

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 1

**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) 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
- 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.

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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.

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

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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).

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.

Phase B will be for the purchase of ISS. The purchase will be through an amendment exercising the option to proceed with the Phase B.

1.2.2.3. ISS-OWSS Contract:

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.

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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

The successful bidder **must** notify the Contracting Authority in advance of their intention to make public an announcement related to the award of a contract.

1.4. Debriefings

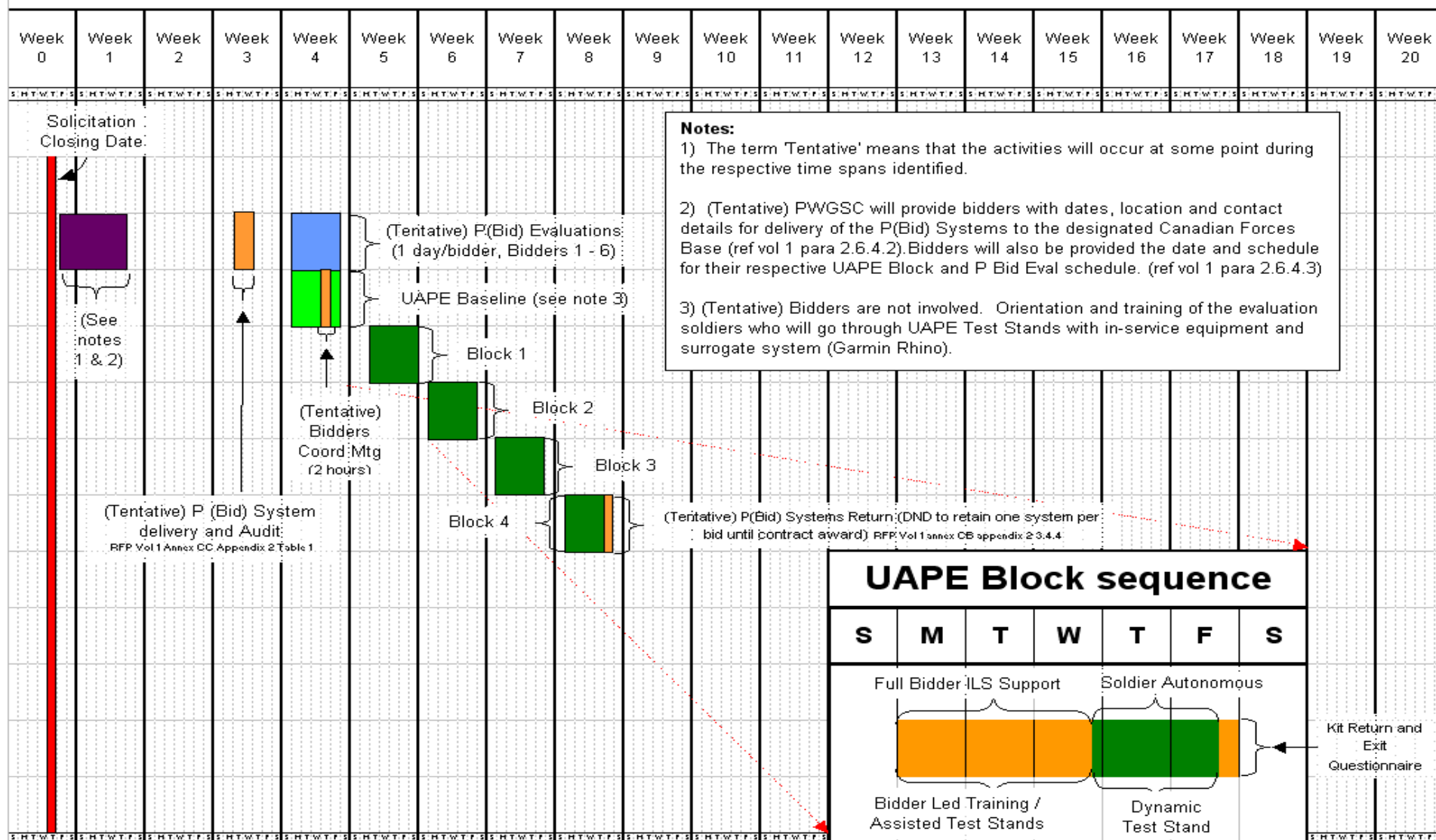
After contract award, bidders may request a debriefing on the results of the bid solicitation process. Bidders **should** make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in 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 remains 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)) and a User Acceptance Performance Evaluation (UAPE) where soldiers will score each of the Bidder's ISS performance during tasks, activities and representative missions. The timeline for the PE, specifically identifying areas 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

Bidders are invited to read this article in conjunction with Volume 2, Articles 1 and 4.

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):

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).

1.7. Not applicable

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. DND 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 Volume 1, article 6.2, Controlled Goods Requirement.

1.9.2. If Bidders choose, they may request the equipment listed in Volume 2, Annex CA, Appendix 3, Table 1 - Modular Load Carriage System Components. The equipment will be subject to the terms and conditions in Volume 2, Annex CD - Terms and conditions of loan agreements to contractors. Bidders **should** present their request to the

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Contracting Authority in writing, either by e-mail or letter, and **should** 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 Hébert
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 to Volume 1) for the Acquisition and OWSS requirements.

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).

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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 **must** not 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 **should** be signed by all the members of the joint venture. The joint venture **should** 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

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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.

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 **should** 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 Ontario.

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 the first week of May 2013. The final date and location details will be provided through an amendment to this clause.

2.6. Performance Evaluation (PE)

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2.6.1. Bidders will undergo a hands-on evaluation of their proposed ISS referred to as the Performance Evaluation (PE). The PE is divided into different parts: a ISS Demonstration Systems (P(Bid)) Evaluation and a User Acceptance Performance Evaluation (UAPE), involving Canadian Forces Combat Arms personnel. For more information see read Volume 1, Annexe CB, Appendix. 2 - ISS-A Performance Evaluation (PE) Preparation Instructions.

2.6.2. Bidders will 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 will provide their P(Bid) Systems in accordance with paragraph 2.6.4 herein. The P(Bid) System **must** be a true representation of the Bidder's Technical Bid and will be the baseline system at the start of the System Qualification Phase (Phase A) of the Acquisition Contract.

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).

2.6.4.2. The details for delivery of the P(Bid) to the designated Canadian Forces Base, will be provided to the bidders no later than one week after bid closing,. The P(Bid) Systems **must** be delivered by the mandatory date, time and place, and to the designated PWGSC representative on location. 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.

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2.6.4.3. Details regarding the dates, timings, locations, and contact information for the P(Bid) and UAPE evaluation, 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.

2.6.5. Request for information - Radio Characteristics.

a) Radio frequency:

In order to conduct the Performance Evaluation (PE), Canada has to reserve frequency assignments that align with the Bidder's radio characteristics. In order to reserve frequencies for each Bidder, Bidders **should** 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*. 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 2.6.5 b). The required information **should** be submitted via email to the Contracting Authority as early as possible, but **must** be 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.

b) Health & safety of the personnel:

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 a) to ensure the radio is safe for use as a portable RF device for the PE Activities. The above documentation **should** 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. 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.

c) The requirements in paragraphs a) and b), identified with the word "**should**", **should** be met no later than 02:00 PM Eastern Daylight Saving Time, on 15 May 2013. If any of these requirements are not met as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirements. Failure to comply with the request of the Contracting Authority and meet the requirements within that time period will render the bid non-responsive.

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2.7. RFP Electronic Package

2.7.1. Subsequent to ordering the solicitation documents through the Government Electronic Tendering Service (GETS), Bidders are 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. A compressed “zipped” folder named “*ISSP_PÉIS_RFP_EPackage*”.
2. The compressed folder includes three folders named “*English*”, “*Français*” and “*DND552*”.
3. Under the folder named “*English*”:
 - (a) Bidders will find the sub-folder named “*ISSP_MCM*” (Matrix of Compliance Modules) and “*ISSP_LCC*” (Life Cycle Cost). Details about these sub-folders are in Volume 1, Annex AC, Article 2 Instructions for preparing the MCM and LCC Electronic Response Package – Read Me First. The files “(....)_MCM” in sub-folder “*ISSP_MCM*” **should** be filled in by the Bidders and provided with their proposal “*Section II: ISS-A Technical Bid*”, “*Section III: ISS-A Management Bid*”, “*Section VI: ISS-OWSS Technical Bid*” and “*Section VII: ISS-OWSS Management Bid*” as appropriate.
 - (b) Bidders will find the sub-folder named “*ISSP_Financial*”. The subfolder “*ISSP_Financial*” contains 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 annexes AB and AC of Volume 1. The subfolder “*ISSP_LCC*” contains the file “*ISS_LCC_Templates_V1.XLS*” that **should** be filled in and provided with the Bidders “*Section VIII ISS-OWSS Financial Bid*”.
4. The compressed folder includes another folder. DND552, which includes form DND 552 *Application for Frequency Supportability*.

2.7.3. Amendments to the RFP MCM electronic documents

Canada may create separate electronic MCM files (called “Amendment File”) for paper amendments advertised on GETS when needed. The advertised amendment on GETS will inform the bidders that Amendment File(s) are available. To get a copy of the Amendment Files, follow the process described under article 2.7.1 of this Part.

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Bidders **should** populate the Amendment File. The bidder **should**, in the original MCM file, delete their original responses to these obsolete requirements and black out these requirements without deleting them. Bidders **should** ensure that the original requirement remains in the original MCM file in its original location but is not readable. All blacked out requirements in the original MCM files **should** also be blacked out in the paper copy. Each new Amendment File will be an accumulation of all amendments to date. As such, bidders will transfer their responses from the previous Amendment File to the new one. Bidders **should** submit both the original and the latest Amendment File with the bidder's responses.

