.9 DND Inventory
3.9.0-1	DND is required to hold in Canada an operational reserve of sufficient Weapons System spare parts to sustain at least 30 days of high-intensity operations. Minimum warehouse

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	levels will be established to meet this requirement.
3.9.0-2	It is expected that an additional 60 days spares will be held in theatre by the National Support Element (NSE). The mix of spare operational systems and Line Replaceable/Repairable units will depend on the operational posture adopted for dispersed operations and the repair policy adopted following the maintenance and logistics supportability analysis phase.
3.10	3.10 Centralized Holdings
3.10.0-1	Until a MSTF is designated for deployment the ISS will be held by either 25 CFSD Montreal and/or at 7 CFSD Edmonton. This will facilitate resupply of MSTF Units during pre-deployment and replenishment of MSTF Operational Stock in theatre. The ISS will only be issued to a MSTF upon direction of NDHQ.
3.11	3.11 Resupply to CF Units
3.11.0-1	During pre-deployment, ISS components which have been deemed Beyond Local Repair (BLR) will be returned to the Supply System for return to the Contactor for repair or disposal. Normal process will be to hold repairable items until an economical shipment level is reached.
3.11.0-2	While deployed, BLR items will be exchanged one for one at the NSE in Theatre from Operational stock holdings. Once minimum stock levels have been established, stocks will be automatically replenished through the CFSS from depot stock.
3.12	3.12 Contractor Accounts
3.12.0-1	A Repairable Material Account (RMA) is an account in the CFSS for the accounting of DND owned equipment that is issued / held by a Contractor, either as stock or for repair. DND will establish an RMA in the CFSS/DRMIS. This will enable the free flow of equipment and inventory tracking of repairable components between DND and the Contractor.
3.13	3.13 Repatriation of ISS
3.13.0-1	Once a MSTF has been withdrawn from operations, it is likely that all ISS will be turned in by TF personnel at an Intermediate Staging Base or Designated Rest Area. Given the high operational tempo, limited number of systems, and shipping time from a theatre, it may be necessary to ship bulk ISS directly to the Contractor to facilitate Repair and Overhaul (R&O) of systems.
4	4 MAINTENANCE SUPPORT CONCEPT
4.1	4.1 Support Principles

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4.1.0-1	The concept of support will adhere to the fundamentals and levels of CSS as detailed in the Land Force Sustainment doctrine and IAW the principles of the LEMS. These will be tailored as required to the sub-systems fielded and the approved Concept of Operations (CONOPS). Trained CSS personnel will be responsible to sustain the ISS for replenishment and maintenance during pre-deployment training and deployed operations.
4.1.0-2	The following principles apply to this maintenance concept:
4.1.0-2.0-1	<ul style="list-style-type: none"> Utilize engineering and maintenance design concepts to enable ISS to economically meet operational availability requirements by minimizing and simplifying maintenance without adversely impacting the required equipment reliability or operational capabilities. This will be accomplished by optimising the system availability through design (e.g. onboard diagnostics, redundancy, robust design, graceful degradation etc.);
4.1.0-2.0-2	<ul style="list-style-type: none"> Conduct maintenance activities, both by the operator and the maintainer, without the need for increasing the manpower establishment and minimized training;
4.1.0-2.0-3	<ul style="list-style-type: none"> Minimize the need to deploy additional special tools/support equipment, operational and support personnel and spares (systems, sub-systems (LRUs and repair parts (LoRUs); and
4.1.0-2.0-4	<ul style="list-style-type: none"> All major LRUs within the suites will be clearly identified for function and connectivity.
4.2	4.2 Support Guidelines
4.2.0-1	The maintenance concept is based upon the following elements:
4.2.0-1.0-1	<ul style="list-style-type: none"> While operators will be required to perform preliminary inspections and defined User Maintenance tasks (including authorized LRU removal and replacement), only skilled maintenance personnel will perform authorized repairs (LRU/LoRU);
4.2.0-1.0-2	<ul style="list-style-type: none"> At the MSTF level, First and Second Line maintenance of the ISS Command, Control, Communications, Computers and Intelligence (C4I) equipment and components and the system CM of the ISS will be conducted by the Signals Operations and Maintenance personnel. In addition to maintenance, this activity will include configuring the system, network management and other related System Management functions;
4.2.0-1.0-3	<ul style="list-style-type: none"> In principle, when repairs or reconfigurations are needed, they will be done as far forward in the maintenance chain as practicable;
4.2.0-1.0-4	<ul style="list-style-type: none"> LCIS and ISS Operators and System Managers will perform all assigned ISS Operators, First Line and Second Line maintenance functions. In view of the facts that the ISS is anticipated to have built-in diagnostics and enhanced reliability, it is

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	anticipated that no additional manpower resources or special skills will be required by the CF to support the ISS;
4.2.0-1.0-5	<ul style="list-style-type: none"> ○ Material Technicians are responsible for the Load Carriage equipment;
4.2.0-1.0-6	<ul style="list-style-type: none"> ○ Notwithstanding the references to the traditional use of Three Lines of Maintenance used throughout, the Contractor's recommended preventive and corrective maintenance actions and servicing procedures, based on the Supportability Analysis will be used as the basis for maintenance activities and their assignment to the most appropriate Lines of Maintenance. In effect, the Contractor's Maintenance Plan may not require Second Line maintenance tasks. Note that the Contractor, as the OEI for the ISS System, will need to integrate the manufacturer's component maintenance requirements or plans into the ISS System Maintenance Plan. Once approved, the Contractor will develop the initial sparing plan for the lines of maintenance;
4.2.0-1.0-7	<ul style="list-style-type: none"> ○ The Corrective Maintenance Program is based on an economical Level of Repair Analysis (LORA), which places emphasis on "repair by replacement" and a sound preventive maintenance program. This will enable the completion of authorized repairs as rapidly and economically as possible. Maintenance induced failures should be minimized;
4.2.0-1.0-8	<ul style="list-style-type: none"> ○ Owing to the expected high level of integration of the components (Field Programmable Gated Arrays, Application Specific Integrated Circuits etc) and possible security issues, it is not expected that attempts will be made to change components on boards or within sealed units. Field Maintenance will consist of the removal and replacement of damaged, worn or otherwise unserviceable components (LRU replacement and authorized LoRU repair);
4.2.0-1.0-9	<ul style="list-style-type: none"> ○ For more complex items, such as radios and computer, LRU replacement "in-the-field" is the preferred approach with the equipment being sent directly to the Third Line support (Contractor) for repair; and
4.2.0-1.0-10	<ul style="list-style-type: none"> ○ Where practical, Third Line maintenance tasks and activities will be performed by the Contractor and managed through DSSPM. The Contractor will confirm faults found, particularly in the area of software and related hardware malfunctions (i.e. printed circuit boards) and perform Quality Assurance (QA) functions.
5	5 SUPPORT FOR OPERATIONS
5.1	5.1 Maintenance Types and Lines
5.1.0-1	The following sub-paragraphs identify the Maintenance Unit types as well as sample maintenance activities and the personnel responsible for performing these activities.

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5.1.1	5.1.1 First Line Maintenance
5.1.1.0-1	The Operators and the Technicians, employed within the operational units, will perform Operator and First Line maintenance activities respectively.
5.1.1.0-1.0-1	<u>Operator Maintenance</u> , which should take on average 15 minutes/day less power regeneration and includes the following activities:
5.1.1.0-1.0-1.0-1	<ul style="list-style-type: none"> Non technical pre-operational inspection and checks. System Managers will generate mission plans for download by the operator;
5.1.1.0-1.0-1.0-2	<ul style="list-style-type: none"> Scheduled Servicing, power regeneration, cleaning and preventative maintenance operations based on Contractor's instructions to ensure operational readiness of the equipment;
5.1.1.0-1.0-1.0-3	<ul style="list-style-type: none"> Performance of Built in Test (BIT) as required;
5.1.1.0-1.0-1.0-4	<ul style="list-style-type: none"> Remove and replace of LRU, Ancillary Equipment and batteries as authorized;
5.1.1.0-1.0-1.0-5	<ul style="list-style-type: none"> Reporting of system failures and usage information to maintenance personnel;
5.1.1.0-1.0-1.0-6	<ul style="list-style-type: none"> Additional activities as agreed to by the Contractor and DND.
5.1.1.0-1.0-2	<u>Technician Functions</u> - First Line Maintenance activities, as recommended by the Contractor and agreed to by DND, usually taking up to one (1) hour, will be performed by integral First Line Maintenance personnel. For example:
5.1.1.0-1.0-2.0-1	<ul style="list-style-type: none"> Maintaining stocks of spares and repair parts required for operation, servicing and maintenance;
5.1.1.0-1.0-2.0-2	<ul style="list-style-type: none"> Maintenance of power sub-systems (i.e. battery chargers);
5.1.1.0-1.0-2.0-3	<ul style="list-style-type: none"> Maintenance of Electro-optical sub-systems (i.e. Night Vision Goggles; micro-Unmanned Air Vehicles; acquired weapons sensors; and their interfaces);
5.1.1.0-1.0-2.0-4	<ul style="list-style-type: none"> Reconditioning/minor repair of textile components (i.e. vests, pouches);
5.1.1.0-1.0-2.0-5	<ul style="list-style-type: none"> Operation and maintenance of Special Tools and Test Equipment (STTE), such as BIT equipment, as required;
5.1.1.0-1.0-2.0-6	<ul style="list-style-type: none"> Confirming faults found by the operator and, for unidentified failures, finding and isolating faults;
5.1.1.0-1.0-2.0-7	<ul style="list-style-type: none"> Removal, replacement and repair of faulty LRU/LoRU, as authorized. Note: Technicians will require system management training to the level necessary to confirm repairs and network functionality;

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5.1.1.0-1.0-2.0-8	○ Calibration of equipment and reprogramming software and firmware;
5.1.1.0-1.0-2.0-9	○ Performance of limited repairs to LRU/LoRU, as authorized;
5.1.1.0-1.0-2.0-10	○ Reconditioning of spares, as authorized; and
5.1.1.0-1.0-2.0-11	○ Recording of maintenance data and real time use information.
5.1.1.0-1.0-3	Normal maintenance activity will be to back load the faulty equipment or LRU to a 2nd Line maintenance organization. Second Line Maintenance activities, as recommended by the Contractor and agreed to by DND, usually taking up to two (2) hours, will be performed by 2nd Line Maintenance personnel. If within the MSTF capability, all authorized repairs will be conducted as far forward as possible.
5.1.1.0-1.0-4	<u>Electronic fault diagnostics</u> - The fault diagnostics capability of the ISS may be facilitated by the use of BIT Equipment. Preferably, the system would indicate the faulty LRU on a display screen. In the event where this method is impractical or unaffordable, the system will be diagnosed to LRU level with the help of Trouble Shooting Aids/Diagrams and the use of common existing in-house test equipment; and
5.1.1.0-1.0-5	<u>Cable Repairs</u> - A high wear item, continuity checks on cables and integrity of connectors will be essential to mission success. Cables repair may involve replacement/repair of connectors; manufacture of new cables in theatre and/or repair of receptacles. Cable design, incorporating strain relief, will minimize the need for cable repair.
5.1.2	5.1.2 Second Line Repair Shop
5.1.2.0-1	The Contractors Maintenance Plan may not require Second line maintenance tasks. Faulty LRUs or LoRUs that are beyond the maintenance scope of the CF maintenance resources will be returned for repair or replacement to the Contractor as authorized.
5.1.2.0-2	At the Second Line Shop, for units without First Line capability, maintenance functions will be limited to the following:
5.1.2.0-2.0-1	○ Finding/isolating faults at LRU / LoRU level;
5.1.2.0-2.0-2	○ Replacement of faulty LRUs / LoRUs;
5.1.2.0-2.0-3	○ Repair faulty LRU / LoRU as authorized and;
5.1.2.0-2.0-4	○ Recording of maintenance information.
5.1.2.0-3	Repairable ISS components will be repaired or returned to the Contractor for assessment and repair under the R&O Contract. Repairs will be conducted by deployed workshops with access to the necessary hardstand, tools and test equipment.

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5.1.2.0-3.0-1	○ Calibration of equipment, reprogramming software/firmware;
5.1.2.0-3.0-2	○ Fault isolation and repair by replacement of assemblies, subassemblies and components;
5.1.2.0-3.0-3	○ Operation and maintenance of STTE;
5.1.2.0-3.0-4	○ Scheduled inspection/preventive maintenance of assemblies, sub-assemblies and components of items held in the CFSS; and
5.1.2.0-3.0-5	○ First and Second Line maintenance instructions will be based on the Contractor's recommended Maintenance Plan and approved by DND.
5.1.2.0-4	Technicians in the supporting maintenance organizations will perform defined First Line (for units without integral maintenance support) and assigned Second Line maintenance tasks, usually taking up to two (2) hours, as recommended by the Contractor and agreed to by DND.
5.1.3	5.1.3 Third Line Maintenance
5.1.3.0-1	It is expected that Contractor support may be sought for all other maintenance requirements. The Contractor may be tasked, on an as required basis, to provide verification of maintenance required and confirmation of services provided.
5.2	5.2 Tools & Test Equipment Distribution
5.2.0-1	Tools and test equipment required to perform First and Second Line maintenance activities are expected to be minimal. Existing in-house tools and test equipment will be used wherever possible. The relevant Contractor will identify all tools and test equipment required in support of the ISS. Required equipment not currently found in DND inventory may, based on a cost benefit analysis, be procured to support in-house maintenance responsibilities.
5.2.0-2	As a result, limited additional tools will be purchased and distributed to the applicable maintenance organizations as required.
5.3	5.3 Maintenance and Storage Facilities
5.3.0-1	<u>Maintenance Facilities</u> . Current DND facilities are considered to be adequate for the repair of the ISS at the maintenance lines identified.
5.3.0-2	<u>Storage Facilities</u> . Some ISS components may be controlled items under the Canadian Controlled Goods Regulations or other like regulations (e.g. International Traffic in Arms Regulations (ITAR)) and/or items identified IAW applicable policies and regulations, such as Hazardous Material (HAZMAT), Dangerous Goods and the Environmental

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	Protection Act (EPA). As such, some items may be identified for controlled storage.
5.3.0-3	<u>Equipment Issue</u> . ISS will be issued to individual soldiers as part of their personal kit. When not on operations, secure storage may be required in similar fashion to weapons. Storage must be done within existing facilities or security containers.
5.3.0-4	<u>Equipment Reconstitution</u> . Whenever possible, all ISS being returned from a theatre of operations will undergo thorough cleaning if mandated by Agriculture Canada. In addition, batteries will be removed and packed separately. All equipment will undergo a visual inspection, and equipment with damage will be noted and tagged or classified for serviceability prior to shipment to Canada or the Contractor.
5.4	5.4 Software Maintenance and Configuration Management
5.4.0-1	The ISS requires the dedicated management of System Release hardware, software and firmware.
5.4.0-2	It is anticipated that the software/firmware will be maintained by the Contractor, with required updates forwarded to NDHQ, through the Project Management Office (PMO) ISS Project (ISSP) ILS Manager (ILSM) or EMT ISS, as applicable. If required, updated data will be distributed electronically to each of the user units. Garrison access to a real-time, web-based application on the DND Wide Area Network (DWAN) is envisioned for the future. Updates to BIT Equipment will be distributed in the same manner.
5.5	5.5 Warranty
5.5.0-1	The PMO ISSP ILSM/TA, in conjunction with the Contractor, will determine the warranty validity for individual items of the ISS and will inform the ISSP of items/systems to be returned to the Contractor for repair under warranty. The ISSP PMO will act as coordinator for the return of all ISS items under warranty to the Contractor.
5.6	5.6 Post Warranty Unserviceable Items
5.6.0-1	Unserviceable ISS or parts thereof will be collected at the CFSD and the PMO ISSP/EMT notified. Depending on the urgency and economical repair quantity, the PMO/EMT will forward the equipment for repair or disposal under an OWSS contract.
5.7	5.7 Demilitarization and Disposal
5.7.0-1	Some components of the ISS may be designated as Controlled Goods under ITAR and the Canadian Controlled Goods Regulation and identified as such in the supply system with a Demilitarization Code (DMC) of "F". Inspection of items is to be performed by a Second Line Maintenance organization and the identified non-serviceable items are to be returned to the Contractor for repair, cannibalization or scrap. For the electronic components, it is planned to have all salvage returned to the Contractor for controlled disposal. Non-hazardous, non repairable components, that are not controlled goods or otherwise

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	restricted for disposal within the theatre, may be disposed of on site. All disposal will be managed by DND/PMO ISSP ILSM or the EMT after transition.
6	6 TRAINING SUPPORT CONCEPT
6.1	6.1 Overview of the Training Concept
6.1.0-1	The ISS is a Deployable Weapons Systems, issued only to MSTFs once they have been designated for operations or as standby/readiness for operations. It is not issued to the 'Institutional Army'. This fact guides the overall training requirements, which need to focus on meeting the high level of individual and collective combat readiness undertaken as a MSTF readies for combat. This will take place during the pre-deployment cycle established as part of the Army Managed Readiness Cycle once a MSTF has been designated.
6.1.0-2	A secondary objective is to support the introduction and use of the system at the School of Infantry, CTC, and the CFSCE for technical training. It should be noted that ISS will be withdrawn from MSTFs returning to Canada. Those units may not be re-selected for deployment for up to three years. As a result, operator and maintainer skill fade will occur between deployments.
6.2	6.2 Performance Oriented Training
6.2.0-1	ISS training should be performance based and must be developed IAW CF Individual Training and Education System (CFITES). Collective training should use Battle Tasks Standards. Operational performance requirements will be used as the baseline to assess both individual and collective training performance requirements.
6.3	6.3 Training Needs Analysis (TNA)
6.3.0-1	ISS training will be based upon a comprehensive TNA. A TNA is defined as the process necessary to analyse training needs to determine the outcomes of training after training has been prescribed as the solution to the performance deficiency. The TNA for the ISS will be completed by Director of Army Training (DAT) with the assistance and input of PMO ISSP and ISSP Training Development Officer. It will be used by the Project to guide the implementation of initial and follow-on training, including the transition between Project and steady-state operational training requirements.
6.4	6.4 Strategy -Train the Trainer
6.4.0-1	Approach. The "Train the Trainer" approach will be used for ISS training. In general, the Contractor will provide Pilot ICT to selected DND personnel. Pilot ICT is , designed primarily to validate training.
6.4.0-2	The Contractor will then conduct ICT to MSTF representatives and conducted in three categories: Operator, System Management and Maintenance training.

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6.4.0-3	Responsibility. Follow-up operator, system management and maintenance training will then become the responsibility of DND to conduct on a recurring basis. Sustainment training for:
6.4.0-3.0-1	Operators and system management will be the responsibility of the CTC CoE.; and
6.4.0-3.0-2	Maintenance personnel will be the responsibility of the CFSCE.
6.4.0-4	These CoEs will provide input into all other courses that require knowledge of the operational or technical attributes of the ISS.
6.5	6.5 Individual and Collective Training
6.5.1	6.5.1 General
6.5.1-1	It is expected that ISS will ‘fundamentally affect the way the Canadian Soldier fights’. As a result, DND training needs to address both individual and collective training requirements as detailed in subsequent paragraphs in this section.
6.5.1-2	ICT will be at the individual level. As the ISS progresses and matures over time, collective training requirements will be developed and managed by CTC/CoE, including Tactics, Techniques and Procedures (TTP) development.
6.5.1-3	In addition, DND will need to ensure Lessons Learned are collected and used to influence future training requirements.
6.5.2	6.5.2 Individual Training
6.5.2.0-1	Individual Training comprises the instructional activities for individual members of the CF that provide the skills, knowledge and attitudes required in the performance of assigned duties, or upon which information can be correctly interpreted and sound judgment exercised. These activities result in a qualification being conferred upon the member.
6.5.3	6.5.3 Collective Training
6.5.3.0-1	Collective Training is the training, other than Individual Training and Education (IT&E), designed to prepare teams, units and other elements to perform military tasks IAW defined standards. Collective training includes procedural drill and the practical application of doctrines, plans and procedures to acquire and maintain tactical, operational and strategic capabilities between groups of soldiers. Collective training for ISS will involve the development by DAT/Directorate of Army Doctrine (DAD) of collective training standards to be incorporated into the second Cycle of Pre-Deployment training.
6.5.4	6.5.4 Target Population

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6.5.4.0-1	ISS training faces the challenge of addressing training for a dynamic and wide-ranging target population. Variation in the characteristics of ISS trainees may be attributed to:
6.5.4.0-1.0-1	<ul style="list-style-type: none"> ○ The need to be familiar with multiple configurations of equipment forming the ISS and their use at various levels of command;
6.5.4.0-1.0-2	<ul style="list-style-type: none"> ○ Different occupational and job experience backgrounds; and
6.5.4.0-1.0-3	<ul style="list-style-type: none"> ○ Skills fade due to non-continuous access to and use of similar technology.
6.6	6.6 Operator, System Management and Maintenance Training
6.6.0-1	The target population for the training to be developed will be required for the following classifications:
6.6.0-1.0-1	<ul style="list-style-type: none"> ○ <u>Operators</u> - The ISS will be utilized within a MSTF on deployed operations. Operators will be Combat Arms, and predominately Infantry and Combat Support. Some training on the ISS may be aimed at CSS trades assigned to operate within a MSTF on operations;
6.6.0-1.0-2	<ul style="list-style-type: none"> ○ <u>System Managers</u> - A special category of Operators and/or Maintainers will be tasked to perform the System Management functions related to Communications planning and system configuration; and
6.6.0-1.0-3	<ul style="list-style-type: none"> ○ <u>Maintainers</u> - Training will be focused on Land Communications Information System (LCIS) Technicians. Any training on new technology will be identified either through the Supportability Analysis process or as specified by the PMO ISSP ILSM. Training will be presented to Area technical personnel concurrently with the fielding of ISS equipment. Training will be conducted by CF ICT instructors. CF Technician training packages will be maintained by the CoE at CFSCE, (LCIS).
6.7	6.7 Pilot ICT and ICT Training
6.7.0-1	Designated CF Operational personnel must be capable of performing all tasks, for their respective Military Occupation Structure Identification (MOSID), to the assigned training standard.
6.7.0-2	<u>Pilot ICT Training.</u> DND personnel selected from the appropriate CoE as ISS CF Instructors, will attend the Contractor delivered Pilot ICT Operator Instructors Course, Pilot ICT Maintainer Instructors Course and Pilot ICT System Management Instructors Course.
6.7.0-3	<u>ICT Training.</u> The ISS CF Instructors will in turn train Subject Matter Experts (SMEs) capable of validating the ICT training materiel. The validation will take place following the Pilot ICT Instructors Course and lead to the approval of the final version of the ICT

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	courseware.
6.7.0-4	<u>Pilot ICT Serials.</u> Pilot ICT is designed to validate initial training and will include training by the contractor to CF personnel who will be selected based on their SME background and MOSID.
6.7.0-5	<u>ICT Serials.</u> ICT is designed to train a small group of soldiers who will then train the MSTF. To ensure that there is sufficient trained personnel at the Platoon and Company levels only a small complement of soldiers are required to be trained by the contractor.
6.8	6.8 Regenerative (Refresher) Training
6.8.0-1	There may be a requirement to obtain additional ICT courses from the Contractor. These would be required if the CoE training staff is not available to train the next rotation MSTF. In this case courses will be conducted at the CF Training Facility which may be a major Base or Area Training Center. In order to ensure the ICT training package is kept current, the Project may provide training updates to the Contractor on an as required basis. The requirement for additional courses will be articulated through the acquisition and in-service support contract(s) mechanisms in place.
6.9	6.9 Performance Standards
6.9.1	6.9.1 Performance Standards Overview
6.9.1.0-1	In order to meet both individual and operational capabilities, ISS training is to be based upon Performance Objectives (POs) and clearly defined standards. The design and development of the training is expected to be objective, measurable, and realistic with respect to the operational environment. The following sub-sections concern the training performance standards for ISS training.
6.10	6.10 Knowledge and Skill Acquisition
6.10.0-1	This sub-section outlines the knowledge and acquisition standards for the ISS. An eighty percent (80%) acquisition rate is required for ISS:
6.10.0-1.0-1	<ul style="list-style-type: none"> ○ Operator trainers should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days;
6.10.0-1.0-2	<ul style="list-style-type: none"> ○ Operators should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days;
6.10.0-1.0-3	<ul style="list-style-type: none"> ○ Technician trainers should be able to acquire the required knowledge and skill levels within the time span of not more than ten (10) normal training days;
6.10.0-1.0-4	<ul style="list-style-type: none"> ○ First Line maintainers should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days;

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6.10.0-1.0-5	<ul style="list-style-type: none"> ○ Second Line maintainers should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days;
6.10.0-1.0-6	<ul style="list-style-type: none"> ○ System Manager trainers should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days; and
6.10.0-1.0-7	<ul style="list-style-type: none"> ○ System Managers should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days.
6.11	6.11 Time for Knowledge and Skills Retention
6.11.0-1	All ISS operators, maintainers, and system managers who achieve the initial knowledge acquisition and skills levels should be able to maintain those levels without significant degradation, throughout a normal managed readiness schedule (approximately 18 months). The retention of training manuals, student guides or computer based training aids will greatly enhance retention of skills.
6.12	6.12 Management of Training
6.12.1	6.12.1 Scheduling
6.12.1.0-1	One of the key factors in the successful introduction of a system is the proper and timely training of operators, system managers and maintainers. This premise holds true at both the individual and collective level. Training will therefore be targeted at personnel shortly after joining the MSTF and during the individual training phase of the MSTF training program. The Contractor's Training Program plan will outline the scheduling of training.
6.12.1.0-2	IAW the Army Managed Readiness System, a MSTF starts to assemble its resources, required to conduct training, nine months before deployment. Therefore, it will be incumbent of the ISSP PMO ILSM to ensure the equipment and training means are planned to be available at the early stage of the MSTF mounting. Trainers will need to be identified early in this process to ensure their availability at the earliest stage of individual training as tasked by the MSTF.
6.12.2	6.12.2 Qualification
6.12.2.0-1	A unique CF qualification number, to record that a soldier has received training IAW with training standards and training plans, shall be assigned to an individual upon successful completion of ISS training. This would add credibility to training as it would mark training as being objective; quantifiable; traceable; and to formally record the use of CF resources for Human Resources (HR) and material resource management. Furthermore, this will provide the MSTF Commander with evidence and proof that soldiers are properly trained.
6.12.3	6.12.3 Certification

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6.12.3.0-1	Upon completion of ISS training, certification shall be granted in order to identify when the training was received and for what period of time the training is valid in order to justify performance competency. ISS training is valid for 18 months after training has been administered as per MSTF pre-deployment checklist.
6.12.4	6.12.4 Militia/Reserves Training
6.12.4.0-1	There will be no special training for Militia/Reserve personnel. Reserve personnel called out on operations, will receive training on ISS during pre-rotation certification training for the MSTF.
6.12.5	6.12.5 Feedback
6.12.5.0-1	Feedback will be collected at all stages of the analysis, design, development, conduct, evaluation, and validation of training by PMO ISSP. Suggestions from CoE personnel, operators, mentors, and supervisors are encouraged. Post Mission reports will be analysed for Lessons Learned and feedback provided to the appropriate authorities to improve TTPs and training delivery. Suggested areas for improvement to training should be forwarded to the ISSP Training Development Officer for consolidation and consideration for further action if required.
7	7 Optimized Weapon System Support (OWSS)
7.1	7.1 General
7.1.0-1	The ISS will be supported during its in service life through an OWSS program. The need for the OWSS program results from recognition that DND has to provide effective and efficient life cycle support for new weapons systems in partnership with industry, particularly in view of limited availability of funding and HR.
7.1.0-2	A vital key to achieving an optimized in service support system is to determine, during the definition phase of a new project, the most effective and efficient manner to support the weapon system throughout its Life Cycle, with the caveat that operational support must not be compromised. From this determination, support activities which would be best completed by the Contractor are identified and included in the support system requirements for the ISS.
7.1.0-3	Accordingly, DND will be looking to acquire a number of support services to provide elements of long term support which will not be carried out in-house. Since DND is not planning to procure the complete Technical Data Package or any maintenance information beyond assigned Second Line tasks, these Support Services will be required for the life of the system.
7.1.0-4	It is expected that the Contractor may be asked to augment DND in house capabilities in the following areas:

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7.1.0-4.0-1	○ Core Services -
7.1.0-4.0-1.0-1	<ul style="list-style-type: none"> • DND access to ISS Technical Data Package via an Electronic Information Environment (EIE);
7.1.0-4.0-1.0-2	<ul style="list-style-type: none"> • Supply Support;
7.1.0-4.0-1.0-3	<ul style="list-style-type: none"> • Re-provisioning;
7.1.0-4.0-1.0-4	<ul style="list-style-type: none"> • Obsolescence Management;
7.1.0-4.0-1.0-5	<ul style="list-style-type: none"> • R&O; and
7.1.0-4.0-1.0-6	<ul style="list-style-type: none"> • CM.
7.1.0-4.0-2	○ Task Based Services -
7.1.0-4.0-2.0-1	<ul style="list-style-type: none"> • System Engineering Support, Technical Investigation and Engineering Support (TIES);
7.1.0-4.0-2.0-2	<ul style="list-style-type: none"> • ILS; and
7.1.0-4.0-2.0-3	<ul style="list-style-type: none"> • Field Service Representatives.
7.2	7.2 OWSS Management
7.2.0-1	<p>During the Acquisition Phase, OWSS will be managed by the PMO ISSP ILSM as part of the ILS component of the Contract Management program. During the In-service Phase, OWSS will be managed by the ILSM as the only remaining ILS component of the Contract Management program until transfer to a DND EMT. A similar transition of responsibilities within the Contractor's organization is expected and will have to be managed accordingly.</p>

APPENDIX 2 TO ANNEX CA TO VOLUME 3

PERSONNEL REQUIREMENTS

FOR THE

OPTIMIZED WEAPON SYSTEM SUPPORT (OWSS)

FOR THE

INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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1	1 Personnel Requirements Summary
1.0-1	The following list summarises the types of personnel skill sets required to provide the support services described in the SOW:
1.0-1.0-1	SPJM - Senior Project Manager
1.0-1.0-2	PJA - Project Administrator
1.0-1.0-3	ISSE - Intermediate Software System Engineer
1.0-1.0-4	ISS - Intermediate Software Specialist
1.0-1.0-5	CM - Configuration Manager
1.0-1.0-6	SSTE - Senior SW Test Engineer
1.0-1.0-7	FSR - Field Service Representative (bilingual capability requirement)
1.0-1.0-8	SMI - System Management Instructor
1.0-1.0-9	IILSS - Intermediate Integrated Logistics Support Specialist
1.0-1.0-10	ITS - Intermediate Test Specialist
1.0-1.0-11	IST - Intermediate System Technologist
1.0-1.0-12	IHE - Intermediate Hardware Engineer
1.0-1.0-13	SSE - Senior System Engineer
1.0-1.0-14	JSE - Junior System Engineer
1.0-1.0-15	ISFE - Intermediate Software/Firmware Engineer
1.0-1.0-16	SQS - Senior Quality Specialist
1.0-1.0-17	SLSS - Senior LCM Support Specialist (bilingual capability requirement)
2	2 Bilingual Capability
2.0-1	Some tasks are expected to require Contractor personnel who are capable of working with CF personnel in their unit's official language.
2.0-2	For those categories above, annotated with a bilingual capability requirement, the

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	contractor will be expected to be capable of providing a proportion of personnel that are able to communicate orally and in writing in both official languages of Canada (French and English).
3	3 Qualifications and Skills
3.0-1	The qualifications and skill sets specified below are the minimum expected for contractor provided personnel. The SOW as a whole states the total breadth of capability and experience required of the contractor personnel to perform all the work required if, as and when tasked. For a specific task and skill set, the experience of tasked personnel in supporting different types of equipment and systems, software languages, applications, frameworks, operating systems, environments and standards will be narrower than the total breadth and will be specified. The contractor must be capable of providing personnel with the needed capability and experience to perform the work at the contracted rates for the particular skill set. The senior level in each category type must have the demonstrated capability and experience to function as a team leader.
3.1	3.1 Senior Project Manager (SPJM)
3.1.1	3.1.1 Criteria
3.1.1.1	3.1.1.1 Education and Experience Combination
3.1.1.1.0-1	The SPJM must have the following minimum qualifications:
3.1.1.1.0-1.0-1	A university undergraduate degree in project management, business, engineering, science or information systems and four years of project management experience in the last eight years and two years experience in charge of a team of no less than five individuals; or
3.1.1.1.0-1.0-2	A college diploma (two or three year program) in project management, business, electrical engineering, electronics, telecommunications, computers or information technology program and five years of project management experience in the last ten years and two years of experience in charge of a team of no less than five individuals; or
3.1.1.1.0-1.0-3	The Project Management Institute's Project Management Professional (PMP) certification and six years of project management experience in the last ten years and two years of experience in charge of a team of no less than five individuals.
3.2	3.2 Project Administrator (PJA)
3.2.1	3.2.1 Criteria
3.2.1.1	3.2.1.1 Education and Experience Combination

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3.2.1.1.0-1	The PJA must have the following minimum qualifications:
3.2.1.1.1	3.2.1.1.1 Education
3.2.1.1.1.0-1	Must have a minimum of a high school diploma, and
3.2.1.1.2	3.2.1.1.2 Experience
3.2.1.1.2.0-1	Must have a minimum of twelve months of demonstrated experience in the last three years directly providing management support services.
3.3	3.3 Intermediate Software System Engineer (ISSE)
3.3.1	3.3.1 Criteria
3.3.1.1	3.3.1.1 Education and Experience Combination
3.3.1.1.0-1	The ISSE must have the following minimum qualifications:
3.3.1.1.1	3.3.1.1.1 Education
3.3.1.1.1.0-1	Must have a minimum of a university undergraduate degree in Software Engineering, Computer Engineering or equivalent from a Canadian Council of Professional Engineers (CCPE) accredited engineering program; or
3.3.1.1.1.0-2	Alternatively, should the candidate's software engineering, computer engineering or equivalent degree be from a non-CCPE accredited engineering program, their software engineering education credentials must be deemed 'substantially equivalent' by the CCPE via an application to the Engineering International - Education Assessment Program, (EI-EAP); or
3.3.1.1.1.0-3	Finally, as a third alternative, the candidate's software engineering education credentials will be considered compliant if the candidate is deemed eligible, by a recognized provincial licensing body, for registration as a Professional Engineer based primarily on the candidate's software engineering or computer engineering education and experience credentials; and,
3.3.1.1.2	3.3.1.1.2 Experience
3.3.1.1.2.0-1	Must have a minimum of five years of demonstrated work experience in a relevant systems support field within the last seven years.
3.4	3.4 Intermediate Software Specialist (ISS)
3.4.1	3.4.1 Criteria

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3.4.1.1	3.4.1.1 Education and Experience Combination
3.4.1.1.0-1	The ISS must have a minimum of:
3.4.1.1.0-2	A university undergraduate degree in engineering or science and a minimum of three years of demonstrated work experience in a Software/Firmware related systems support field within the last five years; or
3.4.1.1.0-3	A college diploma (two or three year program) in an electrical engineering, electronics, telecommunications, computers or information technology program and a minimum of five years of demonstrated work experience in a Software/Firmware related systems support field within the last eight years; or
3.4.1.1.0-4	Successful completion of an intensive Software/Firmware course with a minimum of six hundred hours of instruction and assignments and a minimum of five years of demonstrated work experience in a Software/Firmware related systems support field within the last eight years; or
3.4.1.1.0-5	A minimum of six years of demonstrated work experience in a Software/Firmware related support field within the last nine years.
3.5	3.5 Configuration Manager (CM)
3.5.1	3.5.1 General
3.5.1.0-1	Tasks may include the following:
3.5.1.0-1.0-1	Preparing and implementing CM plans, processes and procedures;
3.5.1.0-1.0-2	Defining configuration management tools and techniques;
3.5.1.0-1.0-3	Defining configuration identification requirements;
3.5.1.0-1.0-4	Establishing a configuration change control process;
3.5.1.0-1.0-5	Performing configuration status accounting;
3.5.1.0-1.0-6	Managing a configuration/data management section;
3.5.1.0-1.0-7	Establishing configuration audit procedures;
3.5.1.0-1.0-8	Performing Release planning; and
3.5.1.0-1.0-9	Identifying CM requirements in SOWs, CDRLs and DIDs.
3.5.2	3.5.2 Criteria

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3.5.2.1	3.5.2.1 Education and Experience Combination
3.5.2.1.0-1	The CM must have a minimum of:
3.5.2.1.0-1.0-1	University undergraduate degree in engineering or science; or
3.5.2.1.0-1.0-2	College diploma (two or three year program) in a configuration management, electrical engineering, electronics, telecommunications, computers or information technology program; and
3.5.2.1.0-1.0-3	Must have a minimum of four years of demonstrated CM work experience within the last eight years including experience in at least six of the CM related activities.
3.6	3.6 Senior Software Test Engineer (SSTE)
3.6.1	3.6.1 General
3.6.1.0-1	The Senior Software Test Engineer (SSTE) shall have the requisite experience in managing tests, directly supervising other test personnel and performing manual and automated testing. The SSTE will also have experience in developing and implementing a test strategy in conjunction with the software development team to perform identified test program and tasks.
3.6.2	3.6.2 Criteria
3.6.2.1	3.6.2.1 Education and Experience Combination
3.6.2.1.0-1	The SSTE must have a minimum of the following qualifications:
3.6.2.1.0-1.0-1	University undergraduate degree in computer engineering, software engineering or equivalent;
3.6.2.1.0-1.0-2	A minimum of three (3) years as a manager of both a test program and of test personnel equivalent to at least three full time personnel; and
3.6.2.1.0-1.0-3	A minimum of six (6) years experience in at least four of the activities listed below:
3.6.2.1.0-1.0-3.0-1	Preparing and implementing software test plans and procedures;
3.6.2.1.0-1.0-3.0-2	Use of automated testing tool;
3.6.2.1.0-1.0-3.0-3	Review of requirements;
3.6.2.1.0-1.0-3.0-4	Use of Case tools (e.g. Requirements Management, Configuration Management, Change Management);

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3.6.2.1.0-1.0-3.0-5	Structured testing techniques and requirements traceability; and
3.6.2.1.0-1.0-3.0-6	Managing testing personnel.
3.7	3.7 Field Service Representative (FSR)
3.7.1	3.7.1 General
3.7.1.0-1	The FSR must be capable of providing In Service Support including as a minimum the following duties:
3.7.1.0-1.0-1	Provide on-going support to users;
3.7.1.0-1.0-2	Cover overall installation and maintenance aspects;
3.7.1.0-1.0-3	Troubleshoot ISS Hardware and System problems;
3.7.1.0-1.0-4	Ensure appropriate personnel resources are aware of problems;
3.7.1.0-1.0-5	Create documents with information for tests, demonstrations;
3.7.1.0-1.0-6	Install new hardware and firmware versions / patches;
3.7.1.0-1.0-7	Update deployment manuals/ guides;
3.7.1.0-1.0-8	Provide feedback to development teams;
3.7.1.0-1.0-9	Logging and sharing problems - building troubleshooting knowledge base; and
3.7.1.0-1.0-10	Provide training support.
3.7.2	3.7.2 Criteria
3.7.2.1	3.7.2.1 Education and Experience Combination
3.7.2.1.0-1	The FSR must have a minimum of at least three years of work experience within the last six years demonstrating the ability to provide In Service Support including the ability to perform the following duties:
3.7.2.1.0-1.0-1	Provide on-going support to users;
3.7.2.1.0-1.0-2	Cover overall installation and maintenance aspects;
3.7.2.1.0-1.0-3	Troubleshoot ISS Hardware and System problems;
3.7.2.1.0-1.0-4	Ensure appropriate personnel are aware of problems;

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3.7.2.1.0-1.0-5	Create documents with information for tests, demonstrations;
3.7.2.1.0-1.0-6	Install new hardware and firmware versions / patches;
3.7.2.1.0-1.0-7	Update deployment manuals/ guides;
3.7.2.1.0-1.0-8	Provide feedback to development teams;
3.7.2.1.0-1.0-9	Logging and sharing problems - building troubleshooting knowledge base; and
3.7.2.1.0-1.0-10	Provide training support.
3.8	3.8 System Management Instructor (SMI)
3.8.1	3.8.1 General
3.8.1.0-1	The System Management Instructor (SMI) shall be fully skilled in and capable of providing instruction for all aspects of the ISS . The SMI shall, as a minimum instruct System Managers and others in the following functions:
3.8.1.0-1.0-1	Installation and Maintenance;
3.8.1.0-1.0-2	Performance of regular database backup activities;
3.8.1.0-1.0-3	Dispatch of problems to appropriate personnel resources;
3.8.1.0-1.0-4	Troubleshooting ISS Software problems;
3.8.1.0-1.0-5	Creating databases for tests, demonstrations;
3.8.1.0-1.0-6	Installing new software versions / patches;
3.8.1.0-1.0-7	Configuring workstations and servers;
3.8.1.0-1.0-8	Updating deployment manuals/ guides;
3.8.1.0-1.0-9	Providing feedback to development teams;
3.8.1.0-1.0-10	Providing ongoing support to trainers;
3.8.1.0-1.0-11	Covering overall installation and functional aspects;
3.8.1.0-1.0-12	Answering user questions;
3.8.1.0-1.0-13	Dispatching problems to appropriate resources;

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3.8.1.0-1.0-14	Logging and sharing problems - building troubleshooting knowledge base; and
3.8.1.0-1.0-15	Performing ad-hoc requests from trainers.
3.8.2	3.8.2 Criteria
3.8.2.1	3.8.2.1 Education and Experience Combination
3.8.2.1.0-1	The SMI must have the following minimum qualifications:
3.8.2.1.1	3.8.2.1.1 Education
3.8.2.1.1.0-1	Must have a minimum of a university undergraduate degree in training development; or
3.8.2.1.1.0-2	Must have a minimum of a university undergraduate degree in project management, business, engineering, science or information systems and two years experience in addition to the experience required below; and
3.8.2.1.2	3.8.2.1.2 Experience
3.8.2.1.2.0-1	Must have a minimum of three years of demonstrated experience in the last five years in training development.
3.9	3.9 Intermediate Integrated Logistics Support Specialist (IILSS)
3.9.1	3.9.1 Criteria
3.9.1.1	3.9.1.1 Education and Experience Combination
3.9.1.1.0-1	The IILSS must have the following minimum qualifications:
3.9.1.1.1	3.9.1.1.1 Education
3.9.1.1.1.0-1	Must have, as a minimum, an undergraduate degree in Engineering or Applied Science from a Canadian Council of Professional Engineers (CCPE) accredited engineering program; or
3.9.1.1.1.0-2	Alternatively, should the candidate's software engineering, computer engineering or equivalent degree be from a non-CCPE accredited engineering program, their engineering education credentials must be deemed 'substantially equivalent' by the CCPE via an application to the Engineering International - Education Assessment Program, (EI-EAP); or
3.9.1.1.1.0-3	Finally, as a third alternative, the candidate's engineering education credentials will be considered compliant if the candidate is deemed eligible, by a recognized provincial licensing body, for registration as a Professional Engineer based primarily on the

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	candidate's engineering education and experience credentials;
3.9.1.1.2	3.9.1.1.2 Experience
3.9.1.1.2.0-1	Must have, as a minimum, five (5) years of experience in an engineering or applied science field, three (3) years of experience as an Intermediate Logistics Support Specialist; and one (1) year of experience performing configuration management and life cycle costing activities.
3.10	3.10 Intermediate Test Specialist (ITS)
3.10.1	3.10.1 Criteria
3.10.1.1	3.10.1.1 Education and Experience Combination
3.10.1.1.0-1	The ITS must have the following minimum qualifications:
3.10.1.1.1	3.10.1.1.1 Education
3.10.1.1.1.0-1	Must have a minimum of the following qualifications:
3.10.1.1.1.0-1.0-1	University undergraduate degree in engineering, computer science or equivalent; or
3.10.1.1.1.0-1.0-2	College diploma (two or three year program) in an electrical engineering, electronics, telecommunications, computers or information technology program.
3.10.1.1.2	3.10.1.1.2 Experience
3.10.1.1.2.0-1	Must have a minimum of three years experience in at least four of the following activities:
3.10.1.1.2.0-1.0-1	Preparation of test plans and procedures;
3.10.1.1.2.0-1.0-2	Use of automated testing tool;
3.10.1.1.2.0-1.0-3	Review of requirements;
3.10.1.1.2.0-1.0-4	Use of Case tools (e.g. Requirements management, Configuration Management, Change Management);
3.10.1.1.2.0-1.0-5	Structured testing techniques and requirements traceability; and
3.10.1.1.2.0-1.0-6	Managing testing personnel.
3.11	3.11 Intermediate System Technologist (IST)
3.11.1	3.11.1 Criteria

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3.11.1.1	3.11.1.1 Education and Experience Combination
3.11.1.1.0-1	The IST must have a minimum of:
3.11.1.1.0-1.0-1	University undergraduate degree in engineering or science and a minimum of three years of demonstrated work experience in a relevant systems support field within the last five years; or
3.11.1.1.0-1.0-2	A college diploma (two or three year program) in an electrical engineering, electronics, telecommunications, computers or information technology program and a minimum of five years of demonstrated work experience in a relevant systems support field within the last eight (8) years; or
3.11.1.1.0-1.0-3	Successful completion of an intensive electronics, telecommunications or information technology course with a minimum of six hundred hours of instruction and assignments and a minimum of five years of demonstrated work experience in a relevant systems support field within the last eight years.
3.12	3.12 Intermediate Hardware Engineer (IHE)
3.12.1	3.12.1 Criteria
3.12.1.1	3.12.1.1 Education and Experience Combination
3.12.1.1.0-1	The IHE must have the following minimum qualifications:
3.12.1.1.1	3.12.1.1.1 Education
3.12.1.1.1.0-1	Must have a minimum of a university undergraduate degree in Electrical Engineering or Mechanical Engineering from a Canadian Council of Professional Engineers (CCPE) accredited engineering program; or
3.12.1.1.1.0-2	Alternatively, should the candidate's electrical engineering or mechanical engineering degree be from a non-CCPE accredited engineering program, their engineering education credentials must be deemed 'substantially equivalent' by the CCPE via an application to the Engineering International - Education Assessment Program, (EI-EAP); or
3.12.1.1.1.0-3	As a third alternative, the candidate's engineering education credentials will be considered compliant if the candidate is deemed eligible, by a recognized provincial licensing body, for registration as a Professional Engineer based primarily on the candidate's electrical engineering or mechanical engineering education and experience credentials.
3.12.1.1.2	3.12.1.1.2 Experience
3.12.1.1.2.0-1	Must have a minimum of five years of demonstrated work experience in a relevant

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	systems support field within the last seven years.
3.13	3.13 Senior System Engineer (SSE)
3.13.1	3.13.1 Criteria
3.13.1.1	3.13.1.1 Education and Experience Combination
3.13.1.1.0-1	The SSE must have the following minimum qualifications:
3.13.1.1.1	3.13.1.1.1 Education
3.13.1.1.1.0-1	Must have a minimum of a university undergraduate degree in Engineering from a Canadian Council of Professional Engineers (CCPE) accredited engineering program; or
3.13.1.1.1.0-2	Alternatively, should the candidate's degree be from a non-CCPE accredited engineering program, their engineering education credentials must be deemed 'substantially equivalent' by the CCPE via an application to the Engineering International - Education Assessment Program, (EI-EAP); or
3.13.1.1.1.0-3	As a third alternative, the candidates engineering education credentials will be considered compliant if the candidate is deemed eligible, by a recognized provincial licensing body, for registration as a Professional Engineer; and
3.13.1.1.2	3.13.1.1.2 Experience
3.13.1.1.2.0-1	Must have a minimum of seven years of demonstrated work experience in a relevant systems support field within the last ten years.
3.14	3.14 Junior System Engineer (JSE)
3.14.1	3.14.1 Criteria
3.14.1.1	3.14.1.1 Education and Experience Combination
3.14.1.1.0-1	The JSE must have the following minimum qualifications:
3.14.1.1.1	3.14.1.1.1 Education
3.14.1.1.1.0-1	Must have a minimum of a university undergraduate degree in Engineering from a Canadian Council of Professional Engineers (CCPE) accredited engineering program; or
3.14.1.1.1.0-2	Alternatively, should the candidate's degree be from a non-CCPE accredited engineering program, their engineering education credentials must be deemed 'substantially equivalent' by the CCPE via an application to the Engineering International - Education Assessment Program, (EI-EAP); or

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3.14.1.1.1.0-3	As a third alternative, the candidates engineering education credentials will be considered compliant if the candidate is deemed eligible, by a recognized provincial licensing body, for registration as a Professional Engineer; and
3.14.1.1.2	3.14.1.1.2 Experience
3.14.1.1.2.0-1	Must have a minimum of three years of demonstrated work experience in a relevant systems support field within the last six years.
3.15	3.15 Intermediate Software/Firmware Engineer (ISFE)
3.15.1	3.15.1 Criteria
3.15.1.1	3.15.1.1 Education and Experience Combination
3.15.1.1.0-1	The ISFE must have the following minimum qualifications:
3.15.1.1.1	3.15.1.1.1 Education
3.15.1.1.1.0-1	Must have a minimum of a university undergraduate degree in Software Engineering, Computer Engineering or equivalent from a Canadian Council of Professional Engineers (CCPE) accredited engineering program; or
3.15.1.1.1.0-2	Alternatively, should the candidate's software engineering, computer engineering or equivalent degree be from a non-CCPE accredited engineering program, their engineering education credentials must be deemed 'substantially equivalent' by the CCPE via an application to the Engineering International - Education Assessment Program, (EI-EAP); or
3.15.1.1.1.0-3	Finally, as a third alternative, the candidate's engineering education credentials will be considered compliant if the candidate is deemed eligible, by a recognized provincial licensing body, for registration as a Professional Engineer based primarily on the candidate's software engineering or computer engineering education and experience credentials; and
3.15.1.1.2	3.15.1.1.2 Experience
3.15.1.1.2.0-1	Must have a minimum of five years of demonstrated work experience in a relevant systems support field within the last seven years.
3.16	3.16 Senior Quality Specialist (SQS)
3.16.1	3.16.1 General
3.16.1.0-1	Tasks may include the following:

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3.16.1.0-1.0-1	Implementing quality improvement programs;
3.16.1.0-1.0-2	Employing quality assurance tools and techniques;
3.16.1.0-1.0-3	Preparation of Quality Assurance plans and procedures;
3.16.1.0-1.0-4	Conducting quality assurance measurements;
3.16.1.0-1.0-5	Employing release planning techniques;
3.16.1.0-1.0-6	Auditing the implementation of standards, plans and procedures;
3.16.1.0-1.0-7	Managing quality assurance personnel; and
3.16.1.0-1.0-8	Auditing the implementation of quality assurance standards, plans and procedures.
3.16.2	3.16.2 Criteria
3.16.2.1	3.16.2.1 Education and Experience Combination
3.16.2.1.0-1	The SQS must have the following minimum qualifications:
3.16.2.1.1	3.16.2.1.1 Education
3.16.2.1.1.0-1	Must have a minimum of a university undergraduate degree in engineering or science.
3.16.2.1.2	3.16.2.1.2 Experience
3.16.2.1.2.0-1	Must have a minimum of:
3.16.2.1.2.0-1.0-1	Five years experience within the last ten years in Quality Assurance or Quality Program work including experience in at least five of the Quality Specialist support service areas noted in paragraph 3.16.1 above, and
3.16.2.1.2.0-1.0-2	Two years of experience within the last four years in ISO 9001:2000.
3.17	3.17 Senior Life Cycle Management Support Specialist (SLSS)
3.17.1	3.17.1 General
3.17.1.0-1	LCMM work covers a broad area of skill sets. The LCMM would get Subject Matter Expert (SME) backup support from engineers, technologists, technicians and specialists.
3.17.1.0-2	Tasks may include, but are not limited to:
3.17.1.0-2.0-1	Conducting engineering studies and analysis to provide technical solutions to stated technical/logistic or operational requirements/problems including preparation of

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	Engineering Changes (ECs);
3.17.1.0-2.0-2	Defining standards and criteria relevant to equipment or systems maintenance;
3.17.1.0-2.0-3	Preparing, modifying or updating specifications and drawings;
3.17.1.0-2.0-4	Preparing, modifying or updating maintenance handbooks, parts lists, operating manuals and technical instructions and orders;
3.17.1.0-2.0-5	Performing configuration management;
3.17.1.0-2.0-6	Performing analysis of maintenance, repair and overhaul data;
3.17.1.0-2.0-7	Investigating Unsatisfactory Condition Reports (UCRs) and Technical Failure Reports (TFRs);
3.17.1.0-2.0-8	Preparing technical statements of requirement, draft specifications and purchase descriptions;
3.17.1.0-2.0-9	Preparing data for initial provisioning and repair parts scaling;
3.17.1.0-2.0-10	Reviewing the design, development, manufacture, installation and testing of prototype modifications;
3.17.1.0-2.0-11	Preparing support cost option analysis for systems and equipment; and
3.17.1.0-2.0-12	Reviewing disposal certificates, making appropriate recommendations.
3.17.2	3.17.2 Criteria
3.17.2.1	3.17.2.1 Education and Experience Combination
3.17.2.1.0-1	The SLSS must have the following minimum qualifications:
3.17.2.1.1	3.17.2.1.1 Education
3.17.2.1.1.0-1	Must have a minimum of a university undergraduate degree in engineering or science or a college diploma (two or three year program) in an electrical engineering, electronics, telecommunications, computers or information technology program; or
3.17.2.1.1.0-2	Must have a minimum of a Qualification Level 6B (QL6B) trade level in a relevant technical field at the rank of Warrant Officer (WO) or above from the Canadian Forces; and
3.17.2.1.2	3.17.2.1.2 Experience
3.17.2.1.2.0-1	Must have a minimum of four years of demonstrated work experience in Life Cycle

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Materiel Management work in an electronics, telecommunications, computers or
information technology technical field in the last 10 years.

APPENDIX 3 TO ANNEX CA TO VOLUME 3

TASK AUTHORISATION PROCESS FOR THE OPTIMIZED WEAPON SYSTEM SUPPORT (OWSS) FOR THE INTEGRATED SOLDIER SYSTEM (ISS)

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1	1 Limitations
1.0-1	The following definitions must apply to this Appendix:
1.0-1.0-1	<ul style="list-style-type: none"> ○ <u>Task Authorisation (DND 626)</u> is a document issued by the PA to the Contractor to authorise a task within the scope and under the terms and conditions of this Contract.
1.0-1.0-2	<ul style="list-style-type: none"> ○ <u>Task Amendment</u> is a Task Authorisation that is used to modify the work initially approved under an existing Task Authorisation.
1.0-1.0-3	<ul style="list-style-type: none"> ○ <u>Task Amendment Request</u> is a Task Request that is used to notify the TA of the need to amend an existing Task Authorisation.
1.0-1.0-4	<ul style="list-style-type: none"> ○ <u>Task Number</u> is a number assigned by the TA that will uniquely identify every Task Request. Once the task is approved, the exact same number will be used by the TA to track each individual Task Authorisation and to monitor the work associated with it.
1.0-1.0-5	<ul style="list-style-type: none"> ○ <u>Task Request</u> is a document requesting the Contractor to provide a proposal for a task under the scope of this Contract. More information on Task Request can be found at Para 2.0-2.
1.0-2	Except as specifically stated in this Contract, no liability to the Contractor under this Contract must be incurred except through the issuance of a duly signed off Task Authorisation form. For authorised Limitation of Expenditure tasks, the Contractor must not be obliged to perform any work or provide any services that would cause the total liability of the TA to exceed the said financial limitation, unless an increase is so authorized.
1.0-3	The Contractor must refer to Para 2 - Tasking Procedure, and must adhere to the procedure leading to the issuance of Task Authorisations, and comply with the associated administrative requirements.
1.0-4	No Task Authorisation can be issued outside the scope defined in the Statement of Work.
1.0-5	The authorities involved with tasking will perform the following functions:
1.0-5.0-1	<ul style="list-style-type: none"> ○ The TA must define the work, evaluate Contractor's technical proposals, recommend the task, monitor progress and accept the work performed by the Contractor; and
1.0-5.0-2	<ul style="list-style-type: none"> ○ The PA must authorize all the Task Authorisations associated with this Contract.

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1.0-6	The involvement of the CA will not be required unless a specific Task Authorisation exceeds a threshold identified in the PWGSC contract or a change to the contract is required.
2	2 Tasking Procedure
2.0-1	The TA will provide a detailed description of the work to be performed through the use of a Task Request for each instance when the Contractor is requested to perform a task that is not included in the core activities.
2.0-2	A Task Request is a document that describes a DND requirement. To establish a clear understanding of the work for each task, the TA will work in close cooperation with the Contractor. The TA will define each of the following aspects of the task prior to the issuance of a Task Request:
2.0-2.0-1	○ the serial Task Number assigned by the TA;
2.0-2.0-2	○ the date when the Task Request is issued;
2.0-2.0-3	○ the requirements for the task;
2.0-2.0-4	○ statement of Work for the task;
2.0-2.0-5	○ priority;
2.0-2.0-6	○ limitation of expenditure or firm fixed price for the performance of the work
2.0-2.0-7	○ task milestones with estimated completion dates; and
2.0-2.0-8	○ acceptance criteria for the work.
2.0-3	Once the TA has reviewed and recommended the Task Request, the PA will request the Contractor to submit a proposal for the work to be performed. After receiving a Task Request, the Contractor must:
2.0-3.0-1	○ issue an acknowledgement to the PA within five (5) working days. This acknowledgement may take the form of a letter, fax or e-mail;
2.0-3.0-2	○ issue a proposal to the PA within fifteen (15) working days of receipt of the Task Request, or after a period mutually agreed upon. The proposal must have sufficient details to facilitate approval, including the hours and types of resources required to complete the work, the cost of the required tools, parts or material as applicable, the requested or proposed Basis of Payment, the rates used, and the total cost;
2.0-3.0-3	○ commence activities on a task only when a duly authorized Task Authorisation, has been issued by the PA, concurrently with the Contractor accepting the work as

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	specified at the next paragraph;
2.0-3.0-4	<ul style="list-style-type: none"> ○ schedule the work and officially accept the task by issuing a letter or a fax to the PA within five (5) workings days of receipt of a duly authorised Task Authorisation, or after a period mutually agreed upon;
2.0-3.0-5	<ul style="list-style-type: none"> ○ as a minimum, communicate progress on individual tasks through the Monthly Service Status Report described at Para 4.1.1.0-11 of this Statement of Work; and
2.0-3.0-6	<ul style="list-style-type: none"> ○ once a Limitation of Expenditure Task has reached the 75% expenditure level, notify the PA if the remaining resources are expected to be sufficient to complete the task. Should more resources be required to complete the task, the Contractor must forward a Task Amendment Request to the PA. If at any time the Contractor determines that the Limitation of Expenditure may be exceeded, the Contractor must notify the PA and forward a Task Amendment Request. If the Contractor determines that significant surplus funds will exist at Task completion, as mutually agreed, the Contractor may submit a request to amend the task authorised amount to the PA.
2.0-4	Task Amendments must be used to make changes on a Task Authorisation. The TA or the Contractor may initiate a Task Amendment by issuing a Task Amendment Request. An amendment may involve a change in priority, scope, and level of effort, price, or other issue relating to the Task Authorisation. The Contractor will be advised of a Task Amendment Request by the same formal mechanism that is used for Task Requests, as described above at Para 2.0-3.
2.0-5	The PA may request to put a task on hold, in which case the Contractor will be notified with a letter or fax. The Contractor must immediately acknowledge receiving this letter or fax and stop work. Only the PA has the authority to put a task on hold, under the recommendation of the TA.
2.0-6	A task will be considered complete when the requirements, identified in the Task Authorisation, including any applicable revisions, are completed, and after the deliverables are deemed to have met the acceptance criteria that are contained within this same Task Authorisation. The Contractor must submit a request for Task Closure letter to the PA. The PA will confirm task completion with the TA and then issue a Task Closure Letter. The Task Closure Letter must be signed and forwarded within ten (10) Working Days of receipt of the Contractor's request and the task will be closed out.
3	3 Financial Arrangement
3.0-1	The Contractor must submit his proposal including the price with accompanying supporting details to the PA for review.

APPENDIX 4 TO ANNEX CA TO VOLUME 3

SPARE PARTS PROCUREMENT PROCESS FOR THE OPTIMIZED WEAPON SYSTEM SUPPORT (OWSS) FOR THE INTEGRATED SOLDIER SYSTEM (ISS)

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1	1 Limitations
1.0-1	The following definitions must apply to this Appendix:
1.0-1.0-1	<ul style="list-style-type: none"> Full Detail includes information regarding the Contractor's backup sourcing data which is non-public, confidential and proprietary in nature and which must be marked "Contractor Proprietary".
1.0-1.0-2	<ul style="list-style-type: none"> Spare Parts Order is a document that may be issued by the CA to the Contractor to authorize spare parts procurement within the scope and under the terms and conditions of this Contract.
1.0-1.0-3	<ul style="list-style-type: none"> Spare Parts Order Amendment is used to modify an order initially approved under an existing spare parts order.
1.0-1.0-4	<ul style="list-style-type: none"> Spare Parts Order Number will uniquely identify a spare parts order. The spare parts order number will be used to track the status of each individual order.
1.0-1.0-5	<ul style="list-style-type: none"> Spare Parts Request for Proposal is a document requesting the Contractor to provide a proposal for a Spare Parts requirement under the scope of this Contract. More information on Spare Part Request for Proposal can be found at Para 2.0-2.
1.0-2	The Contractor must refer to Para 2 - Spare Parts Order Procedure, and must adhere to the procedure leading to the issuance of the spare parts order, and comply with the associated administrative requirements.
1.0-3	No spare part order can be issued outside the scope defined at Section 1 of Annex CA, Statement of Work.
1.0-4	The authorities involved with spare parts order will perform the following functions.
1.0-4.0-1	<ul style="list-style-type: none"> The Contracting Authority will provide the requirements and issue a request for proposal to the Contractor as applicable.
1.0-4.0-2	<ul style="list-style-type: none"> The Contractor must submit a spare parts proposal, with supporting details, to the CA. When requested by the CA, full detail for selected spare parts proposals must be supplied within 5 days and will be used solely for the purpose of evaluating the transaction. Such evaluation material will be kept confidential and will not be disclosed or otherwise used by Canada.
1.0-4.0-3	<ul style="list-style-type: none"> The CA will evaluate and negotiate with the Contractor as necessary, and upon agreement being reached, authorize and place the spare parts order.
1.0-4.0-4	<ul style="list-style-type: none"> The Contractor must not proceed with any spare parts orders without the written

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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	authorization of the CA.
1.0-4.0-5	<ul style="list-style-type: none"> ○ The CA will from time to time amend the Contract to consolidate spare parts orders through a contract change.
1.0-5	The PA will be the DND POC for spare parts procurement for the execution of the OWSS contract.
2	2 Spare Parts Order Procedure
2.0-1	The CA will provide a detailed description of the spare parts to be supplied through the use of a Spare Parts Request for Proposal or through a spare parts order based on the ISS Spare Parts Catalogue.
2.0-2	A Spare Parts Request for Proposal is a document that describes the DND request and includes the following:
2.0-2.0-1	<ul style="list-style-type: none"> ○ The contract number and the spare parts order number assigned by the PA;
2.0-2.0-2	<ul style="list-style-type: none"> ○ The date when the spare parts request is issued; and
2.0-2.0-3	<ul style="list-style-type: none"> ○ The spare parts detailed spreadsheet.
2.0-3	The CA will request the Contractor to submit a proposal for the Spare Parts to be supplied. After receiving a Spare Parts Request for Proposal, the Contractor must:
2.0-3.0-1	<ul style="list-style-type: none"> ○ issue an acknowledgement to the CA within five (5) working days. This acknowledgement may take the form of a fax or e-mail;
2.0-3.0-2	<ul style="list-style-type: none"> ○ issue a proposal no later than 15 working days after receiving the order. The Contractor must submit the proposal including the price in accordance with the contract basis of payment, with accompanying supporting details, to the CA for review. The Contractor must provide a price and delivery proposal for each part.
2.0-4	Response must be provided to the CA by inserting the requested information in the Contractor section of the Spare Parts detailed spreadsheet. The Contractor proposal must include the next reasonable economical quantity break(s) for all Spare Parts items. The proposal must have sufficient details to facilitate approval.
2.0-5	The CA will evaluate and negotiate with the Contractor as necessary, and upon agreement being reached, authorize and place the Spare Parts Order.
2.0-6	The CA can also place Spare Parts Orders using the ISS Spare Parts Catalogue.
2.0-7	The CA may issue a Spare Parts Order Amendment to make changes on a Spare Parts Order. An amendment may involve a change in quantity, price, delivery date or other

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	issues to the Spare Parts Order. The Contractor will be advised of a Spare Parts Order Amendment through the same formal mechanism that is used for Spare Parts Order.
2.0-8	A Spare Parts Order will be considered complete when all items, identified in the Spare Parts Order, including any applicable revisions, have been delivered to, inspected, accepted and paid by DND.

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 3, Annex CA, Appendix 5

APPENDIX 5 TO ANNEX CA TO VOLUME 3

CFTPO ISS POUCH AND MLCS

FOR THE OPTIMIZED WEAPON SYSTEM SUPPORT (OWSS) FOR THE INTEGRATED SOLDIER SYSTEMS (ISS)

17 JANUARY 2013

1. The Integrated Soldier System (ISS) Pouches consist of the items listed below:

	Item Description	NATO Stock Number	Unit of Issue
a	ISS Pouch Set	NSN as specified on contract	SE
b	ISS System Component Pouch		EA
c	ISS GPS Component Pouch		EA
d	ISS Display Component Pouch		EA

2. Package item(s) in a polyethylene (or other transparent film) bag or envelope, made of material not less than one (1) mil thickness. The bags shall be taped or stapled to effect closure and shall be legibly marked (labelled) as follows:

NATO Stock Number (NSN) * - As specified on contract
 Nomenclature ** - As specified on contract
 Quantity / Unit of Issue - As applicable (1 EA OR 1 SE)

For initial distribution Items (b-d) shall be consolidated into a single package → item (a)

For Depot stock Items (b-d) shall be individually packaged

3. A quantity of packages, of the same NSN, shall be packed into a corrugated fibreboard box conforming to Canadian General Standards Board (CGSB) specification CAN/CGSB-43.22-2001. The box size and content quantity shall be uniform for the duration of the contract. Suggestion as follows:

No material handling equipment required – Overall inside dimensions (length, width and depth added) shall not exceed 1.5 metres (59 inches). The maximum weight of the box and contents shall not exceed 18 kilograms (40 pounds).

Material handling equipment required – The box(es) shall be compatible with the requirements of paragraph 8.

4. Closure of the corrugated fibreboard box shall be in accordance with CGSB specification CAN/CGSB-43.22-2001 (Appendix B).
5. On one end of each corrugated fibreboard box, stencilling or labelling, in figures as large as practicable in relation to the space available, shall legibly mark the following information:

NATO Stock Number (NSN) * - As specified on contract
 Nomenclature ** - As specified on contract
 Quantity (per box) / Unit of Issue - As applicable (1 EA OR 1 SE)
 Gross Weight (nearest kg) - As applicable
 Contract Serial Number - As specified on contract

6. On one side of each corrugated fibreboard box, stencilling or labelling, in figures as large as practicable in relation to the space available, shall legibly mark the following information:

Consignee - As specified on contract
 Consignor - Supplier's name or symbol
 Case ___ of ___ cases - As applicable within each shipment

7. The last shipping container of each shipment shall have affixed to the side on which the shipping instructions are contained (paragraph 6), an envelope containing the Packing List, Release Note, etc. This water-resistant envelope shall be prominently marked "Packing List Enclosed" and shall be securely affixed to the outside wall of the container.

8. Shipments shall be palletized in uniform loads (grouped by NSN) and strapped/secured on standard 4-way entry, 48-inch by 40-inch wood or fibreboard non-returnable pallets, to be supplied by the contractor. Total height, including pallet, shall not exceed 47 inches.

* Marking shall be applied using Bar Code Symbolology GS1-128 with AI 7001, including HRI (in accordance with D-LM-008-002/SF-001)

** Bilingual format – English / French

Canadian Forces Transportation Packaging Order

CFTPO-ISS-POUCH

Date 5 May 2011
 Sheet 1 of 2
 Nomenclature As specified on contract
 Based on As specified on contract

Draftsman
H. Fraser

Checker
H. Fraser

Design Engineer
DSCO 5-4-3

Approval Stamp



1. Les pochettes de Système Intégré de Soldat (ISS) se composent des articles énumérés ci-dessous :

	Description de l'article	NNO	Unité de mesure
a	ISS Jeu de pochette	Numéro de nomenclature OTAN – selon le contrat	SE
b	ISS Pochette de composant système		EA
c	ISS Pochette de composant GPS		EA
d	ISS Pochette de composant d'affichage		EA

2. Emballer le(s) article(s) dans un sac ou une enveloppe en polyéthylène (ou une autre pellicule transparente), dont l'épaisseur est d'au moins un (1) mil. Les sacs doivent être scellés à l'aide d'un ruban adhésif ou d'agrafes, et l'information suivante (inscrite sur une étiquette) doit figurer lisiblement sur chacun :

Numéro de nomenclature OTAN (NNO)* - Selon le contrat
Nomenclature ** - Selon le contrat
Quantité (par conteneur) / Unité de mesure - Selon le cas (1 EA ou 1 SE)
La distribution initiale Les articles (b-d) doivent être regroupés dans un seul paquet → l'article (a)
Le stockage à l'entrepôt Les articles (b-d) doivent être emballés individuellement

3. Une quantité de paquets, de la même NNO, doivent être placés dans un conteneur en carton dur ondulé, conformément à la norme CAN/CGSB-43.22-2001 de l'Office des normes générales du Canada (ONGC). La taille du conteneur et la quantité contenue doivent demeurer la même pour la durée du contrat. Voici des suggestions :

Aucun équipement de manutention nécessaire – Les dimensions générales intérieures (somme de la longueur, de la largeur et de la hauteur) ne doivent pas dépasser 1,5 m (59 po). Le poids maximal du conteneur, avec son contenu, ne doit pas dépasser 18 kg (40 lb).

Équipement de manutention nécessaire – Les conteneurs doivent être compatibles aux exigences du paragraphe 8.

4. La fermeture du conteneur en carton dur ondulé doit être conforme à la norme CAN/CGSB-43.22-2001 (appendice B) de l'ONGC.

5. Sur une extrémité de chaque conteneur en carton dur ondulé, l'information suivante doit figurer lisiblement en caractères aussi grands que permis par l'espace disponible (inscrite à l'aide d'un pochoir ou sur une étiquette) :

Numéro de nomenclature OTAN (NNO)* - Selon le contrat
Nomenclature ** - Selon le contrat
Quantité (par conteneur) / Unité de mesure - Selon le cas (1 EA ou 1 SE)
Poids brut (arrondir au kg) - Selon le cas
Numéro de série du contrat - Selon le contrat

6. Sur un côté de chaque conteneur en carton dur ondulé, l'information suivante doit figurer lisiblement en caractères aussi grands que permis par l'espace disponible (inscrite à l'aide d'un pochoir ou sur une étiquette) :

Destinataire - Selon le contrat
Expéditeur - Nom ou marque du fournisseur
Conteneur ___ de ___ - Selon chaque cargaison

7. Le dernier conteneur d'expédition de chaque cargaison, doit porter sur le côté où l'on retrouve les instructions d'envoi (paragraphe 6), une enveloppe contenant le bordereau d'expédition, le bordereau de libération, etc. Cette enveloppe, résistante à l'eau, doit porter clairement les mots «bordereau d'expédition ci-inclus» et doit être bien fixée à la paroi extérieure du conteneur.

8. L'entrepreneur doit fournir des palettes standard de type perdu, en bois ou en carton dur ondulé, accessibles des quatre côtés et mesurant 48 po sur 40 po. Les conteneurs doivent y être disposés uniformément (groupées par NNO) et solidement arrimées. La hauteur totale, y compris la palette, ne doit pas dépasser 47 po.

* Les marques doivent être apposées au moyen de la symbologie code à barres GS1-128, avec le numéro d'identification d'application IA 7001, y compris la traduction en clair TC (conformément à la D-LM-008-002/SF-001)

** Format bilingue – Anglais / Français

Commande d'Emballage pour le Transport – Forces canadiennes

CETFC-ISS-POUCH

Date
5 Mai 2011
Feuille
2 de 2
Nomenclature
Selon le contrat
Basé sur
Selon le contrat

Destinataire
H. Fraser
Vérification
H. Fraser
Ingénieur d'études
DOCA 5-4-3
Sceau d'approbation
18

1. The Integrated Soldier System (ISS) Modular Load Carriage System (MLCS) consists of the items listed below:

	Item Description	NATO Stock Number	Unit of Issue
a	ISS MLCS, Small	NSN as specified on contract	AY
b	ISS MLCS, Medium		AY
c	ISS MLCS, Front, Small		EA
d	ISS MLCS, Front, Medium		EA
e	ISS MLCS, Back		EA

2. Package item(s) in a polyethylene (or other transparent film) bag or envelope, made of material not less than one (1) mil thickness. The bags shall be taped or stapled to effect closure and shall be legibly marked (labelled) as follows:

NATO Stock Number (NSN) * - As specified on contract
 Nomenclature (including size) ** - As specified on contract
 Quantity / Unit of Issue - As applicable (1 EA OR 1 AY)

For initial distribution Items shall be consolidated into a single package based on size → Size small consists of items (c) & (e), size medium consists of items (d) & (e)

For Depot stock Items (c-e) shall be individually packaged

3. A quantity of packages, of the same NSN, shall be packed into a corrugated fibreboard box conforming to Canadian General Standards Board (CGSB) specification CAN/CGSB-43.22-2001. The box size and content quantity shall be uniform for the duration of the contract. Suggestion as follows:

No material handling equipment required – Overall inside dimensions (length, width and depth added) shall not exceed 1.5 metres (59 inches). The maximum weight of the box and contents shall not exceed 18 kilograms (40 pounds).

Material handling equipment required – The box(es) shall be compatible with the requirements of paragraph 8.

4. Closure of the corrugated fibreboard box shall be in accordance with CGSB specification CAN/CGSB-43.22-2001 (Appendix B).

5. On one end of each corrugated fibreboard box, stencilling or labelling, in figures as large as practicable in relation to the space available, shall legibly mark the following information:

NATO Stock Number (NSN) * - As specified on contract
 Nomenclature (including size) ** - As specified on contract
 Quantity (per box) / Unit of Issue - As applicable (1 EA OR 1 AY)
 Gross Weight (nearest kg) - As applicable
 Contract Serial Number - As specified on contract

6. On one side of each corrugated fibreboard box, stencilling or labelling, in figures as large as practicable in relation to the space available, shall legibly mark the following information:


Consignee - As specified on contract
 Consignor - Supplier's name or symbol
 Case ___ of ___ cases - As applicable within each shipment

7. The last shipping container of each shipment shall have affixed to the side on which the shipping instructions are contained (paragraph 6), an envelope containing the Packing List, Release Note, etc. This water-resistant envelope shall be prominently marked "Packing List Enclosed" and shall be securely affixed to the outside wall of the container.

8. Shipments shall be palletized in uniform loads (grouped by NSN) and strapped/secured on standard 4-way entry, 48-inch by 40-inch wood or fibreboard non-returnable pallets, to be supplied by the contractor. Total height, including pallet, shall not exceed 47 inches.

* Marking shall be applied using Bar Code Symbology GS1-128 with AI 7001, including HRI (in accordance with D-LM-008-002/SF-001)

** Bilingual format – English / French

Canadian Forces Transportation Packaging Order		CFTPO-ISS-MLCS		Date	5 May 2011
				Sheet	1 of 2
				Nomenclature	As specified on contract
				Based on	As specified on contract
Draftsman	H. Fraser	Checker	H. Fraser	Design Engineer	DSCO 5-4-3
Approval Stamp					

1. La Veste de Transport de Charge Modulaire Tactique (VTCMT), du Système Intégré de Soldat (ISS), se compose des articles énumérés ci-dessous :

	Description de l'article	NNO	Unité de mesure
a	ISS MLCS, Petit	Numéro de nomenclature OTAN – selon le contrat	AY
b	ISS MLCS, Moyen		AY
c	ISS MLCS, Avant, Petit		EA
d	ISS MLCS, Avant, Moyen		EA
e	ISS MLCS, Arrière		EA

2. Emballer le(s) article(s) dans un sac ou une enveloppe en polyéthylène (ou une autre pellicule transparente), dont l'épaisseur est d'au moins un (1) mil. Les sacs doivent être scellés à l'aide d'un ruban adhésif ou d'agrafes, et l'information suivante (inscrite sur une étiquette) doit figurer lisiblement sur chacun :

Numéro de nomenclature OTAN (NNO)* - Selon le contrat
Nomenclature (comprenant la taille) ** - Selon le contrat
Quantité (par conteneur) / Unité de mesure - Selon le cas (1 EA ou 1 AY)

La distribution initiale Les articles doivent être regroupés dans un seul paquet – basé sur la taille → la taille petite est composé des articles (c) & (e), la taille moyenne est composé des articles (d) & (e)

Le stockage à l'entrepôt Les articles (c-e) doivent être emballés individuellement

3. Une quantité de paquets, de la même NNO, doivent être placés dans un conteneur en carton dur ondulé, conformément à la norme CAN/CGSB-43.22-2001 de l'Office des normes générales du Canada (ONGC). La taille du conteneur et la quantité contenue doivent demeurer la même pour la durée du contrat. Voici des suggestions :

Aucun équipement de manutention nécessaire – Les dimensions générales intérieures (somme de la longueur, de la largeur et de la hauteur) ne doivent pas dépasser 1,5 m (59 po). Le poids maximal du conteneur, avec son contenu, ne doit pas dépasser 18 kg (40 lb).

Équipement de manutention nécessaire – Les conteneurs doivent être compatibles aux exigences du paragraphe 8.

4. La fermeture du conteneur en carton dur ondulé doit être conforme à la norme CAN/CGSB-43.22-2001 (appendice B) de l'ONGC.

5. Sur une extrémité de chaque conteneur en carton dur ondulé, l'information suivante doit figurer lisiblement en caractères aussi grands que permis par l'espace disponible (inscrite à l'aide d'un pochoir ou sur une étiquette) :

Numéro de nomenclature OTAN (NNO)* - Selon le contrat
Nomenclature (comprenant la taille) ** - Selon le contrat
Quantité (par conteneur) / Unité de mesure - Selon le cas (1 EA ou 1 AY)
Poids brut (arrondir au kg) - Selon le cas
Numéro de série du contrat - Selon le contrat

6. Sur un côté de chaque conteneur en carton dur ondulé, l'information suivante doit figurer lisiblement en caractères aussi grands que permis par l'espace disponible (inscrite à l'aide d'un pochoir ou sur une étiquette) :

Destinataire - Selon le contrat
Expéditeur - Nom ou marque du fournisseur
Conteneur ___ de ___ - Selon chaque cargaison

7. Le dernier conteneur d'expédition de chaque cargaison, doit porter sur le côté où l'on retrouve les instructions d'envoi (paragraphe 6), une enveloppe contenant le bordereau d'expédition, le bordereau de libération, etc. Cette enveloppe, résistante à l'eau, doit porter clairement les mots «bordereau d'expédition ci-inclus» et doit être bien fixée à la paroi extérieure du conteneur.

8. L'entrepreneur doit fournir des palettes standard de type perdu, en bois ou en carton dur ondulé, accessibles des quatre côtés et mesurant 48 po sur 40 po. Les conteneurs doivent y être disposés uniformément (groupées par NNO) et solidement arrimées. La hauteur totale, y compris la palette, ne doit pas dépasser 47 po.

* Les marques doivent être apposées au moyen de la symbologie code à barres GS1-128, avec le numéro d'identification d'application IA 7001, y compris la traduction en clair TC (conformément à la D-LM-008-002/SF-001)

** Format bilingue – Anglais / Français

Commande d'Emballage pour le Transport – Forces canadiennes

CETFC-ISS-MLCS

Date	5 Mai 2011
Feuille	2 de 2
Nomenclature	Selon le contrat
Basé sur	Selon le contrat

Dessinatrice H. Fraser	Vérificatrice H. Fraser	Ingénieur d'études DOCA 5-4-3	Sceau d'approbation 
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RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 3, Annex CB

ANNEX CB TO VOLUME 3

PERFORMANCE BASED REQUIREMENTS FOR THE OPTIMIZED WEAPON SYSTEM SUPPORT (OWSS) OF THE INTEGRATED SOLDIER SYSTEM (ISS)

18 JANUARY 2013

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 3, Annex CB

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OWSS Program Performance Evaluation

1. General.

1.1 An important component of the OWSS is to establish and maintain a Program Performance Management System. This will contribute to the overall effectiveness of the OWSS contract by ensuring a common understanding of the expected level of performance, an agreed method of measurement and agreement on the results.

2. Quarterly Performance Monitoring

2.1. Under this Program, the Contractor will initiate the Performance Monitoring process by providing a self-assessment of his Performance of Work on a quarterly basis against the agreed Key Performance Indicators (KPIs).

2.2 The process consists of both parties, Canada and the Contractor, conducting their respective evaluations of the Contractor's performance which can then be compared. Found differences will require resolution, leading to an improved understanding of the performance requirements and expectations. This will also provide an opportunity to note areas that require improvement or amendment/adjustment of resource allocations. The standards and thresholds supporting this assessment can be found in Appendix 1 to this Annex.

3. Annual Program Performance Evaluation Review

3.1 The Crown will prepare an Annual Performance Evaluation Review of the overall OWSS Program Performance which will be based primarily on the quarterly performance summaries. The Annual Performance Evaluation Review will be included as an Agenda Item at the PRM following the end of the reporting period. The annual reporting period is defined as a period from the OWSS Contract Start Date anniversary to the next Contract Start Date anniversary minus one day..

3.2. The KPIs and rating scale against which the Contractor's Annual performance will be evaluated is provided in Appendix 1, table 1, to this Annex.

4. Dispute Resolution

4.1 If for any reason the Contractor and the TA cannot arrive at an agreed quarterly assessment results, the CA will act as the "tie breaker" in the dispute.

5. Continuous Improvement Program

5.1. As stated, a key element to Performance Monitoring is to identify areas that require improvement or could benefit from a change in procedure or reallocation of resources. This Annual Performance Evaluation Review should offer an opportunity to propose changes and develop new Performance Indicators. Part two (2) of the assessment sheets provides an area where suggested changes can be proposed.

6. Amending the OWSS Program Performance Evaluation Survey

6.1 As the Contractor and the Crown work together to conduct these Program Performance Evaluations, it may become necessary from time to time to adjust, add or delete some of the KPIs and/or rating scales to maintain the added value of the whole process and more accurately manage expectations. In these instances, and as mutually agreed, the TA may make changes to the Program Performance Evaluations Survey by modifying, adding and/or deleting certain KPIs and their related rating scale(s).

RFP - N° de la DP W8476-112965/B	Amendement No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 3 Annex CB Appendix 1

Appendix 1 - OWSS Program Performance Evaluation

1. General

1.1 Purpose. This appendix describes the process, evaluation standards, thresholds and ratings as well as the list of KPIs that make up the OWSS Program Performance Evaluation Survey.

2. Process

2.1 Quarterly Program Performance Evaluations. Data will be collected from the OWSS Program Performance Evaluation Survey at attachment 1, which will be completed by both Canada and the Contractor on a quarterly basis.

2.1.1 Canada's action. Canada will provide its consolidated survey response to the Contractor no later than 10 working days prior to each quarterly PRM. Canada will provide an explanation for any Survey activities scored as "No".

2.1.2 Contractor's action. The purpose in having the Contractor fill out the Survey is to readily identify any performance gaps by directly comparing Canada's performance evaluation perspective with the Contractor's. The Contractor will accept Canada's quarterly survey results and identify any differences in performance expectations. The objective is for both parties to arrive at the same quarterly assessment of the Contractor's Program Performance.

2.1.3 Reporting. The Contractor will formally complete the Program Performance Evaluation Survey at Attachment 1 and will present it to the Crown no later than 5 working days prior to each quarterly PRM. . The results of the quarterly survey will be reviewed during the PRM.

2.1.3.1 For spare parts, delivery when planned is CF 1280 sign-off by QAR.

2.1.3.2 For R&O items, return of components in a timely fashion is as defined in Para 4.2.3.0-15 of Annex CA.

2.1.3.3 Turn-around-Time for R&O will be 45 working days (to be confirmed initially from the Contractor with the winning proposal).

2.2 Annual Performance Evaluation Review. The Contractor's overall performance will be rated at the Annual Performance Review Meeting in accordance with Para 4.1.2.0-8 of Annex CA using the Performance Standard detailed in section 3 below.

3 Evaluation Standards and Ratings.

- 3.1 Quarterly. The overall Quarterly Program Performance Evaluation Survey will generate a score that is made up from the aggregate of the individual Performance Indicators in Attachment 1. The Overall Quarterly Program Performance Evaluation Rating Q_{PR} is defined by the following equation:

$$Q_{PR} (\%) = \frac{\text{Quarterly Achieved Score}}{\text{Quarterly Maximum Score}} \times 100 = \frac{\sum_{n=1}^{24} S_{An}}{\sum_{n=1}^{24} S_{Y1n}} \times 100$$

Where Q_{PR} = quarterly performance rating
 S_{An} = achieved score for activity n
 S_{Y1n} = score for meeting standard for activity n

Note: If activity 'n' was not required, then $S_{An} = S_{Y1n} = 0$.

- 3.2 Annual. The overall Annual Program Performance Evaluation Rating is made up from the average of the Quarterly Program Performance Evaluation Ratings

- 3.3 The following standards form the basis against which the Contractor's Annual Performance Assessment will be evaluated:

3.3.1 Below Performance Standard. Performance not meeting the terms of the service delivery levels agreed upon in the contract.

3.3.2 Meets Performance Standard (Y1). Performance in accordance with the terms of the service delivery levels agreed upon in the contract

3.3.3 Exceeds Performance Standard (Y2). Performance surpassing the terms of the service delivery levels agreed upon in the contract.

- 3.4 The following thresholds will be used to rate the Contractor's Annual Performance:

3.4.1 The Contractor's Annual Program Performance Evaluation rating will be considered as "Below Standard" if the Contractor's annual average of its Quarterly Performance Rating (%) is < 90%;

- 3.4.2 The Contractor's Annual Program Performance Evaluation rating will be considered as "Meet Standard" if the Contractor's annual average of its Quarterly Performance Rating (%) is $\geq 90\%$ but $\leq 110\%$; and
- 3.4.3 The Contractor's Annual Program Performance Evaluation rating will be considered as "Exceed Standard" if the Contractor's annual average of its Quarterly Performance Rating (%) is greater than 110%.

Attachment 1 - Quarterly Program Performance Evaluation Survey

The purpose of this Survey is to assess the Contractor's Performance in overall Program Implementation and Execution activities.

Part 1 – Quarterly Program Performance Evaluation Survey						
KPIs	Yes	No	No Activity	Rating Scale	Achieved Score	Remarks
Program Management						
1. Is the Contractor managing the work IAW the PMP and its subordinate plans?				Yes (Y1) = 4 pts No = 0 pt		
2. Is a Process Improvement Program established and maintained?				Yes (Y1) = 3 pts No = 0 pt		
3. Are CDRL items prepared IAW DIDs prescribed in Annex CC?				Yes (Y1) = 4 pts No = 0 pt		
4. Did the Contractor revise CDRL items to address DND comments and resubmit within 15 working days?				Yes: (Y1) 10 wds < t ≤ 15 wds = 3 pts (Y2) t ≤ 10 wds = 4 pts No: t > 15 wds = 0 pt		
5. Are the action items from the Action Items Tracking Issues Register closed as planned?				Yes: (Y1) on schedule = 2 pts (Y2) ahead of schedule = 3 pts No = 0 pt		
6. Is the Contractor managing meeting IAW SOW para 4.1.1.0-12, 13, 14, 15 and 16?				Yes (Y1) = 2 pts No = 0 pt		
7. Are Significant Incident Reports being submitted promptly?				Yes (Y1) = 4 pts No = 0 pt		
8. Are authorized tasks completed in their allotted time?				Yes: (Y1) on schedule = 3 pts (Y2) ahead of schedule = 4 pts No = 0 pts		
9. Do tasks proposals include all the information required?				Yes (Y1) = 4 pts No = 0 pt		
10. Was the Contractor response time to Problem reports IAW the priority level assigned to the problem?				Yes (P1): (Y1) 12 hrs < t ≤ 24 hrs = 4 pts (Y2) t ≤ 12 hrs = 5 pts No: t > 24 hrs = 0 pt		
				Yes (P2):		

Part 1 – Quarterly Program Performance Evaluation Survey

KPIs	Yes	No	No Activity	Rating Scale	Achieved Score	Remarks
				(Y1) 24 hrs > t ≤ 48 hrs = 4 pts (Y2) t ≤ 24 hrs = 5 pts No: t > 48 hrs = 0 pt		
				Yes (P3): (Y1) 5 wds < t ≤ 10 wds = 4 pts (Y2) t ≤ 5 wds = 5 pts No : t > 10 wds = 0 pt		
				Yes (P4): (Y1) 15 wds < t ≤ 20 wds = 4 pts (Y2) t ≤ 15 wds = 5 pts No : t > 20 wds = 0 pt		
11. Does the Contractor maintain a status register for authorised tasks for access by the Crown via EIE?				Yes (Y1) = 2 pts No = 0 pt		
12. Are ECP submitted complete with impact analysis sufficiently detailed for the Crown to make a decision?				Yes (Y1) = 4 pts No = 0 pt		
13. Does the Contractor maintain an effective OM system?				Yes (Y1) = 2 pts No = 0 pt		
Supply Support Management						
14. Does the Contractor manage and report on R&O services IAW 4.2.3 of the SOW?				Yes (Y1) = 4 pts No = 0 pt		
15. Did the Contractor submit Spare Parts proposals within 15 working days of order request?				Yes: (Y1) 10 wds < t ≤ 15 wds = 3 pts (Y2) t ≤ 10 wds = 4 pts No: t > 15 wds = 0 pt		
16. Did the Contractor deliver spare parts IAW the spare parts orders?				Yes: (Y1) on schedule = 3 pts (Y2) ahead of schedule = 4 pts No = 0 pt		
17. Were R&O candidates returned within their agreed TAT?				Yes: (Y1) 45 wds < t ≤ 65 wds = 3 pts (Y2) t ≤ 45 wds = 4 pts No:		

Part 1 – Quarterly Program Performance Evaluation Survey

KPIs	Yes	No	No Activity	Rating Scale	Achieved Score	Remarks
				t > 65 wds = 0 pt		
Technical Support Management						
18. Were Disposal services provided iaw A-LM-007-014/AG-001 and A-LM-184-001/JS-001?				Yes (Y1) = 3 pts No = 0 pt		
19. Were the candidates for reconstitution TAT returned within the agreed TAT?				Yes: (Y1) 45 wds < t ≤ 65 wds = 4 pts (Y2) t ≤ 45 wds = 5 pts No: t > 65 wds = 0 pt		
20. Were FSR resources made available as and when required to meet the priority assigned to the TA requirements?				Yes: (Y1) 10 wds < t ≤ 20 wds = 4 pts (Y2) t ≤ 10 wds = 5 pts No : t > 20 wds = 0 pt		
21. Was the Contractor responsive in providing services under up-tempo conditions?				Yes: (Y1) on schedule = 4 pts (Y2) ahead of schedule = 5 pts No = 0 pt		
Engineering Support Management						
22. Are Eng Support services responsive to TA requirements?				Yes (Y1) = 3 pts No = 0 pt		
23. Are updated and accurate technical publications and data available via EIE?				Yes (Y1) = 3 pts No = 0 pt		
24. How quickly did the Contractor respond to TA technical queries?				Yes (P2): (Y1) 24 hrs < t ≤ 48 hrs = 3 pts (Y2) t ≤ 24 hrs = 4 pts No: t > 48 hrs = 0 pt		
Quarterly Survey Score						
Overall Monthly Performance Rating (%)				Q _{PR} (%)		

Part 2 - Improvements			
	Program Area	Issue and Proposed Improvement	Impact Analysis
1	Program Management		
2	Supply Support Management		
3	Technical Support Management		
4	Engineering Support Management		

POINTS: Points are awarded based on answers in the YES column only. Partial scores are not encouraged.

YES

- Program performance is consistent
- Contractor is responsive to Canada's priorities, issues and requirements
- Areas requiring improvement are minor or are more than offset by effective performance in other areas.
- There are no recurring problems
- Contractor initiates effective corrective action in a timely fashion whenever needed.

NO

- Program performance is inconsistent
- Contractor is non-responsive to Canada's priorities, issues and requirements
- Quality in many areas requires attention
- Corrective action is not taken in a timely fashion when required or is ineffective

NO ACTIVITY

- If an activity was not required during the month, Activity score not counted.
- If a required activity did not occur and no performance exception was authorized score as NO.