2.8. Pre Contract Award Economic Price Adjustment

2.8.1. Following the closing date of this solicitation, about twelve (12) months or more may pass before the ISS acquisition and ISS-OWSS Contracts are awarded to the successful Bidder. This article establishes the mechanism required in adjusting the bid prices of the winning bid from the closing date of this solicitation to the month before the award of the contracts.

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 will 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)" will 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;

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

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

2.8.5. 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

3.2.1. 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. 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 identifying the boxes that will contain the hard master copy. See examples below:

Examples:

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

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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 **should** 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

3.2.4. 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 **should** 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:

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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 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 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.

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3.2.6. Table 2 below provides 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	X
3.2.2 Number of additional hard copies of sections and sub-sections:	1	2	2	2	2	1	6	2	2	2	2	1	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	3	3	3	3	0	4	3	3	3	3	0	3	4

3.2.7. Once received the bid package is the property of Canada and will not be returned to Bidders.

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;

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

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encouraged to use paper containing fibre certified as originating from a sustainably-managed forest and/or containing minimum 30% recycled content.

3.2.11. Bidders **should** label their company's name on all pages and any other information including CD/DVD delivered to Canada under this 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 acquisition contract in Volume 2, Annex CE References, Acronyms and Glossary and for the OWSS contract in Volume 3, Annex CE References, Acronyms and Glossary.

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, in Volume 1, Annex CB Appendix 3, Article 2 GFI List.

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3.4.3. The GFI identified in RFP Parts 1.1, 1.3 and 1.4 of Annex CE in Volumes 2 and 3 and Appendix 3 of Annex CB in 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 in Volume 1.

3.4.5. To request GFI, Bidders **should** submit to the Contracting Authority in writing, either by e-mail or letter, and **should** include the mailing address to which the Data is to be sent. This request **should** be accompanied by a fully executed original copy of the Non-Disclosure agreement (NDA) attached as RFP Annex AF of 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 Hébert
Phone number: (819) 956-0532/(819) 956-0194

3.4.6. Bidders disposal of the GFI **should** be as per the instructions in the NDA paragraph 7. Any GFI 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 end of Article 3.1 in 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" in Volume 1, Annex AA.

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

- a. "Section II - ISS-A Technical Bid" in Volume 1, Annex CB, and
 - i) Missing Data

Where, for reasons of compliance with security requirements of the national

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government of the country of origin of the data, a Bidder is not able to submit data with its proposal, the Bidder **must** met the requirements in Annex AD, Appendix 2 - Missing Data.

- b. “Section III - ISS-A Management Bid” in Volume 1, Annex CD.
- c. “Section IV - ISS-A Financial Bid” in Volume 1, Annex AB.
- d. “Section V - ISS-A IRB Bid” in Volume 1, Annex BA.

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

- a. “Section VI - ISS-OWSS Technical Bid” in Volume 1, Annex CF.
- b. “Section VII - ISS-OWSS Management Bid” in Volume 1, Annex CH.
- c. “Section VIII - ISS-OWSS Financial Bid” in Volume 1, Annex AC.
- d. “Section IX - ISS-OWSS IRB Bid” in Volume 1, Annex BB.

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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.

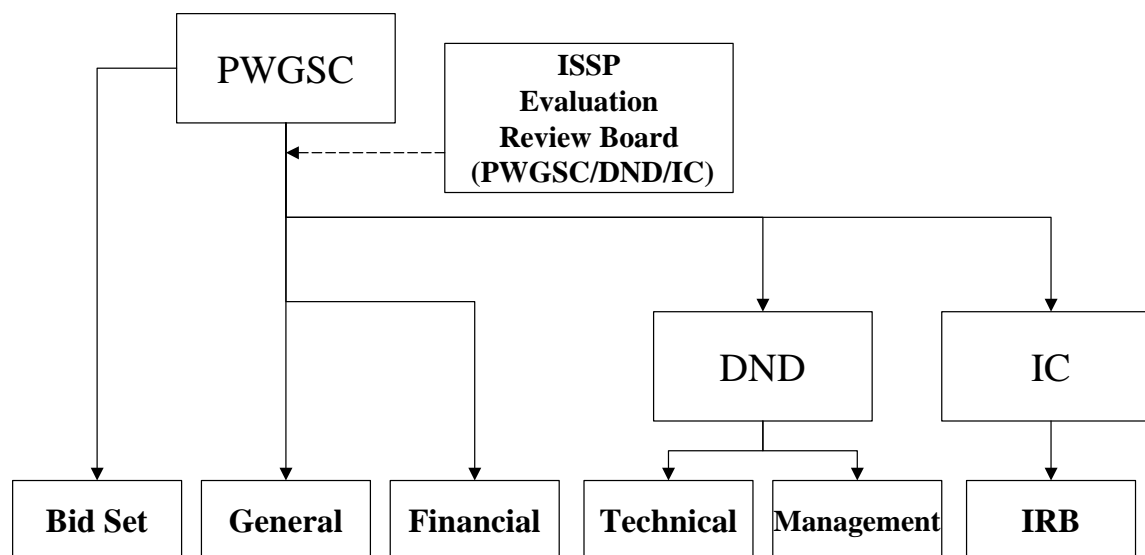


Figure 1 – ISSP Evaluation Team area of responsibility

4.1.1. Two Step Bid Evaluation Process

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. This will be a paper evaluation only; it will not apply to the physical evaluation of proposed equipment (Performance Evaluation or 2.6.5 Request for Information - Radio Characteristics). After the initial review the Contracting Authority will provide each Bidder with a "Preliminary

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Evaluation Report” listing the non-compliant mandatory requirements evaluated to date. This will include only a list of RFP references and the score for each failed rated requirement.

Bidders that do 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 information **must** be submitted to the Bid Receiving Unit on or before the date and closing time specified in the invitation.

The new information submitted by the Bidder **must** be based on the system it proposed at bid closing. A Bidder responding to a request for information will not be allowed to do a hardware or software substitution to correct a non-compliance issue.

The paper evaluation mandatory requirements will be those included in the following areas:

- General and Financial - Volume 1, Part 4, paragraph 4.1.3.3;
- IRBs - Volume 1 Module B;
- Volume 1, Annex CC, Appendix 1 - TPS Compliance Matrix;
- Volume 1, Annex CE, Appendix 1 - Managerial Compliance Matrix;
- Volume 1, Annex CG, Appendix 1 - Technical Compliance Matrices; and
- Volume 1, Annex CI, Appendix 1 - Managerial Compliance Matrices.

Step 2: Final Review of Mandatory Requirements

Canada will conduct a final review of the Bidder’s proposal, taking into account the new information submitted, to determine if all mandatory requirements have been met as required in the RFP. **Should** one or more of the initially evaluated non-compliant mandatory requirements continue to be evaluated as non-compliant after receipt of the new information, or a new non-compliance be created as a result of the new information, the proposal will be evaluated as non-responsive and will not be given any further consideration. The new information submitted will take precedence over that submitted with the original bid at bid closing.

Proposals that have demonstrated compliance with mandatory requirements at the conclusion of the final review will continue to be evaluated. For scored criteria that require a pass mark, new information provided by bidders that render the criteria compliant following the submission of the new information will be given only the passing mark.

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

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

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- a. “Section II - ISS-A Technical Bid” in Volume 1, Annex CC
- b. “Section III - ISS-A Management Bid” in Volume 1, Annex CE
- c. “Section IV - ISS-A Financial Bid” in Volume 2, Annex AB
- d. “Section V - ISS-A IRB Bid” in Volume 1, Annex BA

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

- a. “Section VI - ISS-OWSS Technical Bid” in Volume 1, Annex CG
- b. “Section VII - ISS-OWSS Management Bid” in Volume 1, Annex CI
- c. “Section VIII - ISS-OWSS Financial Bid” in Volume 3, Annex AB
- d. “Section IX - ISS-OWSS IRB Bid” in Volume 1, Annex BB

4.1.3. Mandatory Requirements – General and Financial :

The compliance matrix in Table 3 below specifies the mandatory requirements to be met by the Bidder as follows:

4.1.3.1. The requirements identified code “M” **must** be met at the bid solicitation closing date and time indicated on page 1 of the bid solicitation. Failure to meet the requirements will render the bid non-responsive.

Exception 1: In Part 2 – Instruction to Bidders, paragraph 2.6.4 – Invitation to PE Activities, the requirements must be met by the date and time in the invitation referred to in 2.6.4.2.

Exception 2: In Part 2 – Instruction to Bidders, paragraph 2.6.5. Request for information – Radio Characteristics, the requirement must be met no later than 02:00 PM Eastern Daylight Saving Time, on 15 May 2013.

Exception 3: In Part 2 – Instruction to Bidders, paragraph 3.5.2. a. i. – Missing Data, i.e. access to the missing data must be no later than October 31, 2013.

Exception 4: In Part 2 – Instruction to Bidders, paragraph 3.5.2. a. i. – Missing Data, i.e. All missing data to be reviewed by Canada must be provided in either English or French at the time of access.

4.1.3.2. The requirements identified code “SM” **should** be met at the bid solicitation closing date and time indicated on page 1 of the bid solicitation. If any of these requirements are not met as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirements. Failure to comply with the request of the Contracting Authority and meet the requirements within that time period will render the bid non-responsive.

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Exception: In Part 2 – Instruction to Bidders, paragraph 2.6.5. Request for information – Radio Characteristics, the requirement should be no later than 02:00 PM Eastern Daylight Saving Time, on 15 May 2013.

4.1.3.3. The requirements identified code “CM” **must** be met at the bid solicitation closing date and time indicated on page 1 of the bid solicitation. If any of these requirements are not met as requested, they will be treated in accordance with article 4.1.1 “Two Step Bid Evaluation Process” of this Part.