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Volume 3, Annex CC

ANNEX CC TO VOLUME 3

CONTRACT DATA REQUIREMENTS LIST (CDRL) DATA ITEMS DESCRIPTION (DID)

FOR THE

OPTIMIZED WEAPON SYSTEM SUPPORT (OWSS)

OF THE

INTEGRATED SOLDIER SYSTEM (ISS)

18 JANUARY 2013

RFP - N° de la DP
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1	1 SCOPE		
1.0-1	This Annex specifies the Deliverable Data required under the OWSS Statement of Work (SOW) and the delivery of the data items.		
1.0-2	The Contract Data Requirements List (CDRL) specifies the Deliverable Data required. The Data Item Descriptions (DIDs) define data content, preparation instructions, format and intended use of the data.		
1.0-3	CDRLs are included at Appendix 1 and DIDs are included at Appendix 2 to this Annex.		
1.0-4	This Annex provides information on the CDRL layout in section 2 and DID layout in section 3.		
2	2 CONTRACT DATA REQUIREMENTS LIST (CDRL)		
2.1	2.1 Precedence of CDRL		
2.1.0-1	The requirements stated in Blocks 8 through 15 of the CDRL take precedence over any such requirements that may have been identified in the DIDs. Completion guidance for the fields in the CDRL form is shown below.		
2.2	2.2 CDRL Layout		
2.2.0-1	The following describes the layout and interpretation of the CDRL blocks.		
2.2.0-2	Block	Title	Completion Guidance
	A	Annex Description	Enter the annex (and appendix, if applicable) designation with respect to the RFP/Contract
	B	Contract/ RFP Number	Enter the RFP number or other appropriate designator. Upon contract award, amend to read the contract number
	C	SOW Identifier	Enter the SOW identifier if the RFP has several SOWs, otherwise leave blank
	D	Data Category	Enter the category of the data for which the CDRL is being prepared.
	E	Contractor	On contract award, enter the contractor's name and the contractor's NATO Supply Code for Manufacturing
	1	Item Number	Enter a sequential AA-Xyy formatted number to uniquely identify the individual CDRL. (See Para 2.2.1)

	2	Title	Enter the title of the DID being referred to in this CDRL
	3	Subtitle	If the title requires further identification, enter a subtitle
	4	Data Item Number	Enter the DID number and title to which this CDRL refers
	5	Reference	Enter the applicable document down to the specific paragraph number which will assist in identifying the work effort associated with this item
	6	Technical Office	Enter the Technical Authority responsible for defining the requirement and ensuring the adequacy of the delivery data or item
	7	Inspection	Indicate the requirement for Inspection and Acceptance of the data or item using the following code: · SS - Source, Source · DD - Destination, Destination · SD - Source, Destination · DS - Destination, Source The code refers to the location(s) where the Inspection and Acceptance are performed. Enter the appropriate code if applicable. If not, enter N/A.
	8	Approval Code	Enter the Approval code required. (See Para 2.2.2)
	9	Review Period	Indicate timeframe in which DND reviews will take place (i.e. 5 Days, 2 weeks)
	10	Frequency	Indicate the frequency of delivery of the data. (See Para 2.2.3)
	11	As of Date	If the data or item is submitted only once insert the date that it is due. If constrained by a specific event or milestone, enter the constraint. If not applicable, leave blank
	12	Date of Submission	If multiple submissions are required, enter the date of the initial submission. If constrained by a specific event or milestone, enter the constraint. Leave blank for data or items submitted/delivered only once
	13	Date of Subsequent Submission	If the data or items are submitted more than once, enter the date(s) of the subsequent submission(s). If constrained by a specific event or milestone, enter the constraint (e.g. 15 days after the meeting)
	14	Remarks	Provide additional or clarifying information.

	15	Distribution, Addressees, and Media	For data deliverables, enter the addressees in the Addressee Column. Mark an X in the Draft and Final Columns for each copy required by an addressee. Enter the number of copies and media type in the Media Column, Leave blank for equipment deliverable and insert the distribution in the Block 14 Remarks. (See Para 2.2.4)
	16	Prepared By	The Technical Authority who created this CDRL.
	17	Preparation Date	The date on which the CDRL was prepared.
	18	Approved By	The Canada Approval Authority who authorized the CDRL.
	19	Approval Date	The date on which the CDRL was approved.
2.2.1	2.2.1 Block 1		
2.2.1.0-1	Item Number denotes the sequential number assigned to the CDRL item. Some CDRL numbers may be "Reserved", "Deleted" or "Not allocated". The following identification numbering convention used, is:		
2.2.1.0-1.0-1	AA-Xyy		
2.2.1.0-1.0-2	Where:		
2.2.1.0-1.0-2.0-1	AA would be the general area of interest:		
2.2.1.0-1.0-2.0-1.0-1	PM - Project Management		
2.2.1.0-1.0-2.0-1.0-2	SE - System Engineering		
2.2.1.0-1.0-2.0-1.0-3	CM - Configuration Management		
2.2.1.0-1.0-2.0-1.0-4	LS - Logistic Support		
2.2.1.0-1.0-2.0-1.0-5	DM - Data Management		
2.2.1.0-1.0-2.0-1.0-6	QA - Quality Assurance		
2.2.1.0-1.0-2.0-2	X would be the Contract reference:		
2.2.1.0-1.0-2.0-2.0-1	0 - Acquisition - Definition		
2.2.1.0-1.0-2.0-2.0-2	1 - Optimized Weapons System Support (OWSS)		
2.2.1.0-1.0-2.0-3	The yy is a two digit sequential number following the X prefix.		
2.2.2	2.2.2 Block 8		

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2.2.2.0-1	Approval Code denotes whether the data is to be submitted for approval, review or information. The following codes are used:
2.2.2.0-1.0-1	A Approval
2.2.2.0-1.0-1.0-1	The data listed as being deliverable must be submitted for Contract Authority approval. The Contractor must obtain this approval before using the data.
2.2.2.0-1.0-1.0-2	The Contractor must amend previously approved deliverable data within 10 working days from an agreement to amend the deliverable, and must obtain further Contract Authority approval before use.
2.2.2.0-1.0-2	R Review
2.2.2.0-1.0-2.0-1	The deliverable will be reviewed by Canada for acceptability of format, clarity and completeness. Once accepted, the data must be considered for information only.
2.2.2.0-1.0-3	I Information
2.2.2.0-1.0-4	The data is for information purposes only.
2.2.3	2.2.3 Block 10
2.2.3.0-1	Frequency denotes the frequency of delivery of the data (to be read in conjunction with Block 13). Frequencies may be expressed using the following codes:
2.2.3.0-1.0-1	ANNLY Annually
2.2.3.0-1.0-2	ASREQ As required
2.2.3.0-1.0-3	MNTHY Monthly
2.2.3.0-1.0-4	ONE/R One time plus revisions
2.2.4	2.2.4 Block 15
2.2.4.0-1	Distribution Addressees, Media and Quantity.
2.2.4.0-2	The following illustrate the designations that may be used for distribution addressees:
2.2.4.0-2.0-1	CA Contracting Authority
2.2.4.0-2.0-2	TA Technical Authority
2.2.4.0-2.0-3	OPI Office of Primary Interest

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2.2.4.0-3	For Media and the number of copies in which the data item is to be delivered, the following codes may be used:		
2.2.4.0-3.0-1	x HC	Hard Copy	
2.2.4.0-3.0-2	x SC	Soft Copy	
2.2.4.0-3.0-3	EIE	Data must be accessible through Electronic Information Environment (EIE) for all SC requirements with delivery notification to all addresses.	
2.2.4.0-3.0-4	The "x" represents the number of copies to be delivered.		
3	3 DATA ITEM DESCRIPTION (DID)		
3.1	3.1 DID Layout		
3.1.0-1	The Data Item Description is an information sheet that is used to define data deliverables that are called up in a SOW or specification (attached to the RFP) and that will ultimately be included in the resultant contract. Completion guidance for the fields in the form is shown below.		
3.1.0-2	Block	Title	Completion Guidance
	1	Title	A short descriptive name that identifies its nature and distinguishes it from any other DID
	2	Identification Number	A number assigned by the originator that uniquely identifies the DID for the originator’s use. For DID numbering convention see Para 3.2
	3	Description/ Purpose	A concise description (abstract) of the data content requirements or the item for product deliverables that identifies the purpose for which the DID is required
	4	Approval Date	Date that the DID was approved by the originator
	5	Office of Primary Interest	The directorate or position responsible for the DID
	6	GIDEP Applicable	Insert an “X” if GIDEP applicable, otherwise leave blank
	7	Application/ Interrelationship	Refers to applicable standards called up in the DID.
	8	Originator	Position title of the originator of the DID
	9	Applicable Forms	Identify any forms needed to prepare the data (i.e. Provisional Parts

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			Breakdown, Material Safety Data Sheet)
	10	Preparation Instructions	Describe the data content and format that the contractor must satisfy. If used for a product deliverable, describe the product
3.2	3.2 Block 2		
3.2.0-1	Identification Number		
3.2.0-2	Denotes the sequential alphanumeric number assigned to the DID. Some DI Numbers may be "reserved", "deleted" or not "allocated". The following identification numbering convention used is:		
3.2.0-2.0-1	AA-Xyy		
3.2.0-2.0-2	Where:		
3.2.0-2.0-2.0-1	AA would be the general area of interest:		
3.2.0-2.0-2.0-1.0-1	PM - Project Management		
3.2.0-2.0-2.0-1.0-2	SE - System Engineering		
3.2.0-2.0-2.0-1.0-3	CM - Configuration Management		
3.2.0-2.0-2.0-1.0-4	LS - Logistic Support		
3.2.0-2.0-2.0-1.0-5	DM - Data Management		
3.2.0-2.0-2.0-1.0-6	QA - Quality Assurance		
3.2.0-2.0-2.0-2	X would be the Contract reference:		
3.2.0-2.0-2.0-2.0-1	0 - Acquisition - Definition		
3.2.0-2.0-2.0-2.0-2	1 - Optimized Weapons System Support (OWSS)		
3.2.0-2.0-2.0-3	The yy is a two digit sequential number following the X prefix.		

APPENDIX 1 TO
ANNEX CC TO VOLUME 3

CONTRACT DATA REQUIREMENTS LIST (CDRL)

FOR THE

OPTIMIZED WEAPON SYSTEM SUPPORT (OWSS)

OF THE

INTEGRATED SOLDIER SYSTEM (ISS)

18 JANUARY 2013

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1 CDRL PM-101 Program Management Plan (PMP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category PM		E. Contractor																							
1. Item Number PM-101		2. Title Program Management Plan (PMP)		3. Subtitle																							
4. Data Item Number DID PM-101 Program Management Plan (PMP)		5. Reference Ann. CA To Vol. 3 (para. 4.1.1.0-3)		6. Technical Office PMO ISSP PCCO																							
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The draft PMP must be delivered to the TA 10 WD after the OWSS kick-off meeting. Block 13. The Contractor must deliver the final version of the PMP no later than 2 months after Contract start date. Further updates (to reflect changes to the project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																							

2 CDRL PM-102 Quality Assurance Plan (QAP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category PM		E. Contractor																							
1. Item Number PM-102		2. Title Quality Assurance Plan (QAP)		3. Subtitle																							
4. Data Item Number DID PM-102 Quality Assurance Plan (QAP)		5. Reference Ann. CA To Vol. 3 (para. 4.1.1.0-8)		6. Technical Office PMO ISSP PCCO																							
7. Inspection DD		8. Approval Code R		9. Review Period 10 WD																							
				10. Frequency ONE/R																							
11. As of Date		12. Date of First Submission See block 14		13. Date of Subsequent Submission See block 14																							
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DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

RFP - N° de la DP
W8476-112965/B

Amendment No. - N° de la modif.

Buyer ID - Id de l'acheteur
004RA

Client Reference No. - N° de réf. du client
W8476-112965

File No. - N° du dossier
004RA W8476-112965

Volume 3, Annex CC, Appendix 1

3 CDRL PM-103 Significant Incident Report

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category PM		E. Contractor																							
1. Item Number PM-103		2. Title Significant Incident Report		3. Subtitle																							
4. Data Item Number DID PM-103 Significant Incident Report		5. Reference Ann. CA To Vol. 3 (para. 4.1.1.0-10)		6. Technical Office PMO ISSP PCCO																							
7. Inspection	8. Approval Code I	9. Review Period 1 WD		10. Frequency ASREQ																							
11. As of Date		12. Date of First Submission		13. Date of Subsequent Submission																							
14. Remarks		15. Distribution																									
		<table border="1"><thead><tr><th rowspan="2">Addressee</th><th colspan="3">Copies</th></tr><tr><th>Draft</th><th>Final</th><th>Media</th></tr></thead><tbody><tr><td>DND/TA</td><td></td><td></td><td></td></tr><tr><td>DND/TA</td><td></td><td>x</td><td>1 SC 1 HC</td></tr><tr><td>Contracting Authority</td><td></td><td></td><td></td></tr><tr><td>Contracting Authority</td><td></td><td>x</td><td>1 SC 1 HC</td></tr></tbody></table>			Addressee	Copies			Draft	Final	Media	DND/TA				DND/TA		x	1 SC 1 HC	Contracting Authority				Contracting Authority		x	1 SC 1 HC
		Addressee	Copies																								
			Draft	Final	Media																						
		DND/TA																									
DND/TA		x	1 SC 1 HC																								
Contracting Authority																											
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

4 CDRL PM-104 Monthly Services Status Report

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category PM		E. Contractor																							
1. Item Number PM-104		2. Title Monthly Services Status Report		3. Subtitle																							
4. Data Item Number DID PM-104 Monthly Services Status Report		5. Reference Ann. CA To Vol. 3 (para. 4.1.1.0-11) Ann. CA To Vol. 3 (para. 4.2.3.0-17.0-1)		6. Technical Office PMO ISSP PCCO																							
7. Inspection DD		8. Approval Code R		9. Review Period 5 WDs																							
				10. Frequency MNTY																							
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																							
14. Remarks Block 12. The first Monthly Services Status Report must be submitted at the OWSS kick-off meeting and must cover all progress since contract award. Block 13. The Monthly Services Status Report must be delivered no later than 5 WD after the end of each calendar month following the OWSS kick off meeting. All Monthly Services Status Reports must cover the period from the last report up to the end of the month being reported.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA				DND/TA		x	1 SC 1 HC	Contracting Authority				Contracting Authority		x	1 SC 1 HC
		Addressee	Copies																								
			Draft	Final	Media																						
		DND/TA																									
DND/TA		x	1 SC 1 HC																								
Contracting Authority																											
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

5 CDRL PM-105 Meeting Agendas

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																									
C. SOW Identifier ISS OWSS		D. Data Category PM		E. Contractor																								
1. Item Number PM-105		2. Title Meeting Agendas		3. Subtitle																								
4. Data Item Number DID PM-105 Meeting Agenda		5. Reference Ann. CA To Vol. 3 (para. 4.1.1.0-12.0-7) Ann. CA To Vol. 3 (para. 4.4.1.0-11)		6. Technical Office PMO ISSP PCCO																								
7. Inspection DD		8. Approval Code A		9. Review Period 2 WD																								
10. Frequency ASREQ																												
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The Meeting Agenda must be submitted for review no later than 5 WD prior to each meeting. Block 13. Revised Meeting Agenda must be submitted for concurrence no later than 1 WD after receipt of Canada's comments.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>				Addressee	Copies			Draft	Final	Media	DND/TA				DND/TA		x	1 SC	Contracting Authority				Contracting Authority		x	1 SC 1 HC
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	Draft	Final	Media																									
DND/TA																												
DND/TA		x	1 SC																									
Contracting Authority																												
Contracting Authority		x	1 SC 1 HC																									
16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																								
19. Approval Date June 2011																												

6 CDRL PM-106 Meeting Minutes

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																									
C. SOW Identifier ISS OWSS		D. Data Category PM		E. Contractor																								
1. Item Number PM-106		2. Title Meeting Minutes		3. Subtitle																								
4. Data Item Number DID PM-106 Meeting Minutes		5. Reference Ann. CA To Vol. 3 (para. 4.1.1.0-12.0-8) Ann. CA To Vol. 3 (para. 4.4.1.0-12)		6. Technical Office PMO ISSP PCCO																								
7. Inspection DD		8. Approval Code A		9. Review Period See Block 14																								
10. Frequency ASREQ																												
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission																								
14. Remarks Block 9 and 12. Minutes of the meetings must be completed and signed-off by the Contractor and the TA by the end of the meeting.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>				Addressee	Copies			Draft	Final	Media	DND/TA				DND/TA		x	1 SC 1 HC	Contracting Authority				Contracting Authority		x	1 SC 1 HC
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	Draft	Final	Media																									
DND/TA																												
DND/TA		x	1 SC 1 HC																									
Contracting Authority																												
Contracting Authority		x	1 SC 1 HC																									
16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																								
19. Approval Date June 2011																												

7 CDRL PM-107 Issue-Action Item Log

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																									
C. SOW Identifier ISS OWSS		D. Data Category PM		E. Contractor																								
1. Item Number PM-107		2. Title Issue-Action Item Log		3. Subtitle																								
4. Data Item Number DID PM-107 Issue-Action Item Log (IAIL)		5. Reference Ann. CA To Vol. 3 (para. 4.1.1.0-12.0-9) Ann. CA To Vol. 3 (para. 4.4.1.0-13)		6. Technical Office PMO ISSP PCCO																								
7. Inspection DD		8. Approval Code A		9. Review Period See Block 14																								
10. Frequency ASREQ																												
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 9 and 12. An initial Issue-Action Item Log, with issues and actions identified to-date, must be delivered to the TA, 5 WD after the OWSS kick-off meeting. TA comments on the initial Issue-Action Log will be provided within 5 WD. Block 13. The Contractor must update the Issue-Action Item Log based on the Issues-Actions resulting from meetings, reviews, working groups, technical interchange meetings, and correspondence between Canada and the Contractor. Updates to the Issue-Action Item Log will be done as mutually agreed between Canada and the Contractor.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC</td> </tr> </tbody> </table>				Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC
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DND/TA	x		1 SC																									
DND/TA		x	1 SC																									
Contracting Authority	x		1 SC																									
Contracting Authority		x	1 SC																									
16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																								
19. Approval Date June 2011																												

8 CDRL PM-108 Intellectual Property (IP) Lists

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category PM		E. Contractor																							
1. Item Number PM-108		2. Title Intellectual Property (IP) Lists		3. Subtitle																							
4. Data Item Number DID PM-108 Intellectual Property (IP) Lists		5. Reference Ann. CA To Vol. 3 (para. 4.1.6.0-1)		6. Technical Office PMO ISSP PCCO																							
7. Inspection DD		8. Approval Code R		9. Review Period 10 WD																							
				10. Frequency ANNLY																							
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																							
14. Remarks Block 12. The initial Intellectual Property Report must be delivered to the TA 10 WD after the OWSS kick-off meeting. TA comments on the initial submission will be provided within 10 WD. Block 13. The Contractor must deliver the final version of the Intellectual Property Report no later than 2 months after Contract start date. The annual updated Intellectual Property Report must be delivered no later than 10 WD after the end of each year following the OWSS kick-off meeting.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
		Addressee	Copies																								
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DND/TA	x		1 SC																								
DND/TA		x	1 SC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

9 CDRL PM-109 Environmental, Health and Safety Assessment (EHSA)

CONTRACT DATA REQUIREMENTS LIST								
A. Annex Description Annex CC OWSS CDRLs				B. Contract / RFP Number Wxxxx-09ISSP/002/RA				
C. SOW Identifier ISS OWSS		D. Data Category PM		E. Contractor				
1. Item Number PM-109		2. Title Environmental, Health and Safety Assessment (EHSA)		3. Subtitle				
4. Data Item Number DID PM-109 Environmental, Health and Safety Assessment (EHSA)		5. Reference Ann. CA To Vol. 3 (para. 4.1.11.9.0-1)		6. Technical Office PMO ISSP PCCO				
7. Inspection DD		8. Approval Code R	9. Review Period 15 WD		10. Frequency ASREQ			
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission				
14. Remarks Block 12. The draft EHSA must be submitted for review when and if there are any changes from the System Qualification Phase EHSA. Updates must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.				15. Distribution				
				Addressee	Copies			
					Draft	Final	Media	
				DND/TA	x		1 SC	
				DND/TA		x	1 SC	
				Contracting Authority	x		1 SC	
				Contracting Authority		x	1 SC 1 HC	
16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP		19. Approval Date June 2011		

10 CDRL PM-110 Government Properties Report

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category PM		E. Contractor																							
1. Item Number PM-110		2. Title Government Properties Report		3. Subtitle																							
4. Data Item Number DID PM-110 Government Property Report		5. Reference Ann. CA To Vol. 3 (para. 4.1.12.0-2)		6. Technical Office PMO ISSP PCCO																							
7. Inspection DD		8. Approval Code A		9. Review Period 10 WD																							
				10. Frequency ANNLY																							
11. As of Date		12. Date of First Submission See Block 14.		13. Date of Subsequent Submission See Block 14																							
14. Remarks <p>Block 12. The initial Government Property Report must be delivered to the TA 10 WD after the OWSS kick-off meeting. TA comments on the initial submission will be provided within 10 WD.</p> <p>Block 13. The Contractor must deliver the final version of the Government Property Report no later than 2 months after Contract start date.</p> <p>The annual updated Government Property Report must be delivered no later than 10 WD after the end of each year following the OWSS kick-off meeting.</p>		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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			Draft	Final	Media																						
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		DND/TA		x	1 SC 1 HC																						
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

11 CDRL PM-111 Annual R&O Performance Report

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category PM		E. Contractor																							
1. Item Number PM-111		2. Title Annual R&O Performance Report		3. Subtitle																							
4. Data Item Number DID PM-111 Annual R&O Performance Report		5. Reference Ann. CA To Vol. 3 (para. 4.2.3.0-17.0-2)		6. Technical Office PMO ISSP ILSM																							
7. Inspection	8. Approval Code A	9. Review Period 15 WD	10. Frequency ANNLY																								
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The initial submission must be delivered to the TA no later than two months after Contract start date. TA comments on the initial submission will be provided within 15 WD. The Contractor must address TA comments in the subsequent annual reports. Block 13. The annual updated R&O Performance Report must be delivered no later that 10 WD after the end of each year following the OWSS kick-off meeting.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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		DND/TA	x		1 SC																						
DND/TA		x	1 SC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 3, Annex CC, Appendix 1

12 CDRL PM-112 In-Service LSA Proposal

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category PM		E. Contractor																							
1. Item Number PM-112		2. Title In-Service LSA Proposal		3. Subtitle																							
4. Data Item Number DID PM-112 In-Service LSA Proposal		5. Reference Ann. CA To Vol. 3 (para. 4.4.4.0-4)		6. Technical Office PMO ISSP ILSM																							
7. Inspection		8. Approval Code A		9. Review Period 15 WD																							
				10. Frequency See Block 14																							
11. As of Date		12. Date of First Submission In accordance with the authorised task		13. Date of Subsequent Submission 10 WD after receiving TA comments.																							
14. Remarks Block 10. This is a task based activity.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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DND/TA		x	1 SC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

13 CDRL SE-101 System Engineering Management Plan (SEMP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category SE		E. Contractor																							
1. Item Number SE-101		2. Title System Engineering Management Plan (SEMP)		3. Subtitle																							
4. Data Item Number DID SE-101 System Engineering Management Plan (SEMP)		5. Reference Ann. CA To Vol. 3 (para. 4.4.1.0-2)		6. Technical Office PMO ISSP Chief Engineer																							
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The revised SEMP must be delivered to DND 10 WD after the OWSS kick-off meeting. Block 13. The Contractor must deliver the final version of the SEMP no later than 2 months after Contract start date. Further updates (to reflect changes to the project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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			Draft	Final	Media																						
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Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP Chief Engineer		17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																							

14 CDRL LS-101 Supplementary Provisioning Technical Data (SPTD)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category LS		E. Contractor																							
1. Item Number LS-101		2. Title Supplementary Provisioning Technical Data (SPTD)		3. Subtitle																							
4. Data Item Number DID LS-101 Supplementary Provisioning Technical Data (SPTD)		5. Reference Ann. CA To Vol. 3 (para. 4.1.4.2.0-1)		6. Technical Office PMO ISSP ILSM																							
7. Inspection	8. Approval Code R	9. Review Period 15 WD	10. Frequency See Block 14																								
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission																								
14. Remarks Block 10. CDRL to be submitted only if items provided do not have an established NATO Stock Number. Block 12. The submission must be within 15 WD of identification of the requirement by either the TA or the Contractor.		15. Distribution																									
		<table border="1"><thead><tr><th rowspan="2">Addressee</th><th colspan="3">Copies</th></tr><tr><th>Draft</th><th>Final</th><th>Media</th></tr></thead><tbody><tr><td>DND/TA</td><td>x</td><td></td><td>1 SC</td></tr><tr><td>DND/TA</td><td></td><td>x</td><td>1 SC 1HC</td></tr><tr><td>Contracting Authority</td><td>x</td><td></td><td>1 SC</td></tr><tr><td>Contracting Authority</td><td></td><td>x</td><td>1 SC 1HC</td></tr></tbody></table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1HC
		Addressee	Copies																								
			Draft	Final	Media																						
		DND/TA	x		1 SC																						
DND/TA		x	1 SC 1HC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1HC																								
16. Prepared By PMO ISSP ILSM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

15 CDRL LS-102 Obsolescence Management Candidates List (OMCL)

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																									
C. SOW Identifier ISS OWSS		D. Data Category LS		E. Contractor																								
1. Item Number LS-102		2. Title Obsolescence Management Candidates List (OMCL)		3. Subtitle																								
4. Data Item Number DID LS-102 Obsolescence Management Candidates List (OMCL)		5. Reference Ann. CA To Vol. 3 (para. 4.1.10.0-2)		6. Technical Office PMO ISSP ILSM																								
7. Inspection		8. Approval Code I		9. Review Period 5 WD																								
10. Frequency MNTY																												
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission																								
14. Remarks Block 12. The Contractor must deliver the OMCL as part of the Monthly Service Status Report.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>				Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
Addressee	Copies																											
	Draft	Final	Media																									
DND/TA	x		1 SC																									
DND/TA		x	1 SC																									
Contracting Authority	x		1 SC																									
Contracting Authority		x	1 SC 1 HC																									
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP																								
19. Approval Date June 2011																												

16 CDRL LS-103 Obsolescence Management Issues Report (OMIR)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category LS		E. Contractor																							
1. Item Number LS-103		2. Title Obsolescence Management Issues Report (OMIR)		3. Subtitle																							
4. Data Item Number DID LS-103 Obsolescence Management Issues Report (OMIR)		5. Reference Ann. CA To Vol. 3 (para. 4.1.10.0-3)		6. Technical Office PMO ISSP ILSM																							
7. Inspection	8. Approval Code A	9. Review Period 10 WD	10. Frequency See Block 14																								
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission																								
14. Remarks Block 10. This must be completed for all items listed in the OMCL. Block 12. The Contractor must submit the OMIR within 20 WD of the delivery of the OMCL identifying the obsolescence candidate.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
		Addressee	Copies																								
			Draft	Final	Media																						
		DND/TA	x		1 SC																						
DND/TA		x	1 SC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP 19. Approval Date June 2011																							

17 CDRL LS-104 ISS Spares Catalogue

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category LS		E. Contractor																							
1. Item Number LS-104		2. Title ISS Spares Catalogue		3. Subtitle																							
4. Data Item Number DID LS-104 ISS Spares Catalogue		5. Reference Ann. CA To Vol. 3 (para. 4.2.2.0-1)		6. Technical Office PMO ISSP ILSM																							
7. Inspection	8. Approval Code I	9. Review Period 20 WD	10. Frequency ANNLY																								
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																							
14. Remarks Block 12. The Contractor must deliver its initial Spares Catalogue no later than 20 WD after TA approval of the RSPL, RSERL and CBIL, which are provided during the Acquisition Contract. Block 13. The annual updated Spares Catalogue must be delivered no later than 10 WD after the end of each year following the OWSS kick-off meeting.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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			Draft	Final	Media																						
		DND/TA	x		1 SC																						
DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP 19. Approval Date June 2011																							

18 CDRL LS-105 Repair & Overhaul Candidates List

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category LS		E. Contractor																							
1. Item Number LS-105		2. Title Repair & Overhaul Candidates List		3. Subtitle																							
4. Data Item Number DID LS-105 Repair and Overhaul Candidates List		5. Reference Ann. CA To Vol. 3 (para. 4.2.3.0-2) Ann. CA To Vol. 3 (para. 4.2.3.0-18) Ann. CA To Vol. 3 (para. 4.2.3.0-1)		6. Technical Office PMO ISSP ILSM																							
7. Inspection	8. Approval Code A	9. Review Period 15 WD	10. Frequency ASREQ																								
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The Contractor must deliver an initial R&O Candidates List no later than 20 WD after TA approval of the Maintenance Plan during the execution of the Production Phase of the Acquisition Contract. TA comments on the initial submission will be provided within 15 WD or receipt. Block 13. Resubmission, if required by TA comments, must be delivered 10 WD after receipt of TA comments. Follow-on updates will be on an "as and when required" basis and/or in support to authorised tasks or contract changes.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																							

19 CDRL LS-106 Support System Alternatives Study

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category LS		E. Contractor																							
1. Item Number LS-106		2. Title Support System Alternatives Study		3. Subtitle																							
4. Data Item Number DID LS-106 Support System Alternatives Study		5. Reference Ann. CA To Vol. 3 (para. 4.4.4.0-2)		6. Technical Office PMO ISSP ILSM																							
7. Inspection	8. Approval Code A	9. Review Period 15 WD	10. Frequency See Block 14																								
11. As of Date		12. Date of First Submission In accordance with the authorised task		13. Date of Subsequent Submission 10 WD after receipt of TA Comments.																							
14. Remarks Block 10. This is a task based activity.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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DND/TA		x	1 SC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

20 CDRL LS-107 Reliability/Trend Analysis Report

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category LS		E. Contractor																							
1. Item Number LS-107		2. Title Reliability/Trend Analysis Report		3. Subtitle																							
4. Data Item Number DID LS-107 Reliability/Trend Analysis Reports		5. Reference Ann. CA To Vol. 3 (para. 4.4.4.0-3)		6. Technical Office PMO ISSP ILSM																							
7. Inspection	8. Approval Code A	9. Review Period 15 WD	10. Frequency ASREQ																								
11. As of Date		12. Date of First Submission In accordance with the authorised task		13. Date of Subsequent Submission 10 WD after receipt of TA Comments.																							
14. Remarks Block 10. This is a task based activity.		15. Distribution																									
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		DND/TA	x		1 SC																						
DND/TA		x	1 SC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

21 CDRL LS-108 Failure Modes Effects and Criticality Analysis (FMECA)

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																									
C. SOW Identifier ISS OWSS		D. Data Category LS		E. Contractor																								
1. Item Number LS-108		2. Title Failure Modes Effects and Criticality Analysis (FMECA)		3. Subtitle																								
4. Data Item Number DID LS-108 Failure Modes, Effects and Criticality Analysis (FMECA)		5. Reference Ann. CA To Vol. 3 (para. 4.4.4.0-5)		6. Technical Office PMO ISSP ILSM																								
7. Inspection	8. Approval Code A	9. Review Period 15 WD		10. Frequency ASREQ																								
11. As of Date		12. Date of First Submission In accordance with the authorised task		13. Date of Subsequent Submission 10 WD after receipt of TA Comments.																								
14. Remarks Block 10. This is a task based activity.		15. Distribution																										
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DND/TA		x	1 SC																									
Contracting Authority	x		1 SC																									
Contracting Authority		x	1 SC 1 HC																									
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP																								
				19. Approval Date June 2011																								

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 3, Annex CC, Appendix 1

22 CDRL LS-109 Technical Publications

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																									
C. SOW Identifier ISS OWSS		D. Data Category LS		E. Contractor																								
1. Item Number LS-109		2. Title Technical Publications		3. Subtitle																								
4. Data Item Number DID LS-109 Technical Publications		5. Reference Ann. CA To Vol. 3 (para. 4.4.5.0-5) Ann. CA To Vol. 3 (para. 4.4.5.0-6)		6. Technical Office PMO ISSP ILSM																								
7. Inspection		8. Approval Code A		9. Review Period 15 WD																								
				10. Frequency See Block 14																								
11. As of Date		12. Date of First Submission In accordance with the authorised task		13. Date of Subsequent Submission 10 WD after receipt of TA Comments.																								
14. Remarks Block 10. This is a task based activity.		15. Distribution																										
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DND/TA		x	1 SC																									
Contracting Authority	x		1 SC																									
Contracting Authority		x	1 SC 1 HC																									
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP																								
				19. Approval Date June 2011																								

23 CDRL CM-101 Configuration Management Plan (CMP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category CM		E. Contractor																							
1. Item Number CM-101		2. Title Configuration Management Plan (CMP)		3. Subtitle																							
4. Data Item Number DID CM-101 Configuration Management Plan (CMP)		5. Reference Ann. CA To Vol. 3 (para. 4.1.4.1.0-1)		6. Technical Office PMO ISSP CM																							
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The revised CMP must be delivered to the TA 10 WD after the OWSS kick-off meeting. Block 13. The Contractor must deliver the final version of the CMP no later than 2 month after Contract start date. Further updates (to reflect changes to the project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP CM		17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																							

24 CDRL CM-102 Engineering Change Proposals (ECP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category CM		E. Contractor																							
1. Item Number CM-102		2. Title Engineering Change Proposals (ECP)		3. Subtitle																							
4. Data Item Number DID CM-102 Engineering Change Proposal (ECP)		5. Reference Ann. CA To Vol. 3 (para. 4.1.4.3.0-1)		6. Technical Office PMO ISSP CM																							
7. Inspection DD		8. Approval Code A		9. Review Period 20 WD																							
				10. Frequency ASREQ																							
11. As of Date		12. Date of First Submission When a requirement is identified.		13. Date of Subsequent Submission See Block 14																							
14. Remarks Block 13. The Contractor must provide updates 5 WD after receipt of TA comments		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP CM		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

25 CDRL CM-103 Request for Deviation/Request for Waiver (RFD/RFW)

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																									
C. SOW Identifier ISS OWSS		D. Data Category CM		E. Contractor																								
1. Item Number CM-103		2. Title Request for Deviation/Request for Waiver (RFD/RFW)		3. Subtitle																								
4. Data Item Number DID CM-103 Request for Deviation (RFD)/Request for Waiver (RFW)		5. Reference Ann. CA To Vol. 3 (para. 4.1.4.3.0-3)		6. Technical Office PMO ISSP CM																								
7. Inspection DD		8. Approval Code A		9. Review Period 15 WD																								
10. Frequency ASREQ																												
11. As of Date		12. Date of First Submission When a requirement is identified		13. Date of Subsequent Submission																								
14. Remarks		15. Distribution																										
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26 CDRL CM-104 Specification Change Notice (SCN)

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																									
C. SOW Identifier ISS OWSS		D. Data Category CM		E. Contractor																								
1. Item Number CM-104		2. Title Specification Change Notice (SCN)		3. Subtitle																								
4. Data Item Number DID CM-104 Specification Change Notice (SCN)		5. Reference Ann. CA To Vol. 3 (para. 4.1.4.3.0-4)		6. Technical Office PMO ISSP CM																								
7. Inspection DD		8. Approval Code R		9. Review Period 15 WD																								
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27 CDRL CM-105 Notice of Revision (NOR)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category CM		E. Contractor																							
1. Item Number CM-105		2. Title Notice of Revision (NOR)		3. Subtitle																							
4. Data Item Number DID CM-105 Notice of Revision (NOR)		5. Reference Ann. CA To Vol. 3 (para. 4.1.4.3.0-5)		6. Technical Office PMO ISSP CM																							
7. Inspection DD		8. Approval Code R		9. Review Period 15 WD																							
				10. Frequency ASREQ																							
11. As of Date		12. Date of First Submission 10 WD after ECP approval by TA		13. Date of Subsequent Submission																							
14. Remarks		15. Distribution																									
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28 CDRL CM-106 Configuration Status Accounting (CSA) Report

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/002/RA																									
C. SOW Identifier ISS OWSS	D. Data Category CM		E. Contractor																								
1. Item Number CM-106	2. Title Configuration Status Accounting (CSA) Report		3. Subtitle																								
4. Data Item Number DID CM-106 Configuration Status Accounting (CSA) Report	5. Reference Ann. CA To Vol. 3 (para. 4.1.4.4.0-1)		6. Technical Office PMO ISSP CM																								
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency MNTY																								
11. As of Date	12. Date of First Submission See Block 14		13. Date of Subsequent Submission																								
14. Remarks Block 12. The Contractor must deliver the CSA Report as part of the Monthly Service Status Report.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td></td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA			1 SC	DND/TA		x	1 SC	Contracting Authority			1 SC	Contracting Authority		x	1 SC 1 HC
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29 CDRL CM-107 Software Version Description Documentation (SVDD)

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																									
C. SOW Identifier ISS OWSS		D. Data Category CM		E. Contractor																								
1. Item Number CM-107		2. Title Software Version Description Documentation (SVDD)		3. Subtitle																								
4. Data Item Number DID CM-107 Software Version Description Document (SVDD)		5. Reference Ann. CA To Vol. 3 (para. 4.1.4.4.0-2)		6. Technical Office PMO ISSP CM																								
7. Inspection DD		8. Approval Code R		9. Review Period 15 WD																								
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30 CDRL CM-108 Configuration Audit Plan (CAP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category CM		E. Contractor																							
1. Item Number CM-108		2. Title Configuration Audit Plan (CAP)		3. Subtitle																							
4. Data Item Number DID CM-108 Configuration Audit Plan (CAP)		5. Reference Ann. CA To Vol. 3 (para. 4.1.4.5.0-2)		6. Technical Office PMO ISSP CM																							
7. Inspection DD		8. Approval Code R		9. Review Period 10 WD																							
				10. Frequency ASREQ																							
11. As of Date		12. Date of First Submission 15 WD before conduct of the applicable audit		13. Date of Subsequent Submission 5 WD after receipt of TA comments																							
14. Remarks		15. Distribution																									
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31 CDRL CM-109 Configuration Audit Report (CAR)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category CM		E. Contractor																							
1. Item Number CM-109		2. Title Configuration Audit Report (CAR)		3. Subtitle																							
4. Data Item Number DID CM-109 Configuration Audit Report (CAR)		5. Reference Ann. CA To Vol. 3 (para. 4.1.4.5.0-3)		6. Technical Office PMO ISSP CM																							
7. Inspection DD		8. Approval Code R		9. Review Period 10 WD																							
				10. Frequency ASREQ																							
11. As of Date		12. Date of First Submission 10 WD after completion of the applicable audit		13. Date of Subsequent Submission 5 WD after receipt of TA comments.																							
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16. Prepared By PMO ISSP CM		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

32 CDRL DM-101 Technical Data Management Plan (TDMP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC OWSS CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/002/RA																								
C. SOW Identifier ISS OWSS		D. Data Category DM		E. Contractor																							
1. Item Number DM-101		2. Title Technical Data Management Plan (TDMP)		3. Subtitle																							
4. Data Item Number DID DM-101 Technical Data Management Plan (TDMP)		5. Reference Ann. CA To Vol. 3 (para. 4.1.5.0-2)		6. Technical Office PMO ISSP CM																							
7. Inspection DD	8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The revised TDMP must be submitted to the TA 10 WD after the OWSS kick-off meeting. Block 13. The Contractor must deliver the final version of the TDMP no later than 2 months after Contract start date. Further updates (to reflect changes to the project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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APPENDIX 2 TO ANNEX CC TO VOLUME 3

DATA ITEMS DESCRIPTION (DID) FOR THE OPTIMIZED WEAPON SYSTEM SUPPORT (OWSS) OF THE INTEGRATED SOLDIER SYSTEM (ISS)

18 JANUARY 2013

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1 PROJECT MANAGEMENT

1.1 DID PM-101 Program Management Plan (PMP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Program Management Plan (PMP)	2 Data Item Number PM-101	
3 Description / Purpose 3.0-1 The PMP provides an overview of the different Program processes and how they fit together to form a totally integrated management system for the Program. The Contractor uses the PMP, including or supplemented by subordinate plans, to provide direction and guidance to the Contractor's management team responsible for conduct of the work. The Crown uses the PMP to: 3.0-1.0-1 Gain visibility into the Contractor's planning; 3.0-1.0-2 Understand and evaluate the Contractor's approach to managing the Program; and 3.0-1.0-3 Provide input into the Crown's planning. 3.0-2 The PMP is the primary plan for the Contract. All other plans related to the Contract fit beneath the umbrella of the PMP.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 FORMAT 10.1.0-1 The PMP must be prepared in the Contractor's format. 10.2 GENERAL 10.2.0-1 The PMP must define the management processes, administrative procedures and organizational structure that will be used to manage the Contractor's work. The PMP must be a stand-alone document that provides sufficient detail to allow DND to assess the Contractor's understanding of the work of the project as well as the Contractor's ability to carry out and manage the work of the contract to a successful conclusion. It will allow the reader to understand how the project will be managed without referring to other documents. It is not acceptable to simply reference a document, procedure or standard without providing an overview of the material referenced. 10.3 CONTENT 10.3.0-1 The following paragraphs outline the framework of the PMP. This framework should not limit the Contractor in developing the PMP, which must reflect how the Contractor plans to implement and manage the Contract. The PMP must contain, as a minimum, the following information: 10.3.1 Overview 10.3.1.0-1 Purpose, Background, Scope and Objectives; 10.3.1.0-2 Assumptions, Constraints and Risks; 10.3.1.0-3 Project Deliverables; 10.3.1.0-4 Organization Summary; and		

10.3.1.0-5 Schedule Summary.

10.3.2 Organization

10.3.2.0-1 Project Management Organizational Chart, including internal and external organizations as it pertains to this contract;

10.3.2.0-2 Roles and Responsibilities, including internal and external organizations;

10.3.2.0-3 Escalating Lines of Communication;

10.3.2.0-4 Description of Project Management Organization type; and

10.3.2.0-5 Detailed resume with relevant experience for each of the activity managers.

10.3.3 Management Processes

10.3.3.0-1 Project Management Approach and Procedures;

10.3.3.0-2 Scope Management, including the development and use of the Work Breakdown Structure;

10.3.3.0-3 Integration and Control Management;

10.3.3.0-4 Subcontractor Management, including approved and to-be-approved subcontractors along with description of relationship and responsibilities;

10.3.3.0-5 Schedule Management and Control, describing the procedures the Contractor will use to track and maintain the schedule that includes, as a minimum:

10.3.3.0-5.0-1 Processes for tracking tasks against the project schedule to identify slippage;

10.3.3.0-5.0-2 Processes specific to critical path items;

10.3.3.0-5.0-3 Processes for updating and communicating schedule changes; and

10.3.3.0-5.0-4 Processes to assess schedule impact of new tasks.

10.3.3.0-6 Resource Allocation;

10.3.3.0-7 Budget Control;

10.3.3.0-8 Quality Management;

10.3.3.0-9 Performance Monitoring;

10.3.3.0-10 Progress Reporting;

10.3.3.0-11 Communications Management;

10.3.3.0-12 Problem Identification and Resolution;

10.3.3.0-13 Project Work Tasks/Elements Closing;

10.3.3.0-14 Process Improvement;

10.3.3.0-15 Risk Management, describing how the Contractor will implement a Risk Management system that will systematically and continuously manage items that are considered to be of a high-risk nature that includes, as a minimum:

10.3.3.0-15.0-1 The methodology for risk identification;

10.3.3.0-15.0-2 The procedures and systems for assessing and monitoring risks;

10.3.3.0-15.0-3 The system for resolving or mitigating risk situations;

10.3.3.0-15.0-4 The system for reporting on current risk status; and

10.3.3.0-15.0-5 All sectors, areas of responsibilities and disciplines affecting the project (including Environmental Health and Safety (EHS)).

10.3.3.0-16 Data Management;

10.3.3.0-17 Change Control Processes; and

10.3.3.0-18 Action Item Management.

10.3.4 Transition to in-service support

10.3.4.0-1 Internal processes and oversight to ensure the transition from the implementation phase to the in-service support contract is executed efficiently; and

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10.3.4.0-2 Handover between the Project Manager and the In-Service Support Manager.

1.2 DID PM-102 Quality Assurance Plan (QAP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Quality Assurance Plan (QAP)	2 Data Item Number PM-102	
3 Description / Purpose 3.0-1 The QAP provides Canada with information on the Contractor's quality system and its application as it relates to ISSP. 3.0-2 The QAP provides Canada with an understanding of the Contractor's quality assurance program and it will be used to guide the quality program during the performance of the contract.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The QAP is a subordinate plan of the PMP. 7.0-2 The QAP must conform to the following standards and specifications, as per the requirements below: <ul style="list-style-type: none"> •7.0-2.0-1 ISO 9001:2008 Quality Requirements •7.0-2.0-2 ISO/IEC 90003 Software and System Engineering Guidelines for the Application of ISO 9001:2000 to Computer Software 		
8 Originator PMO ISSP PCCO	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The QAP must completely describe the Contractor's quality system and how the system will be implemented for the successful completion of the contract. 10.0-2 The QAP must be prepared in the Contractor's format and should contain the following information: <ul style="list-style-type: none"> 10.0-2.0-1 Title Page; 10.0-2.0-2 Table of Contents; 10.0-2.0-3 Document Control Log; 10.0-2.0-4 Revision Record: <ul style="list-style-type: none"> 10.0-2.0-4.0-1 The document must provide a change history that identifies each change made, the date of issue, the version/revision incorporating the change and the title and rationale for the change. 10.0-2.0-5 Plan Subject Matter; 10.0-2.0-6 Notes; and 10.0-2.0-7 Appendices. 10.0-3 The QAP must provide details on the methods and organization with which the Contractor will implement an effective QAP. The plan must identify all procedures, processes and associated planning data necessary for the attainment of the required QAP. 10.0-4 The QAP subject matter must be broken down into the following sections: <ul style="list-style-type: none"> 10.0-4.0-1 <u>Section I - General</u>. This section of the plan must define the scope, purpose and application of the QAP, related documents, and mechanisms to amend the plan; 10.0-4.0-2 <u>Section II - Elements In Place</u>. The section must describe what elements and/or resources of the Quality Assurance (QA) program are already in place, and what is additionally required. It should include a clear demonstration that the Contractor's QAP and System are in 		

conformity with the ISO 9001:2008 Quality Requirements. In the event that the Contractor's Quality Management System is not in full conformity with the ISO 9001:2008 Quality Requirements, the QAP must include a requirements traceability matrix cross referencing the Contractor's QAP elements to the applicable elements of the ISO 9001:2008 Quality Requirements. The QAP section describing Software Quality Management must conform to ISO/IEC 90003 Software and System Engineering Guidelines for the Application of ISO 9001:2000 to Computer Software;

10.0-4.0-3 Section III - Major Subcontractors. The plan must identify the major subcontractors who are subject to the application of the Contractor's quality system. The plan should include a description of the subcontractor's area of responsibility and to whom they are accountable;

10.0-4.0-4 Section IV - Management/Organization. This section must describe the Contractor's QA organization, subcontractor's QA organization, management procedures, interfaces and reporting/tracking systems established to control QA activities. The plan should identify the Contractor's QA Manager and support personnel by name in a QA Organizational Chart.

10.0-4.0-5 Section V - WBS/Schedule of Activities and Milestones. Not used.

10.0-4.0-6 Section VI - Relationships. This section must describe the following relationships:

10.0-4.0-6.0-1 Between the various Contractor's QA elements and QA Manager;

10.0-4.0-6.0-2 Between the Contractor's QA Manager and the Contractor's Project Management, Systems Engineering, and Subcontractors programs; and

10.0-4.0-6.0-3 Between the Contractor's and Department of National Defence (DND) QA Organization.

10.0-4.0-7 Section VII - Meetings and Reviews. The requirements for QA meetings throughout the conduct of the project must be outlined in the QAP.

10.0-4.0-8 Section VIII - Production acceptance. This section must detail the process that will be implemented in order to carry out the First Article Inspection (FAI), sampling and inspection methods of the product on each Integrated Soldier System (ISS) System element and on the ISS System as a whole before delivery. It must describe or reference the procedures that will be used for performing FAI and sampling inspection. It must provide the details of the functional and performance checks that the Contractor will perform during the pre-production and production phase. The production acceptance method and procedures may have to be amended by the Contractor order to address any quality issues identified by the Technical Authority (TA) or DND QA Representative (QAR) during the contract.

10.0-4.0-9 Section IX - Non-Conforming product - This section must detail the process that will be implemented in order to withhold non-conforming product, its disposition, and to take the corrective action necessary.

1.3 DID PM-103 Significant Incident Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Significant Incident Report		2 Data Item Number PM-103
3 Description / Purpose 3.0-1 The Significant Incident Report is the mechanism by which the Contractor must immediately notify the ISSP Project Management Office of an event that may have serious impact on the ISSP Project.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 Format. It is preferable that electronic submissions be in Microsoft Word (Office 2003). 10.0-2 The Significant Incident Report must be provided immediately upon the occurrence of any of the following circumstances or situations: 10.0-2.0-1 identification of a significant technical (including ILS) or quality problems; 10.0-2.0-2 anticipation of a significant schedule slippage; 10.0-2.0-3 accidents involving the ISSP equipment to be delivered or GFE; and 10.0-2.0-4 incidents that could have jeopardized the health of DND personnel or could have caused loss or damage to DND assets. 10.0-3 The Contractor must prepare the Significant Incident Report in Contractor format. The Significant Incident Report must contain the following: 10.0-3.0-1 the report number; 10.0-3.0-2 a brief description of the problem; 10.0-3.0-3 action being taken to rectify the incident; and 10.0-3.0-4 any additional significant information.		

1.4 DID PM-104 Monthly Services Status Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Monthly Services Status Report		2 Data Item Number PM-104
3 Description / Purpose 3.0-1 The OWSS Monthly Services Status Report must summarise the Contractor's progress in relation to the contract milestones, schedules, plans, Deliverable End Items, R&O and Contractor's Work Breakdown Structure.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 The Monthly Service Status Report must be prepared in the Contractor's format and must include the following information: 10.0-2 an executive summary which covers significant elements of the report; 10.0-3 the Description of progress to task activities schedule with concise explanation of any discrepancies; 10.0-4 the description of progress to Spares procurement and R&O activities; 10.0-5 Risk Status Update: i. Identification of any new risks; ii. Update on medium and high risks; and iii. update on risk priority listing; 10.0-6 narrative detailing progress against milestones, expected date of completion of near milestones, problem areas and work-around plans where required; 10.0-7 update of progress for major subcontracts; 10.0-8 production status against each major deliverable, the time phase of significant stages of production and the time phase of testing, verification, demonstration and acceptance activities requiring DND participation or surveillance; 10.0-9 Current status of all technical, management and logistical problems, actions taken or planned to resolve them, and their impact; 10.0-10 status report on data Deliverable End Items as called up in the CDRLs; 10.0-11 status of any Contract Change Proposals (CCP), Engineering Change Proposals (ECPs), Deviation and Waiver requests where applicable; 10.0-12 outstanding action items as well as new problems/issues and any other areas of concern, interest or importance; 10.0-13 detailed reporting of the Core Management activities as well as SITREP on the Task Based activities that have taken place since the last Monthly Services Status Report; 10.0-14 overall financial; 10.0-15 Planned activities for the following reporting period; and 10.0-16 Contractor performance self-assessment (Appendices 1 and 2 to Annex CB to OWSS contract).		

1.5 DID PM-105 Meeting Agenda

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Meeting Agenda		2 Data Item Number PM-105
3 Description / Purpose 3.0-1 Meeting Agendas provide an outline of the purpose, objectives and areas to be formally discussed at meetings.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 This DID integrates with DID PM-106 , Meeting Minutes.		
8 Originator PMO ISSP PCCO		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 Meeting Agendas must be prepared in the Contractor's format. 10.0-2 Meeting Agendas must include, as a minimum, the following: 10.1 General 10.1.0-1 Meeting identification, number, scope, purpose and objectives; 10.1.0-2 Meeting venue, date, time, location, expected attendees and Level of Security; 10.2 Discussion Items 10.2.0-1 Opening remarks; 10.2.0-2 Agenda Review; 10.2.0-3 Review of previous Minutes; 10.2.0-4 If the purpose of the meeting is a Project Review Meeting (PRM) the following agenda items must be included: 10.2.0-4.0-1 Review of Progress Report; 10.2.0-4.0-2 Review of Project Schedule - Status of current activities (in-progress & completed) - new duration estimates - impact on critical dates and milestones. 10.2.0-4.0-3 Review of Issue-Action Item Log (IAIL); 10.2.0-4.0-4 Review of Significant Risks; 10.2.0-5 If the purpose of the meeting is other than a PRM the following agenda items must be included: 10.2.0-5.0-1 Review of progress since last meeting; 10.2.0-5.0-2 Review of items by area of responsibility; Engineering and Technical, Integrated Logistics Support (ILS), Environmental Health and Safety (EHS), Other; 10.2.0-5.0-3 Review of IAIL pertinent to area of responsibility; 10.2.0-6 Open Discussion Items; 10.2.0-7 Next Meeting Date and Venue; and 10.2.0-8 Closing Remarks. 10.3 Special Requirements 10.3.0-1 This section must detail the requirement for visit clearances, security clearances, security arrangements, facilities, and any other pertinent information such as specific instruction on the timely distribution of any Canada/Contractor documentation or presentation material to be presented at the meeting.		

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1.6 DID PM-106 Meeting Minutes

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Meeting Minutes		2 Data Item Number PM-106
3 Description / Purpose 3.0-1 Meeting Minutes record significant discussion and documents decisions taken at meetings.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 This DID integrates with DID PM-105 , Meeting Agenda		
8 Originator PMO ISSP PCCO		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 Meeting Minutes must be prepared in the Contractor's format. The format of the first submission will be subject to approval by Canada, and once approved, must become the standard for future submissions. 10.0-2 Meeting Minutes must include, as a minimum, the following: 10.0-2.0-1 Meeting identification, number, scope, purpose and objectives; 10.0-2.0-2 List of all attendees detailing title, responsibility and contact information; 10.0-2.0-3 Discussion Items - Including a summary record of proceedings and discussions, all agenda items must be covered; 10.0-2.0-4 Record of decisions taken, issue/Action Item (AI) responsibility and target date of completion of issues/AIs; 10.0-2.0-5 Proposed date, time and location of next meeting; 10.0-2.0-6 Signature blocks for both Contractor and Canada responsible representatives; and 10.0-2.0-7 Copies of all data and information tabled at the meeting. 10.0-3 Meeting Minutes must include a disclaimer that the minutes are a record of discussions only and do not constitute approval for contractual changes.		

1.7 DID PM-107 Issue-Action Item Log (IAIL)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Issue-Action Item Log (IAIL)		2 Data Item Number PM-107
3 Description / Purpose 3.0-1 The IAIL consists of itemized, dated and up-to-date records of all Contractor and Canada issue items with appropriate action/decisions detailed.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 The IAIL must be prepared in the Contractor's format. The format of the first submission will be subject to approval by Canada, and once approved, must become the standard. 10.0-2 The IAIL must contain the itemized records of issue/action items and must include, as a minimum: 10.0-2.0-1 Date opened; 10.0-2.0-2 Identification number; 10.0-2.0-3 Issue/AI description; 10.0-2.0-4 Meeting references to documents, minutes, reports or activity; 10.0-2.0-5 Issue/AI description; 10.0-2.0-6 Issue/AI raised by; 10.0-2.0-7 Due date for completion and actual date closed; 10.0-2.0-8 Issue/AI Owner; 10.0-2.0-9 Action Required/Decision; and 10.0-2.0-10 Status (Open or Closed).		

1.8 DID PM-108 Intellectual Property (IP) Lists

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Intellectual Property (IP) Lists	2 Data Item Number PM-108	
3 Description / Purpose 3.0-1 The IP Lists provide a complete list of all intellectual property, both Background and Foreground IP, used by the Contractor and Subcontractors for the design, development and construction of the ISSP. The lists also include any Background IP related to the ISSP, which the Contractor does not own and cannot provide access to Canada.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The IP Lists must be prepared in Contractor format. 10.0-2 The IP Lists must list Background and Foreground IP separately. 10.0-3 The IP Lists must include the following information for Foreground IP: 10.0-3.0-1 Document Number; 10.0-3.0-2 Revision Level; 10.0-3.0-3 Document Title; 10.0-3.0-4 IP Registration Number if applicable (e.g. patent number); 10.0-3.0-5 Date of Issue; 10.0-3.0-6 Originator (Company Name and Address); 10.0-3.0-7 Current Owner (if different from Originator); and 10.0-3.0-8 Licensed rights to DND if applicable. 10.0-4 The IP Lists must include the following information for Background IP that the Contractor can provide access to: 10.0-4.0-1 Document Number; 10.0-4.0-2 Revision Level; 10.0-4.0-3 Document Title; 10.0-4.0-4 IP Registration Number if applicable; 10.0-4.0-5 Date of Issue; 10.0-4.0-6 Originator (Company Name and Address); 10.0-4.0-7 Current Owner (if different from Originator); and 10.0-4.0-8 Licensed rights to DND if applicable. 10.0-5 The IP Lists must include that Background IP related to the ISSP System that the Contractor does not own and cannot provide Canada access to. For any such Background IP the following information is required: 10.0-5.0-1 Document Number (if available/releasable); 10.0-5.0-2 Revision Level (if available/releasable); 10.0-5.0-3 Document Title (if available/releasable); 10.0-5.0-4 IP Registration Number if applicable;		

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10.0-5.0-5 Date of Issue (if available/releasable);
10.0-5.0-6 Originator (Company Name and Address); and
10.0-5.0-7 Current Owner (if different from Originator).
10.0-6 A brief description of the Background IP must be provided for those items where the requested information at 10.0-5 is not provided.

1.9 DID PM-109 Environmental, Health and Safety Assessment (EHSA)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Environmental, Health and Safety Assessment (EHSA)	2 Data Item Number PM-109	
3 Description / Purpose 3.0-1 The due diligence EHSA (Environmental Assessment) identifies and documents the environmental health and safety impact of the project, system, equipment, material and/or service provided by the Contractor throughout the various life cycle phases (design, engineering and manufacturing, test and evaluation, production and delivery, operation and maintenance, and demilitarization and disposal) and the mitigation measures required to reduce or eliminate significant environmental safety and health risks.		
4 Approval Date January 2009	5 Office of Primary Interest (OPI) PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The EHSA must conform to the following standards and specifications, as per the requirements below: <ul style="list-style-type: none"> •7.0-1.0-1 A-EN-007-000/FP-001 DND Environmental Assessment Manual •7.0-1.0-2 Canadian Environmental Protection Act (CEPA), Schedule 1 <http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=24374285-1&offset=14&toc=show#1> •7.0-1.0-3 Accelerated Reduction/Elimination of Toxics (ARET) <http://admmat.mil.ca/dglepm/dleps/documents/DLEPS6_ARETSubstancesList_e.pdf> •7.0-1.0-4 National Pollutant Release Inventory (NPRI) <http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm> •7.0-1.0-5 List of Challenge Substances <http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list_eng.html> 		
8 Originator PMO ISSP PCCO	9 Applicable Forms Figure 1 - Figure 5 to Annex CC, Appendix 2	
10 Preparation Instructions 10.1 Format 10.1.0-1 The EHSA must be in the Contractor's format and as further described herein, conformant to Electronic Information Environment (EIE) requirements.		
10.2 Content 10.2.0-1 The EHSA must follow the principles and guidance contained within the DND Environmental Assessment Manual (A-EN-007-000/FP-001) but present the required information in the manner identified within this DID. The EHSA must identify and document the environmental, health and safety impact of the project, system, equipment, materiel and/or services provided by the Contractor throughout the life cycle, and the mitigation measures required to reduce or eliminate significant environmental, health and safety risks. The EHSA must address the above points in detail through the following parts and sections:		
10.2.1 PART I - Registration Information 10.2.1.0-1 Title - The title must identify the primary system being reported upon (ISS) and a brief paragraph is to be located under the title that provides the description, purpose and primary role of		

the system being provided.

10.2.1.0-2 Base/Unit - This section must identify the applicable site specific affected by the provided equipment, materiel and/or support services

10.2.1.0-3 Registration -This section must state registration identifier of the EHSA - For ISSP, the registration number is DGLEPM 1484.

10.2.1.0-4 Project Location - This section must identify the physical locations affected by the provided equipment, materiel and/or support services, and/or as specified within the contract requirements.

10.2.1.0-5 Project Description Summary - this section must contain a brief description of the system, equipment, material and/or services being provided under following sub paragraphs:

10.2.1.0-5.0-1 General Description of the System. The section shall provide a description of the role, purpose, concept of operation, design characteristics, and performance capabilities of the system, throughout its entire life span. The major/significant construction materials, products and activities that contribute to the EHS impact shall be identified; and

10.2.1.0-5.0-2 Major Sub System. This section shall identify the major sub components of the system and provide a description of their purpose, function and/or role including any relevant steps or phases, such as operation and maintenance. The major/significant construction materials, products and activities that contribute to their EHS impact shall be identified.

10.2.1.0-6 Assessment Contact - this paragraph must contain the name, title, company name, phone number, and email address of the author of the report.

10.2.2 PART II - Environmental, Health and Safety Impact Assessment

10.2.2.0-1 Design - This section shall provide an overview on the origin of the project, system, equipment, materiel and/or service or activity being assessed and its design impact on environmental health and safety. Alternatives to the activities that were considered are to be included within this section, including reasons for non-adoption.

10.2.2.0-2 Major Sub System Assessment - This section shall provide, in tabular format, the following information (Figure 1 illustrates an example of the tabular format):

10.2.2.0-2.0-1 A listing of the EHS aspects (a sample list of possible aspects can be found at Enclosure A) and their hazards associated with each major sub system and component for each life cycle phase (engineering and manufacture, test and evaluation, production and delivery, operation and maintenance, demilitarization and disposal);

10.2.2.0-2.0-2 Clear identification of whether each major component and its consumables are a source of any of the following EHS hazards:

10.2.2.0-2.0-2.0-1 Ionising radiation (location and exposure levels) (for each activity the radiation hazard must be considered in both normal and non-normal situations);

10.2.2.0-2.0-2.0-2 Electromagnetic radiation (location and frequencies);

10.2.2.0-2.0-2.0-3 Noise (location and intensity);

10.2.2.0-2.0-2.0-4 Vibration (location and frequency);

10.2.2.0-2.0-2.0-5 Hazardous gases;

10.2.2.0-2.0-2.0-6 Hazardous liquids;

10.2.2.0-2.0-2.0-7 Hazardous solids (source, concentration or quantity); and

10.2.2.0-2.0-2.0-8 Other - any other hazard associated with the specific equipment (e.g., CEPA Schedule 1, heavy metals, asbestos, ARET substances, NPRI substances, and Challenge Substances).

10.2.2.0-2.0-3 The identification of the substance(s) of concern with its chemical abstract

number (CAS #), and the identification of its control listing (e.g. NPRI, ARET, Challenge, CEPA Schedule 1);

10.2.2.0-2.0-4 The significance (amount or level) of the identified hazard, including compliance to regulatory requirements;

10.2.2.0-2.0-5 Justification for the use of all regulated products and those containing substances identified within the Accelerated Reduction/Elimination of Toxics (ARET,

[<http://admmat.mil.ca/dglepm/dleps/documents/DLEPS6_ARETSubstancesList_e.pdf>](http://admmat.mil.ca/dglepm/dleps/documents/DLEPS6_ARETSubstancesList_e.pdf)),

National Pollutant Release Inventory (NPRI, http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm)

and/or List of Challenge Substances (http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list_eng.html), and also for products containing heavy metals (heavy metals are those

identified within Schedule 1 of the Canadian Environmental Protection Act (CEPA)

[<http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=24374285-1&offset=14&toc=show#1>](http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=24374285-1&offset=14&toc=show#1));

10.2.2.0-2.0-6 The associated potential environmental, health and safety impacts from the identified hazards;

10.2.2.0-2.0-7 The mitigation measures or preventive measures necessary to reduce or eliminate the identified impacts or risks;

10.2.2.0-2.0-8 Compliance monitoring requirements (compliance monitoring verifies that mitigation measures were implemented);

10.2.2.0-2.0-9 Follow-Up plans (follow-ups plans verify the accuracy of an Environmental Assessment (EA) and/or determines the effectiveness of any mitigation measure). Identify the type and nature of any required follow-up plans; and

10.2.2.0-2.0-10 Reference to the applicable Material Safety Data Sheets (MSDS) for each identified hazardous substance.

10.2.2.0-3 Table of Hazardous Products. This section shall contain a list of all products, which are subject to the Hazardous Products Act and require a MSDS, and were identified in paragraph

10.2.2.0-2.0-2. The list shall include the product description/name, the product part number, the manufacturer name and address, the manufacturer's National Supply Code for Manufacturers (NSCM)/ Commercial and Government Entity (CAGE) Code, NATO Stock Number (NSN - if applicable) and unique Defence Resource Management Information System (DRMIS) identifier (if it exists), all Workplace Hazardous Materials Information System (WHMIS) Class(es) (e.g. A [Class A-Compressed Gas], B5 [Class B Flammable and Combustible Material, Division 5: Flammable Aerosol]), the full Transportation of Dangerous Goods Class (e.g. 2.3 [Class 2 Compressed Gases, Division 3: Poisonous Gases]), and the cross-reference to Figure 5 MSDS identifier. MSDS of these products shall be appended to the EHSA within Figure 5 and clearly marked with their cross-linked identifier at the top right of the page. An example of this listing is provided at Figure 2.

10.2.2.0-4 Mercury. This section shall contain a list of information pertaining to all occurrences of mercury associated with the major sub-systems and components, or project activity. The listing shall contain the following information in tabular format (Figure 3 illustrates an example of the tabular format):

10.2.2.0-4.0-1 Equipment NSN (for equipment containing mercury);

10.2.2.0-4.0-2 Equipment Description;

10.2.2.0-4.0-3 NSN or DRMIS unique identifier of the item containing mercury (if it exists);

10.2.2.0-4.0-4 Manufacturer of mercury-containing item;

10.2.2.0-4.0-5 Date of manufacture of the mercury-containing item;
10.2.2.0-4.0-6 Manufacturer part number of mercury-containing item;
10.2.2.0-4.0-7 NSCM/CAGE Code of items containing mercury;
10.2.2.0-4.0-8 Description of mercury-containing item;
10.2.2.0-4.0-9 The form of mercury (e.g. liquid, vapour, amalgam, metal halide);
10.2.2.0-4.0-10 Quantity of mercury (kg mass);
10.2.2.0-4.0-11 Volume of mercury (L) and its concentration in ppm (either 10.2.2.0-4.0-10 or 10.2.2.0-4.0-11 is required, however, both can be provided);
10.2.2.0-4.0-12 The location of the mercury-containing item(s);
10.2.2.0-4.0-13 Quantity of mercury containing item per reported equipment; and
10.2.2.0-4.0-14 Total Quantity of mercury within the reported equipment (for kg mass and volume/concentration).

10.2.2.0-5 Consultation

10.2.2.0-5.0-1 Internal. This section must list all applicable internal consultations performed in order to produce the EHSA; and

10.2.2.0-5.0-2 External. This section must list all applicable external consultation performed in order to produce the EHSA.

10.2.2.0-6 Documentation

10.2.2.0-6.0-1 Regulations and Policies. This section must list all applicable Canadian regulations and policies; and

10.2.2.0-6.0-2 Other references. This section must list the references and material used to produce the EHSA.

10.2.2.0-7 Site Visits - This section must comment on the reasons and results of visits conducted; otherwise it must be titled and identified as "No site visits required".

10.2.2.0-8 Existing Environment - This section must identify the boundaries of the environment considered and provide an appropriate description of the environment(s) affected.

10.2.2.0-9 Environmental Effects - This section must contain a completed matrix for each of the applicable activities (and their associated sub-activities) involving the system throughout the life cycle phases (design, engineering and manufacturing, test and evaluation, production and delivery, operation and maintenance, demilitarization and disposal). For components with Ionizing Radiation Hazard, each activity must be considered in both normal and non-normal situations.

10.2.2.0-10 To identify potential environmental, health and safety effects, each matrix must be completed as follows:

10.2.2.0-10.0-1 In the left-hand column, list the system components/activities. Across the top of the matrix, list the Valued Ecosystem Components (VECs) relevant to the study area.

10.2.2.0-10.0-2 Examine each place where a component intersects with an environmental component for each life cycle and determine whether there is a potential significant effect.

Figure 4 illustrates a sample matrix. The VECs on the matrix are only a guide to typical environmental components. Adapt the matrix as needed in accordance with the site specific VECs.

10.2.2.0-11 Summary of Hazards and Impacts - This section shall present the written results on the investigations of the impact of the environmental, health and safety aspects/hazards throughout the different life cycle phases. Each sub-system or activity shall be addressed for their environmental impact or risks as identified in Figure 1 and Figure 4. All regulated substances/activities shall be assessed for compliance and problem areas identified with mitigations measures. Each sub-system

or activity shall be addressed under the following headings (sub-titles may be used for each Life Cycle Phase, Sub-System/Activity):

10.2.2.0-11.0-1 Description of Subsystem/Component/Activity: A description of the sub-system, equipment, component, material, service or activity and its interaction with the environment;

10.2.2.0-11.0-2 EHS Aspect: Identify the EHS Aspects (Enclosure A refers) associated with the Subsystem/Component/Activity throughout all life cycle phases (Figure 1 refers).

10.2.2.0-11.0-3 VECs Affected: Identify the VECs associated with the Subsystem/Component/Activity throughout all life cycle phases (Figure 4 refers)

10.2.2.0-11.0-4 Component/Activity Impact: Prediction of the environmental effects from each interaction and its impact, as well as any impacts that will require mitigation measures;

10.2.2.0-11.0-5 Mitigations Measures: Identify the appropriate mitigation measures required. Mitigation is the elimination, reduction, or control of adverse environmental effects, including restitution for any damage to the environment through replacement, restoration, compensation, or any other means.

10.2.2.0-11.0-6 Significance: Assess/Determine the environmental impact with mitigation measures in place. The EA must determine whether the environmental affects are adverse, likely, and are they significant.

10.2.2.0-11.0-7 Compliance Monitoring: Identify what compliance monitoring is required and the responsible person/office to conduct the monitoring.

10.2.2.0-11.0-8 Follow-Up Plans: Predict any cumulative/residual effects and the need to follow-up. Identify the follow-up plans with the reasons for them.

10.2.3 PART III - Conclusion

10.2.3.0-1 This section shall summarize the main findings of the EHSA and identify the major mitigation measures taken or required to assure sustainable development, and identify the major follow-up measures necessary.

10.2.4 Figures and Enclosures

10.2.4.0-1 Figure 1 - Major Subsystem Assessment Table

10.2.4.0-2 Figure 2 - Table of Hazardous Products

10.2.4.0-3 Figure 3 - Items Containing Mercury

10.2.4.0-4 Figure 4 - Environmental Effects Matrix

10.2.4.0-5 Figure 5 - MSDS (Figure 5 shall contain the MSDS for all hazardous products identified in section 10.2.2.0-2.0-2 and 10.2.2.0-3.)

10.2.4.0-6 Enclosure A - Listing of Possible EHS Aspects

10.2.5 For all figures, see section 5, Figures.

10.2.6 Enclosure A - Listing of Possible EHS Aspects

10.2.6.0-1 An EHS aspect is defined as an activity, product or service that can interact with the environment, human health or safety. The list provided herein is not inclusive, and is only an example of what might be considered when preparing an EHSA. Aspects and their risk are those associated with the activity, product or service being specifically addressed. Regulations or standards may, or may not, apply to the specific EHS aspect.

10.2.6.0-2 1. ARET substances

10.2.6.0-3 2. Adhesives and Sealants

10.2.6.0-4 3. Air Conditionings / Refrigerants

10.2.6.0-5 4. Asbestos

10.2.6.0-6	5. Batteries
10.2.6.0-7	6. Bulk and Weight of Components
10.2.6.0-8	7. CEPA Schedule 1 Substances
10.2.6.0-9	8. Challenge to Industry Substances
10.2.6.0-10	9. Cleaning and cleaners
10.2.6.0-11	10. Coatings/Painting
10.2.6.0-12	11. Compressed Gases/Fluids
10.2.6.0-13	12. Contamination / Decontamination
10.2.6.0-14	13. Demilitarization and Disposal
10.2.6.0-15	14. Disposal
10.2.6.0-16	15. Electrical and Power Sources
10.2.6.0-17	16. Emission Hazards - Enclosed Spaces
10.2.6.0-18	17. Equipment Condition
10.2.6.0-19	18. Exhaust Emissions
10.2.6.0-20	19. Fire Extinguishing Systems
10.2.6.0-21	20. Firing Damage and Damage from operations
10.2.6.0-22	21. Floorboards and Hull Plates
10.2.6.0-23	22. Fuel Consumption
10.2.6.0-24	23. Fuels, Fluids and Lubricants
10.2.6.0-25	24. Hazardous consumables
10.2.6.0-26	25. Heavy Metals
10.2.6.0-27	26. High Temperature Hazards
10.2.6.0-28	27. Ionizing Radiation - Normal and Abnormal
10.2.6.0-29	28. Iron / Aluminum Metal Work (Thermite)
10.2.6.0-30	29. Lasers
10.2.6.0-31	30. Materials of environmental concern
10.2.6.0-32	31. Mercury Sources
10.2.6.0-33	32. Metal Work
10.2.6.0-34	33. Modifications
10.2.6.0-35	34. NPRI substances
10.2.6.0-36	35. Noise, Vibrations and Ground Pressure
10.2.6.0-37	36. Non-Ionizing Radiation - Lasers, UV, Radio, Radar
10.2.6.0-38	37. Operator Safety
10.2.6.0-39	38. Ozone Depleting Substances
10.2.6.0-40	39. Precious Metals
10.2.6.0-41	40. Polychlorinated Biphenyls
10.2.6.0-42	41. Radars
10.2.6.0-43	42. Recycling and Reusing
10.2.6.0-44	43. Regulated Activity/Material/Substance
10.2.6.0-45	44. Rubbers, Plastics, Polymers and Composites
10.2.6.0-46	45. Shielding
10.2.6.0-47	46. Spills and Spill Reporting
10.2.6.0-48	47. Storage - Fuels, Fluids and Lubricants
10.2.6.0-49	48. Tires
10.2.6.0-50	49. Wastes - Solids, Liquids and Gases

RFP - N° de la DP
W8476-112965/B

Amendment No. - N° de la modif.

Buyer ID - Id de l'acheteur
004RA

Client Reference No. - N° de réf. du client
W8476-112965

File No. - N° du dossier
004RA W8476-112965

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10.2.6.0-51 50. Wastes - Hazardous Solids, Liquids and Gases

1.10 DID PM-110 Government Property Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Government Property Report	2 Data Item Number PM-110	
3 Description / Purpose 3.0-1 The Government Property Report provides the status of GFE and GFI.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The Government Property Report must be prepared in Contractor format. 10.0-2 The report must provide an inventory of GFE and GFI. 10.0-3 The report must include the following information for Government Property in the Contractor's possession: 10.0-3.0-1 For each item of GFE: 10.0-3.0-1.0-1 GFE item number; 10.0-3.0-1.0-2 The Contractor's assigned serial number (if applicable); 10.0-3.0-1.0-3 A narrative description of the item; 10.0-3.0-1.0-4 Manufacturer's Part Number / Manufacturer's Reference Number; 10.0-3.0-1.0-5 NSCM; 10.0-3.0-1.0-6 NSN; 10.0-3.0-1.0-7 Nomenclature; 10.0-3.0-1.0-8 The estimated value of the item; 10.0-3.0-1.0-9 Location of the item; 10.0-3.0-1.0-10 The status and condition of the item; and 10.0-3.0-1.0-11 The expected date of the next required re-calibration or overhaul (if required). 10.0-3.0-2 For each item of GFI: 10.0-3.0-2.0-1 GFI item number; and 10.0-3.0-2.0-2 A narrative description of the item. 10.0-4 The report must provide a listing of any shortages in the supply of Government Property. The listing must include Government Property type and item number, quantity short or overdue and due date.		

1.11 DID PM-111 Annual R&O Performance Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Annual R&O Performance Report		2 Data Item Number PM-111
3 Description / Purpose 3.0-1 The Contractor must comply with A-LM-184-001/JS-001 in the preparation of the R&O Annual Performance Report.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP ILSM		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 Format. It is preferable that electronic submissions be in Microsoft Word (Office 2003). 10.0-2 The Contractor must prepare, in Contractor's format, and deliver an Annual R&O Performance Report that contains, but is not limited to, a summary of the following activities: 10.0-3 By subcontractors or suppliers: 10.0-4 By NSN, including: 10.0-5 Number of items repaired; 10.0-6 Average and Variance of Turn-around Time; 10.0-7 Average and Variance of Repair Cost; 10.0-8 Standard Repair Cost; and 10.0-9 Total Repair Cost. 10.0-10 For selected R&O components, agreed price change recommendations.		

1.12 DID PM-112 In-Service LSA Proposal

DATA ITEM DESCRIPTION		DND Form 1409
1 Title In-Service LSA Proposal	2 Data Item Number PM-112	
3 Description / Purpose 3.0-1 This data is required to provide a proposal for the conduct of in-service Logistics Support Analysis (LSA).		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The In-Service LSA Proposal must include: <ul style="list-style-type: none"> 10.0-1.0-1 Purpose and Scope 10.0-1.0-2 Applicable References 10.0-1.0-3 Management and Resources <ul style="list-style-type: none"> 10.0-1.0-3.0-1 Organization and Responsibilities; 10.0-1.0-3.0-2 Use of Computer Tools; and 10.0-1.0-3.0-3 Telecommunications Links to DND. 10.0-1.0-4 Logistics Support Monitoring <ul style="list-style-type: none"> 10.0-1.0-4.0-1 Parameters to be monitored include: <ul style="list-style-type: none"> 10.0-1.0-4.0-1.0-1 Data gathering - operations, maintenance and supply; 10.0-1.0-4.0-1.0-2 Data error detection and correction; and 10.0-1.0-4.0-1.0-3 Data analysis. 10.0-1.0-5 Logistics Support Analysis Update Tasks <ul style="list-style-type: none"> 10.0-1.0-5.0-1 Update of R&M parameter values (especially those used in maintenance planning); 10.0-1.0-5.0-2 Update of the Preventive Maintenance Program (ensuring that the tasks are necessary and sufficient, and that the task intervals are optimal); 10.0-1.0-5.0-3 Update of the Level of Repair Analysis decisions (where there are changes in relevant cost drivers); and 10.0-1.0-5.0-4 Update of the Sparing Analysis (where there are changes in usage rates, repair turnaround times and other significant factors). 10.0-1.0-6 Financial Proposal <ul style="list-style-type: none"> 10.0-1.0-6.0-1 Period of Performance; 10.0-1.0-6.0-2 Qualifications and Capability; 10.0-1.0-6.0-3 Per Diem Rates; and 10.0-1.0-6.0-4 Reimbursable Expenses. 		

2 SYSTEM ENGINEERING

2.1 DID SE-101 System Engineering Management Plan (SEMP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title System Engineering Management Plan (SEMP)	2 Data Item Number SE-101	
3 Description / Purpose 3.0-1 The SEMP describes the Contractor's Engineering policies, plans and processes for scheduling, planning, organizing, directing, conducting, controlling and coordinating all Engineering effort under the contract and sets forth the Contractor's Engineering Program.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The SEMP is a subordinate plan of the PMP. 7.0-2 The Configuration Management (CM) Program documented in the CM Plan (CMP) supports the activities described in the SEMP. 7.0-3 The Quality of the process and outcomes resulting from performing the activities described in the SEMP must be assured by the processes described in the QAP. 7.0-4 The Technical Data Management Plan (TDMP) is a supporting plan to the SEMP. It describes the process that is to be used to manage the documentation resulting from performing the engineering work. 7.0-5 The SEMP conforms to ISO/IEC 15289, references: 7.4, 10.18, 10.20, 10.79.		
8 Originator ISSP Chief Engineer	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Source documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor's own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The SEMP must conform to the requirements for the generic content guidelines for plans, section 7.4 of ISO/IEC 15289. 10.3.0-2 The SEMP must conform with the requirements of ISO/IEC 15289 sections 10.18, 10.20, 10.79 in as tailored to meet the requirements of the SOW. 10.3.0-3 The SEMP must contain the following information, as it applies to Engineering: 10.3.0-3.0-1 Organisation 10.3.0-3.0-2 Roles and Responsibilities 10.3.0-3.0-3 Engineering Management processes 10.3.0-3.0-4 Engineering Processes 10.3.0-3.0-5 Review process 10.4 Specific Content 10.4.1 Organisation		

10.4.1.0-1 The SEMP must describe the Contractor's engineering organisation and that of any integral sub-contractors. The SEMP must clearly describe the relationship between the contractor and the Engineering organisations of any companies that the contractor may be teamed or partnered with.

10.4.2 Roles and Responsibilities

10.4.2.0-1 The SEMP must describe the roles and responsibilities of all groups in the engineering process and the relationship between the Contractor and sub-contractors. The SEMP must detail the Engineering Section's internal operating relationships within the company including integration with the overall Project Management Organization, and the external operating relationships with subcontractors, for the Contract.

10.4.3 Engineering Management

10.4.3.0-1 The SEMP must describe the contractor's tools and processes for managing the engineering work to ensure the engineering work is conducted in accordance with the plan.

10.4.4 Engineering Processes

10.4.4.0-1 The SEMP must describe how the Contractor will perform the activities (process descriptions) for the Engineering Work requirements specified in the SOW. Specifically the SEMP must define the processes and standards to be used for each of the engineering service areas of the SOW:

- 10.4.4.0-1.0-1 Systems Engineering;
- 10.4.4.0-1.0-2 Human Factors Engineering (HFE);
- 10.4.4.0-1.0-3 Hardware Engineering;
- 10.4.4.0-1.0-4 Software Engineering;
- 10.4.4.0-1.0-5 Speciality Engineering, including Testing, Reliability and Maintainability (RAM), Electromagnetic Compatibility (EMC), and Security; and
- 10.4.4.0-1.0-6 Safety.

10.4.4.1 RAM Program

10.4.4.1.0-1 The SEMP must describe the Contractor's RAM Program for ISS. The RAM process must describe the activities to achieve the ISS Reliability, Maintainability, Built-In-Test (BIT) and Service Life performance requirements.

10.4.4.1.0-2 The RAM Program must cover:

- 10.4.4.1.0-2.0-1 hardware, software and firmware.
- 10.4.4.1.0-2.0-2 the full system life cycle

10.4.4.1.0-3 The RAM Program must identify any special RAM risks or issues associated with the contractor's solution, and describe the planned mitigation action.

10.4.4.1.0-4 The RAM process description must provide the following information for each activity:

- 10.4.4.1.0-4.0-1 describe the specific objective of the activity and rationale for selection;
- 10.4.4.1.0-4.0-2 describe how the activity will be conducted;
- 10.4.4.1.0-4.0-3 identify the specific product or outcome expected from the activity;
- 10.4.4.1.0-4.0-4 show how the activity fits into the overall program (i.e., schedule and dependencies); and
- 10.4.4.1.0-4.0-5 identify any standards (commercial, military and/or company) that will guide or govern the activity.

10.4.4.1.0-5 The RAM Program must also describe:

- 10.4.4.1.0-5.0-1 how the selected RAM activities will be integrated into the product design and

manufacturing processes; and

10.4.4.1.0-5.0-2 how the results of the RAM activities will be used to support other activities, such as logistics planning, supportability analysis, safety analysis, etc.

10.4.4.1.0-5.0-3 For non-developmental or COTS products making up part or all of the system, the RAM Program for these products can be limited to the design and validation of any integration or required modifications, plus assurances that the manufacturing process retains the inherent designed in RAM characteristics.

10.4.5 Reviews

10.4.5.0-1 The SEMP must describe the technical reviews the Contractor plans to conduct in support of the work of the SOW. The description of the various technical reviews must include detailed descriptions of the review methodologies, entry criteria, review tasks and exit criteria, for each specific review.

10.4.6 Performance Measurement

10.4.6.0-1 The Contractor must describe the proposed Engineering Performance Measures and the associated Measurement and Analysis process.

3 LOGISTIC SUPPORT

3.1 DID LS-101 Supplementary Provisioning Technical Data (SPTD)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Supplementary Provisioning Technical Data (SPTD)	2 Data Item Number LS-101	
3 Description / Purpose 3.0-1 Data is required to uniquely identify, for cataloguing purposes, each item in each provisioning list (that has not already been assigned a NATO Stock Number).		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The SPTD must include sufficient data to clearly define each item for cataloguing. 10.0-2 The SPTD must include: 10.0-2.0-1 Item Name; 10.0-2.0-2 Reference (Manufacturer's Part) No.; and 10.0-2.0-3 CAGE Code. 10.0-3 The SPTD must include, as applicable: 10.0-3.0-1 Configuration - drawing of item; assembly, wiring or schematic drawing; illustrated parts list; 10.0-3.0-2 Technical specification, including relevant standards; 10.0-3.0-3 Physical characteristics, such as dimensions, tolerances, materials, mandatory processes, surface finish, protective coating; 10.0-3.0-4 Electrical characteristics; 10.0-3.0-5 Performance data, including the environmental and operating conditions under which the item must perform; 10.0-3.0-6 Mounting requirements (if any); 10.0-3.0-7 Special features which contribute to the uniqueness of the item; and 10.0-3.0-8 Commercial catalogue data. 10.0-4 The SPTD must be sequenced in the same order as the provisioning list that it supplements. 10.0-5 The SPTD must include identification of any limitations on the use or publication of any data provided.		

3.2 DID LS-102 Obsolescence Management Candidates List (OMCL)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Obsolescence Management Candidates List (OMCL)	2 Data Item Number LS-102	
3 Description / Purpose 3.0-1 The Obsolescence Management Candidates List must specify the ISS-S components that are considered to be critical to the availability or serviceability of the suite, and if no longer available, would cause a mission failure.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The Obsolescence Management Candidates List must specify the ISS-S components that are most at risk of becoming obsolete, are considered to be critical to the availability or serviceability of the suite, or if no longer available, would cause a mission failure. 10.0-2 The Obsolescence Management Candidates List must be prepared in Contractor's format. As a minimum, the following information must be provided for each part on the Obsolescence Management Candidates List: 10.0-2.0-1 NATO Stock Number; 10.0-2.0-2 Part Number; 10.0-2.0-3 Nomenclature; 10.0-2.0-4 Manufacturer; and 10.0-2.0-5 Any other information that is deemed to be critical to the identification of the part. 10.0-3 The Technical Authority must approve the Obsolescence Management Candidates List.		

3.3 DID LS-103 Obsolescence Management Issues Report (OMIR)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Obsolescence Management Issues Report (OMIR)	2 Data Item Number LS-103	
3 Description / Purpose 3.0-1 The Obsolescence Management Issues Report must outline the specifics of a pending issue for those LRUs or component parts that represent the most significant risk in terms of obsolescence.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The Contractor must deliver an Obsolescence Management Issues Report prepared in the Contractor's format. The OM Issues Report must outline the specifics of pending issues for those LRUs or component parts that represent the most significant risk in terms of obsolescence. The OM Issues Report must be delivered to the Technical Authority on occurrence and will provide supporting data and recommendations as follows: 10.0-1.0-1 A detailed description of the industry development leading to the obsolescence and the impact this will have on the ISS-S supportability; 10.0-1.0-2 In most cases, a minimum of three (3) options, as outlined below, and their analysis will be considered. When the Contractor considers that Option 1 or Option 2 is the best option and that Option 3 would require considerable effort to develop or would cause unnecessary delay in the submission of the OM Issues Report, the Contractor must submit only Option 1 and Option 2 with the initial OM Issues Report. Option 3 will be implemented as and when required by the Technical Authority. The analysis must include, as appropriate, for each option, the impact on support equipment, the impact on ILS elements, the upgrade requirements for LSAR, the impact to spares and R&O (if applicable), and an estimated cost of each option. The three (3) options for the analysis are: 10.0-1.0-2.0-1 A life-time buy or a buy for a specified duration of support; 10.0-1.0-2.0-2 A new source for the item; and 10.0-1.0-2.0-3 Redesign or replace the obsolete item with a similar or enhance item. 10.0-1.0-3 The impact of the obsolescence on enhancements to the system under study; 10.0-1.0-4 The time by which the decision is imperative; and 10.0-1.0-5 The Contractor's recommendation.		

3.4 DID LS-104 ISS Spares Catalogue

DATA ITEM DESCRIPTION		DND Form 1409
1 Title ISS Spares Catalogue	2 Data Item Number LS-104	
3 Description / Purpose 3.0-1 This data is required to assist in the identification of spare parts and support equipment to facilitate the ordering of replacements.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 This publication, prepared in the Contractor's format, must include for each item used by DND (including Prime equipment, spares, electronic components, support equipment, training equipment, STTE and GFE) the following: 10.0-1.0-1 Identification photo; 10.0-1.0-2 NATO Stock Number; 10.0-1.0-3 Nomenclature; 10.0-1.0-4 Application; and 10.0-1.0-5 Unit Price. 10.0-2 This data is to be delivered in a standard Microsoft Office electronic format.		

3.5 DID LS-105 Repair and Overhaul Candidates List

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Repair and Overhaul Candidates List	2 Data Item Number LS-105	
3 Description / Purpose 3.0-1 This data is required to provide R&O planning information for each item requiring R&O, as soon as this information is known.		
4 Approval Date N/A	5 Office of Primary Interest (OPI) PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 This Report must provide the following data on each item requiring Repair and Overhaul: 10.0-1.0-1 Item Number (unique sequence no. for each item); 10.0-1.0-2 Item Name (DED 182); 10.0-1.0-3 Reference (Manufacturer's Part) Number (DED 337); 10.0-1.0-4 NSCM/CAGE Code (DED 046); and 10.0-1.0-5 NATO Stock Number (if available) (DED 253). 10.0-2 For each item requiring Repair and Overhaul, provide a Technical Data List identifying the technical data needed by the Repair and Overhaul facility. These data may include, for example, overhaul task descriptions, repair schemes, test procedures and instructions on modifications to be incorporated. 10.0-3 Where a repair and overhaul capability must be established, the estimated cost of doing so. 10.0-4 All items identified as R&O Candidates, must be summarized in an R&O Candidates List prepared in the Contractors format.		

3.6 DID LS-106 Support System Alternatives Study

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Support System Alternatives Study		2 Data Item Number LS-106
3 Description / Purpose 3.0-1 Data is required to provide an early recommendation of a support method that achieves supportability requirements at minimal cost.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP ILSM		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 This Study must include: <ul style="list-style-type: none"> 10.0-1.0-1 Introduction <ul style="list-style-type: none"> 10.0-1.0-1.0-1 Purpose 10.0-1.0-1.0-2 Applicable References 10.0-1.0-1.0-3 Updating Process 10.0-1.0-1.0-4 Definitions and Acronyms 10.0-1.0-2 Conduct of the Study <ul style="list-style-type: none"> 10.0-1.0-2.0-1 Study Method 10.0-1.0-2.0-2 Support Options Considered 10.0-1.0-3 Equipment/System Functions <ul style="list-style-type: none"> 10.0-1.0-3.0-1 Identify the functions performed by the equipment/system and the consequence of their failure. 10.0-1.0-4 Assessment of Support Options <ul style="list-style-type: none"> 10.0-1.0-4.0-1 Discuss each support option considered, assessing its feasibility, effectiveness and cost. 10.0-1.0-4.0-2 Identify the personnel implications of each support option considered. 10.0-1.0-4.0-3 Closely examine implications of requiring Automatic Test Equipment. 10.0-1.0-5 Conclusions and Recommendations <ul style="list-style-type: none"> 10.0-1.0-5.0-1 Conclusions 10.0-1.0-5.0-2 Recommendations 		

3.7 DID LS-107 Reliability/Trend Analysis Reports

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Reliability/Trend Analysis Reports	2 Data Item Number LS-107	
3 Description / Purpose 3.0-1 The Contractor must prepare and deliver Reliability/Trend Analysis Reports to update the Technical Authority on ISS-S management data and R&O repair analysis to identify failure trends that require investigation.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 MIL-HDBK-338B		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The Contractor must review engineering, technical and maintenance data and provide Reliability/Trend Analysis Reports. Reliability/Trend Analysis Reports must include the effects on hardware and software and must be prepared using MIL-HDBK-338B as a guide. 10.0-2 The Reliability/Trend Analysis Report must be produced in Contractor's format and must contain, as a minimum, the following: 10.0-2.0-1 Identification of equipment affected; 10.0-2.0-2 Reliability and maintainability analysis and prediction; 10.0-2.0-3 Hardware failure mode and effects analysis; 10.0-2.0-4 All references and assumptions used in the report; and 10.0-2.0-5 Conclusions and recommendations resulting from the Report. 10.0-3 A Trend Analysis Report must be produced in Contractor's format and may contain any information considered by the Contractor to be pertinent to the life-cycle support of ISS-S. The information may be drawn from any portion of the Work, including that provided by subcontractors. The report must contain, as a minimum, the following: 10.0-3.0-1 Identification of equipment affected; 10.0-3.0-2 All references and assumptions used in the report; and 10.0-3.0-3 Conclusions and recommendations resulting from the report.		

3.8 DID LS-108 Failure Modes, Effects and Criticality Analysis (FMECA)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Failure Modes, Effects and Criticality Analysis (FMECA)	2 Data Item Number LS-108	
3 Description / Purpose 3.0-1 This data is required to provide FMEA, DMEA, Criticality Analysis and RCMA data. These data may be submitted/accessed in electronic media.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 Provide access to and (if requested) electronic file transfer of failure analysis data in the following areas (as applicable): 10.0-2 Header Information 10.0-2.0-1 LSA Control Number (DED 199); 10.0-2.0-2 Item Name (DED 182); 10.0-2.0-3 Parent Equipment/System (also DED 182); 10.0-2.0-4 Part Failure Rate (DED 140); 10.0-2.0-5 Mission Phase Code; 10.0-2.0-6 Mission Phase/Operational Mode; 10.0-2.0-7 Failure Detection Method; 10.0-2.0-8 Compensating Design Provisions; and 10.0-2.0-9 Compensating Operating Action Provisions. 10.0-3 Failure Modes and Effects Analysis (FMEA)/ Damage Modes and Effects Analysis (DMEA) 10.0-3.0-1 Function (a sequence number); 10.0-3.0-2 Function Failure (a sequence number); 10.0-3.0-3 Failure Mode Indicator (failure mode or damage mode; mode description) (DED 134); 10.0-3.0-4 Failure Mode Ratio (DED 136); 10.0-3.0-5 Engineering Failure Mode Mean Time Between Failure (DED 097); and 10.0-3.0-6 Safety Hazard Severity Code (from catastrophic to minor) (DED 362). 10.0-3.0-7 Failure/Damage Mode; 10.0-3.0-8 Failure Cause; 10.0-3.0-9 Failure/Damage Effects (Local, Next Higher, End); 10.0-3.0-10 Failure Mode Classification (technical vs. operational); 10.0-4 Criticality Analysis: 10.0-4.0-1 Failure Mode Criticality Number (DED 133); 10.0-4.0-2 Part Failure Rate (DED 140); 10.0-4.0-3 Failure Mode Ratio (DED 136); 10.0-4.0-4 Failure Effect Probability (DED 130);		

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10.0-4.0-5 Operating Time (DED 269); and
10.0-4.0-6 Item Criticality Number (DED 178).
10.0-5 Reliability Centered Maintenance Analysis (RCMA)
10.0-5.0-1 RCM Logic Results;
10.0-5.0-2 RCM Disposition;
10.0-5.0-3 Task Code (427);
10.0-5.0-4 Task Type (433);
10.0-5.0-5 Maintenance Interval (208); and
10.0-5.0-6 Maintenance Interval Base (238).