4.1.3.4. Unless covered by the Articles 4.1.3.1 to 4.1.3.3, the other “**should**” or “**must**” will not be evaluated.

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TABLE 3 - MANDATORY REQUIREMENTS COMPLIANCE MATRIX (GENERAL & FINANCIAL)

Bidder's name:				
Requirement	RFP			
Number	Reference	Requirement description	CODE	Bid Reference and/or PWGSC comments
		NOTE: Underscores in the reference number indicates the sequence of the "should" and "must". For example: "Vol. 1 Para. 2.7.3_1" is equal to the first "should" in the paragraph 2.1, and "Vol. 1 Para. 2.7.3_2" is equal to the second "should" in the paragraph 2.1;		
1	Vol. 1 Para. 1.6.1	The complete delivery of the Phase A (Qualification) work must be within 9 months from [...].	CM	
2	Vol. 1 Para. 1.6.2	The complete delivery of the Phase B (Production) work must be within 220 working days [...].	CM	
3	Vol. 1 Para. 2.1 2003 01-4	Bidders who are incorporated, including those bidding as a joint venture, must provide with their bid or promptly thereafter a complete list of names of all individuals who are currently directors of the Bidder.	CM	
4	Vol. 1 Para. 2.1 2003 01, Para. 4	Canada requires that each bid, at closing date and time or upon request from the Contracting Authority, be signed by the Bidder or by an authorized representative of the Bidder.	SM	
5	Vol. 1 Para. 2.1 2003 05, Para. 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.	CM	
6	Vol. 1 Para. 2.1_2	Bidders must not provide other terms and conditions with their bid.	CM	
7	Vol. 1 Para. 2.1_3	The bid and any resulting contract should be signed by all the members of the joint venture.	SM	
8	Vol. 1 Para. 2.1_4	The joint venture should identify and confirm the name and contact information of the representative [...]	SM	
9	Vol. 1 Para. 2.2	Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit [...]	M	
10	Vol. 1 Para. 2.6.2_2	The P(Bid) System must be a true representation of the Bidder's Technical Bid and will be the baseline system at the start of the System Qualification Phase (Phase A) of the Acquisition Contract.	M	
11	Vol. 1 Para. 2.6.4.2	The P(Bid) Systems must be delivered by the mandatory date, time and place, and [...]	M*	*Exception: must be delivered by the mandatory date, time and place as per Vol. 1 Para. 2.6.4.2.
12	Vol. 1 Para. 2.6.5 a)_1	Bidders should complete section 2 "Transmitter Equipment Characteristics", section 3 "Receiver Equipment Characteristics" and of form DND 552	SM**	**Exception: must be met by 15 May 2013.
13	Vol. 1 Para. 2.6.5 a)_2	The required information should be submitted via email	SM**	
14	Vol. 1 Para. 2.6.5. a)_3	The required information must be no later than 02:00 PM Eastern Daylight Saving Time, on 15 May 2013	M**	
15	Vol. 1 Para. 2.7.2 Para. 3. (a)	The files "(...)_MCM" in sub-folder "ISSP_MCM" should be filled in by the Bidders and [...]	SM	
16	Vol. 1 Para. 2.7.2 Para 3. (b)	The subfolder "ISSP_LCC" contains the file "ISS_LCC_Templates_V1.XLS that should be filled in and provided with the Bidders "Section VIII ISS-OWSS Financial Bid".	SM	

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17	Vol. 1 Para. 2.7.3_1	Bidders should populate the Amendment File.	SM	
18	Vol. 1 Para. 2.7.3_2	The bidder should, in the original MCM file, delete their original responses to these [...]	SM	
19	Vol. 1 Para. 2.7.3_3	Bidders should ensure that the original requirement remains in the original MCM file in its original location but is nor readable.	SM	
20	Vol. 1 Para. 2.7.3_4	All blacked out requirements in the original MCM files should also be blacked out in the paper copy.	SM	
21	Vol. 1 Para. 2.7.3_5	Bidders should submit both the original and the latest Amendment File with the bidder's responses.	SM	
22	Vol. 1 Para. 3.2.1_1	Bidders should submit a hard master copy of their bid (Master Bid Set) [...]	SM	
23	Vol. 1 Para. 3.2.1_2	Each separately bound section of the hard master copy should be submitted [...]	SM	
24	Vol. 1 Para. 3.2.1_3	Each section within the hard master copy should be clearly identified.	SM	
25		<i>Inventory of hard master bid set copy:</i>	SM	
26		- Section I, 1 hard paper copy(ies) of General bid	SM	
27		- Section II, 1 hard paper copy of ISS-A technical bid; and	SM	
28		- Section II, 1 hard paper copy of ISS-A technical bid MCMs	SM	
29		- Section III, 1 hard paper copy of ISS-A Mng bid	SM	
30		- Section III, 1 hard paper copy of Mng bid MCMs	SM	
31		- Section IV, 1 hard paper copy of ISS-A Financial bid	SM	
32		- Section V, 1 hard paper copy ISS-A IRB bid	SM	
33		- Section VI, 1 hard paper copy of ISS-OWSS technical bid	SM	
34		- Section VI, 1 hard paper copy of ISS-OWSS technical bid MCMs	SM	
35		- Section VII, 1 hard paper copy of ISS-OWSS Mng bid	SM	
36		- Section VII, 1 hard paper copy of ISS-OWSS Mng bid MCMs	SM	
37		- Section VIII, 1 hard paper copy of ISS-OWSS financial bid	SM	
38		- Section VIII, 1 hard paper copy of ISS-OWSS financial bid LCCs	SM	
39		- Section IX, 1 hard paper copy ISS-OWSS IRB bid <i>END of inventory</i>	SM	
40	Vol. 1 Para. 3.2.2_1	The Bidders should submit additional hard copies of their Master Bid Set sections in [...]	SM	
41	Vol. 1 Para. 3.2.2_2	Each separately bound section hard copies should be submitted in ringed binders [...]	SM	
42	Vol. 1 Para. 3.2.2_3	Each section should be clearly identified.	SM	
43		<i>Inventory of additional hard bid set copy:</i>	SM	
44		- Section I, 1 hard paper copy of General bid	SM	
45		- Section II, 2 hard paper copy of ISS-A technical bid; and	SM	

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46		- Section II, 2 hard paper copy of ISS-A technical bid MCMs	SM	
47		- Section III, 2 hard paper copy of ISS-A Mng bid	SM	
48		- Section III, 2 hard paper copy of Mng bid MCMs	SM	
49		- Section IV, 1 hard paper copy of ISS-A Financial bid	SM	
50		- Section V, 6 hard paper copy ISS-A IRB bid	SM	
51		- Section VI, 2 hard paper copy of ISS-OWSS technical bid	SM	
52		- Section VI, 2 hard paper copy of ISS-OWSS technical bid MCMs	SM	
53		- Section VII, 2 hard paper copy of ISS-OWSS Mng bid	SM	
54		- Section VII, 2 hard paper copy of ISS-OWSS Mng bid MCMs	SM	
55		- Section VIII, 1 hard paper copy of ISS-OWSS financial bid	SM	
56		- Section VIII, 1 hard paper copy of ISS-OWSS financial bid LCCs	SM	
57		- Section IX, 6 hard paper copy ISS-OWSS IRB bid END of inventory	SM	
58	Vol. 1 Para. 3.2.3_1	The Bidders should submit a soft master copy of their bid on CD/DVD medium [...]	SM	
59	Vol. 1 Para. 3.2.3_2	The soft master copy should be compatible with Microsoft Office Suite 2000 up to 2003 inclusive for Microsoft windows [...]	SM	
60	Vol. 1 Para. 3.2.3_3	Each CD/DVD should be clearly identified.	SM	
61	Vol. 1 Para. 3.2.3_4	Each section of the Master Bid Set should be in a separate folder.	SM	
62	Vol. 1 Para. 3.2.3_5	Each folder should be clearly identified with a folder name.	SM	
63		Inventory of Soft master bid set copy:	SM	
64		One Soft master bid set copy on CD/DVD medium END of inventory	SM	
65	Vol. 1 Para. 3.2.4_1	Bidders should submit additional soft copies on CD/DVD medium [...]	SM	
66	Vol. 1 Para. 3.2.4_2	The additional soft copy should be compatible with Microsoft Office Suite 2000 up to 2003 inclusive [...]	SM	
67	Vol. 1 Para. 3.2.4_3	Each CD/DVD should be clearly identified.	SM	
68	Vol. 1 Para. 3.2.4_4	The folder burned on the CD/DVD should be clearly identified with a folder name.	SM	
69		Inventory of additional Soft bid set copy:	SM	
70		- Section I, 1 soft copy of General bid	SM	
71		- Section II, 3 soft copy of ISS-A technical bid; and	SM	
72		- Section II, 3 soft copy of ISS-A technical bid MCMs	SM	
73		- Section III, 3 soft copy of ISS-A Mng bid	SM	
74		- Section III, 3 soft copy of Mng bid MCMs	SM	
75		- Section V, 4 soft copy ISS-A IRB bid	SM	