3.9 DID LS-109 Technical Publications

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Technical Publications		2 Data Item Number LS-109
3 Description / Purpose 3.0-1 Data is required to provide the data needed to identify, procure and manage Technical Publications.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Technical Publications must conform to the following standards and specifications, as per the requirements below: 7.0-1.0-1 C-01-100-100/AG-005 Acceptance of Commercial and Foreign Government Publications as Adopted Publications 7.0-1.0-2 C-01-100-100/AG-006 Specification - Writing, Format and Production of Technical Publications 7.0-1.0-3 A-LM-505-010/JS-001 Material Management Instruction - Official Languages Requirements for Technical Documentation 7.0-1.0-4 ISO 9660 Information Processing - Volume and File Structure of CDROM for Information Interchange 7.0-2 The Technical Publications are referenced in the Maintenance Plan.		
8 Originator PMO ISSP ILSM		9 Applicable Forms The Contractor must complete the following forms: DND 590, 591 and 642.
10 Preparation Instructions 10.1 ISS-S Quick Reference Guide (QRG) / (English and French Versions) 10.1.0-1 The ISS-S QRG (separate English and French versions) must present an integrated overview of the ISS-S as a brief, complete, and compact guide in the form of a memory aide. 10.1.0-2 It is to be used after initial training, and must describe and illustrate the set-up and operation of the equipment, including basic troubleshooting. 10.1.0-3 The QRG must be weatherproof as it is intended for field use. 10.1.1 Format 10.1.1.0-1 The QRG must be made with a light grey background with a non-reflective finish. The QRG will be used under various field conditions, which must be taken into account when selecting materials. 10.1.1.0-2 The QRG must be relatively small in size, approximately (18 cm wide x 20 cm high x 1 cm deep) in terms of dimensions as it is meant to be carried on the soldier when in the field. 10.1.2 Content 10.1.2.0-1 The QRG must summarize, through text and illustrations, the mounting, set-up, operation and basic maintenance (troubleshooting) of the ISS-S. 10.1.2.0-2 The QRG must make reference to the ISS-S User Manual (UM) as the main reference for further details concerning the operation, maintenance, and systems management for the system. 10.1.2.0-3 The QRG must summarize EHS issues, including basic procedures for handling and disposing of such materials.		

10.2 ISS-S User Manual (UM)

10.2.0-1 The UM must cover all ISS-S being procured and provide detailed information associated with the operation, care and maintenance, storage as well as personnel and equipment safety.

10.2.1 Format

10.2.1.0-1 The UM must be bilingual English and French.

10.2.1.0-2 The English and French versions must be back to back and upside down to each other so that the one side begins with the English version and the other side begins with the French version.

10.2.1.0-3 The manual must have three hard covers:

10.2.1.0-3.0-1 The top (title) page of the manual must represent the cover (top) page of the English version of the manual;

10.2.1.0-3.0-2 The second hard cover must be a different colour from the top cover and must act as the divider of the English and French versions. This hard cover page must follow immediately after the content (last page) of the English version; and

10.2.1.0-3.0-3 The third hard cover must be the top (title) page of the French version.

10.2.1.0-4 The English and French cover sheets must bear the following:

10.2.1.0-4.0-1 DND document configuration number (to be provided by Canada) on the top right hand corner;

10.2.1.0-4.0-2 Picture of the applicable equipment;

10.2.1.0-4.0-3 Document title;

10.2.1.0-4.0-4 Item name (e.g. Basic ISS-S) and nomenclature;

10.2.1.0-4.0-5 NSN; and

10.2.1.0-4.0-6 Version Date.

10.2.2 Content

10.2.2.0-1 The UM must cover all aspects associated with the operation, care and maintenance, storage as well as personnel and equipment safety of the ISS-S. As a minimum, the UM must address the following:

10.2.2.0-1.0-1 Brief technical description;

10.2.2.0-1.0-2 Data summary (e.g. specifications for the ISS-S and LRUs, if applicable);

10.2.2.0-1.0-3 ISS-S set-up and mounting procedures;

10.2.2.0-1.0-4 Description of controls;

10.2.2.0-1.0-5 Pre-use testing or inspection;

10.2.2.0-1.0-6 Operating procedures;

10.2.2.0-1.0-7 User maintenance and care, including user preventive maintenance, limited corrective maintenance and consumable replacements;

10.2.2.0-1.0-8 Basic diagnosis and/or fault finding;

10.2.2.0-1.0-9 Storage;

10.2.2.0-1.0-10 Safety, including personnel and equipment;

10.2.2.0-1.0-11 Hazardous material issues associated with the operation and care of the ISS-S, including the required procedures for handling and disposing of such materials;

10.2.2.0-1.0-12 Tools used for User maintenance; and

10.2.2.0-1.0-13 References to Technical Manual(s) (i.e. OEM COTS/Military Off The Shelf (MOTS) pubs required to do in-depth corrective maintenance).

10.2.2.0-2 The UM must be organized in the following manner:

10.2.2.0-2.0-1 The initial front sheets must contain:

10.2.2.0-2.0-1.0-1 Summation of all WARNING text contained in the document;

10.2.2.0-2.0-1.0-2 Summation of all CAUTION text contained in the document;
10.2.2.0-2.0-1.0-3 "Safety Data" table containing a summation of all safety related issues;
10.2.2.0-2.0-1.0-4 Table of Contents;
10.2.2.0-2.0-1.0-5 List of Figures;
10.2.2.0-2.0-1.0-6 List of Tables; and
10.2.2.0-2.0-1.0-7 How To Use This Manual (general description of the manual organization etc.).

10.2.2.0-2.0-2 Chapter 1 General Information

10.2.2.0-2.0-2.0-1 This chapter must include the following:
10.2.2.0-2.0-2.0-1.0-1 Equipment name and model numbers;
10.2.2.0-2.0-2.0-1.0-2 Purpose of equipment;
10.2.2.0-2.0-2.0-1.0-3 Manufacturer;
10.2.2.0-2.0-2.0-1.0-4 Nomenclature cross reference table (if required);
10.2.2.0-2.0-2.0-1.0-5 List of abbreviations; and
10.2.2.0-2.0-2.0-1.0-6 Picture of figure of the ISS-S.

10.2.2.0-2.0-3 Chapter 2 Equipment Description

10.2.2.0-2.0-3.0-1 This chapter must include the following:
10.2.2.0-2.0-3.0-1.0-1 General Characteristics: weight, dimensions, size, performance etc.; and
10.2.2.0-2.0-3.0-1.0-2 Description of ISS-S components: insert a picture of the ISS-S with a table and an itemized listing of all components contents cross-referenced with the photo contents. Each itemized item must then be described at a high level.

10.2.2.0-2.0-4 Chapter 3 Operating Instructions

10.2.2.0-2.0-4.0-1 This chapter must include the following:
10.2.2.0-2.0-4.0-1.0-1 Operating instructions for the various contents that comprise the ISS-S;
10.2.2.0-2.0-4.0-1.0-2 Tables showing operating modes vis-à-vis applicable equipment settings and remarks; and
10.2.2.0-2.0-4.0-1.0-3 Figures or photos to aid with the operation description (when necessary).

10.2.2.0-2.0-5 Chapter 4 Equipment Set-Up and Interconnection Procedures

10.2.2.0-2.0-5.0-1 This chapter must include the following:
10.2.2.0-2.0-5.0-1.0-1 Details of how equipment is to be assembled/mounted for use for all configurations; and
10.2.2.0-2.0-5.0-1.0-2 Figures or photos to aid in procedure description (when necessary).

10.2.2.0-2.0-6 Chapter 5 ISS-S Troubleshooting Procedures

10.2.2.0-2.0-7 Chapter 6 ISS-S User Maintenance and Cleaning

10.2.2.0-2.0-8 Removal and Installation of Parts

10.2.2.0-2.0-9 Index

10.3 Technical Manuals

10.3.0-1 In order to minimize cost, the Contractor must make use of existing commercial or foreign government COTS/MOTS technical manual(s) for the specific sub-systems or component that make up the ISS-S. The Contractor must link the technical manual(s) to the UM.

10.3.0-2 All technical publications provided as existing commercial or foreign government off-the-

shelf manuals must be in both English and French, in one of the following formats: two (2) columns, facing pages or separate publication issues. They must meet the requirements of the current issue of C-01-100-100/AG-005.

10.3.0-3 If either the English or the French version is not available, the Contractor is responsible to translate into the second language and provide in commercial format. The contractor must certify that the technical content of the translated version is technically accurate. Certificates must be provided to this effect.

10.3.0-4 The rights that the Crown / DND has been granted under the Terms and Conditions of the applicable contract must be clearly marked on the front matter of the Publication.

10.4 Newly written DND Manuals

10.4.0-1 All new publications must be produced in both English and French.

10.4.0-2 The selected format must be in accordance with the current issue of C-01-100-100/AG-006. The contractor must certify that the technical content of the translated version is technically accurate.

10.4.0-3 The Contractor must validate the final English version of the Canadian Forces Technical Orders (CFTOs) for technical accuracy, appropriate security classification/designation and health and safety related issues (HAZMAT, WHMIS etc.).

10.4.0-4 The validated English language manuals must be available for Initial Cadre Training (ICT).

10.5 Delivery

10.5.0-1 A QRG must be issued with each ISS-S.

10.5.0-2 A UM must be issued with each ISS-S.

10.5.0-3 Technical manual(s) required to do advanced maintenance must be issued to maintenance facilities.

10.5.0-4 For each final publication produced or amended the Contractor must provide master read only files. Using the completed Master Document file(s), the Contractor must provide a Portable Document Format (PDF) file that must contain the complete publication (with changes incorporated as applicable). This file(s) is considered the "Master Read Only" file for printing/reproduction/viewing purposes. All pages contained in the PDF file must be oriented such that they do not require rotation when viewing. This file must contain "thumbnails" of each of the pages. The Master Read Only File is not a replacement for the Master Document files or the Master Image files. The Contractor must ensure that a quality check is done on the Read Only (PDF) file to verify that the content reflects the same content/formatting as the Master Document file and the Reproducible copy. The requirements for hyperlinks within the Read Only File must be specified on the individual task or tasks. In the case of changes, a second PDF file that contains only the changed sheets is also required.

10.5.0-5 The Contractor must provide the electronic files on CD-ROM written in accordance with ISO 9660. Files must not be compressed or zipped other than as specified herein. The CD-ROM must be clearly labelled with the NDID number, publication title, corresponding file number(s) and type, Contract number and task or requisition number.

10.5.0-6 Where applicable, the electronic files and hard copy technical publications must be delivered simultaneously.

10.5.0-7 For the English draft and the English Validated manuals, the Contractor must provide a soft copy in either MS Word or PDF format.

10.6 Official Languages

10.6.0-1 All bilingual technical publications must meet the official language requirements following the guidelines of A-LM-505-010/JS-001, Official Languages Requirements for Technical Documentation. All changes to bilingual publications must be translated and issued simultaneously.

10.6.0-2 The language quality of the translation must be consistent with and equivalent to the source text and must be suited to the typical user/technician's ability in the language (Refer to C-01-100-100/AG-006).

10.6.0-3 The Contractor must subject all translated material to the Translation Accuracy Check (TAC) process prior to the production of reproducible copy.

10.6.0-4 TAC must be carried out at the Contractor's facility.

10.6.0-5 The Contractor must be responsible for TAC when signing the Certificate of TAC, certifying the accuracy of the translated text.

10.7 Certificates

10.7.0-1 Technical Publications must be accompanied by the following Certificates of Compliance (refer to C-01-100-100/AG-006, part 12, section 2):

10.7.0-1.0-1 Validation (DND 590) for submission to the TA;

10.7.0-1.0-2 TAC;

10.7.0-1.0-3 Reproducible Copy (DND 642); and

10.7.0-1.0-4 Compliance (DND 591).

10.8 Cover Page

10.8.0-1 The Contractor must insert a CFTO cover page on all publications whether existing, revised or new.

4 CONFIGURATION MANAGEMENT

4.1 DID CM-101 Configuration Management Plan (CMP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Configuration Management Plan (CMP)	2 Data Item Number CM-101	
3 Description / Purpose 3.0-1 The Contractor's CMP describes the Contractor's CM program, how it is organized, how it will be conducted, and the methods, procedures and controls used to assure effective configuration identification, change control, status accounting, and audits of the total configuration, including hardware, software and firmware. The principal purpose is to provide the Crown a basis for review, evaluation, and monitoring of the CM program and its proposed components.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The CMP conforms to the following standards: 7.0-1.0-1 DND Standard D-01-002-007/SG-001 Part 5 - Requirements for the preparation of CMPs 7.0-1.0-2 MIL-STD-973 Configuration Management 7.0-1.0-3 ANSI/EIA 649A National Consensus Standard for CM		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The CMP must provide in one document all policies, procedures, organizational descriptions and scheduled events relating to CM. It must describe the configuration item (CI) or CIs to which it refers, the procedures for CM application, all CM tasks, CM participants and their roles. 10.0-2 The Contractor must continually update (maintain) it's CMP throughout the life of the contract. 10.0-3 The CMP must be prepared in the Contractor's format and must contain the following information. 10.1 Title Page 10.1.0-1 The document must include a title page containing, as applicable: document number; volume number; version/revision indicator; security markings or other restrictions on the handling of the document; date; document title; name, abbreviation, and any other identifier for the system, subsystem, or item to which the document applies; Contract number; CDRL item number; organization for which the document has been prepared; name and address of the preparing organization; and distribution statement. For data in a database or other alternative form, this information must be included on external and internal labels or by equivalent identification methods. 10.2 Record of reviews and history 10.3 Table of Contents 10.3.0-1 The document must contain a table of contents providing the number, title, and page number of each titled paragraph, figure, table, and appendix. For data in a database or other		

alternative form, this information must consist of an internal or external table of contents containing pointers to, or instructions for accessing, each paragraph, figure, table, and appendix or their equivalents.

10.4 Section 1 - Introduction

10.4.0-1 Purpose and Scope

10.4.0-2 Description of the Configuration Items (CIs)

10.4.0-3 Special Features

10.4.0-3.0-1 Underlying assumptions

10.4.0-3.0-2 Strategy

10.4.0-4 Policies and Standards related to CM

10.4.0-5 Reference Documents

10.4.0-6 Definitions

10.4.0-7 Milestones

10.5 Section 2 - Organization

10.5.0-1 Project management structure

10.5.0-2 CM structure

10.5.0-2.0-1 CM personnel and respective responsibilities

10.5.0-2.0-2 Configuration control board; composition and duties/responsibilities

10.5.0-3 Subcontractor/vendor control;

10.6 Section 3 - Configuration Management Procedures

10.6-1 Configuration identification

10.6-1.0-1 CIs

10.6-1.0-2 Engineering release system

10.6-1.0-3 Engineering release record

10.6-1.0-4 Nomenclature

10.6-1.0-5 Documentation numbering

10.6-1.0-6 Hardware identification

10.6-1.0-7 Firmware identification

10.6-1.0-8 Software identification

10.6-1.0-8.0-1 Developmental configuration identification

10.6-1.0-9 Non-developmental item and commercial off-the-shelf

10.6-1.0-10 Functional baseline (FBL)

10.6-1.0-11 Allocated baseline (ABL)

10.6-1.0-12 Product baseline

10.6-2 Configuration control

10.6-2.0-1 Procedures

10.6-3 Configuration status accounting (CSA)

10.6-3.0-1 CSA capabilities

10.6-3.0-2 Database description

10.6-3.0-3 Database procedures

10.6-3.0-4 Reporting

10.6-4 Configuration audits

10.7 Section 4 - Technical Reviews

10.8 Section 5 - Interface management

10.8.0-1 Documentation

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10.8.0-2 Interface Control

10.9 Section 6 - Technical Data Management

10.9.0-1 TDMP

10.9.0-2 EIE

10.10 Section 7 - Acquisition to OWSS Handover

10.10.0-1 Transition of CM Responsibilities

10.10.0-2 Transfer of Information

10.10.0-3 Transition Plan

4.2 DID CM-102 Engineering Change Proposal (ECP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Engineering Change Proposal (ECP)	2 Data Item Number CM-102	
3 Description / Purpose 3.0-1 Contractor request for authorization to make changes to the approved product baseline.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The ECP must conform to Mil-Std-973 Appendix D.		
8 Originator PMO ISSP CM	9 Applicable Forms Figure 6 to Annex CC, Appendix 2	
10 Preparation Instructions 10.0-1 ECP must be provided using the ECP Template provided with this DID. 10.0-2 The ECP must fully describe and substantiate the engineering change required. 10.1 ECP Template Field Descriptions 10.1.1 DATE 10.1.1.0-1 (YY/MM/DD). Enter the submittal date of the ECP. 10.1.2 PROCURING ACTIVITY 10.1.2.0-1 Project Code. 10.1.3 Block 1 10.1.3.0-1 ORIGINATOR NAME AND ADDRESS. Enter name, address and contact information for Contractor authority submitting the ECP. 10.1.4 Block 2 10.1.4.0-1 CLASS OF ECP. Enter the class of ECP either "Class I" or "Class II". Classifications of changes are determined in accordance with referenced paragraphs in Mil-Std-973: 10.1.4.0-1.0-1 Class I: Subject to Government Approval (Para. 5.4.2.2.1.). 10.1.4.0-1.0-2 Class II: Subject to Government Approval for Classification Only (Para. 5.4.2.4.). Info copy of completed Class II change provided to Canada. 10.1.5 Block 3 10.1.5.0-1 JUSTIFICATION CODE. (Reference Mil-Std-973) 10.1.5.0-1.0-1 B - Interface 10.1.5.0-1.0-2 C - Compatibility 10.1.5.0-1.0-3 D - Deficiency 10.1.5.0-1.0-4 O - Operational or Logistics Support 10.1.5.0-1.0-5 P - Production Stoppage 10.1.5.0-1.0-6 R - Cost Reduction 10.1.5.0-1.0-7 S - Safety 10.1.5.0-1.0-8 V - Value Engineering 10.1.6 Block 4 10.1.6.0-1 PRIORITY. Contractor recommendation for processing: 10.1.6.0-1.0-1 E - Emergency. Vital modification required to rectify a condition which may result in a serious hazard to personnel or equipment, or may seriously compromise national security. ECP to be actioned within 24 hours.		

10.1.6.0-1.0-2 U - Urgent. Urgent modification required to rectify a condition that results in degraded mission effectiveness. ECP to be actioned within 5 days.

10.1.6.0-1.0-3 R - Routine. ECP to be actioned within 30 days.

10.1.7 Block 5

10.1.7.0-1 ECP DESIGNATION. Model/Type. - Enter model or type designation of the CI for which this proposal is being filled out. For CSCIs enter the CSCI identification number.

10.1.7.0-2 CAGE Code. - CAGE Code for the activity originating the ECP.

10.1.7.0-3 System Designation. - The system or the top-level CI designation or nomenclature assigned by DND if known.

10.1.7.0-4 ECP No. - Format "ECP-Y-NNN"

10.1.7.0-4.0-1 Y - C (Contractor) or P (Project Office - Canada) indicating Originator

10.1.7.0-4.0-2 NNN - Serial number unique for each change

10.1.7.0-5 Type - P (Preliminary) or F (Formal)

10.1.7.0-6 Rev - Enter revision indicator to identify version

10.1.8 Block 6

10.1.8.0-1 BASELINE AFFECTED. Place an "X" in the box(es) according to the baseline(s) affected.

10.1.9 Block 7

10.1.9.0-1 OTHER SYS. CONFIG. ITEMS AFFECTED. Enter an "X" in the "yes" or "no" box as applicable to indicate whether there is an effect on other systems or CIs which will require the submittal of related Class I ECPs. Supply details in Blocks 25 and 27.

10.1.10 Block 8

10.1.10.0-1 SPECIFICATIONS AFFECTED. If specifications cited in the contract are affected by the ECP, their identity by the CAGE code of the design activity, document number, revision letter, and the Specification Change Notice (SCN) (or Notice of Revision (NOR)) number of the SCN (or NOR) being submitted with the ECP, must be entered.

10.1.11 Block 9

10.1.11.0-1 DRAWINGS AFFECTED. List all drawings or documents affected by the change. Copies of the drawings showing proposed changes must be submitted with the ECP in order to assess the impact of the change. Attach separate list as required.

10.1.12 Block 10

10.1.12.0-1 TITLE OF CHANGE. Enter a brief title to identify the component or system affected by the change. Include the WEAPON SYSTEM CODE OR DESIGNATION in block 10.a.

10.1.13 Block 11

10.1.13.0-1 CONTRACT No. AND LINE ITEM(S). Insert the contract number and identify reference areas of the contract, annexes, appendices and attachments, line item numbers etc., affected by the change.

10.1.14 Block 12

10.1.14.0-1 PROCURING CONTRACTING OFFICER. Enter the procuring contracting officer's name, code and telephone number applicable to the CI shown in block 13.

10.1.15 Block 13

10.1.15.0-1 CONFIGURATION ITEM NOMENCLATURE. Enter the Government assigned name and type designation, CSCI name and number if applicable, or authorized name and number of the CI(s) affected by the ECP.

10.1.16 Block 14

10.1.16.0-1 IN PRODUCTION. The "yes" box must be marked if deliveries have not been completed on the contract (s). The "no" box must be marked if the deliveries have been completed. This block is not

always applicable to software. If not applicable, so indicate.

10.1.17 Block 15

10.1.17.0-1 LOWEST ASSEMBLY AFFECTED. For hardware, an appropriate complete descriptive name of the CI must be given here without resorting to such terms as “Numerous bits and pieces”. The part number must also be entered. Additionally, applicable NSNs must be entered.

10.1.17.0-2 For CSCIs, enter the name and identifier of each lower level CI and computer software unit affected.

10.1.18 Block 16

10.1.18.0-1 DESCRIPTION OF CHANGE. The description of the proposed change must include the purpose and must be given in sufficient detail to adequately describe what is to be accomplished. It must be phrased in definitive language such that, if it is repeated in the contractual document authorizing the change, it will provide the authorization desired. A description as to which part of the item or system is being changed must be provided. Supplemental drawings and sketches must be provided to the extent necessary to clearly portray the proposed change. If the proposed change is an interim solution, it must be so stated. If additional space is needed, use continuation pages for details but provide an overview in this block. Information must be included as to whether the revision is a resubmission, replacing the existing ECP in its entirety, or provides change pages to the existing ECP.

10.1.19 Block 17

10.1.19.0-1 NEED FOR CHANGE. Provide an explanation of the need for the change and indicated the benefit to Canada (enhanced performance, range, reliability, maintainability, etc). The nature of the defect, failure, incident, malfunction, etc. substantiating the need for the change must be provided in detail.

10.1.20 Block 18

10.1.20.0-1 PRODUCTION EFFECTIVITY BY SERIAL NUMBER. For hardware, indicate the estimated date of when change will be incorporated on the production line. Also indicate the planned serial number or lot number of when the change will be implemented.

10.1.20.0-2 For CSCIs, identify the CSCI version number into which the change will be incorporated. Where applicable, the effectivity of the end item CI and vehicle (aircraft, tank, ship, etc.) into which the capability represented by the new version of the software is proposed to be incorporated must also be provided. If the impact of the ECP merits the release of a new software version, Block 18 of the ECP submittal must include a recommendation to this effect. Serial numbers may be used in lieu of version numbers if approved by the appropriate TA.

10.1.21 Block 19

10.1.21.0-1 EFFECT ON PRODUCTION DELIVERY SCHEDULE. Indicated the production delivery schedule for items incorporating the change and identify if the change is a variance from the current established production and delivery schedule. If there will be no effect on the delivery schedule, so state.

10.1.22 Block 20

10.1.22.0-1 RETROFIT. Applicable when the change must be accomplished in accepted items by retrofit.

10.1.22.0-1.0-1 a. RECOMMENDED ITEM EFFECTIVITY. Indicate the lot numbers or serial numbers of the item(s) to be retrofitted as a result of the change.

10.1.22.0-1.0-2 b. SHIP/VEHICLE CLASS AFFECTED. When the delivered CI is installed in one or more ship/vehicle classes, enter the identification of such classes. Not applicable when ECP Short Form procedure is specified by contract.

10.1.22.0-1.0-3 c. ESTIMATED KIT DELIVERY SCHEDULE. State estimated kit delivery schedule by quantity and date. When special tooling for retrofit is required for Government use, reference an enclosure in Block 20.b on which is specified the dates of availability of tools, jigs, and test equipment

required in conjunction with the kits to accomplish the change.

10.1.22.0-1.0-4 d. LOCATIONS OR SHIP/VEHICLE NUMBERS AFFECTED. State the location(s) at which retrofit is to be accomplished. If retrofit is to be accomplished in ships (or in vehicles for which the serial numbers are not shown in Block 23), enter the ship hull numbers (or vehicle numbers). Not applicable when ECP Short Form procedure is specified by contract.

10.1.22.0-1.0-5 e. For CSCI'S, this block must apply if the change is part of a hardware or equipment change and implementation of the CSCI change is per a hardware retrofit schedule, or the fielded version of the software is to be replaced. If the CSCI change is part of a larger hardware or equipment change and incorporation of the CSCI change is per a hardware retrofit schedule, that information will be included here either directly or by reference.

10.1.23 Block 21

10.1.23.0-1 ESTIMATED COSTS/SAVINGS UNDER CONTRACT. Indicate the total estimated costs/savings of the ECP on the contract.

10.1.24 Block 22

10.1.24.0-1 ESTIMATED NET TOTAL COSTS/SAVINGS. Indicate the total estimated costs/savings impact on the basic and all related ECPs, including other costs/savings to the Government. Not applicable when ECP short form procedures are specified by contract.

10.1.25 Block 23

10.1.25.0-1 SUBMITTING ACTIVITY AUTHORIZED SIGNATURE. An authorized official of the activity entered in the PROCURING ACTIVITY Block must sign this block and provide title in Block 23b. This indicates the ECP has the official sanction of the submitting activity.

10.1.26 Block 24

10.1.26.0-1 This block is for use by the Government. [Note: The Contract Administration Office will review all engineering changes. It will recommend approval or disapproval of Class I ECPS by marking Block 24.a and completing Block 24.d. It will concur or not concur in the classification of Class II engineering changes by marking Block 24.c accordingly and by completing Block 24.d, e and f. When the Government requires approval of Class II engineering changes prior to contractor implementation, the designated approval activity will mark Block 24.b accordingly and will complete Block 24d. For Class I ECPS, the Government contracting officer will mark Block 24.g accordingly and will complete Blocks 24.h, i and j.

10.1.27 ECP (page 2 of 6)

10.1.27.0-1 EFFECTS ON FUNCTIONAL/ALLOCATED CONFIGURATION IDENTIFICATION. This page is to be completed only if the proposed change affects the system specification or the item development specification(s). If a separate product function specification is used, effects on such specification of changes proposed after the PBL has been established must be described either on Page 3 of the ECP form or on enclosures referenced thereon.

10.1.28 Block 25

10.1.28.0-1 OTHER SYSTEMS AFFECTED. Insert data if Block 7 is checked "yes".

10.1.29 Block 26

10.1.29.0-1 OTHER CONTRACTORS/ACTIVITIES AFFECTED. Identify other contractors or government activities which will be affected by this engineering change.

10.1.30 Block 27

10.1.30.0-1 CONFIGURATION ITEMS AFFECTED. Enter the names and numbers of all CIs, maintenance and operator training equipment, and support equipment affected.

10.1.31 Block 28

10.1.31.0-1 EFFECTS ON PERFORMANCE ALLOCATIONS AND INTERFACES IN SYSTEM SPECIFICATION. Describe the changes in performance allocations and in the functional/physical interfaces defined in the system specification.

10.1.32 Block 29

10.1.32.0-1 EFFECTS ON EMPLOYMENT, INTEGRATED LOGISTICS SUPPORT, TRAINING, OPERATIONAL EFFECTIVENESS OR SOFTWARE. For hardware, describe the effects of the proposed change on employment, deployment, logistics, and/or personnel and training requirements which have been specified in the approved system and/or CI specifications, including any changes or effects on the operability of the system. In particular, there must be an entry detailing any effect on interoperability.

10.1.32.0-2 For CSCIS, the following information must be entered as applicable to the degree of design development of the CSCI at the time of ECP submission:

10.1.32.0-2.0-1 Identify any required changes to the data base parameters or values, or to data base management procedures;

10.1.32.0-2.0-2 Identify and explain any anticipated effects of the proposed change on acceptable computer operating time and cycle-time utilization;

10.1.32.0-2.0-3 Provide an estimate of the net effect on computer software storage; and

10.1.32.0-2.0-4 Identify and explain any other relevant impact of the proposed change on utilization of the system.

10.1.33 Block 30

10.1.33.0-1 EFFECTS ON CONFIGURATION ITEM SPECIFICATIONS. The effect of the proposed change on performance must be described in quantitative terms as it relates to the parameters contained in the CI development specifications.

10.1.34 Block 31

10.1.34.0-1 DEVELOPMENTAL REQUIREMENTS AND STATUS. For hardware, when the proposed engineering change requires a major revision of the development program (e.g., new prototypes, additional design review activity, tests to be reaccomplished), the nature of the new development program must be described in detail, including the status of programs already begun.

10.1.34.0-2 For CSCIS, the contractor must identify the scheduled sequence of computer software design and test activities which will be required. ECPS initiated after preliminary design which affects the FBL and/or the ABL must identify, as appropriate, significant requirements for computer software redesign, recoding, repetition of testing, changes to the software engineering/test environments, special installation, adaptation, checkout, and live environment testing. In addition, the specific impact of these factors on approved schedules must be identified. The impact of the software change on the hardware design and input/output cabling must also be detailed.

10.1.35 Block 32

10.1.35.0-1 TRADE-OFFS AND ALTERNATIVE SOLUTIONS. A summary of the various solutions considered must be included with an analysis showing the reasons for adopting the solution proposed by the ECP.

10.1.36 Block 33

10.1.36.0-1 DATE BY WHICH CONTRACTUAL AUTHORITY IS NEEDED. Enter the date contractual authority will be required in order to maintain established schedule.

10.1.37 ECP (page 3 of 6)

10.1.37.0-1 EFFECTS ON PRODUCT CONFIGURATION IDENTIFICATION, LOGISTICS AND OPERATIONS. Certain information required this page may have been required on pages 1 and 2 or does not apply to computer software. When such information has already been supplied, a cross-reference to

such information will be adequate.

10.1.37.0-1.0-1 For hardware, if any specific logistic interoperability factors are affected, the contractor must provide information detailing the possible impact on the operational configuration on an attached page.

10.1.37.0-1.0-2 For CSCIs, the software engineering and test environments are usually not affected by changes in the product configuration of a CSCI. In Block 39, the Contractor must provide information about the status of the software redesign and retesting effort. There must also be a review of the intent of Blocks 37, 38, 42, 43, 44 and 46, to document CSCI impacts in these areas.

10.1.38 Block 34

10.1.38.0-1 EFFECT ON PRODUCT CONFIGURATION IDENTIFICATION OR CONTRACT. The effects on the approved CI product specifications must be described by reference to the SCNs, NORs or other enclosure(s) which cover such proposed text changes in detail. The effects on performance, weight, moment, etc., which are covered in the enclosure(s), must be indexed by proper identification adjacent to the factor affected. The effects on drawings, when not completely covered on Page 1, must be described in general terms by means of a referenced enclosure. Such enclosure may consist of a list of enclosed NORs if submittal of an NOR for each drawing affected is a requirement of the contract. Indicate any technical data submittal which is not provided for in the CDRL by means of a referenced enclosure. Address nomenclature change when applicable.

10.1.39 Block 35

10.1.39.0-1 EFFECT ON INTEGRATED LOGISTICS SUPPORT (ILS) ELEMENTS. The effects of the engineering change on logistic support of the item must be indicated by checking the appropriate boxes. These effects must be explained in detail on an enclosure indexed by appropriate identification adjacent to the subject under discussion. The information required must indicate the method to be used to determine the integrated logistic support plans and items which will be required for the support of the new configuration as well as retrofitting previously delivered items to the same configuration. The following must be covered as applicable:

10.1.39.0-1.0-1 Effects on schedule and content of the ILS plan.

10.1.39.0-1.0-2 Effect on maintenance concept and plans for the levels of maintenance and procedures.

10.1.39.0-1.0-3 LSA tasks to be accomplished and LSA data requiring update wherever it exists in the contract.

10.1.39.0-1.0-4 Extension/revision of the interim support plan.

10.1.39.0-1.0-5 Spares and repair parts that are changed, modified, obsolete or added, including detailed supply data for interim support spares. (Failure to include detailed supply data will delay ECP processing).

10.1.39.0-1.0-6 Revised or new technical manuals.

10.1.39.0-1.0-7 Revised or new facilities requirements and site activation plan.

10.1.39.0-1.0-8 New, revised, obsolete or additional support equipment (SE), test procedures and software. For items of SE and trainers which require change, furnish a cross reference to the related ECPS, and for any related ECP not furnished with the basic ECP, furnish a brief description of the proposed change(s) in SE and trainers.

10.1.39.0-1.0-9 Qualitative and quantitative personnel requirements data which identify additions or deletions to operator manpower in terms of personnel skill levels, knowledge and numbers required to support the CI as modified by the change.

10.1.39.0-1.0-10 New operator training requirements in terms of training equipment, trainers and training software for operator courses. This information must include identification of specific courses,

equipment, technical manuals, personnel, etc. required to set up the course at either the contractor or Government facility.

10.1.39.0-1.0-11 Qualitative and quantitative personnel requirements data which identify additions or deletions to maintenance manpower in terms of personnel skill levels, knowledge and numbers required to support the CI as modified by the change.

10.1.39.0-1.0-12 New maintenance training requirements in terms of training equipment, trainers and training software for maintenance courses. This information must include identification of specific courses, equipment, technical manuals, personnel, etc. required to set up the course at either the contractor or Government facility.

10.1.39.0-1.0-13 Any effect on contract maintenance that increases the scope or dollar limitation established in the contract.

10.1.39.0-1.0-14 Effects on packaging, handling, storage, and transportability resulting from changes in materials, dimensions, fragility, inherent environmental or operating conditions.

10.1.40 Block 36

10.1.40.0-1 EFFECT ON OPERATIONAL EMPLOYMENT. The effects of the engineering change of CI utilization must be indicated by checking the appropriate factors and providing details by enclosures. Quantitative values must be used whenever practicable but are required when reliability and service life are impacted. Survivability includes nuclear survivability.

10.1.41 Block 37

10.1.41.0-1 OTHER CONSIDERATIONS. The effects of the proposed engineering change on the following must be identified on an enclosure indexed by appropriate identification adjacent to the factor affected:

10.1.41.0-1.0-1 Interfaces having an effect on adjacent or related items (output, input, size, mating connections, etc.)

10.1.41.0-1.0-2 GFE or GFI changed, modified or obsolete.

10.1.41.0-1.0-3 Physical constraints. Removal or repositioning of items, structural rework, increase or decrease in overall dimensions.

10.1.41.0-1.0-4 Software (other than operational, maintenance, and training software) requiring a change to existing code and/or, resources or addition of new software.

10.1.41.0-1.0-5 Rework required on other equipment not included previously which will effect the existing operational configuration.

10.1.41.0-1.0-6 Additional or modified system test procedures required.

10.1.41.0-1.0-7 Any new or additional changers having an effect on existing warranties or guarantees.

10.1.41.0-1.0-8 Changes or updates to the parts control program.

10.1.41.0-1.0-9 Effects on life cycle cost projections for the configuration item or program, including projections of operation and support costs/savings for the item(s) affected over the contractually defined life and projections of the costs/savings to be realized in planned future production and spares buys of the item(s) affected.

10.1.42 Block 38

10.1.42.0-1 ALTERNATE SOLUTIONS. A summary of the various alternative solutions considered, including the use of revised operation or maintenance procedures, revised inspection or servicing requirements, revised part replacement schedules, etc., must be included. The contractor must provide an analysis of the alternatives, identify the advantages and disadvantages inherent in each feasible alternative approach, and show the reasons for adopting the alternative solution proposed by the ECP. When the contractor's analysis addresses new concepts or new technology, supporting data (to include LSA if

contractually required) must be presented with the proposal to authenticate the trade-off analysis.

10.1.43 Block 39

10.1.43.0-1 DEVELOPMENTAL STATUS. When applicable, the contractor must make recommendations as to the additional tests, trials, installations, prototypes, fit checks, etc., which will be required to substantiate the proposed engineering change. These recommendations must include the test objective and test vehicle(s) to be used. The contractor must indicate the development status of the major items of GFE which will be used in conjunction with the change and the availability of the equipment in terms of the estimated production incorporation point.

10.1.44 Block 40

10.1.44.0-1 RECOMMENDATIONS FOR RETROFIT. When applicable, the contractor must make recommendations for retrofit of the engineering change into accepted items with substantiating data, any implications thereto, and a brief description of the action required. Where retrofit is not recommended, an explanation of this determination must be provided. Reference must be made to any enclosure required to state recommended retrofit effectivity (See Block 20a).

10.1.45 Block 41

10.1.45.0-1 WORK-HOURS PER UNIT TO INSTALL RETROFIT KITS. Complete blocks 40.a through 40.d to show the amount of work which must be programmed for various activities to install retrofit kits. Estimate work-hours to install retrofit kits when weapon system is undergoing overhaul.

10.1.46 Block 42

10.1.46.0-1 WORK-HOURS TO CONDUCT SYSTEM TESTS AFTER RETROFIT. Enter the work-hours required to test the system or the item following installation of the retrofit kit.

10.1.47 Block 43

10.1.47.0-1 THIS CHANGE MUST BE ACCOMPLISHED. Where previously approved engineering changes must be incorporated in a specific order in relation to the proposed change, such order must be specified.

10.1.48 Block 44

10.1.48.0-1 IS CONTRACTOR FIELD SERVICE ENGINEERING REQUIRED? Check applicable box. If "yes", attach proposed program for contractor participation.

10.1.49 Block 45

10.1.49.0-1 OUT OF SERVICE TIME. Estimate the total time period from removal of the equipment from operational service until equipment will be returned to operational status after being retrofitted.

10.1.50 Block 46

10.1.50.0-1 EFFECT OF THIS ECP AND PREVIOUSLY APPROVED ECPs ON ITEM. The contractor must summarize the cumulative effect upon performance, weight, electrical load, etc., of this ECP and previously approved ECPS when design limitations are being approached or exceeded. Consequences of ECP disapproval may be stated in this block or in a referenced enclosure.

10.1.51 Block 47

10.1.51.0-1 DATE CONTRACTUAL AUTHORITY NEEDED FOR. The contractor must provide the date by which contractual authority to proceed is needed to maintain the estimated effectiveness specified in the ECP and to provide concurrent ILS and logistics support item deliveries. The contractor must consider the targets for decision allowing additional time for review, mailing, and other incidental handling and processing requirements.

10.1.52 ECP (page 4 of 6)

10.1.52.0-1 Page 4 is intended as the summary of the estimated net total cost/savings impact of a single ECP. In blocks 48.a through d, each cost factor associated with the ECP must be considered as to whether

such cost or portion thereof under the subject contract is recurring or nonrecurring. Enter cost/savings in columns 1 and 4, as applicable, using entries in the “unit” and “quantity” columns when appropriate. Savings must be enclosed with parentheses. Other costs/savings to the Government resulting from approval of this ECP must be entered in column 6 to the extent these costs can be determined by the contractor. This estimate of cost impact will be used for planning purposes and for a cost reduction or VE ECP analysis as to the net saving that would result. Firm cost proposals must be submitted, together with the appropriate cost breakdown.

10.1.53 Block 48

10.1.53.0-1 ESTIMATED NET TOTAL COST IMPACT. (Use parentheses for savings).

10.1.53.1 Block 48.a

10.1.53.1.0-1 PRODUCTION COSTS/SAVINGS. Enter the estimate of costs/savings applicable to production of the CI resulting from incorporation of the change. Show redesign costs for the CI at the line titled “engineering, engineering data revisions” when the item is in production. Enter the projected life cycle costs/savings applicable to the planned production and spares buys of the item that are not yet on contract on the CONFIGURATION ITEM/CSCI line in column 6. Enter the subtotal of production costs (both nonrecurring and recurring) in the fifth column.

10.1.53.2 Block 48.b

10.1.53.2.0-1 RETROFIT COSTS. Enter the estimate of costs applicable to retrofit of the item, including installation and testing costs. When Government personnel accomplish, or are involved in, the installation and/or testing activities, the estimated costs must be entered in column 6 on the affected lines. Show design costs of the retrofit kit and data revision costs strictly related to retrofit when the CI is in production; show all redesign and data revision costs when the item is not in production. Costs of modifications required to existing GFE and subsequent testing also must be shown. Enter the subtotal of retrofit costs in the fifth column. If some or all of the retrofit activities and costs will have to be deferred and placed on contract at a future date, show that deferred portion of the cost applicable to each line of Block 51b in column 6.

10.1.53.3 Block 48.c

10.1.53.3.0-1 INTEGRATED LOGISTICS SUPPORT COSTS/SAVINGS. Enter the estimated cost of the various elements of ILS applicable to the item covered by the ECP. On the line titled “interim support,” estimated costs must be entered based upon the period of time between initial installation/operation of the item (aircraft, tank, etc.) as modified by the ECP and Government attainment of support capability. Such “interim support” costs must include costs estimates of contractor recommended/provided spares and repair parts, special support equipment, training equipment and personnel training program. On the line titled “maintenance manpower” must be entered the estimated costs/ savings for the contracted maintenance support for the remainder of existing maintenance contracts. Enter the subtotal of ILS costs/savings in column 5. Enter the operation and support portion of the life cycle cost/savings on the subtotal line in column 6.

10.1.53.4 Block 48.d

10.1.53.4.0-1 OTHER COSTS/SAVINGS. If there are other costs under the contract which do not fall under the production, retrofit or ILS headings, enter the total of such costs in Block 48.d, column 5. If there are other costs to the Government which do not fall under the production, retrofit or ILS headings or under Block 48.g, “coordination changes by Government”, enter the total of such costs in Block 48.d, column 6.

10.1.53.5 Block 48.e

10.1.53.5.0-1 SUBTOTAL COSTS/SAVINGS. Enter the subtotals of columns 1, 4, 5, and 6 on this line. The subtotal in column 5 must be the sum of columns 1 and 4. This subtotal under the contract then must be entered on the line so titled in column 6 and on Page 1, Block 21.

10.1.53.6 Block 48.f

10.1.53.6.0-1 COORDINATION OF CHANGES WITH OTHER CONTRACTORS. This term applies to interface changes to items other than GFE, and changes to GFE being covered under 48.b. If such coordination changes are covered by related ECPs, the estimated costs thereof must be entered in Block 48.f, when available.

10.1.53.7 Block 48.g

10.1.53.7.0-1 COORDINATION CHANGES BY GOVERNMENT. Enter in this block an estimate of the cost to the Government of interface changes which must be accomplished in delivered items (aircraft, ships, facilities, etc.) to the extent such costs are not covered in Block 48.b.

10.1.53.8 Block 48.h

10.1.53.8.0-1 ESTIMATED NET TOTAL COSTS/SAVINGS. Enter the sum of all costs/savings in column 6 and block 22 on page 1.

10.1.54 ECP (HARDWARE) (page 5 of 6)

10.1.54.0-1 Required only with hardware related ECPs.

10.1.55 Block 49

10.1.55.0-1 MILESTONE CHART. Enter the symbols (see legend on form), as appropriate for the activity, to show the time phasing of the various deliveries of items, support equipment, training equipment, and documentation incorporating the basic and related ECPS. Enter other symbols and notations to show the initiation or termination of significant actions. All dates are based upon months after contractual approval of the basic ECP.

10.1.56 ECP (SOFTWARE) (page 6 of 6)

10.1.56.0-1 Required only with software related ECPs.

10.1.57 Block 50

10.1.57.0-1 MILESTONE CHART. Enter the symbols (See legend on form.) , as appropriate for the activity, to show the time phasing of the various deliveries of items, training equipment and documentation incorporating the basic and related ECPs . Enter other symbols and notations to show the initiation or termination of significant actions. All dates are based upon months after contractual approval of the basic ECP.

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 3, Annex CC, Appendix 2

4.3 DID CM-103 Request for Deviation (RFD)/Request for Waiver (RFW)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Request for Deviation (RFD)/Request for Waiver (RFW)	2 Data Item Number CM-103	
3 Description / Purpose 3.0-1 A RFD describes a proposed (prior to manufacture) departure from configuration documentation for a specific number of units or for a specified period of time. A RFD enables the Crown to determine the impact on performance, operational readiness, logistics support or other affected areas. Normally, for the units affected, the different configuration will be permanent. 3.0-2 A RFW is used to obtain authorization to deliver non-conforming material which does not meet the prescribed configuration documentation but is suitable for use “as is” or after repair. A RFW enables the Crown to evaluate and authorize acceptance of an item not conforming to contractual requirements.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The RFD and RFW must conform to MIL-STD 973 Appendix E.		
8 Originator PMO ISSP CM	9 Applicable Forms Figure 7 to Annex CC, Appendix 2	
10 Preparation Instructions 10.0-1 Format and Content - Contractor format is acceptable. Content must be in accordance with Appendix E of MIL-STD-973. 10.0-2 The RFD/RFW must fully describe and substantiate the request. 10.1 RFD/RFW Template Field Descriptions 10.1.1 Block 1 10.1.1.0-1 DATE (YY/MM/DD). Enter the submittal date of the RFD/RFW. 10.1.2 Block 2 10.1.2.0-1 Procuring Activity Number. 10.1.3 Block 3 10.1.3.0-1 Department of Defense Activity Address Code (DODAAC). Enter the DODAAC of the procuring activity. 10.1.4 Block 4 10.1.4.0-1 Originator name and address. Enter name, address and contact information for authority submitting the RFD/RFW. 10.1.5 Block 5 10.1.5.0-1 DEVIATION or WAIVER. Enter an “X” in the appropriate box. 10.1.6 Block 6 10.1.6.0-1 CLASSIFICATION: Enter an “X” in the appropriate box. 10.1.6.0-1.0-1 Minor: The deviation / waiver consists of a departure which does not involve the factors listed for Major or Critical. 10.1.6.0-1.0-2 Major: The deviation / waiver consists of a departure involving (a) health, (b) performance, (c) interchangeability, reliability, survivability, maintainability, or durability of the item or its repair parts; (d) effective use or operation; (e) weight and size; or (6) appearance (when a factor). 10.1.6.0-1.0-3 Critical: The deviation / waiver consists of a departure involving safety.		

10.1.7 Block 7

10.1.7.0-1 Designation for DEVIATION / WAIVER

10.1.7.0-1.1 Block 7.a

10.1.7.0-1.1.0-1 Model/Type. Enter model or type designation of the CI for which this request is being submitted. For CSCIs, enter the CSCI identification number.

10.1.7.0-1.2 Block 7.b

10.1.7.0-1.2.0-1 CAGE Code. Enter the CAGE code for the activity originating the deviation/waiver.

10.1.7.0-1.3 Block 7.c

10.1.7.0-1.3.0-1 System designation. The system or top level CI designation or nomenclature assigned by the Government must be entered, if known.

10.1.7.0-1.4 Block 7.d

10.1.7.0-1.4.0-1 Deviation/Waiver number.

10.1.7.0-1.4.0-1.0-1 No. - Format "AAA-Y-NNN"

10.1.7.0-1.4.0-1.0-2 AAA = RFD or RFW (Deviation or Waiver)

10.1.7.0-1.4.0-1.0-3 Y = C (Contractor) or P (Project Office - Gov) indicating Originator.

10.1.7.0-1.4.0-1.0-4 NNN = Serial number unique for each Request

10.1.8 Block 8

10.1.8.0-1 Configuration baseline affected. Check the applicable box for the affected baseline.

10.1.9 Block 9

10.1.9.0-1 Other system/configuration affected. Check applicable box. If yes, provide summary data in block 20.

10.1.10 Block 10

10.1.10.0-1 TITLE OF DEVIATION / WAIVER. Enter a brief descriptive title of the deviation or waiver.

10.1.11 Block 11

10.1.11.0-1 CONTRACT NUMBER AND LINE ITEM. Insert the contract number and identify reference areas of the Contract, Annexes, Appendices and Attachments, Line Item Numbers etc. affected by the deviation / waiver.