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76		- Section VI, 3 soft copy of ISS-OWSS technical bid	SM	
77		- Section VI, 3 soft copy of ISS-OWSS technical bid MCMs	SM	
78		- Section VII, 3 soft copy of ISS-OWSS Mng bid	SM	
79		- Section VII, 3 soft copy of ISS-OWSS Mng bid MCMs	SM	
80		- Section VIII, 3 soft copy of ISS-OWSS financial bid LCCs	SM	
81		- Section IX, 4 soft copy ISS-OWSS IRB bid END of inventory	SM	
82	Vol. 1 Para. 3.5.2 a. i)	[...] the Bidder must meet the requirements in Annex AD, Appendix 2 - Missing Certified Data	CM	
83	Vol. 1 Para. 3.5.2 a. i) - Annex AD, Appendix 2	access to the missing data must be no later than October 31, 2013	M*	*Exception
84	Vol. 1 Para. 3.5.2 a. i) - Annex AD, Appendix 2	All missing data to be reviewed by Canada must be provided in either English or French at the time of access.	M*	* Exception
85	Vol. 1 Para. 4.1.1_1	This new information must be submitted to the Bid Receiving Unit on or before the date and closing time specified.	M	
86	Vol. 1 Para. 4.1.1_2	The new information submitted by the Bidder must be based on the system it proposed at bid closing.	M	
87	Vol. 1 Para. 4.3.1	To be considered, a bid must meet all mandatory requirements of the RFP [...]	CM	
88	Vol. 1 Para. 4.3.1.2	The maximum funding available for the ISS Acquisition Contract Phase 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.	CM	
89	Vol. 1 Para. 4.3.1.3	Bids must meet all technical and managerial mandatory evaluation criteria and will be evaluated [...]	CM	
90	Vol. 1 Para. 4.3.1.4	Bidders must be financially capable of performing the requirement and agree to [...]	CM	
91	Vol. 1 Para. 4.3.1.6	Bids must meet all mandatory Industrial and Regional Benefits (IRB) Evaluation [...]	CM	
92	Vol. 1 Para. 4.3.2	To be declared responsive, the considered bids must receive a User Acceptance Performance Evaluation (UAPE) score that is at or within 20% [...]	M	
93	Vol. 1 Para. 5.1.	The certifications listed below must be completed and submitted with the bid.	CM	
94	Vol. 1 Para. 5.1.1	The Bidder must provide the certification in Volume 1, Annex AD, Appendix 1.	CM	
95	Vol. 1 Para. 6.1.2	The provided equivalent security clause should be provided with the bid, [...]	SM	
96	Vol. 1 Para. 6.1.3.1 (a)	the Bidder should be registered with the Canadian Industrial Security Directorate [...]	SM	
97	Vol. 1 Para. 6.1.3.1 (b)	the Bidder should hold an approved COMSEC account at the level of SECRET [...]	SM	
98	Vol. 1 Para. 6.1.3.1 (b) i)	At least one party, Canadian or US, should hold an approved COMSEC account at the level of SECRET.	SM	
99	Vol. 1 Para. 6.1.3.1 (c)	the Bidder should currently hold a valid Facility Security Clearance at the level of SECRET with approved Document Safeguarding at the SECRET level [...]	SM	
100	Vol. 1 Para. 6.1.3.1 (c) i)_1	All parties should hold the requisite valid SECRET Facility Security Clearance;	SM	
101	Vol. 1 Para. 6.1.3.1 (c) i)_2	At least one party should have the requisite approved Document Safeguarding at the SECRET level.	SM	

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102	Vol. 1 Para. 6.2.1 a.	[...] writing to the Contracting Authority identified in the bid solicitation and should contain the CGP registration number or written proof [...]	SM	
103	Vol. 1 Para. 6.4.1	The Bidder should provide two letters, one for the resulting Integrated Soldier System [...]	SM	
104	Vol. 1 Para. 6.4.3	All companies that comprise the joint venture should be included in each of the resulting contracts insurance coverage.	SM	
105	Vol. 1 Ann. AA Para. 1	The Bidders proposal Section I - General Bid should provide an outline of the bid, [...]	SM	
106	Vol. 1 Ann. AA Para. 2_1	The Bidders proposal Section I - General Bid should provide an Executive Summary [...]	SM	
107	Vol. 1 Ann. AA Para. 2_2	The Executive Summary will serve as a stand-alone summary of the highlights of the Bidder's proposal and should include [...]	SM	
108	Vol. 1 Ann. AA Para. 4	Bidders should include in their Section I - General Bid a statement stipulating that [...]	SM	
109	Vol. 1 Ann. AA Para. 7	The information requested in the following bid solicitation references should be provided by the bidders.	SM	
110	Vol. 1 Ann. AB Para. 1.1_1	Bidders should submit a filled-in copy of the ISS-A Financial Bid Presentation Sheet [...]	SM	
111	Vol. 1 Ann. AB Para. 1.1_2	The Bidders should respect the format provided in the ISS-A FBPS.	SM	
112	Vol. 1 Ann. AB Para. 1.8_1	Bidders should submit prices for each item in the ISS-A FBPS as per [...]	SM	
113	Vol. 1 Ann. AB Para. 1.8_2	Bidders should keep the item's price fields empty.	SM	
114	Vol. 1 Ann. AB Para. 1.8_3	Bidders should insert "0" in the "Unit price" field and insert the quantity in the "Qty" field when an item is provided free.	SM	
115	Vol. 1 Ann. AB Para. 1.8_4	Bidders should insert "0" in the "Unit price" and "Qty" fields for any item already included/bundled/physically integrated [...]	SM	
116	Vol. 1 Ann. AB Para. 2.1	The Prices in "Section IV ISS-A Financial Bid" should be in Canadian currency.	SM	
117	Vol. 1 Ann. AB Para. 4.1	Unless otherwise specified in the bid solicitation, bids should be in Canadian currency.	SM	
118	Vol. 1 Ann. AB Para. 4.2	This request should be specifically made at time of bidding.	SM	
119	Vol. 1 Ann. AB Para. 4.4_1	The foreign value of the foreign currency component of the bid or negotiated price should be provided in the bid.	SM	
120	Vol. 1 Ann. AB Para. 4.4_2	If milestone payments are proposed, it should be indicated on the above form [...]	SM	
121	Vol. 1 Ann. AB Para. 4.5	[...] for evaluation purposes, the noon rate quoted by the Bank of Canada (http://www.bankofcanada.ca/rates/exchange/) as being in effect on date of bid solicitation starting date should be applied by the bidders [...]	SM	
122	Vol. 1 Ann. AB Para. 9.3.1.1.1_1	[...], the Bidder should provide ISS-ESs.	SM	
123	Vol. 1 Ann. AB Para. 9.3.1.1.1_2	The ISS-ES should be broken down in terms of Line-Replaceable Unit (LRU).	SM	
124	Vol. 1 Ann. AB Para. 9.3.1.2.2.1	[...], the Bidder should provide Battery Sets. The ISS-ES may be comprised [...]	SM	
125	Vol. 1 Ann. AB Para. 9.3.1.3.1_1	Under FBPS item "MLCS ISS Pouch Set ", the Bidder should provide MLCS ISS Pouch Set.	SM	

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126	Vol. 1 Ann. AB Para. 9.3.1.3.1_2	The MLCS ISS Pouch Set should be broken down in terms of pouches [...]	SM	
127	Vol. 1 Ann. AB Para. 9.3.2.1_1	[...], the Bidder should provide the required LCSS Radio Interface Cables.	SM	
128	Vol. 1 Ann. AB Para. 9.3.2.1_2	The LCSS Radio Interface Cable Set should be broke down in term of cables.	SM	
129	Vol. 1 Ann. AB Para. 9.3.4.1.2	[...] the Bidder should provide enough Battery Charger Sets to support blocks of ISS Rechargeable Battery Sets.	SM	
130	Vol. 1 Ann. AB Para. 9.6.1.1	In order for Canada to obtain competitive pricing for spare parts, Bidders should submit Firm Unit Prices for Spare Parts in 17.1 to 17.4.	SM	
131	Vol. 1 Ann. AB Para. 10.4.1.1	Under item 21.1, Bidders should provide all the labour categories identified as sub-items.	SM	
132	Vol. 1 Ann. AB Para. 12.3.3.1	The Bidder should quote Quantity Discount Factors % for the conditions described under columns 2 to 8 headings [...]	SM	
133	Vol. 1 Ann. AB Para. 12.4.2.1	The Bidder should provide a Quantity Discount Factor % for the conditions described under columns 2 to 9 headings and insert [...]	SM	
134	Vol. 1 Ann. AC Para. 1.1_1	Bidders should submit a filled-in copy of the ISS-OWSS Financial Bid Presentation Sheet [...]	SM	
135	Vol. 1 Ann. AC Para. 1.1_2	The Bidders should respect the format provided in the ISS-OWSS FBPS.	SM	
136	Vol. 1 Ann. AC Para. 1.8_1	Bidders should submit prices for each item in the ISS-OWSS FBPS as per [...]	SM	
137	Vol. 1 Ann. AC Para. 1.8_2	If some items are not part of the proposal, Bidders should keep the item's price fields empty.	SM	
138	Vol. 1 Ann. AC Para. 1.8_3	Bidders should insert "0" in the "Unit price" field and insert the quantity in the "Qty" field when an item is provided free.	SM	
139	Vol. 1 Ann. AC Para. 1.8_4	Bidders should insert "0" in the "Unit price" and "Qty" fields for any item already included/bundled/physically integrated [...]	SM	
140	Vol. 1 Ann. AC Para. 2.1	Prices in "Section VIII ISS-OWSS Financial Bid" should be in Canadian currency.	SM	
141	Vol. 1 Ann. AC Para. 4.1	Unless otherwise specified in the bid solicitation, bids should be in Canadian currency.	SM	
142	Vol. 1 Ann. AC Para. 4.2	This request should be specifically made at time of bidding.	SM	
143	Vol. 1 Ann. AC Para. 4.4_1	The foreign value of the foreign currency component of the bid or negotiated price should be provided in the bid.	SM	
144	Vol. 1 Ann. AC Para. 4.4_2	If milestone payments are proposed, it should be indicated on the above form [...]	SM	
145	Vol. 1 Ann. AC Para. 4.5	[...] for evaluation purposes, the noon rate quoted by the Bank of Canada (http://www.bankofcanada.ca/rates/exchange/) as being in effect on date of bid solicitation starting date should be applied by the bidders [...]	SM	
146	Vol. 1 Ann. AC Para. 8.3.1.1_1	Bidders should quote a blended Firm Hourly Rate for the repair services.	SM	
147	Vol. 1 Ann. AC Para. 8.3.1.1_2	The Bidders should only provide blended Firm Hourly Rates in function of Line Replaceable Units.	SM	
148	Vol. 1 Ann. AC Para. 8.4.1.1	Under FBPS item 6.1, Bidders should provide all the labour categories identified as sub-items.	SM	
149	Vol. 1 Ann. AC Para. 8.5.1.1	In order for Canada to obtain competitive pricing for spare parts, Bidders should submit Firm Unit Prices for Spare Parts in 9.1 to 9.4.	SM	
150	Vol. 1 Ann. AD App. 1 Para. 1	[...] 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.	CM	