10.1.12 Block 12

10.1.12.0-1 PROCURING CONTRACT OFFICER. Enter the name and Phone number for the Contractor's procuring contract officer applicable to the item(s) in Block 9.

10.1.13 Block 13

10.1.13.0-1 Configuration item nomenclature. Enter the Government assigned name and type designation, if applicable, or authorized name and number of the CI to which the deviation or waiver will apply.

10.1.14 Block 14

10.1.14.0-1 Classification of Defect (CD).

10.1.14.1 Block 14.a

10.1.14.1.0-1 CD number. Enter the CD # assigned if applicable.

10.1.14.2 Block 14.b

10.1.14.2.0-1 Defect number. If a CD applies, enter the defect number (s) which correspond(s) with the characteristic(s) from which an authorized deviation or waiver is desired.

10.1.14.3 Block 14.c

10.1.14.3.0-1 Defect classification. If a CD applies, check the box which states the proper classification of the defect number (s) entered in block 14.b.

10.1.15 Block 15

10.1.15.0-1 Name of lowest part/assembly affected. Give an appropriate descriptive name of the part (s)

without resorting to such terms as “Numerous bits and pieces”.

10.1.16 Block 16

10.1.16.0-1 Part number or type designation. Enter the part number(s) of part(s) named in Block 15 or type designation/nomenclature if applicable.

10.1.17 Block 17

10.1.17.0-1 EFFECTIVITY. If lot numbers have been assigned, enter the number(s) applicable to the lot(s) for which the deviation / waiver is being requested. Lot may also be defined by serial numbers of the affected items.

10.1.18 Block 18

10.1.18.0-1 Recurring deviation/waiver. Show whether the same deviation or waiver has been requested and approved previously by placing an “X” in the proper box. If “yes,” reference the previous correspondence, the request number, and corrective action to be taken in Block 24. In addition, if yes, provide rationale why recurrence was not prevented by previous corrective action and/or accomplished design change.

10.1.19 Block 19

10.1.19.0-1 EFFECT ON COST / PRICE. Enter the estimated reduction or price adjustment. If no change, so state with rationale. The request for deviation or waiver must include the specific consideration that will be provided to the Government if this “non-conforming” unit(s) is accepted by the Government.

10.1.20 Block 20

10.1.20.0-1 EFFECT ON DELIVERY SCHEDULE. State the effects on the contract delivery schedule that will result from both approval and disapproval of the request for deviation or waiver.

10.1.21 Block 21

10.1.21.0-1 Effect on integrated logistics support, interface or software. If the deviation / waiver have an impact on integrated logistics support or the interface, describe the effects in an enclosure and reference the enclosure in this block. Attach additional documentation as required and reference those enclosures in the block.

10.1.22 Block 22

10.1.22.0-1 DESCRIPTION OF DEVIATION / WAIVER. Describe the nature of the proposed departure from the technical requirements. Marked drawings for the systems / sub-systems must be included when necessary to provide a better understanding of the deviation / waiver.

10.1.23 Block 23

10.1.23.0-1 NEED FOR DEVIATION / WAIVER. Provide an explanation of why it is impossible or unreasonable to comply with the configuration documentation within the specified delivery schedule. Include an explanation why a deviation or waiver is proposed in lieu of a permanent design change.

10.1.24 Block 24

10.1.24.0-1 CORRECTIVE ACTION TAKEN. Describe action being taken to correct non-conformance to prevent a future occurrence.

10.1.25 Block 25

10.1.25.0-1 SUBMITTING ACTIVITY. Print the name of the individual authorized to submit the Deviation / Waiver and have the Deviation / Waiver signed and dated.

10.1.26 Block 26

10.1.26.0-1 APPROVAL / DISAPPROVAL. To be completed and signed by the Government Authority authorized to make the decision on the acceptance or rejection of the deviation / waiver.

4.4 DID CM-104 Specification Change Notice (SCN)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Specification Change Notice (SCN)	2 Data Item Number CM-104	
3 Description / Purpose 3.0-1 The SCN is used to transmit and record changes to specification(s). The SCN is used to delineate the exact change(s) in a specification that will be distributed to users when the SCN is approved.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The SCN must conform to Mil-Std 973 Appendix F. 7.0-2 The SCN refers to the DLA Cataloguing Handbook H4/H8.		
8 Originator ISSP PMO CM	9 Applicable Forms Figure 8 to Annex CC, Appendix 2	
10 Preparation Instructions 10.0-1 Format and Content - Contractor format is acceptable. Content must be in accordance with Appendix F of MIL-STD-973. 10.0-2 The SCN must fully describe the changes. 10.0-3 The following information must be included and detailed: 10.0-3.1 Block 1 10.0-3.1.0-1 Date. Enter the submittal date of the SCN. 10.0-3.2 Block 2 10.0-3.2.0-1 Procuring Activity Number. 10.0-3.3 Block 3 10.0-3.3.0-1 DODAAC. 10.0-3.4 Block 4 10.0-3.4.0-1 Originator name and address. 10.0-3.5 Block 5 10.0-3.5.0-1 SCN Type. Indicate by an "X" in the appropriate block if this is a proposed SCN. If the SCN is being submitted to the Government for final technical approval, prior to distribution according to the contract, both blocks must be left blank. The approved block will be marked by the Government upon approval/contractual implementation. 10.0-3.6 Block 6 10.0-3.6.0-1 CAGE Code. Enter the CAGE Code of the design activity for the specification identified in Block 7. DLA Cataloguing Handbook H4/H8 contains these codes. 10.0-3.7 Block 7 10.0-3.7.0-1 Specification Number. Enter the identification number, including revision letter, of the specification being changed. 10.0-3.8 Block 8 10.0-3.8.0-1 CAGE Code. Enter the CAGE code of the activity preparing the SCN. 10.0-3.9 Block 9 10.0-3.9.0-1 SCN Number. Enter the identification number for the SCN being submitted. SCN numbers are issued sequentially for each specification and revision, starting with the number "1".		

10.0-3.10 Block 10

10.0-3.10.0-1 System Designation. Enter the type, model, series (or the nomenclature number) for the system (or major item of equipment, if it is not a system) affected.

10.0-3.11 Block 11

10.0-3.11.0-1 Related ECP number. Enter the complete ECP number (including dash numbers and revisions) that identifies the related engineering change.

10.0-3.12 Block 12

10.0-3.12.0-1 Contract number. Enter the complete contract number(s) affected by this SCN, if applicable.

10.0-3.13 Block 13

10.0-3.13.0-1 Contractual authorization. There must be no entry in this block on a proposed SCN. For the approved SCN only, enter the number of the contract modification document used to contractually implement the change. If a unilateral change order is utilized for initial authorization, its number must be entered in this block.

10.0-3.14 Block 14

10.0-3.14.0-1 Configuration item nomenclature. Enter the nomenclature (name and number) of the CI affected by the change. Normally this will be different than block 10.

10.0-3.15 Block 15

10.0-3.15.0-1 Effectivity.

10.0-3.15.0-1.0-1 For hardware, enter the serial numbers of the items for which this SCN is effective. Usually this will include the applicable production line items plus items approved for a retrofit or modification program.

10.0-3.15.0-1.0-2 For CSCIS, enter the revision or version of the CSCI to which the change applies. If a new version is warranted by the incorporation of this ECP, the new version number must be entered here.

10.0-3.16 Block 16

10.0-3.16.0-1 Pages affected by this SCN. The entries in this section must provide information about the pages affected by the SCN being submitted. Enter a listing of all pages being changed by this SCN and indicate whether the pages are being superseded or added (by entering an "S" or an "A" in the column) or deleted (by printing the word "deleted" after the page numbers so affected). A separate line must be used for each category of page change. Once the SCN has been approved by the Government, enter the approval date (from Block 18) in this block.

10.0-3.17 Block 17

10.0-3.17.0-1 Summary of previously changed pages.

10.0-3.17.1 Block 17.a

10.0-3.17.1.0-1 SCN number. For all SCNS previously submitted, enter the identification number of each SCN starting with SCN number 1 at the top of the column.

10.0-3.17.2 Block 17.b

10.0-3.17.2.0-1 Related ECP number. Enter the identification number (including revision designator and dash numbers) of each ECP affected by each previously issued SCN against this specification revision.

10.0-3.17.3 Block 17.c

10.0-3.17.3.0-1 Pages. List the pages changed by each previously issued SCN against this specification. A separate line must be used for each category of page change.

10.0-3.17.4 Block 17.d

10.0-3.17.4.0-1 Date submitted. For a proposed SCN, enter the submittal date for each previously submitted SCN opposite the appropriate SCN number in Block 17. For the approved SCN, enter the submitted date for each previously submitted SCN that has been approved opposite the appropriate SCN number in Block 17.

10.0-3.17.5 Block 17.e

10.0-3.17.5.0-1 Type of change. Indicate whether the pages are being superseded or added (by entering an “S” or an “A” in the column).

10.0-3.17.6 Block 17.f

10.0-3.17.6.0-1 Approval date. For each approved SCN previously submitted, enter its approval date on the same line as the SCN number in Block 17.

10.0-3.18 Block 18

10.0-3.18.0-1 Government activity. The Government contracting officer, or a duly appointed representative, will affix an approval signature and the date in this block, and will mark an “X” in the approved box, to designate approval of the SCN. The signature denotes technical concurrence with the contents of the Form and attached change pages. When Block 18 has been signed and the approved box has been marked, the status of the SCN changes from a proposed SCN to an approved SCN.

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 3, Annex CC, Appendix 2

4.5 DID CM-105 Notice of Revision (NOR)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Notice of Revision (NOR)	2 Data Item Number CM-105	
3 Description / Purpose 3.0-1 A NOR depicts changes that must be made to technical documentation (drawings, associated lists, or other applicable documents) controlled by another contractor or Government agency following approval of an ECP. 3.0-2 A NOR is used to direct the custodian of each drawing, associated list, or other applicable document(s) to make the required documentation changes.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The NOR follows the approval of an ECP. 7.0-2 The NOR must conform to Mil-Std 973, Appendix G.		
8 Originator PMO ISSP CM	9 Applicable Forms Figure 9 to Annex CC, Appendix 2	
10 Preparation Instructions 10.0-1 Format and Content - Contractor format is acceptable. Content must be in accordance with Appendix G of MIL-STD-973. 10.0-2 The NOR must fully describe the changes. 10.0-3 The following information must be included and detailed: 10.1 Block 1 10.1.0-1 Date. Enter the submittal date of the NOR. Normally this date will be identical to the ECP submittal date. 10.2 Block 2 10.2.0-1 Procuring activity number. 10.3 Block 3 10.3.0-1 DODAAC. 10.4 Block 4 10.4.0-1 Originator name and address. Enter the name and address of the activity submitting the proposed NOR. 10.5 Block 5 10.5.0-1 CAGE code. Enter the originator's CAGE code of the design activity for the drawing/document identified in Block 8. 10.6 Block 6 10.6.0-1 NOR number. The originator must either assign a number or enter the document number and new revision letter as the NOR number. When the requirement in the contract identifies the NOR by ECP number, the originator must attach a dash number (i.e., xxx-I). 10.7 Block 7 10.7.0-1 CAGE code. Enter the CAGE code of the activity whose NOR number is assigned. 10.8 Block 8 10.8.0-1 Document number. Enter the number of the drawing, standard, list or other document(s) to be revised.		

10.9 Block 9

10.9.0-1 Title of document. Enter the title of the document to which the NOR applies.

10.10 Block 10

10.10.0-1 Revision letter.

10.10.1 Block 10.a

10.10.1.0-1 Current. Show the existing revision of the document for which the NOR is prepared.

10.10.2 Block 10.b

10.10.2.0-1 New. Show the revision letter proposed for the revision covered by the NOR. Usually the new letter will be the one following the current letter in alphabetical sequence, unless there are known outstanding NORs which may not have been incorporated.

10.10.2.0-2 NOTE: The Government may change the new revision letter proposed by the contractor in order to retain a proper sequence of approved revisions.

10.11 Block 11

10.11.0-1 ECP number. Enter the number of the ECP describing the engineering change which necessitates the document revision covered by this NOR.

10.12 Block 12

10.12.0-1 Configuration Item (or system) to which ECP applies. Enter Government assigned system designation (if any); otherwise, enter the name and type designation of the CI to which the ECP applies (see Blocks 8a, 8c and 16 on ECP).

10.13 Block 13

10.13.0-1 Description of revision. Describe the revision in details, giving the exact wording of sentences or paragraphs that are to be added, or that are to replace designated sentences or paragraphs of the current document. State the dimensions, tolerances and other quantitative requirements that are to replace current requirements. Attach a marked print when necessary to clearly explain the desired revision. Use a "From - To" format in the description of the change. If additional space is needed, use continuation pages.

10.14 Block 14

10.14.0-1 Section for Government use only.

10.14.1 Block 14.a

10.14.1.0-1 Document status. The Government approving activity will enter an "X" in the first box if manufacturer may proceed using the existing document as modified by this NOR. If SO, a copy of the approved NOR will be furnished both to the contractor submitting the ECP and to the custodian of the master document. The Government approving activity will enter an "X" in the second box if the contractor is not authorized to incorporate the change proposed by the submitted NOR until receipt of the revised document. The Government approving activity will enter an "X" in the third box directing the custodian to make the change and distribute copies of the revised document. The distribution list may be entered in Block 14, on a referenced enclosure, or in a letter of transmittal.

10.14.2 Block 14.b

10.14.2.0-1 Activity authorized to approve change. The name of the activity authorized to approve the ECP and the associated NORs for the Government will be entered by such activity.

10.14.3 Blocks 14.d., 14.e. and 14.f

10.14.3.0-1 Title, signature and date. If the referenced ECP is approved and the NOR also is approved as written or corrected, an authorized representative of the Government approving activity will sign in this block, including entry of the date of approval

10.15 Block 15

10.15.0-1 Activity.

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10.15.1 Block 15.a

10.15.1.0-1 Activity accomplishing revision. The name of the activity (custodian) that is directed to make the revision in the master document will be entered by the approving activity.

10.15.2 Blocks 15.b. and 15.c

10.15.2.0-1 Revision completed and date. An authorized representative of the custodian must sign in this block to certify that the revision described by the NOR has been accomplished, including entry of the date of the accomplishment. The signed original must be returned to the Government or held by the activity that maintains the master document.

4.6 DID CM-106 Configuration Status Accounting (CSA) Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Configuration Status Accounting (CSA) Report		2 Data Item Number CM-106
3 Description / Purpose 3.0-1 The CSA Report details the information required to effectively manage CIs and provide visibility of CM activities, including the status of deviations, waivers and engineering changes.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The CSA Report must conform to Mil-Std 973, section 5.5. 7.0-2 The CSA Report relates to all ECPs, RFDs, RFWs, SCNs, and NORs.		
8 Originator PMO ISSP CM		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 The CSA Report must be in the Contractor's format. 10.0-2 The CSA Report must provide as a minimum the identification of each CI and list all new, outstanding and historical ECPs, RFDs, RFWs, SCNs and NORs including their status against each CI. The report must include but not be limited to: 10.0-2.0-1 An ECP index listing the ECPs (number, revision, correction, date raised, title, type, class, status, and cross reference to Subcontractor raised ECP, if applicable) and the CI, part and documentation affected. 10.0-2.0-2 A Deviation Index listing the deviations (number, date raised, title, status, and cross reference to subcontractor raised Deviation, if applicable) and their effectivity. 10.0-2.0-3 A Waiver Index listing the waivers (number, date raised, title, part affected, status, and cross reference to subcontractor raised waivers, if applicable) and their effectivity. 10.0-2.0-4 A SCN index recording all SCNs against a specification. For each specification, the Contractor format index must contain; the spec number, rev, title, the SCN number, associated ECP, date of submission and approval and any other related ECPs/SCN information. 10.0-2.0-5 A NOR index listing the NORs (number, date raised, the document number, title and revision of the document affected, associated ECP, date revision authorised, date revision completed).		

4.7 DID CM-107 Software Version Description Document (SVDD)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Software Version Description Document (SVDD)		2 Data Item Number CM-107
3 Description / Purpose 3.0-1 The SVDD identifies and describes a software version comprising one or more CSCIs. It is used to release, track and control software versions. The SVDD is applicable to the initial release of software, subsequent Block Changes or releases, as well as any site-specific variants of the software.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP CM		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 The SVDD must be prepared in the Contractor's format. 10.0-2 This document must be updated and resubmitted upon new software release of the related CSCI. 10.0-3 The SVDD must contain the following: 10.1 Title Page 10.1.0-1 The document must include a title page containing, as applicable: document number; volume number; version/revision indicator; security markings or other restrictions on the handling of the document; date; document title; name, abbreviation, and any other identifier for the system, subsystem, or item to which the document applies; Contract number; CDRL item number; organization for which the document has been prepared; name and address of the preparing organization; and distribution statement. For data in a database or other alternative form, this information must be included on external and internal labels or by equivalent identification methods. 10.2 Record of reviews and history 10.3 Table of contents 10.3.0-1 The document must contain a table of contents providing the number, title, and page number of each titled paragraph, figure, table, and appendix. For data in a database or other alternative form, this information must consist of an internal or external table of contents containing pointers to, or instructions for accessing, each paragraph, figure, table, and appendix or their equivalents. 10.4 Scope 10.4.0-1 This section must be divided in the following paragraphs: 10.4.0-1.0-1 Identification. This paragraph must contain a full identification of the system and the software to which this document applies, including, as applicable, identification number(s), title(s), abbreviation(s), version number(s), and release number(s). 10.4.0-1.0-2 System Overview. This paragraph must briefly state the purpose of the system and the software to which this document applies. It must describe the general nature of the system		

and software; summarize the history of system development, operation, and maintenance, developer and support agencies; and list other relevant documents.

10.4.0-1.0-3 Document Overview. This paragraph must summarize the purpose and contents of this document and must describe any security or privacy considerations associated with its use.

10.5 Referenced Documents

10.5.0-1 This section must list the number, title, revision, and date of all documents referenced in this document. This section must also identify the source for all documents not available through normal Government stocking activities.

10.6 Version Description

10.6.0-1 This section must be divided into the following paragraphs.

10.6.0-1.0-1 Inventory of Materials Released. This paragraph must list by identifying numbers, titles, , version numbers, and release numbers, as applicable, all physical media (for example, listings, tapes, disks) and associated documentation that make up the software version being released. It must include applicable security and privacy considerations for these items, safeguards for handling them, such as concerns for static and magnetic fields, and instructions and restrictions regarding duplication and license provisions.

10.6.0-1.0-1.0-1 Media. This paragraph must describe the media on which the released version of the CSCI has been stored. It must state the number of copies that have been produced and provide information on the media identification.

10.6.0-1.0-1.0-2 Support. This paragraph must identify the hardware and software tools, either commercial off the shelf or developed, needed for the generation and maintenance of the software (compiler, environment, etc) and for the installation of the executable on the target system (hardware, environment, etc). This paragraph must also describe the step by step procedure to build the executable program or refer to an external document in which the build procedure is described.

10.6.0-1.0-2 Inventory of Software Contents. This paragraph must list by identifying numbers, titles, abbreviations, dates, version numbers, and release numbers, as applicable, all computer files that make up the software version being released. Any applicable security and privacy considerations must be included.

10.6.0-1.0-3 Changes Installed. Describe the changes, which have been implemented in the current software version, as compared to the previous one. This may include both enhancements as well as fault fixes. This paragraph must identify, as applicable, the problem reports, change proposals, and change notices associated with each change. This paragraph is not applicable to the initial release of software.

10.6.0-1.0-4 Target Platform Configuration. Specify the required configuration of the target platform before this software version can be installed and executed, or reference a hardware specification document.

10.6.0-1.0-5 Adaptation Data. For the initial software release, describe the site-specific data or customizations featured in this version of the software, corresponding to the target platform above. For subsequent releases, describe any changes to the site-specific data.

10.6.0-1.0-6 Interface Compatibility. This paragraph must indicate other systems and CSCIs affected by the changes incorporated in this version. It must also indicate which version(s) of the interfaced CSCI(s) is (are) compatible with the current version of the software.

10.6.0-1.0-7 Related Documents. List any other documents, which are applicable to the software version being released, but which are physically not included in this release. Indicate the

document titles, document numbers, version numbers, version dates, and publication source.

10.6.0-1.0-8 Summary of Changes. This paragraph must describe the operational effect, if any, of the changes listed in 3.3 above.

10.6.0-1.0-9 Installation Instructions. This paragraph must provide or reference the following information, as applicable.

10.6.0-1.0-9.0-1 Instructions for installing the software version.

10.6.0-1.0-9.0-2 Identification of other changes that have to be installed for this version to be used, including site-unique adaptation data not included in the software version.

10.6.0-1.0-9.0-3 Security, privacy, or safety precautions relevant to the installation.

10.6.0-1.0-9.0-4 Procedures for determining whether the version has been installed properly.

10.6.0-1.0-9.0-5 Point-of-contact in case difficulties are encountered with the software installation.

10.6.0-1.0-10 Possible Problems and Known Errors. This paragraph must identify any possible problems or known errors with the software version at the time of release, any steps being taken to resolve the problems or errors, and instructions (either directly or by reference) for recognizing, avoiding, correcting, or otherwise handling each one. The information presented must be appropriate to the intended recipient of the SVDD (for example, a user agency may need advice on avoiding errors, a support agency on correcting them).

10.7 Supplementary Notes

10.7.0-1 Any additional information about the software version, which may facilitate installer or user understanding (e.g. acronyms, definitions, background information, and rationale).

4.8 DID CM-108 Configuration Audit Plan (CAP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Configuration Audit Plan (CAP)	2 Data Item Number CM-108	
3 Description / Purpose 3.0-1 The CAP describes the detailed procedural requirements for the conduct of the configuration audit. It is provided in accordance with the requirements of the CMP.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The CAP must conform to Mil-Std 973 section 5.6 7.0-2 The CAP is a subset of the CMP.		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The CAP must be in the Contractor's format. 10.0-2 The CAP must provide, as a minimum, an overview of the audit procedures followed for the particular audit and contain as a minimum the following items and reference material: 10.0-2.0-1 Type of audit (PCA or FCA); 10.0-2.0-2 Audit date, location and a list of attendees; 10.0-2.0-3 Identification of proposed hardware/software and documentation to be audited; 10.0-2.0-4 Identification of reference documents to be used in conducting the audit; 10.0-2.0-5 Audit procedures to be used; 10.0-2.0-6 Serial number of CI to be audited; 10.0-2.0-7 Identification of approved deviation(s) and approved or proposed waiver(s) applicable to the CI serial number to be audited; 10.0-2.0-8 Security clearance information, if required.		

4.9 DID CM-109 Configuration Audit Report (CAR)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Configuration Audit Report (CAR)	2 Data Item Number CM-109	
3 Description / Purpose 3.0-1 The CAR is a document that reports in details the results of the audit. It is provided in accordance with the requirements of the CMP.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The CAR must conform to Mil-Std 973 section 5.6. 7.0-2 The CAR integrates with the CAP, DID CM-108 . 7.0-3 The CAR must be in accordance with the CMP, DID CM-001 .		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The CAR must be in the Contractor's format. 10.0-2 The CAR must provide, as a minimum, the results of those audits, and a summary of any outstanding action required to rectify gaps found in the audited CI as a result of the audits. It must contain, but not be limited to, the following: 10.0-2.0-1 Identification of hardware/software and documentation audited; 10.0-2.0-2 Identification of reference documentation used during conduct of the audit; 10.0-2.0-3 Identification of the audit agenda; 10.0-2.0-4 A list of the personnel involved; 10.0-2.0-5 Action items identified, responsible individuals assigned to each action item and scheduled date of clearing each action item.		

4.10 DID DM-101 Technical Data Management Plan (TDMP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Technical Data Management Plan (TDMP)	2 Data Item Number DM-101	
3 Description / Purpose 3.0-1 The TDMP is a document that defines the management, organization, procedures, schedules and detailed plan to be used by the Contractor in meeting the requirements for the development and the delivery of technical data. It is provided in accordance with the requirements of the CMP.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The TDMP may be prepared in the Contractor's format, and must contain sufficient detail to fully address the information requirements. 10.0-2 The TDMP must describe the Contractor's plan to provide for the preparation, delivery and control of all Technical Data required to acquire, operate, manage and support the system/equipment. The Plan must clearly define the intended purpose of each data item and explain the interfaces and overlaps among the data items. The Plan must include but not be limited to the following: 10.0-2.0-1 A description of the system/equipment for which the TDMP is applicable. 10.0-2.0-2 A description of the management, organisation and responsibilities of the Contractor's Technical Data personnel and their relationship to other disciplines within the Contractor's organisation. 10.0-2.0-3 Identify each data item. 10.0-2.0-4 State the proposed digital format in which the data item is to be provided for Text, Graphics and Product Data. 10.0-2.0-5 State the media i.e., On-Line Access e.g., Contractor Integrated Technical Information System (CITIS), Physical media e.g., optical disk, magnetic tape or disk. 10.0-2.0-6 Provide a delivery schedule with relevant milestones for preparation, validation, translation (if required), and delivery of the data items. 10.0-2.0-7 Describe methods and procedures for controlling each data item. 10.0-2.0-8 Detail how the Contractor intends to identify intellectual property and proprietary issues. 10.0-2.0-9 Identify the methodology for the identification and integration of data items from the LSA process and other relevant studies. 10.0-2.0-10 Detail the Contractors methodology for ensuring that DND will be self sufficient in technical data during the system/equipment life cycle.		

5 FIGURES

5.1 Figure 1 - Major Subsystem EHS Impact Table

EHS Hazard Type

- A- Ionizing Radiation
- B- Electromagnetic Radiation
- C- Noise
- D- Vibration
- E- Hazardous Gases
- F- Hazardous Liquids
- G- Hazardous Solids
- H- Others

Life Cycle Phase

- 1- Engineering and Manufacture
- 2- Test and Evaluation
- 3- Production and Deployment
- 4- Maintenance and Operations
- 5- Demilitarization and Disposal

[illegible]

1. Major Sub-system - Enter the appropriate sub-system with which the identified hazard is associated. All sub-systems identified in the allocated baseline must be included as the Sub-systems.

2. **Significance** - This column shall provide the measurement of the hazard for validation of significance (e.g., for noise, indicate decibel levels).

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5.2 Figure 2 - Table of Hazardous Products

[illegible]

5.3 Figure 3 - Items Containing Mercury

Ser	Information Requested	Mercury Containing Item Details			
		Item 1	Item 2	Item 3	Item 4...
1	Equipment NSN (for equipment containing mercury)				
2	Equipment Description				
3	NSN and Defence Resource Management Information System (DRMIS) unique identifier of the item containing mercury (if it exists)				
4	Manufacturer of mercury-containing item				
5	Date of manufacture of the mercury-containing item				
6	Manufacturer part number of mercury-containing item				
7	National Supply Code for Manufacturers of items containing mercury: (NSCM)/Commercial and Government Entity (CAGE) Code				
8	Description of mercury-containing item;				
9	The form of mercury (egs liquid, vapour, amalgam, metal halide)				
10	Quantity of mercury (kg mass)				
11	Volume of mercury (L) and its concentration in ppm [provide either mass (Serial 11) or volume/concentration of mercury, but not both]				
12	The location of the mercury-containing item(s)				
13	Quantity of mercury containing item per reported equipment				
14	Total Quantity of mercury within the reported equipment (for kg mass and volume/concentration);				

5.4 Figure 4 - Environmental Effects Matrix

PROJECT Subsystem/Activity Enter each subsystem e.g. device/component, activity, condition (normal/abnormal), etc, as applicable	Valued Ecosystem Components (Add to/ delete from matrix below as necessary) Show potential effects with a "X"																	
	Physical							Biological					Social					
	Atmosphere	Surface water	Ground water	Soils	Terrain	Vibration	Noise	Terrestrial animals	Terrestrial habitat	Aquatic animals	Aquatic habitat	Vegetation	Heritage/historical	Recreation/Aesthetic	People/health	Economy	Services	Land use

5.5 Figure 5 - Material Safety Data Sheets (MSDSs)

[illegible]

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5.6 Figure 6 - ECP Template

ENGINEERING CHANGE PROPOSAL (Page 1 of 6)					DATE (YYMMDD)		PROCURING ACTIVITY	
1. ORIGINATOR NAME AND ADDRESS					2. CLASS OF ECP			
					3. JUSTIFICATION		4. PRIORITY	
5. ECP DESIGNATION					6. BASELINE AFFECTED			
a. MODEL/TYPE		b. CAGE CODE		c. SYSTEM DESIGNATION		<input type="checkbox"/> FUNCTIONAL <input type="checkbox"/> ALLOCATED <input type="checkbox"/> PRODUCT		
d. ECP No.			e. TYPE		f. REV		7. OTHER SYS. CONFIG. ITEMS AFFECTED	
							<input type="checkbox"/> YES <input type="checkbox"/> NO	
8. SPECIFICATIONS AFFECTED - TEST PLANS AFFECTED					9. DRAWINGS AFFECTED			
	CAGE CODE	SPEC/DOC No.	REV	SCN	CAGE CODE	NUMBER	REV	NOR
a. SYSTEM								
b. ITEM								
c. TEST PLAN								
10. TITLE OF CHANGE					10. a. WEAPON SYSTEM CODE OR DESIGNATION			
11. CONTRACT No. AND LINE ITEM(S)					12. PROCURING CONTRACTING OFFICER			
					TEL			
13. CONFIGURATION ITEM NOMENCLATURE					14. IN PRODUCTION			
					<input type="checkbox"/> YES <input type="checkbox"/> NO			
15. LOWEST ASSEMBLY AFFECTED								
NOMENCLATURE			PART No.		NSN			
16. DESCRIPTION OF CHANGE								
17. NEED FOR CHANGE								
18. PRODUCTION EFFECTIVITY BY SERIAL NUMBER					19. EFFECT ON PRODUCTION DELIVERY SCHEDULE			
20. RETROFIT								
a. RECOMMENDED ITEM EFFECTIVITY					b. SHIP/VEHICLE CLASS AFFECTED			
c. ESTIMATED KIT DELIVERY SCHEDULE					d. LOCATIONS OR SHIP/VEHICLE NUMBERS AFFECTED			
21. ESTIMATED COSTS/SAVINGS UNDER CONTRACT					22. ESTIMATED NET TOTAL COSTS/SAVINGS			
23. SUBMITTING ACTIVITY					23. b. TITLE			
a. AUTHORIZED SIGNATURE								
24. APPROVAL/DISAPPROVAL								
a. CLASS I			b. CLASS II			c. CLASS II		
<input type="checkbox"/> APPROVAL RECOMMENDED <input type="checkbox"/> DISAPPROVAL RECOMMENDED			<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED			<input type="checkbox"/> CONCUR IN CLASSIFICATION OF CHANGE <input type="checkbox"/> DO NOT CONCUR CLASSIFICATION OF CHANGE		
d. GOVERNMENT ACTIVITY			e. SIGNATURE			f. DATE (YYMMDD)		
g. APPROVAL			h. GOVERNMENT ACTIVITY			i. SIGNATURE		
<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED						j. DATE (YYMMDD)		

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EFFECTS ON FUNCTIONAL/ALLOCATED CONFIGURATION IDENTIFICATION

25. OTHER SYSTEMS AFFECTED

26. OTHER CONTRACTORS/ACTIVITIES AFFECTED

27. CONFIGURATION ITEMS AFFECTED

28. EFFECTS ON PERFORMANCE ALLOCATIONS AND INTERFACES IN SYSTEM SPECIFICATION

29. EFFECTS ON EMPLOYMENT, INTEGRATED LOGISTICS SUPPORT, TRAINING, OPERATIONAL EFFECTIVENESS OR SOFTWARE

30. EFFECTS ON CONFIGURATION ITEM SPECIFICATIONS

31. DEVELOPMENTAL REQUIREMENTS AND STATUS

32. TRADE-OFFS AND ALTERNATIVE SOLUTIONS

33. DATE BY WHICH CONTRACTUAL AUTHORITY IS NEEDED

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EFFECTS ON PRODUCT CONFIGURATION IDENTIFICATION, LOGISTICS AND OPERATIONS

(X)	FACTOR	ENC L	PAR	(X)	FACTOR	ENCL	PAR
	34. EFFECT ON PRODUCT CONFIGURATION IDENTIFICATION OR CONTRACT				36. EFFECT ON OPERATIONAL EMPLOYMENT		
	a. PERFORMANCE				a. SAFETY		
	b. WEIGHT BALANCE STABILITY (<i>Aircraft</i>)				b. SURVIVABILITY		
	c. WEIGHT-MOMENT (<i>Other Equipment</i>)				c. RELIABILITY		
	d. CDRL, TECHNICAL DATA				d. MAINTAINABILITY		
	e. NOMENCLATURE				e. SERVICE LIFE		
					f. OPERATING PROCEDURES		
	35. EFFECT ON INTEGRATED LOGISTICS SUPPORT (ILS) ELEMENTS				g. ELECTROMAGNETIC INTERFERENCE		
	a. ILS PLANS				h. ACTIVATION SCHEDULE		
	b. MAINTENANCE CONCEPT, PLANS AND PROCEDURES				i. CRITICAL SINGLE POINT FAILURE ITEMS		
	c. LOGISTICS SUPPORT ANALYSIS				j. INTEROPERABILITY		
	d. INTERIM SUPPORT PROGRAMS						
	e. SPARES AND REPAIR PARTS				37. OTHER CONSIDERATIONS		
	f. TECH MANUALS/PROGRAMMING TAPES				a. INTERFACE		
	g. FACILITIES				b. OTHER AFFECTED EQUIPMENT/GFE/ GFI		
	h. SUPPORT EQUIPMENT				c. PHYSICAL CONSTRAINTS		
	i. OPERATOR TRAINING				d. COMPUTER PROGRAMS AND RESOURCES		
	j. OPERATOR TRAINING EQUIPMENT				e. REWORK OF OTHER EQUIPMENT		
	k. MAINTENANCE TRAINING				f. SYSTEM TEST PROCEDURES		
	l. MAINTENANCE TRAINING EQUIPMENT				g. WARRANTY/GUARANTEE		
	m. CONTRACT MAINTENANCE				h. PARTS CONTROL		
	n. PACKAGING, HANDLING, STORAGE, TRANSPORTABILITY				i. LIFE CYCLE COSTS		
38. ALTERNATE SOLUTIONS							
39. DEVELOPMENTAL STATUS							
40. RECOMMENDATIONS FOR RETROFIT							
41. WORK-HOURS PER UNIT TO INSTALL RETROFIT KITS a. ORGANIZATION b. INTERMEDIATE c. DEPOT d. OTHER				42. WORK-HOURS TO CONDUCT SYSTEM TESTS AFTER RETROFIT			
43. THIS CHANGE MUST BE ACCOMPLISHED <input type="checkbox"/> BEFORE <input type="checkbox"/> WITH <input type="checkbox"/> AFTER THE FOLLOWING CHANGES				44. IS CONTRACTOR HELD SERVICE ENGINEERING REQUIRED? <input type="checkbox"/> YES <input type="checkbox"/> NO		45. OUT OF SERVICE TIME	
46. EFFECT OF THIS ECP AND PREVIOUSLY APPROVED ECPs ON ITEM				47. DATE CONTRACTUAL AUTHORITY NEEDED FOR PRODUCTION RETROFIT _____			

ENGINEERING CHANGE PROPOSAL (Page 4 of 6)**48. ESTIMATED NET TOTAL COST IMPACT (Use parentheses for savings)**

FACTOR	COSTS/SAVINGS UNDER CONTRACT					OTHER COSTS/ SAVINGS TO THE GOVERNMENT
	NON-	RECURRING			TOTAL	
	RECURRING	UNIT	QUANTITY	TOTAL		
	(1)	(2)	(3)	(Recurring) (4)	(5)	
a. PRODUCTION COSTS/SAVINGS						
CONFIGURATION ITEM/CSCI						
FACTORY TEST EQUIPMENT						
SPECIAL FACTORY TOOLING						
SCRAP						
ENGINEERING, ENG. DATA REVISION						
REVISION OF TEST PROCEDURES						
QUALIFICATION OF NEW ITEMS						
SUBTOTAL OF PROD. COSTS/SAVINGS						
b. RETROFIT COSTS						
ENGINEERING DATA REVISION						
PROTOTYPE TESTING						
KIT PROOF TESTING						
RETROFIT KITS FOR OPERATIONAL SYSTEMS						
SPECIAL TOOLING FOR RETROFIT						
CONTRACTOR FIELD SERVICE ENGINEERING						
GOVT PERSONNEL INSTALLATION						
TESTING AFTER RETROFIT						
MODIFICATION OF GFE						
QUALIFICATION OF GFE						
SUBTOTAL OF RETROFIT COSTS/SAVINGS						
c. INTEGRATED LOGISTICS SUPPORT COSTS/SAVINGS						
SPARES/REPAIR PARTS REWORK						
NEW SPARES AND REPAIR PARTS						
SUPPLY/PROVISIONING DATA						
SUPPORT EQUIPMENT						
RETROFIT KITS FOR SPARES						
OPERATOR TRAINING COURSES						
MAINTENANCE TRAINING COURSES						
REV. OF TECH MAN/PROGRAMMING TAPES						
NEW TECH MAN/PROGRAMMING TAPES						
TRAINING/TRAINERS						
INTERIM SUPPORT						
MAINTENANCE MANPOWER						
COMPUTER PROGRAMS/DOCUMENTATION						
SUBTOTAL OF ILS COSTS/SAVINGS						
d. OTHER COSTS/SAVINGS						
e. SUBTOTAL COSTS/SAVINGS						
SUBTOTAL UNDER CONTRACT						
f. COORDINATION OF CHANGES WITH OTHER CONTRACTORS						
g. COORDINATION CHANGES BY GOVERNMENT						
h. ESTIMATED NET TOTAL COSTS/SAVINGS						

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ENGINEERING CHANGE PROPOSAL (HARDWARE) (Page 5 of 6)

MILESTONE CHART

49. DATE AUTHORIZATION TO PROCEED
RECEIVED BY CONTRACTOR →



START OF DELIVERY



COMPLETE DELIVERY



PROGRESS

	No. MONTHS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
C O N F I G U R A T I O N I T E M	PRODUCTION																																				
	TECH MANUALS																																				
	RETROFIT																																				
	SPARES/REPAIR PARTS																																				
S U P P O R T E Q U I P M E N T	PRODUCTION																																				
	TECH MANUALS/PROG. TAPES																																				
	RETROFIT																																				
	REPAIR PARTS																																				
T R A I N I N G	OPERATOR																																				
	MAINTENANCE																																				
	No. OF MONTHS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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ENGINEERING CHANGE PROPOSAL (SOFTWARE) (Page 6 of 6)

MILESTONE CHART

50. DATE AUTHORIZATION TO PROCEED
RECEIVED BY CONTRACTOR →



START OF DELIVERY



COMPLETE DELIVERY



PROGRESS

	No. MONTHS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
C O N F I G U R A T I O N I T E M	SOFTWARE ENGINEERING																																				
	SOFTWARE DOCUMENTATION																																				
	SOFTWARE REPLICATION																																				
	SOFTWARE DISTRIBUTION																																				
S U P P O R T E Q U I P M E N T	SOFTWARE ENGINEERING ENVIRONMENT UPGRADE																																				
	SOFTWARE TEST ENVIRONMENT UPGRADE																																				
T R A I N I N G	OPERATOR																																				
	MAINTENANCE																																				
	No. OF MONTHS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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5.7 Figure 7 - Request for Deviation/Waiver Form

REQUEST FOR DEVIATION / WAIVER (RFD/RFW)				1. DATE (YYMMDD)		Form Approved OMB No. 0704-0188	
<small>Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</small> PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.						2. PROCURING ACTIVITY NUMBER	
						3. DODAAC	
4. ORIGINATOR		b. ADDRESS (Street, City, State, Zip Code)		5. (X one)			
a. TYPED NAME (First, Middle Initial, Last)				<input type="checkbox"/> DEVIATION <input type="checkbox"/> WAIVER			
7. DESIGNATION FOR DEVIATION / WAIVER		8. BASELINE AFFECTED		9. OTHER SYSTEM/CONFIGURATION ITEMS AFFECTED			
a. MODEL/TYPE	b. CAGE CODE	c. SYS DESIG	d. DEV/WAIVER NO	<input type="checkbox"/> FUNCTIONAL <input type="checkbox"/> PRODUCT	<input type="checkbox"/> ALLOCATED	<input type="checkbox"/> YES <input type="checkbox"/> NO	
10. TITLE OF DEVIATION / WAIVER							
11. CONTRACT NO. AND LINE ITEM				12. PROCURING CONTRACTING OFFICER			
				a. NAME (First, Middle Initial, Last)			
				b. CODE			
				c. TELEPHONE NO			
13. CONFIGURATION ITEM NOMENCLATURE				14. CLASSIFICATION OF DEFECT			
				a. CD NO			
				b. DEFECT NO			
				c. DEFECT CLASSIFICATION			
				<input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> CRITICAL			
15. NAME OF LOWEST PART / ASSEMBLY AFFECTED				16. PART NO. OR TYPE DESIGNATION			
17. EFFECTIVITY				18. RECURRING DEVIATION / WAIVER			
				<input type="checkbox"/> YES <input type="checkbox"/> NO			
19. EFFECT ON COST / PRICE				20. EFFECT ON DELIVERY SCHEDULE			
21. EFFECT ON INTEGRATED LOGISTICS SUPPORT, INTERFACE OR SOFTWARE							
22. DESCRIPTION OF DEVIATION / WAIVER							
23. NEED FOR DEVIATION / WAIVER							
24. CORRECTIVE ACTION TAKEN							
25. SUBMITTING ACTIVITY							
a. TYPED NAME (First, Middle Initial, Last)		b. TITLE		c. SIGNATURE			
26. APPROVAL / DISAPPROVAL		a. RECOMMEND		b. APPROVAL		c. DISAPPROVAL	
b. APPROVAL		c. GOVERNMENT ACTIVITY					
<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED							
d. TYPED NAME (First, Middle Initial, Last)		e. SIGNATURE			f. DATE SIGNED (YYMMDD)		
g. APPROVAL		h. GOVERNMENT ACTIVITY					
<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED							
i. TYPED NAME (First, Middle Initial, Last)		j. SIGNATURE			k. DATE SIGNED (YYMMDD)		

Previous editions are obsolete

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5.9 Figure 9 – Notice of Revision (NOR)

NOTICE OF REVISION (NOR) THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.		1. DATE (YYMMDD)		Form Approved OMB No. 0704-0188	
<p>Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188) Washington, DC 20503.</p> <p>PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT / PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</p>				2. PROCURING ACTIVITY NUMBER	
				3. DODAAC	
4. ORIGINATOR		b. ADDRESS (Street, City, State, Zip Code)		5. CAGE CODE	
a. TYPED NAME (First, Middle Initial, Last)				7. CAGE CODE	
				8. DOCUMENT NO.	
9. TITLE OF DOCUMENT		10. REVISION LETTER		11. ECP NO.	
		a. CURRENT b. NEW			
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES				Sheet of	
13. DESCRIPTION OF REVISION					
14. THIS SECTION FOR GOVERNMENT USE ONLY					
a. (X one)		(1.) Existing document supplemented by this NOR may be used in manufacture.			
		(2.) Revised document must be received before manufacture may incorporate this change.			
		(3.) Custodian of master document shall make above revision and furnish revised document.			
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT			c. TYPED NAME (First, Middle Initial, Last)		
d. TITLE		e. SIGNATURE		f. DATE SIGNED (YYMMDD)	

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ANNEX CD TO VOLUME 3

TERMS AND CONDITIONS OF LOAN AGREEMENTS
TO CONTRACTORS

FOR THE

OPTIMIZED WEAPON SYSTEM SUPPORT (OWSS)

FOR THE

INTEGRATED SOLDIER SYSTEMS (ISS)

18 JANUARY 2013



LOAN AGREEMENT

Covering the loan of Department of National Defence equipment through the Disposal, Sales, Artifacts and Loans Office

INSTRUCTION TO CONTRACTOR:

DSAL loan No

1. Submit original copy to Disposal, Sales, Artefacts and Loans for processing.
2. The following items are not to be included in this Agreement: consumable materials, equipment for catering contractors or commercially available equipment.

Contract Number:	Contract Description
If Applicable, date requested for equipment:	Expiry date:
Address of Contractor:	Address for equipment delivery:

This Loan Agreement is made by and between:

The Minister of National Defence (Lender) and _____
Contractor Corporate Name (Borrower)

Witnesseth

For and in consideration of the performance of the Terms and Conditions hereinafter referred to, the parties hereto agree as follows:

1. The Lender hereby loans to the Contractor and the Contractor hereby borrows all the equipment listed in Schedule “A-B-C” hereto, hereinafter referring to “the equipment” in the Terms and Condition, applicable to the type of defence work to be performed by the Borrower pursuant to this Loan Agreement.

2. Schedules “A-B-C” are hereby made a part of this Agreement.

In witness thereof the parties hereto have executed these presents.

Minister of Department of National Defence (lender) Recommended by: DND Requisitioning Authority PFO Name and title Signature Date Approved by: Section Head - Disposal, Sales, Artefacts and Loans for the Minister of National Defence Name Signature Date	Contractor (Borrower) Per: Name and Title Signature Date SEAL
--	---

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TERMS OF LOAN AGREEMENT

Terms Applicable to Contracted Defence Work

Loan Type / Accounting

1. All equipment issued under the Contract Loan Account (CLA) _____ shall be accounted for as per the Canadian Forces Supply System (CFSS) automated procedures in accordance with A-LM-007-014/AG-001 and/or A-LM-184/JS-001.
2. All equipment loaned as Special Production Tooling/Special Test Equipment (SPT/STE) shall be accounted for in either a manual or an automated system. Regardless of the system used, the Contractor shall maintain an audit trail acceptable to DND. Further, any automated or manual materiel accounting system shall first be approved by DND. Supply accounting records for DND materiel shall be maintained separate from other company records.

General Conditions

3. The equipment loaned to the Contractor shall be used only for the purpose of performing the defence work identified in this Contract or such other defence work as may be authorized in writing by PWGSC from time to time.
4. Commercial work shall not be carried out using the equipment.
5. The Contractor shall ensure that each item of equipment is clearly identified as the property of the Government of Canada. In addition, the Contractor shall ensure that each item of equipment is, at all times, either tagged or labeled with a clearly visible identification number corresponding to that shown on the issue document issued in respect thereof; and shall be responsible for making any changes in that number that may be notified from time to time by DND.
6. The Crown's representative(s) shall have the right to inspect the equipment at the location where it is stored or used at any time and the Contractor shall provide any reasonable assistance required for that purpose.
7. No rent shall be payable by the Contractor to the Crown in respect of equipment loaned for Canadian defence work.
8. The Department of National Defence will pay or reimburse the Contractor for reasonable and proper costs incurred by the Contractor in taking possession of the equipment and moving it to and from the Contractor's plant or other authorized location, including the cost of labour and materials in connection with the packaging and transportation of the equipment.

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Stocktaking / Disposal

9. The Contractor shall initiate and complete a one hundred per cent (100%) manual stocktaking of all DND loaned materiel contained within the Contract Loan Account (CLA), and SPT/STE at least once every two years in accordance with Volume 3 Chapter 8 of A-LM-007-014/AG-001 and/or A-LM-184/JS-001.

10. An itemized listing of all the GFE and SPT/STE materiel shall be submitted to the Requisitioning Authority within thirty (30) calendar days of completion of the stocktaking.