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4.2. Subcontractors:

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 subcontractors

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 Phase 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 item “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 technical and managerial mandatory evaluation criteria and will be evaluated on the following:

- a) for ISS-A work, the criteria are as per Annexes CC and CE of Volume 1; and
- b) for the ISS-OWSS work, the criteria are as per Annexes CG and CI of Volume 1;

4.3.1.4. 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;

4.3.1.5. Bidders **must** meet the mandatory requirements in Part 4 – Evaluation Procedures and Basis of Selection, paragraph 4.1.3 Mandatory Requirements – General and Financial;

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4.3.1.6. Bids **must** meet all mandatory Industrial and Regional Benefits (IRB) Evaluation Criteria as per Volume 1, Module B;

4.3.2. To be considered, bids have to 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 calculation is detailed in Volume 1, Annex AE - Cost-per-Point Calculation.

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. If there is still a tie, the bid with the highest IRB score will be recommended.

4.3.3. 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 4.3.1.3 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;
- * $640 \text{ pts} \times 20\% = 128 \text{ pts}$;
- * $640 \text{ pts} - 128 \text{ pts} = 512 \text{ pts}$ (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);
- * Bids C and G are declared non-responsive;
- * 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 **must** 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 Bidder **must** provide the certification in Volume 1, Annex AD, Appendix 1.

5.1.2. Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies as per section 01 of Standard Instructions 2003, for himself and his affiliates, to be in compliance with the Code of Conduct and Certifications clause of the Standard instructions. The related documentation therein required will help Canada in confirming that the certifications are true.

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PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

6.1. Security requirement

6.1.1. There are security requirements associated with this requirement which can be found in Volumes 2 and 3, article 3 Security Requirement for Canadian supplier. If the successful Bidder is a foreign supplier this will be replaced before contract award by a security requirement adapted to the foreign supplier's country of origin as described in article 6.1.2 below.

6.1.2. Foreign supplier security clauses:

If a potential bidder is a foreign supplier, this bidder **should** communicate with the Contracting Authority immediately so that the equivalent security clause can be e-mailed back to them prior to bid closing. The provided equivalent security clause **should** 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 The Bidder has to satisfy the following conditions:

- (a) the Bidder **should** be registered with the Canadian Industrial Security Directorate (CISD) PWGSC, or its National Designated Security Authority;
- (b) the Bidder **should** 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, **should** hold an approved COMSEC account at the level of SECRET.
- (c) the Bidder **should** 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 **should** hold the requisite valid SECRET Facility Security Clearance;
 - At least one party **should** have the requisite approved Document Safeguarding at the SECRET level.

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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. As the resulting contract will require the production of or access to controlled goods that are subject to the [Defence Production Act](#), R.S. 1985, c. D-1, bidders are advised that within Canada only persons who are registered, exempt or excluded under the Controlled Goods Program (CGP) are lawfully entitled to examine, possess or transfer controlled goods. Details on how to register under the CGP are available at: [Controlled Goods Program](#) and registration is carried out as follows:

- a. When the bid solicitation includes controlled goods information or technology, the Bidder **must** be registered, exempt or excluded under the CGP before receiving the bid solicitation. Requests for technical data packages or specifications related to controlled goods **should** be made in writing to the Contracting Authority identified in the bid solicitation and **should** contain the CGP registration number or written proof of exemption or exclusion of the Bidder and of any other person to whom the Bidder will give access to the controlled goods.
- b. When the bid solicitation does not include controlled goods information or technology but the resulting contract requires the production of or access to controlled goods, the successful Bidder and any subcontractor who will be producing or accessing controlled goods **must** be registered, exempt or excluded under the CGP before examining, possessing or transferring controlled goods.
- c. When the successful Bidder and any subcontractor proposed to examine, possess or transfer controlled goods are not registered, exempt or excluded under the CGP at time of contract award, the successful Bidder and any subcontractor **must**, within seven (7) working days from receipt of written notification of contract award, ensure that the required application(s) for registration or exemption are submitted to the CGP. No examination, possession or transfer of controlled goods **must** be performed until the successful Bidder has provided proof, satisfactory to the Contracting Authority, that the successful Bidder and any subcontractor are registered, exempt, or excluded under the CGP.

Failure to provide proof, satisfactory to the Contracting Authority, that the successful Bidder and any subcontractor are registered, exempt or excluded under the CGP, within thirty (30) days from receipt of written notification of contract award, will be considered a

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default under the resulting contract except to the extent that Canada is responsible for the failure due to delay in processing the application.

6.2.2. Bidders are advised that all information on the Application for Registration (or exemption) Form will be verified and errors or inaccuracies may cause significant delays and/or result in denial of registration or exemption.

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 **should** 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 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 **should** 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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Volume 1

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. 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.

2. 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);
- 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:

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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).

- A high level milestone schedule that clearly identifies the key dates for accomplishing the proposed Work;

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

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3. 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.

4. Submission of Canada reference documents (Data)

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.

5. Certifications

Certifications as per Part 5 – Certifications **should** be located in Bidders Section I - General Bid.

6. Security, financial and other requirements

The information requested as per Part 6 - Security, financial and other requirements **should** be located in Bidders Section I - General Bid,.

7. Provision of Bidder Information

The information requested in the following bid solicitation references **should** be provided by the bidders. The missing information in the following bid solicitation references **should** be located in Bidders Section I - General Bid:

- a) Volume 1, Article 2.4 - Applicable Laws;
- b) Volume 2, Article 5.6 Contractor Representative; and
- c) Volume 3, Article 5.6 Contractor Representative;

8. 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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“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 Acquisition Contract as per Volume 2 Resulting Contract.

1. ISS-A Financial Bid

1.1. Bidders **should** submit a filled-in copy of the ISS-A Financial Bid Presentation Sheet (FBPS) with their proposal “Section IV ISS-A Financial Bid”. The Bidders **should** 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 ones are 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”).

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.

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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. 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.

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 insert 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.

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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 prices in “Section IV ISS-A Financial Bid” **should** be 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 under the conditions detailed in Volume 2, Article 6.5.2 – SACC C2611C - Customs Duties - Contractor Importer.

3. Not applicable

4. Exchange Rate Fluctuation

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

4.2. Bidders may request Canada to assume the risk for exchange rate fluctuation. This request **should** 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 **should** be provided in the bid. The forms in APPENDICES 3 & 4 to Annex AB in Volume 2 Claim for Exchange Rate Adjustments, may be used for this purpose. If milestone payments are proposed, it **should** be indicated 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 (<http://www.bankofcanada.ca/rates/exchange/>) as being in effect on date of bid solicitation starting date **should** be applied by the bidders as the initial conversion factor for the specified currency.

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4.6. Rates proposed by bidders, if different from paragraph 4.5 above, will be replaced by Canada to those as per paragraph 4.5 above.

4.7. Canada will pay the exchange rate adjustment amount in Canadian currency in accordance with RFP article 6.3 to Volume 2.

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

5.1. Economic price adjustments will be in accordance with Volume 2, Article 6.6.

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

8. PROCEDURES FOR PART 1 (Phase A Qualification):

8.1. Exchange rate fluctuation and Economic Price Adjustments:

8.1.1. Canada will not assume the risk for exchange rate fluctuation nor will there be economic price adjustments applicable for Phase A Qualification.

8.2. Item 5.0 "Qualification":

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

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.

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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 articles 6.2.1 and 6.2.2 in 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 has to be equal or lower than the maximum funding prescribed in Volume 1, Part 4, Article 4.3 – Basis of Selection, paragraph 4.3.1.2.;

9. PROCEDURES FOR PART 2 (Optional Goods and/or Services Phase B (Production)):

9.1. Exchange rate fluctuation:

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

9.2. Economic Price Adjustment:

9.2.1. 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.

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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 **should** provide ISS-ESs. The ISS-ES **should** be broken down in terms 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 many 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.

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 **should** provide Battery Sets. 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).

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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 terms of pouches. The Bidder can insert as many as 10 pouches.

9.3.2. Accessory Items:

9.3.2.1. Under FBPS item “LCSS Radio Interface Cable Set”, the Bidder **should** 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 many as 10 Interface Cables.

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.

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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 Bidders 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 **should** 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 call “Ancillary”. The Bidder can insert as many as 10 Ancillary. Under “Battery Charger Set” provide the designations for each of the ancillaries.

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.

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

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9.5.3. Under item 14.0, insert your quoted Firm Prices into column B1 opposite to all sub-items.

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 obtain competitive pricing for spare parts, Bidders **should** submit Firm Unit Prices for Spare Parts in 17.1 to 17.4. Although these will be evaluated by simulating the purchase of a fictitious quantity of two hundred (200) ISS P(Prod) equivalent, using spares. The pricing will be contractually binding.

9.6.1.2. 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.

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. The Bidder's bid price for the eventual ISS Acquisition Contract Phase B, excluding Goods and Services Tax or Harmonized Sales Tax, is shown in item 20.0.

10. PROCEDURES FOR PART 3 Miscellaneous Work (Not phased specific):

10.1. Application:

10.1.1. Miscellaneous work in PART 3 of Volume 2, Annex AB may include but is not 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);

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- 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 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.

10.4. Item 21.0 “Engineering Support Services”:

10.4.1. Normal business hours:

10.4.1.1. Under item 21.1, Bidders **should** 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.

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10.5. Item 24.0 “ISS-A Miscellaneous Work Bid Price”:

10.5.1. The Bidder’s bid price for Part 3 Miscellaneous Work (Not phased specific) for the eventual ISS Acquisition Contract excluding Goods and Services Tax or Harmonized Sales Tax, is shown in item 24.0.

11. PROCEDURES FOR APPENDIX 1 (Purchase of Optional Quantities):

11.1. Exchange rate fluctuation:

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

11.2. Economic Price Adjustment:

11.2.1. 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 APPENDIX 2 to Annex AB to Volume 2

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

11.4.1. Please read paragraph 3 of this annex again.

11.4.2. Under item 3.0, insert your quoted Firm Price into column B1 opposite to item 3.0.

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

11.5.1. A weighting factor of 0.25 has been applied to the options in item 6.3 to avoid the manipulation of prices between PARTS 1 to 3, and APPENDIX 1, excluding Goods and Services Tax or Harmonized Sales Tax, is shown.

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

11.6.1. For financial bid evaluation purposes only, the “ISS-A WORK TOTAL BID PRICE” is shown in item 7.0, excluding Goods and Services Tax or Harmonized Sales Tax.

12. PROCEDURES FOR APPENDIX 2 (Optional Quantities Discount Factor Table):

12.1. Exchange rate fluctuation:

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

12.2. Economic Price Adjustment:

12.2.1. 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 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 **should** 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%.

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Quantity Discount Factor % = [1 - (% discount)]

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 follows:

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 **should** 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 Bidder's 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 FOR APPENDICES 3 AND 4 - Claim for Exchange Rate Adjustments:

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

13.2. If there is a FCC:

13.2.1. For any of the items in PARTS 2 and 3 of the FBPS, use the APPENDIX 3 “PARTS 1, 2 & 3 Claim for Exchange Rate Adjustments”.

13.2.2. For any of the items in APPENDICES 1 and 2 FBPS, use APPENDIX 4 “APPENDICES 1 & 2's Claim for Exchange Rate Adjustments”.

13.2.3 Read paragraph 4 of this annex’ 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 times 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. The value of the item’s quoted price in Canadian dollars, excluding Goods and Services Tax or Harmonized Sales Tax, is shown.

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.

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“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 Optimized Weapon System Support Contract as per Volume 3 - Resulting Contract.

1. ISS-OWSS Financial Bid

1.1. Bidders **should** submit a filled-in copy of the ISS-OWSS Financial Bid Presentation Sheet (FBPS) with their proposal “Section VIII ISS-OWSS Financial Bid”. The Bidders **should** 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, 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 ones are self-explanatory.

1.3. Not applicable

1.4. The ISS-OWSS FBPS is divided into 2 parts. 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, read the RFP article 4 to Volume 3.

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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 "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" in the "Unit price" field and insert 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 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. Prices in "Section VIII ISS-OWSS Financial Bid" **should** be 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 **should** be in Canadian currency.

4.2. Bidders may request Canada to assume the risk for exchange rate fluctuation. This request **should** 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 **should** be provided in the bid. The forms in APPENDIX 1 to Annex AB in Volume 3 Claim for Exchange Rate Adjustments, may be used for this purpose. If milestone payments are proposed, it **should** be indicated 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 (<http://www.bankofcanada.ca/rates/exchange/>) as being in effect on date of bid solicitation starting date **should** be applied by the bidders as the initial conversion factor for the specified currency.

4.6. Rates proposed by bidders, if different from paragraph 4.5 above, will be replaced by Canada to those as per paragraph 4.5 above.

4.7. 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.

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 FOR THE Part 1 to Annex AB:

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. 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. Bidders **should** quote a blended Firm Hourly Rate for the repair services. Bidders have the opportunity to provide more than one blended Firm Hourly Rates for the repair services. The Bidders **should** 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 **should** 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 obtain competitive pricing for spare parts, Bidders **should** submit Firm Unit Prices for Spare Parts in 9.1 to 9.4. Although these will be evaluated by simulating the purchase of a fictitious quantity of 1680 ISS P(Prod) equivalent, using spares. The pricing will be contractually binding.

8.5.1.2. If it is found that some requested sub-items, including price, in 9.0 are missing, the missing sub-items will be added by Canada to 9.0 using the description and Firm Unit Prices from Volume 2, Annex AB, Part 2, ISS-A FBPS sub-items 13.1 to 13.4.

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.

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

8.6.1. The value of the Bidder’s bid price for the eventual ISS-OWSS Contract, excluding Goods and Services Tax or Harmonized Sales Tax is shown.

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9.0 PROCEDURES FOR APPENDIX 1 - Claim for Exchange Rate Adjustments:

9.1. If there is no Foreign Currency Components (FCC), do not use RFP Volume 3, Annex AB, APPENDIX 1 "Claim for Exchange Rate Adjustments".

9.2. For any of the items in Part 1 of the FBPS, 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. The value of the item’s quoted price in Canadian dollars, excluding Goods and Services Tax or Harmonized Sales Tax is shown.

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.

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

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.

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Appendix 2

Missing Data

The Bidder **must** provide a list of missing data that exists but is classified and could not be included in proposal by reason of the security requirements of the applicable country.

As required for bid evaluation, access to the missing data **must** be provided to Canada or if access to Canadian officials cannot be provided, Canada will accept a review of the missing data by official representatives from the applicable country's government who in turn will confirm to the Canadian government the validity of the supporting data. This access **must** be no later than December 31, 2013.

If the missing data is to be reviewed by Canada, access to the missing data **should** be provided at the DND ISSP PMO location. If access to the missing data cannot be provided at the DND ISSP PMO location, the Bidder **must** reimburse Canada the reasonable travel and living expenses required for the DND TA and/or his representatives to travel to the location where the Certified Data may be accessed.

All missing data to be reviewed by Canada **must** be provided in either English or French at the time of access.

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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-A) 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

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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.

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

- 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).

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

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- 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 than the platform proposed for the ISS Project, and one that offers significant opportunities for technological advancement, growth in the level of

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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 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 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

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ending six (6) years after the Effective Date of Contract. For the winning bidder, the total contract value 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;
 - 5.1.8.4. Regional Development Plan;

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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 **Investment Framework**

- 9.1. An IF transaction that has been fully reviewed and approved by the IRB Authority as a Banked Transaction may be included in a Bidder's IRB Proposal submitted at bid closing. The processes and limits regarding Banked Transactions are outlined in Section 7, "Banking."
- 9.2. If an IF activity which has not been fully reviewed and approved by the IRB Authority as a Banked Transaction is included in a Bidder's IRB Proposal submitted at bid closing, it will not be evaluated and its value will not be counted in any way for evaluation purposes.

10.0 **IRB EVALUATION PLAN**

10.1. **Introduction**

- 10.1.1. 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).
- 10.1.2. 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.

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10.1.3. 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.

10.1.4. IRB Evaluation Team: The IRB Evaluation Team is led by the IRB Authority and may include representatives from the Regional Development Agencies.

10.2. Canada's IRB Objectives

10.2.1. 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 ISS Project proposal being deemed non-compliant.

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

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

10.2.2.2. Small and Medium Business.

10.2.3. This evaluation will be accomplished by:

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

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

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

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

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

10.2.3.6. Determining the acceptability of the proposal.

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

10.2.5. 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:

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

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

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

10.3. Evaluation Methodology

10.3.1. 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.

10.3.2. IRB Plans

10.3.2.1. 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;

10.3.2.2. 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;

10.3.2.3. 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;

10.3.2.4. 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

10.3.2.5. 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.

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

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

10.3.2.6.2. Quality will be rated on a scale of zero (0) to five (5), using the Word Pictures in Table 10-1 (IRB Plan Quality Word Pictures);

Table 10- 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.
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.

10.3.2.6.3. Risk will be rated on a scale of zero (0) to five (5), using the Word Pictures in Table 10-2 (IRB Plan Risk Word Pictures)

Table 10- 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.

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.

10.3.2.6.4. 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;

10.3.2.6.5. 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

10.3.3. IRB Transactions

- 10.3.3.1. 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.
- 10.3.3.2. 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.
- 10.3.3.3. 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.
- 10.3.3.4. 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.
- 10.3.3.5. 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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10.3.3.6. 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.

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

10.3.3.7.1. 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;

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

10.3.3.7.3. Quality will be rated for each proposed IRB Transaction on a scale of zero (0) to five (5), using the Word Pictures in Table 10-3 (IRB Transaction Quality Word Pictures);

Table 10- 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.

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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).

10.3.3.7.4. Risk will be rated for each proposed IRB Transaction on a scale of zero (0) to five (5), using the Word Pictures in Table 10-4 (IRB Transaction Risk Word Pictures);

Table 10- 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.

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.

10.3.3.7.5. 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;

10.3.3.7.6. 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;

10.3.3.7.7. 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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10.3.3.7.8. 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).

10.3.3.7.9. 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

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

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

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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.