11. In conjunction with the stocktaking schedule, the Contractor shall carry out a review of CLA and SPT/STE to determine if stock holdings include any item which:

- has become surplus to requirement as a result of removal of the end item from the Selection Notice and Priority Summary(SNAPS); or,
- has become redundant because of a modification change notice, product improvement, etc.

12. The Contractor shall request the Requisitioning Authority’s permission to dispose of and/or transfer materiel that meet the above criteria and shall prepare and handle the necessary documentation in accordance with the appropriate chapters of A-LM-007-014/AG-001 and/or A-LM-184/JS-001. On bulk transfer/disposal of DND owned materiel contained in the CLA, or SPT/STE accounts, handling fees, if applicable, are subject to a separate PWGSC negotiated rate.

Loss or Damage

13. The Contractor shall report to the National Defence Quality Assurance Representative (NDQAR) all instances of loss or damage to DND owned materiel in his custody within two (2) working days of confirmation of its discovery. If the Contractor is authorized to make repairs to damaged DND-owned equipment by the Requisitioning Authority, he shall notify the NDQAR before any repair commences to enable adequate government quality assurance of the repair. Loss or damage of materiel in transit shall be actioned in accordance with Volume 3 Chapter 7 of A-LM-007-014/AG-001 and/or A-LM-184/JS-001.

14. In the event of loss or damage, the Contractor shall repair or replace, or have replaced, the equipment to the satisfaction of the Minister, or reimburse the Crown to the full value of the equipment as indicated in schedule A, B and C.

15. “Optional” at the discretion of the borrower, may insure the equipment against loss or damage by fire or supplemental perils or any other risks while the equipment is in his care, custody or control but not portion of the premium cost will be assumed by the Crown.

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Termination / Return of Equipment

16. DND may terminate the loan or any part thereof at any time, and recall the equipment concerned with that termination.

17. Unless DND otherwise advises the Contractor in writing, the Contractor shall return the equipment to the destination designated in the supply documentation upon the expiration of the loan agreement. In the event that the Contractor completes its defence work prior to the expiration of the loan agreement, the Contractor shall request return instructions from DND. When equipment is ready to be returned to DND, the Contractor shall prepare a condition report and advise the appropriate NDQAR to arrange for any necessary inspection and evaluation of the condition of the equipment.

Condition / Maintenance of Equipment

18. The Contractor agrees that the equipment loaned pursuant to this Agreement is furnished "as is" by the Crown. To that end, the Crown, its Ministers, officers, servants, agents, employees and members of the Canadian Forces shall not, by virtue of having loaned the equipment to the Contractor, have made or be deemed to have made any representations, warranties or guarantees as to the condition, quality or fitness for a particular purpose of the loaned equipment; nor does the Crown, its Ministers, officers, servants, agents, employees and members of the Canadian Forces assume any liability for the results achieved or the ability or inability of the contractor to use the loaned equipment arising from any cause.

19. The Contractor shall indemnify and save harmless the Crown, its Ministers, officers, servants, agents, employees and members of the Canadian Forces from and against all claims, demands, damages, loss, costs, expenses, actions, causes of action, suits or other proceedings by whomsoever made, arising out of any injury to persons (including injuries resulting in death) or loss of or damage to property of others that may be caused by or suffered as a result of the operation, use, or transportation of the equipment by the Contractor or any action taken or things done by virtue of this loan.

20. The maintenance of the equipment shall be in accordance with DND Standards, a copy of which the Contractor acknowledges to have in its possession.

21. The Contractor shall take reasonable and proper care of the equipment at his own expense, including the maintenance and calibration, thereof during the term of this loan and shall be responsible for any loss or damage resulting from its failure to do so other than loss or damage caused by fire or by ordinary wear and tear.

Controlled Goods Registration

22. If the Contractor is advised that the loaned equipment includes controlled goods, then pursuant to the Defence Production Act, access to these controlled goods is only permitted to persons or firms that are either registered, or exempt from registration, under the Controlled Goods Registration Program (CGRP). Therefore, the Contractor must demonstrate compliance to the CGRP before the equipment may be provided, If at any time, the Contractor loses its registration or its exempt status, the contractor must immediately inform the RA. The Contractor must make arrangements to cancel outstanding demands for equipment that includes controlled goods, and to return any and all of this type of equipment in his possession.

Initials: RA:_____ Contractor:_____ DSAL:_____

SCHEDULE A

The equipment listed in Schedule “A” includes Automated items, which are managed through the CFSS.

Quantity	Stock Number	Description of Equipment	DMC	Unit Value

Initials: RA:_____ Contractor:_____ DSAL:_____

SCHEDULE B

The equipment listed in Schedule “B” includes items that require US Department Approval and will only be added to the loan, upon receipt of authorization.

Quantity	Stock Number	Description of Equipment	DMC	Unit Value

Initials: RA:_____ Contractor:_____ DSAL:_____

SCHEDULE C

The equipment listed in Schedule “C” includes Non-Automated items, machine tools, special tools, test equipment, tooling and ground handling equipment.

Quantity	Part Number	Description of Equipment	DMC	Unit Value

Initials: RA:_____ Contractor:_____ DSAL:_____

ANNEX CE TO VOLUME 3

REFERENCES, ACRONYMS & GLOSSARY FOR THE OPTIMIZED WEAPON SYSTEM SUPPORT (OWSS) OF THE INTEGRATED SOLDIER SYSTEM (ISS)

18 JANUARY 2013

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HISTORY

Revision	Date	Description

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1 REFERENCES

Document Name	Document Title / Description
1.1 Canadian Forces Technical Orders and Manuals	
A-AD-100-100/AG-000	National Defence Publishing Policy and Administration Procedures
A-DS-100-100/AG-002	Writing, Format and Production Guide to Administrative, Operational and Technical Publications
A-EN-007-000/FP-001	DND Environmental Assessment Manual
A-GG-040-004/AG-001	General Safety Program
A-LM-007-014/AG-001	Canadian Forces Supply Manual
A-LM-184-001/JS-001	Special Instructions - Repair and Overhaul Contractors
A-LM-505-001/AG-001	Guidance Manual - Integrated Logistics Support
A-LM-505-001/AG-002	Guidance Manual - Logistics Support Analysis
A-LM-505-010/JS-001	Material Management Instruction - Official Languages Requirements for Technical Documentation
A-LM-505-354/JS-001	Material Management Instruction - Assignment of Military Nomenclature for Electronic Aeronautical Photographic & Naval Equipment
A-LM-505-630/JS-001	Initial Supply Support - MMI 1630
A-P9-050-000/PT-001	Canadian Forces Individual Training and Education System, Volume 1 - Introduction/Description
A-P9-050-000/PT-002	Canadian Forces Individual Training and Education System, Volume 2 - Needs Assessment
A-P9-050-000/PT-003	Canadian Forces Individual Training and Education System Volume 3 - Analysis of Instructional Requirements
A-P9-050-000/PT-004	Canadian Forces Individual Training and Education System, Volume 4 - Design of Instructional Programmes
A-P9-050-000/PT-005	Canadian Forces Individual Training and Education System, Volume 5 - Development of Instructional Programmes

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Document Name	Document Title / Description
A-P9-050-000/PT-006	Canadian Forces Individual Training and Education System, Volume 6 - Conduct of Instructional Programmes
A-P9-050-000/PT-007	Canadian Forces Individual Training and Education System, Volume 7 - Evaluation of Learners
A-P9-050-000/PT-008	Canadian Forces Individual Training and Education System, Volume 8 - Validation of Instructional Programmes
B-GL-332-008/FP-001	Insert: Infantry
B-GL-334-001/FP-001	Standing Operating Procedures for Land Operations
C-01-000-000/DA-001	NDID Coding System
C-01-000-001/AG-001	Specifications - Authoring, Publishing and Distribution (APDS) Deliverables Requirements
C-01-000-102/AG-000	National Defence Index of Documentation
C-01-100-100/AG-005	Acceptance of Commercial and Foreign Government Publications as Adopted Publications
C-01-100-100/AG-006	Specification - Writing, Format and Production of Technical Publications
C-01-100-100/AG-008	Specifications - Writing Guide for Technical Documentation
C-02-008-001/TS-000	General Safety Lithium Batteries Handling, Storage Preservation and Disposal Instructions
C-02-040-007/TS-001	General Safety Precautions
C-02-040-009/AG-001	DND General Safety Standards (1999)
C-55-040-001/TS-001	Radio Frequency Radiation Safety Technical Requirements and Precautions
CF 1280	Certificate of Inspection and Release
CS-108	Eyelet Drawing
CS-110	Spur Washer Drawing

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Document Name	Document Title / Description
D-01-000-200/SF-001	Specification - Military Nomenclature Assignment and Procedures
D-01-002-007/SG-001	Requirements for the Preparation of CM Plans
D-01-002-007/SG-006	Requirements for the Selection of Configuration Items
D-01-100-214/SF-000	Specification for Preparation of Provisioning Documentation for Canadian Forces Equipment
D-01-100-215/SF-000	Specification for Preparation of Materiel Change Notices for Canadian Forces Equipment
D-01-300-100/SG-000	Specification Preparation
D-01-400-001/SG-000	Standard - Engineering Drawing Practices for Class 1 Drawings and Technical Data Lists
D-02-002-001/SG-001	Canadian Forces Standard - Identification Marking of Canadian Military Property
D-02-006-008/SG-001	The Design Change, Deviation & Waiver Procedure
D-71-001-001/SF-002	Specification for Serial Numbering of Small Calibre Weapons
D-80-001-055/SF-001	Label, Clothing and equipment
D-80-001-500/SF-001	Specification for CADPAT TW (Canadian Disruptive Pattern (Temperature Woodland))
D-LM-008-001/SF-001	Methods of Packaging
D-LM-008-002/SF-001	Specification for Marking for Storage and Shipment
D-LM-008-022/SG-000	Standard for Packaging of Documentation
D-LM-008-036/SF-000	DND Minimum Requirements for Manufacturer's Standard Pack
DND 590	Certificate of Validation Form
DND 591	Certificate of Compliance Form
DND 626	Task Authorisation Form
DND 642	Certificate for Reproducible Copy

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Document Name	Document Title / Description
1.2 Documents and Data to be provided to Contractor only	
CF 942 Tag	Material Condition Tag
DSSPM 251-04	Mesh, 100% Polyester, Warp Knit CADPAT™ Light Sand, sealed for construction only
DSSPM 259-01	Cloth, Twist, Cotton/Nylon, Lightweight, CADPAT (TW) (Disruptive Pattern Temperate) for pattern, motif, size, colour distribution, clarity and colour guidance
DSSPM 267-01	MLCS Sealed Pattern
DSSPM 271-07	Cloth, Plain Weave, Nylon, Polyurethane Coated 230 g/m², Type II, Sealed for construction and finish for Type II
DSSPM- 281-00	Cloth, Nylon, Polyurethane Coated, 425 g/m² for construction and hand
DSSPM 281-01	Cloth, Twist, Nylon/Cotton 170 g/m², Canadian Average Green (For colour and IRR properties)
DSSPM Data Files	VMF Message Format Details
Interface Control Document	IS-GPS-153D
Interface Control Document	IS-GPS-164
MIL-STD-6017A	Variable Message Format
RTVM	Requirements Traceability Verification Matrix
1.3 DSSPM-controlled Documents and Data	
CG_CORAL CRC Comms UN-6461-0000-00CSRevA_recd28Oct11.pdf	CORAL-CR-C Communication Specification
CG_CORAL CRC C UN-6461-0000-00EIRRevC.pdf	CORAL-CR-C Electrical Interface
CG_CORAL CRC Drawing un6461-0000-901F#RevC_recd28Oct11.pdf	CORAL-CR-C Drawing

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Document Name	Document Title / Description
D-80-001-091/SF-001	Cloth, Plain Weave Nylon - 195 g/m ² and 230g/m ²
DSSPM 2-2-80-211	Specification for Cloth Coated Nylon / Polyurethane, 425 g/m ²
DSSPM 464-10	Modular Load Carriage System (MLCS), Front Chest Rig
DSSPM 466-10	Modular Load Carriage System (MLCS), Chest Rig- Back Yoke
DSSPM Data Files	Evaluation Area Maps
DSSPM Data Files	Sound Audio files
DSSPM Data File	Tumbling E Test
MLCS 14	MLCS Paper Pattern
1.4 DGLEPM EHS Management System Instructions	
DGLEPM I 600-04	<p>Environmental, Health and Safety Assessment (http://dglepm.ottawa-hull.mil.ca/dleps/dleps6/ehsms/instructions/DGLEPM%20I%20600-04-EHS%20Assessment.doc)</p> <p>Canadian Government Publishing Center</p> <p>Public Works and Government Services Canada</p> <p>Ottawa, Canada</p> <p>KIA OS9</p> <p>WWW: http://www.tc.gc.ca/acts-regulations/acts/1993c16/menu.htm</p>
1.5 International Organization for Standardization	
IEEE 802.3	Ethernet
ISO 845	Cellular plastics and rubbers - Determination of apparent density
ISO 7214	Cellular plastics - Polyethylene - Methods of test
ISO 9001-2008	Quality Management Systems - Requirements
ISO 9126-1:2001	Software Engineering - Product Quality - Part 1 Quality Model.

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Document Name	Document Title / Description
ISO 9660	Information Processing - Volume and File Structure of CDROM for Information Interchange
ISO 14001	Environmental Management System
ISO/IEC/IEEE 12207:2008	Software engineering - Software life cycle processes
ISO/IEC/IEEE 15288:2008	Systems engineering - System life cycle processes
ISO/IEC 15289:2006	Systems and software engineering - Content of systems and software life-cycle process information products (Documentation).
ISO/IEC 90003	Guidelines for the Application of ISO 90001:2000 to Computer Software
1.6 US Military Standards/Handbooks/Drawings	
MIL-HDBK-338B	Electronic Reliability Design Handbook
MIL-HDBK-454	General Guidelines for Electronic Equipment.
MIL-HDBK-470A	Designing And Developing Maintainable Products and Systems
MIL-HDBK-502	Acquisition Logistics Handbook
	Standardization Document Order Desk 700 Robbins Avenue, Building 4D Philadelphia, PA, USA 19111-5094
MIL-HDBK-881	DoD Handbook - Work Breakdown Structure
MIL-HDBK – 46855A	Human Engineering Guidelines for Military Systems Equipment and Facilities
MIL-STD 196	Joint Electronics Type Designation System
MIL STD 461F	Department of Defense Interface Standards: Requirements for the Control of electromagnetic Interference Characteristics of Subsystems and Equipment.
MIL STD 464A	Electromagnetic Effects, Requirements for Systems.

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Document Name	Document Title / Description
MIL STD 810F and G	Environmental Engineering Considerations and Laboratory Tests
MIL-STD 973	Configuration Management
MIL STD 1388-2B	DOD Requirements For A Logistic Support Analysis Record
MIL STD 1472F	Human Engineering
MIL STD 1474D	Department of Defence Design Criteria Standard - Noise Limits
MIL STD 1686C	Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment.
MIL-STD-1916	DOD Preferred Methods of Acceptance of Product
MIL-STD-2045-47001Dch1	Connectionless Data Transfer Application Layer Standard
MIL-STD-2500B	DOD Interface Standard National Imagery Transmission Format (version 2.1) for the National Imagery Transmission Format Standard.
1.6.1 Military Specifications	
MIL-B-18E	Batteries, Non-Rechargeable, Dry
MIL-F-495	Finish, Chemical, Black, for Copper Alloys
MIL-L-46000	Lubricant, semi-fluid, automatic weapons
MIL-PRF-372D	Rifle Bore Cleaner Cleaning Compound, Solvent
MIL-PRF-680B	Solvents
MIL-PRF-2104H	Performance Specification: Lubricating Oil, Internal Combustion Engine, Combat/Tactical Service
MIL-PRF-14107	Lubricating oil, Weapons, Low Temperature
MIL-PRF-32033	Lubricating oil, general purpose, preservative (water-displacing, low temperature)
MIL-PRF-32052(CR)	Performance Specification Batteries, Rechargeable, Sealed
MIL-PRF-32271	Performance Specification Batteries, Non-Rechargeable, Lithium

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Document Name	Document Title / Description
MIL-PRF-46170D	Performance Specification: Hydraulic Fluid, Rust Inhibited, Fire resistance, Synthetic Carbon Base
MIL-PRF-5038J	Performance Specification: Tape, Textile, and Webbing, Textile, Reinforcing, Nylon
MIL-W-17337	Webbing, Textile, Woven Nylon
MIL-W-43668	Webbing, Textile, Textured or Multifilament Nylon
1.7 NATO STANAGs	
STANAG 2104	Friendly Nuclear Strike Warning (STRIKWARN) - Edition 9
STANAG 2290 AST (Edition 2)	NATO Unique Identification of Items
STANAG 2895	Extreme Climatic Conditions and Derived Conditions for use in Defining Design/Test Criteria for NATO forces Material
STANAG 3748	Hydraulic Fluid, Petroleum (H-515, H-520 and C-635) and Polyalphaolefin (H-537, H-538 and H-544)
STANAG 4545	NATO Secondary Image Format (NSIF) - Ed 1 Amd 1
STANAG 4591	NATO Narrow Band Voice Coder
1.8 UK Defence Standards	
1.9 US Federal Standards	
A-A-52624A	Antifreeze, Multi-engine type
A-A-55301	Authorised replacement for MIL-W-43668 Commercial Item Description : Webbing Textile, Textured or Multifilament Nylon
A-A-55126 B	Commercial Item description: Fastener tapes, Hook and Loop, Synthetic
Allison TES 228	C-4 Heavy-Duty Automatic Transmission Fluid Specification
FAA Human Factors Design Std: 2003	Federal Aviation Administration - Human Factors Design Standards
	General Services Administration

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Document Name	Document Title / Description
	Specification Section Room 6662, 7th and D Streets, SW Washington, DC 20407
Standard for Safety of Flammability of Plastic Materials for Parts in Devices and Appliances Testing	UL94
1.10 Commercial Standards	
ANSI/AIM BC4-1999	Linear (One-Dimensional) Bar Code Symbolologies
ANSI/EIA-649-A 2004	National Consensus Standard for Configuration Management
ANSI/GEIA-STD-0009-2008	Reliability Program Standard for System Design, Development and Manufacturing
ASTM D 412	Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomer - Tension
ASTM D573	Standard Test Method for Rubber - Deterioration in an air oven.
ASTM D 624	Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomer
ASTM D975-07b	Standard Specification for Diesel Fuel Oils
ASTM D3774	Standard Test Methods for Width of Textile Fabric
ASTM D3776	Standard Test Method for Mass per Unit Area (Weight) of Fabric.
ASTM D4814-04B	Standard Specification for Automotive Spark-Ignition Engine Fuel
ASTM D4964	Standard Test Method for Tension and Elongation of Elastic Fabrics (Constant-rate-of-Extension Type Tensile Testing Machine)
ASTM D4966	Standard Test Method for Abrasion Resistance of Textile Fabrics (Matindale Abrasion tester method).
ASTM D6210	Standard Specification for Fully-Formulated Glycol Base Engine Coolant for Heavy-Duty Engines

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Document Name	Document Title / Description
CAN/CGSB 3.3	Kerosene
CAN/CGSB 3.5	Unleaded Gasoline
CAN/CGSB 3.517	Diesel Fuel
CAN/CGSB 4GP-85Ma	Nylon Thread (Continuous Multifilament)
CAN/CGSB 4.2	Textile Test Methods
CAN/CGSB-43.22-2001	Corrugated Fireboard Products
CAN/CGSB 54.1-M	Stitches and Seams
CAN/CGSB 86.1-2003	Care Labelling of Textiles
CNSSI 4009	National Information Assurance Glossary
Dexron III	Automatic Transmission Fluid
ECMA - 341	ECMA International Standard "Environmental Design Considerations for ICT and CE Products"
FIPS 140-2	Security Requirements for Cryptographic Modules
FIPS 180-3	Secure Hash Standard
FIPS 197	Advanced Encryption Standard (AES)
FIPS 198-1	The Keyed-Hash Message Authentication Code (HMAC)
IEC 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test
IETF RFC 791	Internet Protocol
IETF RFC 1918	Address Allocation for Private Internets
IETF RFC 2474	Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers
IETF RFC 2475	An Architecture for Differentiated Service
IETF RFC 3260	New Terminology and Clarifications for Diffserv

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Document Name	Document Title / Description
IETF RFC 4632	Classless Inter-Domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan
IETF RFC 5771	IANA Guidelines for IPv4 Multicast Address Assignments
IETF STD 0005	Internet Protocol (IPv4)
IETF STD 0006	User Datagram Protocol
NIST SP 800-38A	Recommendation for Block Cipher Modes of Operation: Three variants of Cipher test Stealing for CBC Mode
NIST SP 800-38B	Recommendation for Block Cipher Modes of Operation: The CMAC Mode for Authentication
NIST SP 800-38C	Recommendation for Block Cipher Modes of Operation: the CCM Mode for Authentication and Confidentiality
NIST SP 800-38D	Recommendation for Block Cipher Modes of Operation: Gatois/Counter Mode (GCM) and GMAC
NIST SP 800-57	Recommendation for Key Management
SAE AS 81044	Wire, Electrical, Crosslinked Polyalkene, Crosslinked Alkane-Imide Polymer, or Polyarylene Insulated, Copper or Copper Alloy
SAE JA1000	Reliability Program Standard
SAE JA1010	Maintainability Program Standard
SAE JA1002	Software Reliability Program Standard
UCC/EAN-128	Encoding System Code 128 barcodes
1.11 Other Publications	
	Acoustical Society of America (ASA) S3.2 American National Standard Method for measuring the Intelligibility of Speech over Communications Systems
	Acquisition Contract for ISS
	OHSAS 18001

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Document Name	Document Title / Description
	Canada Labour Code
	The Canadian Environmental Protection Act, 1999
	The Canadian Environmental Assessment Act
	Hazardous Products Act
	Transportation of Dangerous Goods Act
	Federal Halocarbon Regulations
	Canada Occupational Health and Safety Regulations
	The Canada Wildlife Act
	The Migratory Birds Convention Act, 1994
	The Wild Animal and Plant Protection and Regulation Act
	International and Interprovincial Trade Act
	The Antarctic Environmental Protection Act
	The International River Improvements Act
	The Canada National Parks Act
	The Canada National Marine Conservation Areas Act
	The Saguenay - St. Lawrence Marine Park Act
	Risk Management Strategy for Mercury-Containing Products, Environment Canada, 2006
	Mercury Regulations
	Ozone-Depleting Substances Regulations
	Environmental Emergency Regulations, SOR/2003-307
	Notice Requiring the Preparation and Implementation of Pollution Prevention Plans in Respect of Mercury Releases from Mercury Switches in End-of-Life Vehicles Processed by Steel Mills, 29 Dec

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Document Name	Document Title / Description
	2007, Canada Gazette Vol 141, No. 52
	List of Accelerated Reduction/Elimination of Toxics (ARET)
	National Pollutant release Inventory (NPRI) 2008, Canada Gazette Part 1, 16 Feb 2008
	Canada-wide Standard for Mercury-containing Lamp
	List of Challenged Substances < http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list-eng.php >
	DLA Cataloguing Handbook H4/H8
	Canadian Export List
	Nokia monitor test download: http://www.softpedia.com/progDownload/Nokia-Monitor-Test-Download-464.html
CFAO 34-51	Radio Frequency Radiation Safety
DAOD 4003-1	Hazardous Material Management
DND/AF Version 1.7	DND/CF Architecture Framework

2 ACRONYMS

Acronyms & Abbreviations	Definition
AALA	American Association for Lab Accreditation
ABL	Allocated Baseline
AC	Aircraft
ACK	Acknowledge/Acknowledged
ADO	Adaptive Dispersed Operations
ADREP	Administration Report
ADRG	ARC Digitized Raster Graphics
AES	Advance Encryption Standard
AI	Action Item
AN/PRC	Army Navy / Portable Radio Components
ANSI	American National Standards Institute
AoT	Army of Tomorrow
APDS	Authoring Publishing & Distribution Specifications
ARET	Accelerated Reduction/Elimination of Toxics
ASA	Acoustical Society of America
ASCII	American Standard Code for Information Interchange
ASME	American Society of Mechanical Engineers
ASOW	Acquisition SOW
ASTM	American Society of Testing and Materials
ATC	Area Training Center
ATE	Automatic Test Equipment

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Acronyms & Abbreviations	Definition
BD	Battlefield Day
BER	Beyond Economical Repair
BIT	Built in Test
BLR	Beyond Local Repair
BMS	Battle Management System
Bn	Battalion
C/No	Carrier-to-Noise
C4	Command, Control, Communications and Computers
C4I	Command, Control, Communications, Computers and Intelligence
C4ISR	Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance
CA	Criticality Analysis
CA	Contracting Authority
CADPAT™	Canadian Disruptive Pattern Trade Mark
CADPAT™ TW	Canadian Disruptive Pattern Trade Mark (Temperate Woodland)
CADRG	Compressed ARC Digitized Raster Graphics
CAG	Canadian Average Green
CAGE	Commercial And Government Entity Code
CAP	Configuration Audit Plan
CAPV	Cryptographic Algorithm Validation Program
CAR	Configuration Audit Report
CASEVAC	Casualty Evacuation
CBC	Cipher Block Chaining

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Acronyms & Abbreviations	Definition
CBIL	Consumable and Bulk Item List
CBRN	Chemical, Biological, Radiological and Nuclear
CCITT (ITU)	Comité Consultatif International Téléphonique et Télégraphique (International Telecommunication Union)
CCM	Counter with Cipher Block Chaining - Messages Authentication codes
CCMFR	Close Combat Modular Fighting Rig
CCP	Contract Change Proposal
CD	Classification of Defect
CDRL	Contract Data Requirement List
CDS	Cross Domain Solution
CE	Communications Electronics
CE	Conducted Emissions
CEHSPS	Corporate Environmental Health and Safety Performance Survey
CEPA	Canadian Environment Protection Act
CER	Combat Engineer Regiment
CF	Canadian Forces
CF-31	Panasonic Toughbook CF-31
CFB	Canadian Forces Base
CFB	Cipher Feedback
CFF	Critical Function Failure
CFITES	CF Individual Training and Education System
CFPD	Canadian Forces Publication Depot
CFQAR	Canadian Forces Quality Assurance Region

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Acronyms & Abbreviations	Definition
CFSCE	Canadian Forces School of Communications and Electronics
CFSD	Canadian Forces Supply Depot
CFSEME	Canadian Forces School of Electrical and Mechanical Engineering
CFSS	Canadian Forces Supply System
CFTO	Canadian Forces Technical Order
CFTPO	Canadian Forces Transportation Packaging Orders
CGRR	Controlled Goods Registration Program
CGSB	Canadian General Standards Board
CI	Configuration Item
CITIS	Contractor Integrated Technical Information System
CLA	Contract Loan Agreement
CLT	Collective Training
CM	Configuration Management/Manager
CMAC	Cipher-based Message Authentication Code
CMP	Configuration Management Plan
CNP	Communication Network Planning
CNSSI	Committee on National Security Systems Instruction
CODEC	Coder-Decoder
CoE	Center of Excellence
COI	Communities of Interest
COMSEC	Communications Security
CONOPS	Concept of Operations

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Acronyms & Abbreviations	Definition
COP	Common Operating Picture
COTS	Commercial Off the Shelf
CPU	Central Processing Unit
CS	Conducted Susceptibility
CS	Configuration Specialist
CSA	Configuration Status Accounting
CSA	Canadian Standards Association
CSCI	Computer Software Configuration Item
CSS	Combat Service Support
CST	Cryptographic and Security Testing
CTC	Combat Training Centre
CTR	Counter
CTS	Clothe the Soldier
DAD	Directorate of Army Doctrine
DAGR	Defence Advanced GPS Receiver
DAOD	Defence Administrative Order and Direction
DAR	Data At Rest
DAT	Director of Army Training
dB	Decibel
dB(C)	C-weighted decibel
dBA	A-weighted decibel
DC	Direct Current

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Acronyms & Abbreviations	Definition
DED	Data Element Definition
DEW	Directed Energy Weapons
DGLEPM	Director General Land Equipment Program Management
DI	Data Item
DID	Data Item Description
DIT	Data-In-Transit
DLP	Directorate Land Procurement
DLR	Directorate of Land Requirements
DM	Data Management
DMC	Demilitarisation Code
DMEA	Damage Mode and Effects Analysis
DND	Department of National Defence
DNDAF	DND Architecture Framework
DoDAAC	Department of Defense Activity Address Code
DRDC	Defence Research and Development Canada
DRMIS	Defence Resource Management information system.
DSCO	Directorate Supply Chain Operations
DSSPM	Directorate of Soldier Systems Program Management
DTED	Digital Terrain Elevation Data
DWAN	DND Wide Area Network
EA	Environmental Assessment
EBS	Equipment Breakdown Structure

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Acronyms & Abbreviations	Definition
EC	Engineering Change
ECL	Equipment Check List
ECO	Engineering Change Order
ECP	Engineering Change Proposal
ECR	Engineering Change Request
ECU	End Cryptographic Unit
ED&D	Engineering Design and Development
EEE or E3	Electromagnetic Environmental Effects
EFF	Essential Function Failure
EHE	Estimated Horizontal Error
EHS	Environmental Health And Safety
EHSA	Environmental Health and Safety Assessment
EHSMS	Environmental Health and Safety Management System
EIE	Electronic Information Environment
EM	Electromagnetic
EMC	Electromagnetic Compatibility
EMCON	Emission Control
EMI	Electromagnetic Interference
EMR	Electromagnetic Radiation
EMSEC	Emission Security
EMT	Equipment Management Team
EO	Electronic-Optronic

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Acronyms & Abbreviations	Definition
EPA	Environmental Protection Act
ESD	Electrostatic Discharge
ESL CN	Equipment Support List Change Notice.
ESRI	Environmental Systems Research Institute
FAI	First Article Inspection
FBL	Functional Baseline
FBS	Full Box Stitch
FCA	Functional Configuration Audit
FCC	Federal Communications Commission
FDSC	Failure Definition and Scoring Criteria
FEC	Force Employment Concept
FFD	Fraction of Faults Detected
FFI	Fraction of Faults Isolated
FIFO	First-in-first-out
FM.CFF	Fire Mission. Call for Fire.
FMEA	Failure Mode and Effects Analysis
FMECA	Failure Modes, Effects and Criticality Analysis.
FOB	Forward Operating Base
FOC	Full Operational Capability
FQR	Formal Qualification Review
FSR	Field Service Representative
FW	Firmware

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Acronyms & Abbreviations	Definition
GB	Gigabyte
GCM	Galois Counter Mode
GeoPDF	Geo-referenced Portable Document Format
GeoTIFF	Geo-referenced Tagged Image File Format
GFE	Government Furnished Equipment
GFI	Government Furnished Information
GIDEP	Government-Industry Data Exchange Program
GPS	Global Positioning System
GQA	Government Quality Assurance
GUI	Graphic User Interface
HAZMAT	Hazardous Material
HC	Hard Copy
HDPE	High Density Polyethylene
HERO	Hazard of Electromagnetic Radiation to Ordnance
HFE	Human Factors Engineering
HHTI	Hand Held Thermal Imager
HL	Hearing Level
HMAC	Keyed-Hash Message Authentication Code
HQ	Headquarters
HR	Human Resources
Hz	Hertz
I&A	Identification and Authentication

Acronyms & Abbreviations	Definition
I/O	Input/Output
IAIL	Issue-Action Item Log
IAW	In Accordance With
IC	Industry Canada
ICD	Interface Control Document
ICT	Initial Cadre Training
IEC	International Engineering Consortium
IEEE	Institute of Electrical and electronics Engineers.
IEM	Information Exchange Methodologies
IETF	Internet Engineering Task Force
IHE	Intermediate Hardware Engineer
IILSS	Intermediate Integrated Logistics Support Specialist
ILS	Integrated Logistic Support
ILSM	ILS Manager
ILSP	Integrated Logistics Support Plan
INA	Intermediate Network Administrator
INFOSEC	Information Systems Security
IOC	Initial Operational Capability
IP	Intellectual Property
IP	Internet Protocol
IPC	Initial Provisioning Conference
IR	Infrared

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Acronyms & Abbreviations	Definition
IRR	Infrared Reflectance
ISA	Into Service Acceptance
ISE	Intermediate System Engineer
ISFE	Intermediate Software/Firmware Engineer
ISO	International Organization For Standardization / International Standards Organisation
ISS	Integrated Soldier System
ISS	Intermediate Software Specialist
ISS-A	ISS Acquisition
ISS-CS	Integrated Soldier System Communication Suite
ISSE	Intermediate Software System Engineer
ISS-ES	Integrated Soldier System - Electronics Suite
ISS-OE	Integrated Soldier System - Operational Equipment
ISSP	Integrated Soldier System Project
ISS-S	Integrated Soldier System - Suite
ISS-SE	Integrated Soldier System - Support Equipment
IST	Intermediate System Technologist
IT	Information Technology
IT	Individual Training
IT&E	Individual Training and Education
ITAR	International Traffic in Arms Regulations
ITS	Intermediate Test Specialist
IV&V	Integration Verification and Validation

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Acronyms & Abbreviations	Definition
JHS	Junior Hardware Specialist
JLSS	Junior LCMM Support Specialist
JPEG	Joint Photographic Experts Group
JQS	Junior Quality Specialist
JSE	Junior System Engineer
JSS	Junior Software Specialist
JSSE	Junior Software System Engineer
JST	Junior Software Tester
JTS	Junior Test Specialist
JTW	Junior Technical Writer
KEK	Key Encryption Key
KHz	KiloHertz
KMP	Key Management Planning
KPI	Key Performance Indicator
LAV	Light Armoured Vehicle
LCC	Life Cycle Cost
LCIS	Land Communications and Information Systems
LCMM	Life Cycle Materiel Manager
LCSS	Land Command Support System
LEMS	Land Equipment Management System
LOCREP	Location Report
LOE	Level of Effort

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Acronyms & Abbreviations	Definition
LORA	Level of Repair Analysis
LoRU	Lowest Replaceable Unit
LRF	Laser Range Finder
LRU	Line Replaceable Unit
LS	Logistics Support
LSA	Logistics Support Analysis
LSACN	LSA Change Notice
LSAR	Logistic Support Analysis Record
m	metre
MACA	Month After Contract Award
MACS	Months after Contract start
MASIS	Materiel Acquisition and Support Information System
MaxMTTRSvc	Maximum Mission Time to Restore Service
MaxMTTRSys	Maximum Mission Time to Restore System
MBITR	Multiband Inter/Intra Team Radio
MCN	Material Change Notice
MEL	Master Event List
MFD	Manufacturing Date
MFR	Modular Fighting Rig
MGRS	Military Grid Reference System
MHz	MegaHertz
MIL-PRF	United States Military Performance Specification

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Acronyms & Abbreviations	Definition
MIL-STD	United States Military Standard
MLCS	Modular Load Carriage System
MNVG	Monocular Night Vision Goggles
MOB	Main Operating Base
MOS	Military Operational Scenario
MOSID	Military Occupational Specification Identification
MOTS	Military Off the Shelf
MPS	Master Project Schedule
MRP	Mobile Repair Parties
MRT	Mobile Repair Team
MRT	Modified Rhyme Test
MS	Microsoft
MSDS	Material Safety Data Sheet
MSG	Message
MSI	Maintenance Significant Item
MSTF	Mission Specific Task Force
MTBCF	Mean Time Between Critical Failures
MTBF	Mean Time Between Failure
MTBPM	Mean Time Between Preventive Maintenance
MTSR	Mean Time to Service Restoration
MTTR	Mean Time To Repair
MTU	Maximum Transmission Unit

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Acronyms & Abbreviations	Definition
NARTE	National Association of Radio and Telecommunications Engineers
NATO	North Atlantic Treaty Organization
NAU	Network Access Unit
NBC	Nuclear Biological And Chemical
NCM	Non Commissioned Members
NDHQ	National Defence Headquarters
NDID	National Defence Index of Documentation
NDQAR	National Defence Quality Assurance Representative
NEFF	Non-Essential Function Failure
NEMA	National Electrical Manufacturers Association
NFF	No Fault Found.
NIAG	NATO Industrial Advisory Group
NIMA	National Imagery and Mapping Agency
NIST	National Institute of Standards in Technology
NITF	National Imagery Transmission Format
NLT	Not Later Than
nm	nanometre
NMDS	National Material Distribution System
NOR	Notice of Revision
NORAD	North American Aerospace Defence Command
NPRI	National Pollutant Release Inventory
NRS	Noise Reduction System

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Acronyms & Abbreviations	Definition
NSCM	NATO Supply Code for Manufacturers
NSE	National Support Element
NSIF	NATO Secondary Image Format
NSN	NATO Stock Number
NVLAP	National Voluntary Laboratory Accreditation Program
OEI	Original Equipment Integrator
OEM	Original Equipment Manufacturer
OFB	Output Feedback
OHSMS	Occupational Health and Safety Management System
OM	Obsolescence Management
OMCL	OM Candidates List
OMIR	OM Issues Report
OP	Observation Post
OPCOM	Operational Command
OPEL	OWSS Performance Exception List
OPI	Office of Prime Interest
Ops O	Operations Officer
ORBAT	Order of Battle
OS	Operating System
OTAR	Over-The-Air-Rekeying
OTAZ	Over-The-Air Zeroizing
OWSS	Optimized Weapon System Support

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Acronyms & Abbreviations	Definition
PA	Positional Awareness
PA	Procurement Authority
PALS	Pocket Attachment Ladders System
PBL	Product Baseline
PBR	Performance Based Requirements
PCA	Physical Configuration Audit
PCB	Polychlorinated Biphenyls
PCCO	Project Control and Coordination Officer
PD	Project Director
PDA	Personal Data Assistant
PDF	Portable Document Format
PDHF	Physical Device Hosting Function
PDR	Preliminary Design review
PDU	Power Distribution Unit
PFM	Project Finance Manager
PGM	Program Manager
PHST	Packaging, Handling, Storage & Transportation
PJA	Project Administrator
PJM	Project Manager
PM	Project Management
PMCS	Preventive Maintenance, Checks and Services
PMO	Project Management Office

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Acronyms & Abbreviations	Definition
PMP	Project Management Plan
PN	Part Number - Manufacturer
PO	Performance Objective
POC	Point of Contact
PPB	Provisioning Parts Breakdown
PPE	Personal Protective Equipment
PPI	Pixel per Inch
PRM	Progress Review Meeting
ProdP	Production Plan
PRR	Production Readiness Review
PRS	Permissive Repair Schedule
PS	Performance Specification
PTA	Pure Tone Average
PTT	Push To Talk
PWGSC	Public Works and Government Services (Canada)
QA	Quality Assurance
QAM	Quality Assurance Manager
QAP	Quality Assurance Plan
QAR	Quality Assurance Representative
QC	Quality Control
QCI	Quality Conformance Inspection
QRG	Quick Reference Guide

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Acronyms & Abbreviations	Definition
QTDP	Qualification Test Description and Procedures
R&M	Reliability and Maintainability
R&O	Repair and Overhaul
RAD A+	Radio and Amplifiers
RADHAZ	Radio Frequency Radiation Hazard
RAM	Reliability, Availability and Maintainability
RAMPP	Reliability, Availability and Maintainability Program Plan
RCMA	Reliability Centered Maintenance Analysis
RE	Radiated Emission
RF	Radio Frequency
RFC	Request for Change
RFD	Request for Deviations
RFP	Request For Proposal
RFW	Request for Waiver
RMA	Repairable Material Account
RMR	Repairable material Request
ROE	Rules of Engagement
ROP	Routine Operating Procedures
RPY	Reparability
RS	Radiated Susceptibility
RSDL	Reactive Skin Decontamination Lotion
RSERL	Recommended Support Equipment Requirements Lists

Acronyms & Abbreviations	Definition
RSPL	Recommended Spare Parts Lists
RTF	Rich Text Format
RTVM	Requirements Traceability and Verification Matrix
RV	Rendez-Vous
SA	Situational Awareness
SA	Seam Allowance
SAASM	Selective Availability Anti-Spoofing Module
SAR	Sparing Analysis Report
SAR	Specific Absorption Rate
SAT	System Acceptance Test
SAT DP	System Acceptance Test Descriptions and Procedures
SATP	System Acceptance Test Plan
SC	Soft Copy
SCN	Specification Change Notice.
SDR	System Design Review
SE	System Engineering
SE	Support Equipment
SEMP	System Engineering Management Plan
SEP	System Executive and Planning
SEP-Suite	System Executive and Planning Suite
SHE	Senior Hardware Engineer
SigO	Signal Officer

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Acronyms & Abbreviations	Definition
SILSS	Senior Integrated Logistics Support Specialist
SITREP	Situation Report
SITS	Special Investigation and Technical Studies
SLC	System Life Cycle.
SLSS	Senior LCMM Support Specialist
SM	System Management
SME	Subject Matter Expert
SMI	System Management Instructor
SMP	Standard Military Pattern
SMR	Source Maintenance & Recoverability Code
SNAPS	Selection Notice and Priority Summary
SOP	Standard Operating Procedure
SOR	Statement of Operational Requirement
SOV	System Overview
SOW	Statement Of Work
SPI	Stitches per inch
SPJM	Senior Project Manager
SPL	Sound Pressure level
SPT/STE	Special Production Tooling/Special Test Equipment
SPTD	Supplementary Provisioning Technical Data
SQS	Senior Quality Specialist
SRAAW	Short Range Anti-Armour Weapon

Acronyms & Abbreviations	Definition
SRAAW (L)	SRAAW (Light)
SRAAW (M)	SRAAW (Medium)
SRAR	System Requirement Allocation Review
SRCL	Security Requirements Check List
SSE	Senior System Engineer
SSQS	Senior Software Quality Specialist
SSSE	Senior Software System Engineer
SST	Senior System Technologist
SSTE	Senior SW Test Engineer
STANAG	NATO Standardization Agreement
STD	Standard
STE	Senior Test Engineer
STTE	Special Tools and Test Equipment
STW	Senior Technical Writer
SV	Space Vehicle
SVDD	Software version description Document
SW	Software
TA	Technical Authority
TAC	Translation Accuracy Check
TACIS	Tactical Asset Configuration Information System.
TAM	Tactical Aid Memoire
TAT	Turn Around Time

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Acronyms & Abbreviations	Definition
TDMP	Technical Documentation Management Plan
TDP	Technical Data Package
TDWG	Training Development Working Group
TEK	Traffic Encryption Key
TF	Task Force
TFR	Technical Failure reports
TIES	Technical Investigation and Engineering Support
TIFF	Tagged Image File Format
TMDE	Test, Measurement and Diagnostic Equipment
TNA	Training Needs analysis
TPM	Technical Problem Management
TPR	Technical Problem Report
TPRL	Technical Publications Requirements List
TPS	Technical Performance Specification
TRADOC	Training and Doctrine Command
TRANSEC	Transmission Security
TRM	Technical Review Meeting
TRR	Test Readiness Review
TTC	Talk Through Circuit
TTPs	Tactics, Techniques and Procedures
TW	Temperate Woodland
UAPS	User Acceptance Performance Specification

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Acronyms & Abbreviations	Definition
UCD	User Control Device
UCR	Unsatisfactory Condition Report
UDP	User Datagram Protocol
UHF	Ultra High Frequency
UI	User Interface
UI/HSD	User Interface/Help System Designer
UL	Underwriter Laboratory
UM	User Manual
USB	Universal Serial Bus
UTM	Universal Transverse Mercator
VBS	Virtual Battle Space
VEC	Valued Ecosystem Components
VIP	Very Important Person
VL	Verification Level
VMF	Variable Message Format
VPF	Vector Product Format
VQ	Verification and Qualification
VQP	Verification and Qualification Plan
WBS	Work Breakdown Structure
WD	Working Day
WES	Weapons Effects Simulation
WES SAT	WES Small Arms Trainer

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Acronyms & Abbreviations	Definition
WHMIS	Workplace Hazardous Material Information System
WO	Warrant Officer

3 GLOSSARY

Terms	Definition
Accessory Items	Interface cables required for the ISS-ES to operate with the GFE as defined in the TPS.
Active BIT	Active BIT is a type of BIT which periodically disrupts the prime system operation through the injection of test stimuli into the system.
Adaptive Dispersed Operations (ADO)	<p>ADO envisage employing highly adaptive land forces dispersed-in terms of time, space, and purpose-throughout the width and depth of the battle space in order to create and exploit opportunities, control the tempo of operations and overwhelm the adversary's understanding of that battle space. The essence of adaptive dispersed operations is the ability to conduct coordinated, interdependent, full spectrum actions by widely dispersed teams across the moral, physical and informational planes of the battle space, ordered and connected within an operational design created to achieve a desired end state. The fundamentals of dispersed operations, developed from the manoeuvre principles of find, fix and strike, include:</p> <ul style="list-style-type: none"> - developing situations prior to contact; - manoeuvring to positions of advantage; - influencing the adversary beyond the range of his weapons with lethal and nonlethal capabilities; - destroying the enemy, when necessary, with precision and area effects; <p>conducting close engagement, when necessary, at the time and place of own choosing; and</p> <ul style="list-style-type: none"> - transitioning between operations without loss of focus or momentum. <p>These fundamentals are applied across the moral, physical and informational planes of the battle space. In short, adaptive dispersed operations call for networked and integrated land manoeuvre forces-supporting and supported by JIMP integrated effects-alternatively dispersing and aggregating over extended distances to identify, influence and defeat full spectrum threats throughout the multidimensional battle space. Dispersion, in this context, is in relation to time, space and purpose.</p>

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Alarm	An indication from any source that a chemical, biological, radiological or nuclear attack or release other than attack may have occurred (NATO).
Alert	<p>A warning signal of a real or potential danger, such as an air attack (CLS).</p> <p>A warning signal of a real or threatened danger, such as an air attack (NATO).</p> <p>The period of time during which troops stand by in response to an alarm (NATO).</p> <p>Readiness for action, defence or protection (NATO).</p>
Ancillary Equipment	Ancillaries are items purchased by ISSP that are not part of the ISS-S Basic System but are required for the system to operate. This applies particularly to the SEP Suite for System Management.
Application Software	Application software is computer software designed to help the user to perform a particular task. Such programs are also called software applications, applications or apps. Typical examples are word processors, spreadsheets, media players and database applications.
Area of Operations	A geographical area, within an area of responsibility, assigned to a subordinate commander within which that commander has the authority to plan and conduct tactical operations.
Army Training Levels	<p>Level 1 - Individual</p> <p>Level 2 - Section</p> <p>Level 3 - Platoon</p> <p>Level 4 - Company</p> <p>Level 5 - Combat Team</p> <p>Level 6 - Battle Group</p> <p>Level 7 - Brigade Group</p>
Automatic BIT	Automatic BIT is a subset of BIT which is initiated automatically when subsystem electrical power is turned on; it provides continuous

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	or iterative testing and monitoring, is non-interruptive to normal system operation (following the initial power-up tests) and invisible to the operator except when an operator-relevant fault is detected and reported; detects and isolates each fault to the corresponding level of maintenance.
Availability	The probability that an item will perform its intended function at a stated point in time or over a stated period in time; or, the probability that an item is in an operable state at the start of a mission, when the mission is called at a random point in time.
Basic Element	A unique item or equipment that can be replaced as required.
Basic Knowledge	A general awareness of theory and/or facts which can be acquired quickly.
Basic Reliability	The ability of an item to perform its required functions without failure or defect for the duration of its life profile. Basic reliability is concerned with all failures, no matter how minor their impact on system operation.
Battery Charger Set	All the charging equipment required to recharge an ISS Rechargeable Battery Set.
Battery Loading/Storage Device	A sleeve/cradle used to hold a group of batteries within a Power Domain. It must be provided if required to meet the ISS-S requirements.
Battle Order	The soldier is clothed and equipped to carry out a specific mission for a period of up to 24 hours. The soldier carries all items necessary for at least eight hours of operations and has the additional capacity to carry items for up to 24 hours of operations.
Blue SA	The product of the processes by which information on the friendly forces disposition and the overall battlefield geometry (i.e. boundaries, control measures, etc). It also provides commander with asset visualization, the accurate status of his own and other friendly forces' human, material and information resources.
Brown SA	The product of the processes which provides information on all aspects of the environment where operations are conducted. It consists primarily of terrain and meteorological information but could also include information about environmental and NBC hazard, space, geo-spatial relationship, the electromagnetic spectrum, politics, economics,

Terms	Definition
	sociology and law.
Browning 9-mm Pistol	The Browning 9-mm pistol is carried by officers and soldiers who require a sidearm that can be rapidly drawn and fired, even in confined spaces. The pistol consists of a barrel, a slide, a breech block, a frame, and a 13 round magazine.
Built In Test (BIT)	An integral capability of the equipment that provides an on-board test capability to detect, to diagnose, or isolate system failures. The fault detection and, possibly, isolation capability is used for periodic or continuous monitoring of a system's operational health, and for observation and, possibly, diagnosis as a prelude to maintenance action.
C6 General Purpose Machine Gun	<p>The C6 is a general purpose machine gun (GPMG) and is issued in substantial numbers to combat arms units. The C6 is a fully automatic, air cooled, belt fed gas operated weapon that can be adjusted to fire between 650 and 1000 rounds per minute. The calibre is 7.62 x 51 mm NATO.</p> <p>The Army uses this weapon in a number of roles. In the infantry, the C6 GPMG can be carried by dismounted soldiers and is used to provide either fire support or sustained fire. The C6 GPMG is mounted in a variety of vehicles, including the LAV III, the Coyote and the Leopard C2. In these vehicles the C6 GPMGs are mounted co-axial to the main armament and are used to provide fire support to the infantry or for local defence of the vehicle itself.</p> <p>In the sustained fire role the C6 GPMG is mounted on a tripod. The C2 sight is used in conjunction with an aiming post to allow the crew to engage targets that they cannot see, due to fog, smoke or darkness.</p> <p>The C6 GPMG is light enough to be carried and used by soldiers on a variety of operations including patrolling, the advance, hasty defence, and delay and withdrawal operations. The C6 GPMG is normally carried by its sling, which can be looped over either shoulder, and fired from its bipod. In this manner it can be brought into action quickly and effectively.</p>
C7A2 Assault Rifle	The C7A2 assault rifle is a Canadian adaptation of a U.S. M16A1E1. The weapon is equipped with a 3.5x optical sight, which is mounted in place of the carrying handle. Ammunition is 5.56 x 45 NATO standard. Along with the optical sight, optional attachments include the M203A1 40mm grenade launcher, the AN PAQ 4 Laser pointer

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	and the Image Intensification Night Sight (Kite sight).
C7A2 M203A1 40-mm Grenade Launcher	C7A2 M203A1 40-mm Grenade Launcher is a C7A2 Assault Rifle fitted with a 40mm Grenade Launcher.
C8 Assault Carbine	The C8 assault carbine is a compact version of the standard C7 rifle, featuring a telescoping butt-stock and a shortened barrel. It is issued to armoured crews and troops on special missions.
C9A2 Light Machine Gun	The C9A2 is an improved C9 Light machine-gun with an optical sight attached. It is fully automatic, gas operated and belt or magazine fed. Within the rifle section, the C9A2 is used to provide covering fire for the manoeuvre of assault troops in the offence and to cover enemy approaches in the defence. Ammunition is 5.56 x 45 mm NATO. The C9A2 can be fitted with an optical sight and the Image Intensification Night Sight (Kite sight).
Call Sign	A designator to identify a station on a radio net.
Canalphones	Earphones that are inserted directly into the ear canal. Canalphones offer portability similar to ear buds, and also act as earplugs to block out environmental noise. There are two main types of canalphones: universal and custom.
Carl Gustaf Short Range Anti Armour Weapon (SRAAW) Medium (M)	<p>The Carl Gustaf is a section level anti-tank recoilless rifle. There are two versions, the older M2 is on issue to most regular units and the newer lightweight M3 is held by the light infantry. The Canadian army has two main types of ammunition: a High Explosive Anti-Tank (HEAT) round and a High Explosive Dual Purpose (HEDP) round for bunkers and fortified positions.</p> <p>It is normally fired by a two-man crew: one carries and fires the weapon and other loads the ammunition. The weapon is fitted with iron sights but is normally fired using the 3x telescopic sight. The Carl Gustaf can be fired from the standing, kneeling or prone position. When fired in the prone position a small bipod is normally used to assist in stabilizing the weapon.</p>
Catastrophic Mishap Severity	Could result in death, permanent total disability, or irreversible or reversible severe environmental damage that violates law or regulation.
CF-31 Laptop	Panasonic Toughbook CF-31

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Charlie-Charlie Radio Call	Charlie-Charlie Radio Call is a grouping of specific call signs to eliminate the requirement to name all recipients of a radio call when sending a message to the group.
Combat Estimate	An estimate made in contact or imminent contact with the enemy which is immediately transformed into orders for subordinate commanders.
Commercial Of The Shelf (COTS)	Product that is commercially available to the general public and which requires no special modification or maintenance over its life cycle.
Common interface/Common connector/Common protocols (3C)	The concept and its implementation where all connectors connecting to all devices are identical from a stand point of their Electrical & Mechanical Interfaces and the protocols suite use to maintain communication between the devices is common to all devices. It is a unified Architecture offering a backbone commonality. Expansion hub permit the addition of connection to the overall system and adaptors are used to connect legacy equipment or equipment not implementing the same interface.
Communications	In the realm of the Integrated Soldier System, it is defined as the transferring of messages or exchanging of information or ideas, through speech, visual or through electronic means.
Communities of Interest (COI)	<p>Group of Users who share common information. Unless otherwise specified, COIs include both voice and data communications.</p> <p>A Group of users who only share common data is identified as data COI.</p> <p>A Group of users who only share voice communications is identified as voice COI.</p>
Company Quarter Master	An appointment within a Rifle Coy, normally a Warrant Officer who works for the Coy 2i/c to ensure combat supply is provided to the coy from the supply system.
Compatibility	The suitability of products, processes or services for use together under specific conditions to fulfil relevant requirements without causing unacceptable interactions.
Compatibility for ISSP	1. Capability of two or more items or components of equipment or material to exist or function in the same system or environment

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	without mutual interference. 2. In computing, the ability to execute a given program on different types of computers without modification of the program or the computers. 3. The capability that allows the substitution of one subsystem (storage facility), or of one functional unit (e.g., hardware, software), for the originally designated system or functional unit in a relatively transparent manner, without loss of information and without the introduction of errors.
Compatible	Consistent, able to coexist, (with); mutually tolerant; (of equipment etc.) able to be used in combination.
Complex Terrain	Terrain whose features impact on line-of-sight, restrict manoeuvre and separate the soldier from the vehicle. Note: In general, urban areas, jungle, mountains and forests are considered to be complex terrain.
Component	Serves to form, compose, or make up a unit or whole.
Comprehensive Knowledge	The mastery of theory and/or facts which usually require extensive training and/or experience to learn.
Connection	A mean that bring together, at a common boundary or interface, two links. In the case of electrical connection (e.g. Audio, RF, power) it is done using a connector (male and female). In the case of an electromagnetic connection this can be achieved through RF signal, in close quarter by inducing a form of RF.
Connector or Electrical Connector	A device (H/W or S/W) that join together (fasten) two pieces of equipment to allow communication to and from the equipment. In other words the connectors provide the connection.
CONTACT	An indicator of immediate and significant sighting of or fire from the enemy. Initial message is CONTACT WAIT OUT. All radio communication on a COI ceases until the sender of the CONTACT provides a follow up report. The second message follows a format for provision of When, Where, Who, How and what the reporting CS is doing about it.
Continuous BIT	Continuous BIT is a type of BIT which continually monitors system operation for errors.

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Coral-CR-C Interface Cable	Provides the cabling and connection between the appropriate ISS-ES system element and the Coral-CR-C sensor to meet the sensor requirements of the TPS. (Volume 2, Annex CB, Appendix 1).
Corporal	A more experienced soldier than a Private within a rifle Sect who may be employed as a Light Machine Gunner or M203 Grenadier.
Corrective Maintenance	Maintenance actions carried out to restore a defective item to a specified condition.
Courseware and Training Documentation	<p>Courseware is the material required for instruction, learning, and testing events. Courseware includes: Lesson plans, CAI modules, including learning objects, reference materials, including IETPs, Student handouts, Student study materials, Training scenarios, Performance Checks (PCs), Enabling Checks (ECs);</p> <p>Training Documentation is formal documentation and includes: Occupation Specifications (OSs), Occupation Specialty Specifications (OSSs), Qualification Standards (QS), and Training Plans (TP).</p>
Critical Failure	A Critical Failure is an event that results in the loss or degradation below normal performance limits of a Critical Function, as defined in the Failure Definition and Scoring Criteria.
Critical Mishap Severity	Could result in permanent partial disability, injuries or occupational illness that may result in hospitalization, or reversible environmental damage causing a violation of law or regulation
Custom Canalphones	Custom canalphones are fitted to the ears of each individual. Castings of the ear canals are made and the manufacturer uses the castings to create custom-moulded silicone rubber or elastomer plugs that provide added comfort and noise isolation.
D	<p>D signifies the execution day of an operation for Planning purposes. Events are chronologically identified as preceding (D-) or following (D+) a key event on a specific day. This is a sliding scale that is not necessarily related to a specific calendar date until all facets of Planning have been investigated for their impact on the assigned mission and tasks</p> <p>E.g., D is the day when a helicopter operation to land on an objective in an air mobile operation occurs in order to conduct a ground operation.</p>

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DAGR Interface Cable	Provides the cabling and connection between the appropriate ISS-ES system element and the DAGR to meet the Military mode GPS requirements of the TPS. (Volume 2, Annex CB, Appendix 1).
Danger Area	The danger area is the area associated with a geographical area (that may include x, y and z dimensional coordinates) from which unauthorized ships, personnel, equipment, and aircraft are excluded for reasons of safety, either because of the actual firing of weapons or the presence in the ground of unexploded mines or other munitions.
Data	Information represented in a manner suitable for automatic processing. (NATO)
Detailed Knowledge	The level of understanding of theory and/or facts which require substantial training and/or experience to learn.
Dismounted Peer Network	A dynamic radio network formed by two or more ISS-CS nodes to permit the exchange of information between ISS-CS nodes.
Dismounted Rifle Company	A Dismounted Rifle Company consists of a Coy Headquarters, a Weapons Detachment and three dismounted Rifle Platoons. Company Headquarters consists of a Company Commander (Major), Coy Second-in-Command (Captain) Company Sergeant-Major (MWO) and a Signals Detachment of two signallers (Corporals) The Weapons Detachment consists of a four personnel that includes a Detachment Commander (MCpl) and Second-in-Command (Cpl) plus two Cpl/Ptes manning support weapons. In addition there is a Coy Quartermaster (WO) and 2 store men. Personnel from other arms and services such as artillery and medical services may be attached as required and must be supported by the Integrated Soldier System.
Dismounted Rifle Platoon	A dismounted platoon consists of a Platoon Headquarters, a Weapons Detachment and three dismounted Rifle Sections. Platoon Headquarters consists of a Platoon Commander (Lieutenant), Platoon Second-in-Command (Warrant Officer) and a platoon Signaller (Corporal) The Weapons Detachment consists of a six personnel that includes a Detachment Commander (MCpl) and Second-in-Command (Cpl) plus four Cpl/Ptes manning support weapons.
Dismounted Rifle Section	A dismounted section consists of two four person groups called Assault Groups. Each Assault Group consists of one each rifleman, grenadier, machine gunner or commander. A Non-Commissioned Officer in the rank of Sgt commands the section as well as Assault

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	Group 1 while Assault Group 2 is commanded by a Jr NCO normally in the rank of MCpl.
Dismounted Soldier	A dismounted soldier typically is an infantryman within a dismounted rifle section. He may be assigned specific tasks as a rifleman, grenadier, machine gunner or commander. Other CF members may also be dismounted soldiers, such as artillery Forward Observation Officers and detachments, Forward Air Control Parties, Medical Assistants etc.
Durability	The ability of an item to survive to the end of its "design life" when it is not subjected to "over-stress" conditions.
Electromagnetic Interference	Any electromagnetic disturbance, whether intentional or not, which interrupts, obstructs, or otherwise degrades or limits the effective performance of electronic or electrical equipment.
Electromagnetic Silence	A restriction placed on the use of equipment to prevent the emission of any electromagnetic signals.
Electronic Silence	A restriction placed on the use of equipment to prevent the emission of significant electromagnetic signals.
Electronic Textile / Electro-Textile / E-Textile	Electronic textiles (e-textiles) are fabrics that can incorporate active and passive electronic devices from simple conductors to more complex computing platform. Using yarn with different intrinsic capabilities, etching, deposit of different natures to obtain the computational, sensing, transmission of information that make the Smart /Intelligent textiles.
enabling system	system that supports a system-of-interest during its life cycle stages but does not necessarily contribute directly to its function during operation
Entity	Any displayable geo referenced object that can be superimposed on the map.
Entropy	Entropy is randomness provided using truly random, non-deterministic means or events.
ESRI Shapefiles	The ESRI Shapefile or simply a shapefile is a popular geospatial vector data format for geographic information systems software. It is developed and regulated by ESRI as a (mostly) open specification for data interoperability among ESRI and other software products.

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	Shapefiles spatially describe geometries: points, polylines, and polygons.
Essential Function Failure (EFF)	An Essential Function Failure is an event that results in the loss or degradation below normal performance limits of a Critical or Vital Function, as defined in the Failure Definition and Scoring Criteria.
Ethernet drop	Ethernet drop is a physical location sometime associated with Hotspot that offer internet access over a wire LAN through the use router. Ethernet drop can be found normally where a wired Ethernet infrastructure is installed. It can be found in various public establishments throughout much of North America and Europe; in this case, it is generally collocated with hotspot.
Exposed / Unexposed connector	<p>The term "unexposed connector" refers to connectors that are accessible by the soldier only for maintenance to connect/disconnect equipment deemed internal to the clothing. These connectors will not normally be directly exposed to the outside natural elements.</p> <p>The term "exposed connector" refers to connectors that are accessible by the soldier to connect/disconnect equipment that is external to the clothing.</p>
False Alarm	An indication of a fault where no fault exists.
False Alarm Rate	The frequency of occurrence of false alarms over a defined period of measure (e.g., time, cycles, etc.). It is the number of false alarms divided by the total number of faults detected.
Fault Detection	A process which discovers the existence of faults.
Fault Isolation	Where a fault is known to exist, the process of determining the location of a fault to the extent necessary to effect repair.
Federal Information Processing Standards (FIPS)	FIPS are publicly announced standards developed by the United States federal government for use by all non-military government agencies and by government contractors
Fighting Order	The soldier carries the minimum essential ammunition, weapons, environmental clothing, and equipment that must be immediately available for combat.
Fitted for but not with	Fitted for implies that a capability that is not supplied by the OEM for the ISS has been catered to in the design so that should the capability

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	be made available the ISS is capable of incorporating the ability to use the item supplied separately.
FRAG O - Fragmentary Orders	An abbreviated form of an operation order, issued as required, that eliminates the need for restating information contained in a basic operation order. It may be issued in sections.
Full Operational Capability	The full attainment of the ability to effectively employ a new or improved capability, and for which adequate infrastructure, training, staffing, and support are in place, both for the new capability and for the organization employing it. FOC is unique to each project and is identified in the project Statement of Operational Requirement (SOR). The sponsor sets the more detailed, quantifiable FOC requirements as the project evolves.
GEOTIFF	GeoTIFF is a public domain metadata standard which allows georeferencing information to be embedded within a Tagged Image File Format (TIFF). The potential additional information includes map projection, coordinate systems, ellipsoids, datums, and everything else necessary to establish the exact spatial reference for the file.
Graphic Scale	A graphic scale is a ruler printed on the map and is used to convert distances on the map to actual ground distances.
GUI	Graphical User Interface. Software part of the User Interface that presents icons and visual indicators that the User can select and click using a pointer style approach. The Graphical User Interface is independent and excludes the physical controls required to move the pointer and activate the selection of the icons.
H / Hr	<p>The time at which a series of events is predicated on for action. Events are chronologically identified as preceding (H-) or following (H+) a key event at a specific time on a specific day. This is a sliding scale that is not necessarily related to a specific time until all facets of Planning have been investigated for their impact on the assigned mission and tasks</p> <p>E.g. H Hr is the specific time when a helicopter lands on an objective in an air mobile operation and the troops dismount to commence operations on the ground. H Hr occurs on D Day.</p>
Haptic	Of or relating to the sense of touch; tactile.

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Hazard	Any real or potential condition that can cause injury, illness, or death to personnel; damage to or loss of a system, equipment or property; or damage to the environment.
Hide	a location where a military force of any size up to company may conceal itself to conduct rest and resupply prior to the recommencement of operations
Highly Skilled	The level of proficiency which usually can only be acquired by considerable training and practical experience.
Hot-Plugging	Describe the capacity of a system to accept, when the system is under power (thus hot) and running, the insertion of a part (addition or replacing) into the system. This is done without having to shutdown the system to insert the part, and without significant interruption in the operation of the system.
Hot-swapping	Describes the functions of adding and removing system components without shutting down the system. More specifically, Hot swapping describes replacing components without significant interruption to the system. To be able to do Hot-swapping, a system must accept hot-plugging.
Individual Combat Loads	For load carriage assessment purposes, individual combat loads are identified as Conceptual Loads and Mission Specific Loads. Conceptual Loads are used to ensure trials of new equipment are consistent so that new equipment has a dedicated place on the soldier for assessment purposes from trial to trial. This also ensures that real estate management on the soldier is consistently measured (both weight and volume) from trial to trial. Mission Specific Loads are the purview of the Mission Commander and satisfy the load carriage needs to obtain mission success.
Initiated BIT	Initiated BIT is a subset of BIT which is initiated by some event or the operator; may interrupt normal operation; operator participation may be required. It detects and isolates each fault to the corresponding level of maintenance.
Integrate	Complete (imperfect thing) by addition of parts; combine (parts) into a

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	whole.
Integrated Clothing Ensemble	A single, fully integrated clothing system to protect the CF soldier in environmental conditions ranging from wet cold to extreme cold. It is based on the layering principle, enabling the soldier to regulate body temperature and heat build-up to comfortable levels through adding and removing layers or by using a system of ventilation.
Integrated Soldier System (ISS)	The ISS includes all equipment acquired by Canada as part of the ISSP.
Integrated Soldier System - Communications Suite (ISS-CS)	The Integrated Soldier System Communications Suite is a dismounted soldier communications kit based on a wearable soldier radio for tactical unclassified voice and data communications.
Integrated Soldier System - Electronics Suite (ISS-ES)	All physical electronics devices and all cabling that is worn by the soldier as part of the ISS-S Main Equipment, including all software and firmware running on the soldier-worn equipment. Excludes Battery Sets, MLCS and Universal Canaphone Set.
Integrated Soldier System - Suite (ISS-S)	All equipment that the soldier wears and carries with him/her in any shape or form, including the software, electronic equipment, cables, MLCS, batteries and any other component required to meet the ISSP Technical Performance Specifications.
Integrated Soldier System Suite Audio Display	The ISS-S Audio Display supports the presentation of voice communications coming from a radio via integrated speakers and the generation of voice communications to a radio via one or more microphones. The ISS-S Audio Display also supports the presentation of sounds generated from alarms, alerts or warnings and provides hearing protection for the soldiers while allowing them to still hear and distinguish all environmental sounds and noises.
Integrated Soldier System-Suite Communications Network (ISS-S Communications Network)	The ISS network is the communication network comprised of all ISS-S nodes and all COIs that are configured to communicate together.
Integrated Soldier System Suite Tactical User Interface (ISS TUI)	Small user interface including controls and a visual display which offers basic situational awareness.
Integration for ISSP	For ISSP: 1. The state of combination or the process of combining into completeness and harmony.

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	2. In computer science, allows data from one device or software to be read or manipulated by another.
Interruptive BIT	Interruptive BIT is a built in test procedure which interrupts the system's processor(s) to interrogate a selected group of failure modes.
Intrinsic Availability	Also called Inherent Availability. The probability that an item is in an operable state at the start of a mission, when the mission is called at a random point in time where the time considered includes only operating and active repair times. Intrinsic Availability excludes all scheduled maintenance, ready or standby, administrative delay and logistic delay times. It includes only the effects of the item's design and its application, and does not account for effects of the operational and support environment.
ISS Battery Set	The full complement of Battery Pack (s) required to operate one ISS-S for a full BD.
ISS BMS SW on CF Laptop	Integrated Soldier System Battle Management Software on Canadian Forces Laptop: subset of the ISS-ES software, running on a CF laptop used by commanders to perform static non-tactical tasks, such as mission planning.
ISS Non-Rechargeable Battery set	The full complement of Power Domain Non-Rechargeable Battery Pack(s) for each Power Domain of the ISS-S required to operate one ISS-S for a full BD.
ISS Rechargeable Battery set	The full complement of Power Domain Rechargeable Battery Pack(s) for each Power Domain of the ISS-S required to operate one ISS-S for a full BD.
ISS Support	All software, hardware and documentation required to support the ISS software and hardware operation and maintenance while deployed or in garrison.
ISS-S User	A soldier or other person who uses the ISS-S to perform his job or tasks.
Land Command Support System (LCSS)	The Land Command Support System is the C4ISR system used by the Canadian Forces to provide Army communications in a theatre of operations. The LCSS is a system of systems and includes communications networks for vehicles, mobile headquarters, static headquarters, and soldiers. Additionally, the LCSS provides

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	applications and services to support Army operations. The LCSS operates as a SECRET System High network for Canadian national operations.
LCSS Integration Suite (LCSS-IS)	The Land Command Support System Integration Suite is a dismounted soldier communications kit based on a portable soldier radio for SECRET voice and data communications with supporting LCSS vehicles, headquarters and dismounted commanders having compatible radios.
LCSS Radio Interface Cable Set	The LCSS Radio Interface Cable Set provides the cabling and connections between the appropriate ISS-ES system element and the LCSS PRC-152 Radio, PRC-148 Radio and PRC-117 Radio to meet the TPS (Appendix 1 to Annex CB) requirements associated with those LCSS Radios. If the same cable can be used to interface with all 3 radios, then the "LCSS Radio Interface Cable set" should only be a single cable. If different cables are required to interface with each LCSS radios, then the "ISS-S to LCSS Radio Interface Cable set" should include the 3 different cables.
Lieutenant (Lt)	A rank within the CF. In an Infantry unit normally employed as a Pl Comd
Life Profile	A time-based description of the events and environments an item experiences from manufacture to final expenditures or removal from the operational inventory, to include one or more mission profiles. Usually described by the Operational Mode Summary.
Light Armoured Vehicle (LAV)	The primary infantry transport vehicle on the battlefield. Its integral turret mounted 25 mm gun provides direct fire support to the Sect when dismounted. The vehicle requires 3 individuals to operate independently (driver, gunner and crew commander) and can accommodate an additional 7 soldiers riding in the crew compartment.
Light Armoured Vehicle Captain (LAV Capt)	An appointment within a Rifle Coy, normally an officer in the rank of Capt, who controls the Coy LAVs when the Coy has dismounted so that the firepower of the vehicles can be brought to bear in the fight.
Limited Skill	The level of proficiency normally necessary to perform duties and tasks under supervision and from which further progress can be made through practice and experience.
Line Replaceable Unit (LRU)	The LRU is an essential support item which is removed and replaced

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	at field level to restore the ISS-S to an operationally ready condition.
Link	In the realm of the Integrated Soldier System it is defined as any elements in a communications system that transport data or power in and out of a system. This can be in hardware, a cable, wire, or electromagnetic in RF. A link includes the connector(s) if needed.
Linkages	In the realm of the Integrated Soldier System it represents the system of links interconnecting different points of the system. This is represented by the soldier infrastructure with all of its wires, cables or RF channel.
Lowest Replaceable Unit (LoRU)	The LoRU is a part, component, or assembly used in the repair of an LRU, when the LRU has failed and has been removed from the ISS-S for repair.
Main Equipment	All ISS-S equipment except the Accessory Items.
Maintainability	The ability of an item to be retained in, or restored to, a specified condition within a specified period of time, when maintenance is performed under stated conditions by trained personnel using prescribed procedures and resources.
Maintenance Significant Item	An item which, by its application or inherent characteristics, can be expected to fail or require replacement or adjustment during normal operation or maintenance of an end item.
Major	A Rank within the CF. Normally employed in an Infantry unit as a Coy Commander but is also employable as a Staff Officer.
Marching Order	The soldier carries clothing and equipment, including combat supplies, for a minimum of 24 hours of operations and has the additional capacity to carry items necessary for up to 48 hours of operations. It is desirable to carry up to 72 hours of combat supplies.
Master Corporal	A Rank within the CF. Normally employed in an Infantry unit as a Sect 2 I/C or commander of a detachment.
Master Event List	A table containing events.
Master Warrant Officer	A Rank within the CF. Normally employed in an Infantry unit as Coy Sergeant Major, the Senior Non-Commissioned member in the Coy who is the immediate advisor to the Coy Comd.

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Maximum Mission Time to Restore Service (MaxMTTRSvc)	The maximum elapsed time allowable to restore voice and data connectivity during a mission. This includes fault detection and isolation, replacement and reconfiguration of the faulty LRU, adjustment, calibration, and checks. Service is considered restored when the ISS-S node is fully operational and has full data and voice access to the ISS-S network.
Maximum Mission Time to Restore System (MaxMTTRSys)	The maximum elapsed time allowable to restore a defective item in the ISS-S during a mission. This includes fault detection and isolation, replacement of the faulty LRU, and confirming repair.
Mean Time Between Critical Failures (MTBCF)	It is a measure of mission or functional reliability. Similar to Mean Time Between Failures except that only critical failures are counted. It is a measure of expected time between critical failures. "Minimum acceptable value" means the lower confidence limit of this value, usually taken to be a 90% LCL.
Mean Time Between Failure (MTBF)	A measure of the expected (average) time during which a system will continuously perform within its specified limits under stated conditions. It can be estimated by dividing life units (hours, miles, rounds, etc) accrued during a stated period under stated conditions by the number of failures during the period and is a basic measure of reliability of repairable items. "Minimum acceptable value" means the lower confidence limit of this value, usually taken to be a 90% LCL.
Mean Time To Repair (MTTR)	The average or expected time it takes to repair equipment. It can be estimated by the total elapsed corrective maintenance time divided by the total number of corrective maintenance actions during a given period of time. Typically includes fault isolation, removal and replacement of failed item(s) and checkout.
Military GPS device	A GPS Capable of tracking and decoding the encrypted P(Y) code.
Mishap	An unplanned event or series of events resulting in death, injury, occupational illness, damage to or loss of equipment or property, or damage to the environment.
Mishap Risk	An expression of the impact and possibility of a mishap in terms of potential mishap severity and probability of occurrence.

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Mission Profile	A time-based description of the events and environments an item experiences from initiation to completion of a specified mission. It identifies the tasks, events, durations, operating conditions and environments for each phase of a mission.
Mission Reliability	The probability that an item will perform its required functions for the duration of a specified mission profile. Mission reliability is concerned only with those failures that could prevent completion of a mission (based on the user's definition of which system functions are considered "mission-essential").
MLCS ISS Pouch Set	Set of ISS pouches that attach to the MLCS Carrier, used to hold all Power Domain Battery Packs and the complete ISS-ES. The Contractor will define the numbers and types of ISS Pouches (which constitutes the ISS Pouch Set) required carrying the ISS-ES, batteries and Accessory Items as required meeting the TPS requirements.
MLCS Platform	Vest worn by the soldier, where the MLCS ISS Pouches are attached and the MLCS Combat Pouches (provided by the Crown) are attached. The MLCS Platform consists of an MLCS Chest Rig Front and an MLCS Chest Rig Back. The MLCS Chest Rig Front is further identified by size requirements, in that there is a MLCS Chest Rig Front Small and an MLCS Chest Rig Front Medium. The MLCS Chest Rig Back size comes in one size.
Modular Fighting Rig (MFR)	The MFR is the basic layer of load carriage. In conjunction with the Improved Environmental Clothing System (IECS), the Integrated Clothing Ensemble (ICE), or temperate / arid combat clothing, the MFR provides load carriage for immediate combat needs for a period of eight hours or less.
Modular Load Carriage System (MLCS)	All clothing that is provided as part of the ISS-S, including the ISS MLCS Platform and MLCS ISS Pouch Set, to allow the soldier to carry the ISS-ES and all Power Domain (Rechargeable or Non-Rechargeable) Battery Packs.
Module	A group of sub-modules that are physically or electronically linked.
Mutual Support	That support which units render each other against an enemy, because of their assigned tasks, their position relative to each other and to the enemy, and their inherent capabilities. (AAP-6) This concept is utilized from the 2 person Fire Team providing mutual

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	Support upwards within the structure to Fire Teams within an Assault Group, Assault Groups within a Sect, Sects within a Pl, Pls within a Coy and Coys within an Infantry Battalion.
Non-Essential Function Failure (NEFF)	A Non-Essential Function Failure (NEFF) is an event that results in the loss or degradation below normal performance limits of any basic core function not defined as a Critical or Vital Function, as defined in the Failure Definition and Scoring Criteria; or having a negligible effect on a basic core function, has a logistic impact.
Normal Configuration	The complete ISS-ES.
Normal Operational State	State the User can interact with the Map and the entities being displayed on the map.
Normal Performance Limits	The ISS-S operates within the limits specified by the manufacturer and to the DND specified functional requirements. Some minor, temporary degradation of performance as it pertains to quality of image, clarity of message, or response time is acceptable, as long as the image or message is legible, understandable and timely enough as to not affect the overall function. Any degradation of the accuracy of data is not acceptable.
Occupied Bandwidth	The width of the frequency bandwidth such that, below its lower and above its upper limits, the mean power radiated is each equal to 0.5% of the total power radiated.
Open Terrain	A type of terrain containing few trees or little vegetation.
Operating System	An operating system (OS) is an interface between hardware and user which is responsible for the management and coordination of activities and the sharing of the resources of a computer, that acts as a host for computing applications run on the machine.
Operational Availability	The probability that an item is in an operable state at the start of a mission, when the mission is called at a random point in time where the time considered includes all operating and down time consisting of corrective maintenance, preventive maintenance, administrative delay and logistic delay times.
Operator Maintenance	A subset of Preventive Maintenance carried out by the operator of the system in the operational environment on a periodic basis to ensure the system is in an operable state. Usually limited to system checks,

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	inspections, and cleaning.
Optimised Weapon System Support (OWSS)	The application of long term in-service support contract bridging from the old short term contract methodology to the new In-Service Support Contract Framework (ISSCF) methodology being strongly encouraged within DND ADM (MAT).
Overlays	A group of similar information presented together on a screen. For example, an "Enemy" overlay includes a graphical representation of all enemies entered in the system. Multiple overlays can be presented at the same time.
P(Bid)	ISS-S configuration that was submitted by the contractor at bid time and evaluated by the ISSP PMO.
P(Prod)	It is the ISS-S configuration having successfully completed FQR/PCA.
P(SAT)	It is the ISS-S configuration after having successfully completed the TRR and FCA.
Parachute Bag	The Parachute Bag is designed to hold and secure the CTS Rucksack. The bag is a mission-essential safety requirement that simplifies and expedites donning and airborne egress for CF personnel conducting all types of operational parachuting to include both high and low altitude, free-fall and static-line descents.
Passive BIT	Passive BIT is a type of BIT which is non-disruptive and non-interfering to the prime system.
Periodic BIT	Periodic BIT is a type of BIT which is initiated at some regular interval. An example of BIT software executing during planned processor idle time.
Permanent Loss of Function	Loss of function or degradation of performance which is not recoverable owing to damage to hardware, software or loss of data.
Physical Device Hosting Function	A physical device that is part of the ISS-ES that hosts specific functionality.
Pl Second-in-Command	Normally in the rank of Warrant Officer.
Pl Commander	Normally in the Rank of Lt.
Point of Contact	The identification of, and means of communication with, person(s) and

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	organizations(s) associated with the resource(s). A POC can be a person or a department serving as the coordinator or focal point of information concerning an activity or program.
Power Domain	The interconnection of a Battery Pack and one or more devices through cables and connectors for the purpose of supplying power.
Power Domain Non-Rechargeable Battery Pack	All the Non-Rechargeable Batteries of the same type required to operate a power domain at any one time. The Power Domain Battery Pack must also include any Battery Loading/Storage Devices required to meet the ISS requirements.
Power Domain Rechargeable Battery Pack	The Rechargeable Batteries of the same type within the pack per power domain The Power Domain Battery Pack must also include any ISS Battery Loading/Storage Devices required to meet the ISS requirements.
Power usage policy	They are set of rules activated by the Power Management Processes with the overall goal of optimising the power usage of the system. The policies specify which components, devices or subsystems need to change operating state e.g. active, sleep, and hibernation to minimise power usage. Establishing Power Management policies is a problem of optimisation under constraint.
Preventative Maintenance	Systematic and/or prescribed maintenance intended to reduce the probability of failure.
Preventive Maintenance	The maintenance carried out at predetermined intervals or according to prescribed criteria and intended to reduce the probability of failure or the degradation of the functioning of an item.
Primary Operating Band	The main frequency band that the ISS-S is required to operate in: 225 - 450 MHz.
Private	A Rank within the CF. A fully trained basic soldier who is employed as a rifleman in a rifle Sect in an Infantry unit. A Pte may also be employed as a Light Machine Gunner or M203 Grenadier if there are not enough Cpls in the organization.
Product Improvement	The SW changes or System Components modifications or additions that are required to fulfil the user requirements as identified through the following sources: A. Original operational requirements not fully fulfilled through the

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	<p>cycle #1 procurement due to unavailability of technology from Off-The-Shelf solutions in the area of system performance, power consumption, recharging capability as well as sensor functions and integration;</p> <p>B. Feedback from operational community on required product improvement and refinement based on user's lessons learned in operation;</p> <p>C. Modifications required to adapt to changes to the operational environment and deployment.</p>
Qualification	process of demonstrating whether an entity is capable of fulfilling specified requirements
Quantity of Power Domain Non-Rechargeable Battery Pack	This is the number of Non-Rechargeable Battery packs required for the system to <u>operate</u> a full Battlefield Day (BD), by power domain, as determined by the analysis required by Appendix 11 to Annex CB - Power Consumption Test Procedure Requirements. The Definition of a BD is defined in Appendix 3 to Annex CB - Mission Profile and Operational Mode Summary.
Quantity of Power Domain Rechargeable Battery Pack	This is the number of Rechargeable battery Pack(s) required for the system to operate a full BD without having to recharge any batteries, by power domain, as determined by the analysis required by Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements.
Recommended Support Equipment	All software and hardware equipment that is recommended by the Contractor to maintain the ISS-S in order to meet the requirement of this SOW.
Reconstitution	To constitute again or anew to restore to a former condition by completing R&O.
Red SA	The product of the processes which provides information on the enemy location, disposition, status and intention.
Refurbishment	To repair and make improvements.
Relay Link	<p>An ISS-CS mobile device radio link between a pair of ISS-CS devices.</p> <p>Relayed traffic can be sent in either direction between devices.</p>

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Relay Path	Concatenation of k consecutive relay links ($k \geq 1$) between ISS-CS mobile devices.
Relaying	The concept of relaying user data and possibly control information between ISS-CS mobile devices through one or more relay stations using allocated spectrum. The purpose of enabling relay is to enhance coverage, range, throughput, and capacity of the ISS-S communications network. The relaying function may include network routing.
Relaying Device	An ISS-CS mobile device that conforms to this specification and whose functions are 1) to relay user data and possibly control information between other stations, and 2) to execute processes that indirectly support mobile multihop relay.
Reliability	The ability of an item to perform its intended function for a specified interval under stated conditions.
Royal Canadian Dragoons	An Armoured Regiment of the Canadian Forces.
Royal Canadian Horse Artillery	An Artillery Regiment of the Canadian Forces.
Royal Canadian Regiment	An Infantry Regiment of the Canadian Forces.
Rucksack	The Rucksack may be worn with the TV. The Small Pack System can be secured to the Rucksack. In conjunction with the IECS, temperate combat clothing and the TV the Rucksack sustains a soldier in combat for a period of 48 hours. The Rucksack's inherent additional carriage will allow individual sustainment to be extended to 72 hours.
Secondary Operating Band	An alternate frequency band that the ISS-S is requested to operate in. Can be one of the following: <ul style="list-style-type: none"> •902 - 928 MHz •1210 - 1415 MHz •2360 - 2473 MHz.
Sect Commander	Normally in the rank of Sergeant.
Sect second-in-command	Normally a MCpl.
Section	Light Infantry Battalion Sects are made up of Eight personnel (1 Sgt

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	<p>Sect Commander, 1 MCpl Sect 2 i/c and six (6) Cpls / Ptes)</p> <p>Mechanized Infantry Battalion Sects are made up of Ten personnel (1 Sgt Sect Commander, 1 MCpl Sect 2 i/c and eight (8) Cpls / Ptes).</p> <p>The Sect is mounted in a LAV III vehicle. Three soldiers must stay with the vehicle in order for it to remain operational. Seven (7) soldiers are therefore available for operations away from the vehicle.</p>
Sensitive but Unclassified (SBU)	A security classification associated with information exchange at the tactical level. Synonymous with TUI.
SEP-Suite	System Executive and Planning - Suite: software running on a CF laptop, used to perform security management, network planning and management and other pre-mission tasks in support of system configuration.
Sergeant	A Rank within the CF. Normally employed in an Infantry unit as a Sect Comd in a Rifle Pl.
Short Range Anti Armour Weapon (SRAAW) Light (L) M72	The M72 is a light anti-armour weapon that can be used by a single soldier to destroy enemy combat vehicles and fortifications. The user extends a telescopic tube, which automatically cocks the launcher and raises the sight. The user places the tube on his shoulder, aims, and squeezes the trigger to discharge a free flight rocket.
Simple Configuration	A subset of the complete ISS-ES that includes the physical devices hosting the ISS-CS and the ISS-S Audio Display, and the ISS Batteries required to power those physical devices. This is a simpler configuration that provides voice services to the ISS-S User.
Situational Awareness (SA)	The combined knowledge of friendly forces, hostile forces, the environment and other aspects of the battle space.
Skilled	The level of proficiency necessary to independently and safely perform duties and tasks.
Small Pack System	The Small Pack is worn over the TV and is quickly removable for close combat. In conjunction with the IECS/ICE outer wear or temperate/arid combat clothing, the Small Pack System sustains a soldier in combat for a period of 24 to 48 hours or for a lesser period with carriage for mission-specific loads. The Small Pack System includes: (1) a Small Pack designed to a specific volume and worn as a back pack. It may be appended to the Rucksack; (2) two small

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	Accessory Pouches designed to a specific volume and worn attached to the TV, the Small Pack or the Rucksack; and (3) two large Accessory Pouches designed to a specific volume and worn attached to the TV, the Small Pack or the Rucksack.
Smart/Intelligent Textiles	Smart or Intelligent Textiles are defined as 'Materials and structures, used for combat clothing, individual equipment and protection, that sense and react to or inform about environmental conditions and stimuli or respond to or be activated to perform a function.'
Soldier System	Everything worn, carried, and consumed for individual use on the battlefield in a tactical environment.
Standard Ambient Environment	<p>The standard conditions, either outdoor or confined (e.g., temperature and humidity), that characterize the air or other medium that surrounds an item. When the term "standard ambient" is specified use the values shown below.</p> <p>Temperature: $25^{\circ} \pm 10^{\circ}\text{C}$</p> <p>Relative humidity: 20 to 80 percent</p> <p>Atmospheric pressure: Site pressure</p>
Start-Up BIT	Start-up BIT is a subset of BIT which is initiated when subsystem electrical power is turned on and terminates before equipment is ready for normal operation. It is an automatic one-time test sequence that detects and isolates each fault to the corresponding level of maintenance.
State of Charge (SOC)	The available capacity remaining in a battery, expressed as a percentage of the rated capacity
State of Health (SOH)	<p>It is a Figure of merit (FOM) that reflects the general condition of a battery, a battery pack or sometime a cell, and its ability to deliver the specified performance compared with its initial specified and measured conditions at manufacturing. The units of SOH are percent points (100% = the battery's conditions match the battery's specifications).</p> <p>It takes into account such factors as charge acceptance, internal resistance, voltage and self-discharges, etc.</p> <p>During the life of a battery, the performance or state of health tends to</p>

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	deteriorate gradually due to irremediable physical and chemical modifications taking place due to storage conditions, usage and age until at some point in time the battery is no longer usable effectively.
Structured Data	Information that has been organised to allow identification and separation of the context of the information from its content. For example, a digital image which include metadata that describes how large the picture is, the color depth, the image resolution, when the image was created, etc...
Structured Report & Return	Report & Return where the content of the fields has been represented in a manner that allows computation with this content. Certain free text fields in a structured Report & Return can be unstructured.
Sub-Module	A group of basic elements that can be selected or operated separately.
Sub-System	A group of modules that contribute to given functions and or capabilities.
Support Equipment	All software and hardware equipment required to sustain the ISS-S
System Administrator	<p>System Management Role assigned to a User which grants him advanced access rights to system administration functions.</p> <p>Person who has been assigned the role and access privileges of a System Administrator User. Typically a Signaller or First or Second line ISS-S Maintainer.</p>
System Element	Member of a set of elements that constitutes a system. NOTE: A system element is a discrete part of a system that can be implemented to fulfil specified requirements. A system element can be hardware, software, data, humans, processes (e.g., processes for providing service to users), procedures (e.g., operator instructions), facilities, or materials.
System Essential Function	A primary or basic operation that a system must be capable of performing.
System Executive Planner (SEP)	<p>System Management Role assigned to a User which grants him advanced access rights to system administration functions as well as access rights to the Communication Network Planning tool.</p> <p>Person who has been assigned the role and access privileges of a SEP.</p>

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System Safety	The application of engineering and management principles, criteria, and techniques to achieve acceptable mishap risk, within the constraints of operational effectiveness and suitability, time, and cost, throughout all phases of the system life cycle.
Tactical but Unclassified Information (TUI)	A security classification associated with information exchange at the tactical level. Synonymous with SBU.
Target / Target Area	A geographical area, complex, installation, specific unit, individual or group planned for engagement by fires, information operations or a combination of both, for the purposes of capture, destruction, suppression, neutralisation or persuasion. In sum, the object of a particular action.
Technical Documentation	The Operation Manual, Maintenance Manual and Quick Reference Guide that support the operation of the ISS.
Temporary Loss of Function - Operator Recovery	Any temporary loss of function or degradation of performance beyond that specified for normal performance that ceases after the disturbance ceases, and the correction requires operator intervention.
Temporary Loss of Function - Self Recovery	Any temporary loss of function or degradation of performance beyond that specified for normal performance that ceases after the disturbance ceases, and from which the equipment recovers its normal performance without operator intervention.
Testability	The ability to determine an item's status (operable, inoperable, degraded) and to isolate faults within the item in an accurate and timely manner.
Training	Training, as identified in Figure 3-1 of the Acquisition SOW includes all training deliverables as listed in Annex CF.
Training Package Kit	All software and materiel required to train soldiers in how to manage and operate the ISS operations equipment.
Training Program	All Contractor and DND work activities and deliverables associated with the Analysis, Design, Development, Conduct, and Evaluation of individual training and education.
Travel Order	Includes the three orders of Fighting Order, Battle Order and Marching Order and the additional equipment for use in a specific Theatre of Operations. Travel Order provides for indefinite sustainment in that Theatre of Operations. Items not immediately

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	required in marching and lower orders will be held/transported in the sub-unit A echelon, the Unit A or B echelon, or in a Base camp.
Troop	Normally used in Armoured or Engineer units and is synonymous with Pl in a structure sense.
Universal Canalphone Set	Set of Universal Canalphones to be used with the ISS-S Audio Display, one set includes two canalphones, one for each ear. If more than one size of Universal Canalphones is provided, then a set includes a pair of Universal Canalphones for each available size.
Universal Canalphones	Universal canalphones provide one or more stock sleeve size(s) to fit various ear canals, which are commonly made out of silicone rubber, elastomer, or foam, for noise isolation.
Unstructured Data	Computerized information that does not have a data model. Any data that does not conform to a pre-defined data dictionary. For example, text messages, images not formatted based on a data model...
Unstructured Report & Return	Report & Return where the content of the fields is stored outside a formatted database of numbers and letters.
Urban Environment	Environment relating to cities or intensively developed areas. The three distinguishing characteristics of urban areas: complex manmade physical terrain, a population of significant size and density, and an infrastructure upon which the area depends. Contrast with rural, which refers to sparsely developed areas, or suburb, which is a moderately developed area. Within urban environments, communications will experience a variety of impacts in comparison to rural and suburban environments due to blocking or shadowing of communications transmissions, multipath conditions and increased ambient RF noise. In an urban environment at least 33% of buildings have 3 storeys or more.
User	Person wearing and operating an ISS-S.
Verification	confirmation, through the provision of objective evidence, that specified requirements have been fulfilled
Voice COI	A voice COI is a named virtual radio channel associated with a set of system users, providing a means of establishing two-way communication among those users with a single speaker at any point in time.

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Voice COI - Selectable	A selectable voice COI is a voice COI that has been allocated to the user by the System Manager and is available for use as either an active voice COI or inactive voice COI (not available) through a user selection function.
Voice COI - Selected Primary	A selected primary voice COI has been chosen by the user as a voice group to be directed to the audio display. The user can hear audio from this primary voice COI in an assigned ear. When the user activates the voice transmission switch - primary voice COI control, the user's voice is transmitted over the air on the active primary voice COI.
Voice COI - Selected Secondary	A selected secondary voice COI has been chosen by the user as a voice group to be directed to the audio display. The user can hear audio from this voice group in an assigned ear, opposite from the primary voice group. When the user activates the voice transmission switch - secondary voice COI control, the user's voice is transmitted over the air on the active secondary voice COI.
Warning Signal	A function signal which operates an audible or visual calling device with a view to attracting attention (NATO).
Waterproof Compression Sack (WCS)	The WCS is designed to compress the in-service complete sleeping bag system to allow carriage inside the CTS Rucksack. The waterproof characteristic allows external attachment to the Small Pack System or unprotected external storage in inclement weather.
Weapon System	A combination of one or more weapons with all related equipment, materials, services, personnel and means of delivery and deployment (if applicable) required for self-sufficiency.
ZEFRA	Notional Country used in the ISSP Use Case Dismounted Platoon Patrol
ZEFRA National Army	The formed national army of the notional country of ZEFRA.
ZEFRA National Police	The formed national police of the notional country of ZEFRA.
Zulu	Empty Vehicle Prefix. Place before a call sign to designate that the soldiers assigned to the vehicle have dismounted. In an Infantry LAV equipped unit on the battlefield a ZULU C/S is a vehicle that retains its driver, gunner and turret commander (3 individuals) so that the vehicle can move on the battlefield and the 25mm gun is capable of engaging targets in support of the dismounted troops.

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