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 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.
- 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

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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

- 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

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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:
 - 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 3 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 3 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 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 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	_____	_____

Mandatory Requirements - Compliancy Checklist

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;	_____	_____
IRB Management Plan;	_____	_____
Regional Development Plan;	_____	_____

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Mandatory Requirements - Compliancy Checklist		
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**

- 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 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 **Investment Framework(IF)**

- 9.1. An IF transaction that has been fully reviewed and approved by the IRB Authority as a Banked Transaction may be included in a Bidder's IRB Proposal submitted at bid closing. The processes and limits regarding Banked Transactions are outlined in Section 7, "Banking."
- 9.2. If an IF activity which has not been fully reviewed and approved by the IRB Authority as a Banked Transaction is included in a Bidder's IRB Proposal submitted at bid closing, it will not be evaluated and its value will not be counted in any way for evaluation purposes.

10.0 **IRB EVALUATION PLAN**

10.1. **Introduction**

- 10.1.1. 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).

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10.1.2. 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.

10.1.3. 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.

10.1.4. IRB Evaluation Team: The IRB Evaluation Team is led by the IRB Authority and may include representatives from the Regional Development Agencies.

10.2. Canada's IRB Objectives

10.2.1. 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.

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

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

10.2.2.2. Small and Medium Business.

10.2.3. This evaluation will be accomplished by:

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

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

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

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

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

10.2.3.6. Determining the acceptability of the proposal.

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

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10.2.5. 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:

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

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

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

10.3. Evaluation Methodology

10.3.1. 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.

10.3.2. IRB Plans

10.3.2.1. 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;

10.3.2.2. 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;

10.3.2.3. 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;

10.3.2.4. 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

10.3.2.5. 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.

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

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

10.3.2.6.2. 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);

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Table 9- 5, 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.
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.

10.3.2.6.3. 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.
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.

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10.3.2.6.4. 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;

10.3.2.6.5. 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
Small Business Development Plan	4	2	8
Total Score (sum of Plan scores)			45

10.3.3. IRB Transactions

10.3.3.1. 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.

10.3.3.2. 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.

10.3.3.3. 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.

10.3.3.4. If a proposed IRB Transaction does not fulfill the Eligibility Criteria requirements, then the specific proposed transaction will be found

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unacceptable, will be rejected and rated as zero (0) within the determination of overall bid acceptability.

10.3.3.5. 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.

10.3.3.6. 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.

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

10.3.3.7.1. 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;

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

10.3.3.7.3. 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.

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VALUE	IRB TRANSACTION QUALITY WORD PICTURES
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).

10.3.3.7.4. 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.
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.

10.3.3.7.5. 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;

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10.3.3.7.6. 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;

10.3.3.7.7. For the first tranche of IRB Transactions due at bid closing, the minimum acceptable IRB Transaction evaluation score is two hundred seventy (270) points.

10.3.3.7.8. 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).

10.3.3.7.9. 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.

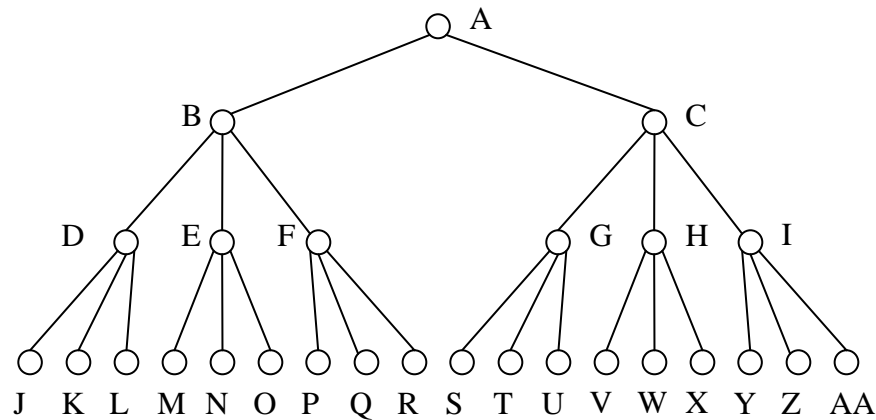


Figure 1: Example Hierarchical Structure.

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
		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
	PÉIS_MMC	ÉIS_SOSA_MMCTechnique_V1.XLS
		ÉIS_SOSA_MMCGestion_V1.XLS
	PÉIS_CCV	ÉIS_CCV_Gabarits_V1.XLS
		OMEGAPS_Analyzer-R4_3_URG.PDF

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.

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

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.

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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.

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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 P(Bid) system 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;

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

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

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;

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;

3.3.1.8 The Bidder should deliver the proposed P(Bid) systems in a single container or series of lockable containers which should be clearly identified by company name; and

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.

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

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 4 weeks;

3.4.3.2 During the conduct of the UAPE, experienced Canadian Forces soldiers (referred to as 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 four times by four different groups of soldiers. An evaluation period will be one week duration over the same UAPE test stands (four Performance Evaluation Sections x five days = four weeks);

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

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

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

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.

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

3.6 Consumables and Spare Parts. Bidders are to 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.

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.

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

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. During Phases 1, 2 and 4 Bidders will be limited to a maximum of six (6) personnel in the PE camp. During Phase 3 Bidder will be limited to a maximum of three (3) Personnel in the PE camp.

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

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:

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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 will 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 will 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 will be provided lunchtime meals during the P(Bid) Eval and Stages 1 and 2 of the UAPE however, the Crown will not be capable of providing meals that account for dietary restrictions. In all other instances, 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.

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.

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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6.8 **Daily Routine and Schedule.** The schedule of PE activities will be set by the Crown, changes to the schedule will only occur in response to technical or availability issues of Crown owned equipment or facilities, time to complete test stands in stage 2 or 3 or weather as noted above in para 6.4. With respect to the UAPE the daily end time for activities are estimated. Bidders should be prepared to continue participation until the daily objectives have been met.

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.

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;

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.;

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.

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 5 of Table 1 – P (Bid) Evaluation Compliance Matrix found in Appendix 3 of Annex CC. Three different CF Base map sets will be included as part of the Government Furnished Information (GFI) portion of the Request For Proposal (RFP). The PE activities location will determine which map files to use during the PE. 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: \[PE CFB name]\Imagery\[map name.tif]);
- 1 x GeoPDF Map (DSSPM Data Files - Evaluation Area Maps: \[PE CFB name]\Images\[map name.pdf]); and
- 1 x GeoTiff Map (DSSPM Data Files - Evaluation Area Maps: \[PE CFB name]\Images\[map name.tif]).

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. Regardless of whether or not the P(Bid) Evaluation requirements have all been demonstrated, the ISSP Technical Evaluation Team will stop the P(Bid) Evaluation at 2330 hrs on the day that the P(Bid) Evaluation is performed.

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.

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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 1-16 and 33-37 will be completed indoors. Outdoor: Serial 18-31 will be conducted outdoors.	The Bidder is expected to be ready to start the P (Bid) Evaluation at 1230.

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

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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;
- 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.

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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1. General

1.1 As part of the overall bid evaluation process, the proposed P(Bid) systems will undergo a User Acceptance Performance Evaluation (UAPE). The scoring criteria and method of rating are contained in the RFP Appendix 4 to Annex CC to Volume 1.

2. Overall Concept

2.1 The UAPE provides an opportunity for Bidders to physically demonstrate the capabilities of their system. It focuses on selected Human Factors (HF) technical requirements that are best evaluated through a hands-on physical evaluation by a representative population of users under controlled scientific conditions. The representative population of experienced Canadian Forces soldiers will be referred to as evaluation soldiers throughout this document.

2.2 Aim - To evaluate the usability and soldier acceptance of candidate P(Bid) systems to contribute to the selection of the winning bid.

2.3 Primary Objective - Determine if the P(Bid) systems meet the minimum HF requirements for soldier acceptability and usability in accordance with the bid evaluation plan, based on the User Acceptance Performance Specification (UAPS).

3. Evaluation Soldiers Orientation and Baseline

3.1 Bid Systems will be evaluated by teams of experienced Canadian Forces soldiers. However, to ensure that evaluation soldiers are familiar with the testing protocols, the human factors measurement tools, sources of bias, synchronization of team members, and ultimately the considerations while evaluating a P(Bid) system, evaluation soldiers will be given orientation and training for one week prior to the start of UAPE. This will ensure that they have sufficient familiarity with the technological capabilities to be tested, the methods and tools that will be used, and the testing protocols to be employed. Evaluation soldiers will establish an evaluation baseline using in-service equipment (Personal Role Radios (PRRs), DAGR) and techniques as well as a surrogate system such as the Garmin Rino to ensure a minimum competency in operating GUIs and SA/GPS system. Evaluation soldiers will be exposed to all of the test stands laid out in Stage 2 described below while performing the same tasks, activities, and human factors measurements that will be required during the evaluation of candidate P(Bid) systems. Evaluation soldiers will also be tested to confirm that they have all achieved a minimum level of proficiency in the entire test battery. Evaluation soldiers will also be briefed on sources of bias, instructed on ways and means to control these sources, and given direction on how to report a bias concern to the UAPE control staff.

4. Conduct of UAPE

4.1 Bidders will be informed as per Article 2.6.4 of Volume 1 as to the timings and location for the UAPE.

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4.2 Each P(Bid) system will be evaluated four times by four different sections of Evaluation Soldiers. The evaluation will be broken into four blocks of one week each, comprised of three stages (four sections x four weeks of three stages).

4.3 Each UAPE block will be progressive in nature, in the following manner:

- 4.3.1 Educate Evaluation soldiers by providing the time and the environment to Bidders to instruct, demonstrate and train;
- 4.3.2 Validate evaluation soldiers knowledge of P(Bid) systems with Bidder assisted static test stands; and
- 4.3.3 Exercise P(Bid) systems in a dynamic operational-like mission test stand.

5. Protocol Progression

5.1 A progressive evaluation protocol will be employed during each UAPE block, consisting of three stages. The UAPE Stages have been designed to progress evaluation soldiers through simple tasks, complex activities, to a full representative mission, using a “walk-before-you-run” philosophy. Progressive testing starts by evaluating discrete, empirical variables, which shapes soldier acceptance and performance. Select military activities and battle task drills follow.

5.2 There are three stages of preparation and progressive testing in each UAPE block.

5.2.1 **Stage 1 – Bidder Led Training Stand.** Bidder led training will take place at the UAPE Camp both in classrooms and outdoors. Bidders can find the training syllabus that they should teach to in Volume 1 Annex CB Appendix 2 Att 2 Encl 1 under the Bidder Led Training Stand. Bidders are free to enhance the syllabus but should note that they should prepare evaluation soldiers to successfully complete Stages 2 and 3. Bidders will provide concurrence on the evaluation soldiers’ set-up of the P(Bid) systems on the Modular Load Carriage System (MLCS) platform to ensure the performance of the system is not jeopardised based on placement. The acceptance of the placement of the P(Bid) systems on the MLCS platform and resulting performance is at the sole risk of the Bidder. More details on this Test Stand can be found in Volume 1, Annex CB, Appendix 2, Att 2, Encl 1:

5.2.2 **Stage 2 – Bidder Assisted Test Stands.** Under the supervision of the UAPE HFOs assigned to each evaluation soldiers section, Bidders are encouraged to participate in Stage 2, to validate and enrich the training provided in Stand 1 and to act as mentors to the evaluation soldiers with P(Bid) systems related problems as they are encountered. Bidders must not offer advice unless solicited by evaluation soldiers. Evaluation soldiers will be free to ask Bidders for assistance or advice directly or indirectly related to the effective employment of the P(Bid) system. Bidders’ input will not interfere with the timely completion of the test stands. If advice provided by Bidders interferes with the schedule they will be warned by the HFOs. A second incident will result in their removal from the remaining portion of Stage 2 as ordered by the UAPE Officer in Charge.

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5.2.3 The nature of Stage 2 will afford the evaluation soldiers the time and opportunity to explore the P(Bid) systems fully through performance-oriented operational tasks and activities during discrete test stands. This coupled with the Bidders mentorship during the execution of these discrete test stands will prepare the evaluation soldiers to operate on their own during Stage 3. Focussing questionnaires will be completed by evaluation soldiers on each of the areas indicated below which will be managed by the UAPE HFOs. Bidders will not be present for the administration of the questionnaires and will be asked to go to an administrative location.

5.2.4 Stage 2 introduces a battery of static tests that incorporate military or infantry functions or typical areas of difficulty. More details on Test Stands in their functional groups can be found in Volume 1, Annex CB, Appendix 2, Att 2, Encl 2:

5.2.4.1 System assembly - Evaluation soldiers will assemble / disassemble and attach / detach various system components. Evaluation soldiers will attach connectors and components, undertake system change-outs, a battery change and other LRU items as required by the P(Bid) system;

5.2.4.2 Text Messaging/Reports and Returns/Input Device - Evaluation soldier will transcribe written samples of a Contact Report, SITREP, Call for Fire, CASEVACREQ, EOD, LOCREP, Free Sketch, and Free Text content, while adopting prone and kneeling postures. All evaluation soldiers will perform a series of control activation and adjustment activities on the P(Bid) system. Evaluation soldiers will perform a series of radio interactions (on/off, adjust volume, join a different COI, depress PTT), visual display interactions (orient display for viewing, stow display, adjust brightness), key in text and pointing on the display. All activities will be performed in the kneeling and prone position;

5.2.4.3 Mission Planning – Evaluation soldiers will produce a series of specific plans using the tools included with the P(Bid) system. Evaluation soldiers will plan a navigation route and plan the location of an observation post;

5.2.4.4 Visual Display (day) – Evaluation soldiers will assess visual display usability on the P(Bid) system during indoor and outdoor activities. Evaluation soldiers will view maps and the GUI environment and will consider the display's resolution, brightness, uniformity, clarity, colour, and readability;

5.2.4.5 Weapons/Clothing/Equipment Compatibility - *Weapons Compatibility*: Evaluation soldiers will perform select weapons dry stand activities wearing the P(Bid) system. Evaluation soldiers will perform select weapons handling and target engagement activities in tactical postures. This is a non-firing activity. *Protective Equipment Compatibility*: Evaluation soldiers will perform select protective equipment dry stand activities wearing the P(Bid) system. Evaluation soldiers will perform select movement and operation activities in a range of postures wearing select items of personal protective equipment (i.e. body armour, helmet, NBC mask, ballistic eyewear).

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Handwear Compatibility: Evaluation soldiers will perform select handwear dry stand activities wearing the P(Bid) system. All Evaluation soldiers will perform select movement and operation activities in a range of postures wearing in-service gloves (i.e. temperate combat glove or light-weight thermal glove). *Other Equipment and Clothing Compatibility:* Evaluation soldiers will perform select dry stand activities for other compatibility items wearing the P(Bid) system. Evaluation soldiers will perform select movement and operation activities in a range of postures wearing select items of other equipment (i.e. PVS-14, Utility Hydration Cover with water bladder, ruck sack and small pack);

5.2.4.6 Target Designation / Hand-off PA/SA - Evaluation soldiers will identify and localize blue-force soldiers and select entities on the P(Bid) system during outdoor training and the outdoor missions. Evaluation soldiers will indicate the locations of team members and other entities by estimating range and bearing from their position. Evaluation soldiers will perform a target designation and hand-off task. Evaluation soldiers will designate the location of a visible entity in the training area on their BMS. They will then transfer the information of the designated entity to a P(Bid) system member in their team;

5.2.4.7 Navigation - Evaluation soldiers will perform a navigational task with a predefined route of multiple waypoints prepared in advance in both day and night conditions. Bidders are not invited to participate in this Test Stand;

5.2.4.8 Detectability - Run in an experiential workshop format. The intent of the workshop will be to allow the evaluation soldiers time to develop Tactics Technique and Procedures (TTPs) with a focus on the employment of the P(Bid) systems during night operations. Evaluation soldiers will have to consider the P(Bid) system's ability to be employed during low light operations and use the newly-developed TTPs to execute their respective night missions during Stage 3;

5.2.4.9 Vehicle /Auditory Display – Evaluation Soldiers will perform select movement and operation activities in a range of postures in a Light Armoured Vehicle (LAV) III (i.e. seated four at a time in the passenger compartment with all their kit, standing in the family hatch) and G-wagon. Evaluation soldiers will evaluate P(Bid) Systems communications capabilities in wooded and vehicle environments using the LAV III for their usability and audio display capability;

5.2.4.10 Configurability, Fit, and Adjustability - Evaluation soldiers will be required to attempt a proper fit with MLCS wearing the ISS-S. Evaluation soldiers will complete the configurability, fit, and adjustability test stand while wearing the MLCS and the associated P(Bid) System over top of the Gen III Fragmentation Vest with the Combat loads identified in the TPS. Evaluation soldiers will also evaluate the Combat Load Capacity with the MLCS while wearing the P(Bid) system; and

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5.2.4.11 Alerts / Alarms – Evaluation soldiers will be exposed to and required to recognize various visual and auditory alerts and alarms on the P(Bid) System. Evaluation soldiers will be exposed to a range of alerts and alarms to assess detectability, discrimination, and usability for managing the alert/alarm, and compatibility with other soldiering activities.

5.2.4.12 Graphic User Interface - Demand for interactive soldier products is high. Many different devices have accrued in the Infantry's arsenal so that the time available for learning and using each device is greatly reduced. Ten basic system navigation tasks will be performed on all candidate P(Bid) systems to evaluate GUI after bidders have been given time to introduce the P(Bid) System to evaluation soldiers. A focussing questionnaire will be completed by evaluation soldiers at the end of this stage facilitated by the UAPE Human Factors Observers (HFOs) assigned to each evaluation soldiers section.

5.2.5 Stage 3 – Dynamic Test Stand. Finally, the Dynamic Test Stand is a high fidelity simulation of a combat mission. The mission focuses on the offensive and defensive roles of the infantry to simulate the intended operational employment of the P(Bid) systems. At this point in the evaluation process evaluation soldiers should be prepared to employ the P(Bid) system without assistance from the Bidders based on the time they have spent learning and applying the functionality of the P(Bid) system during the previous stages. Bidders are not invited to participate in this stage.

5.2.6 To simulate operational-like conditions, evaluation soldiers will conduct force-on-force offensive and defensive operations during the day and night in all weather conditions. Soldiers will deploy for the duration of the Stage 3 without support from the Bidders (this includes all logistics as well as training). The evaluation soldiers' sections will be self-sufficient and will troubleshoot and adapt to issues that arise with the P(Bid) system. The Dynamic Test Stand has a significant duration and fatigue component factor that will add to the realism of the missions. More details on this Test Stand can be found in Volume 1, Annex CB, Appendix 2, Attachment 2, Enclosure 3.

5.2.7 To allow evaluation soldiers to better appreciate their performance from the perspective of the enemy, the missions will be filmed. Prior to completing the final scoring questionnaires, Evaluation Soldiers will review their performance on film. Stage 3's general outline is as follows:

- a. Receive orders;
- b. Mission preparation and rehearsals;
- c. Deploy and conduct mission;
- d. Return to field HQ
- e. Receive orders;

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- f. Mission preparation and rehearsals;
- g. Deploy and conduct mission;
- h. Return to UAPE Camp;
- i. Forced rest;
- j. Video debrief;
- k. Final scoring questionnaires completed.

6. Evaluation Criteria and Scale

6.1 The UAPS requirements will be scored by the evaluation soldier at the conclusion of the Dynamic Test stand using a seven point Likert scale for each question on the final scoring questionnaire found at Volume 1, Annex CB, Appendix 2, Att 2, Encl 3. When rendering their decision on each UAPS requirement, they will be considering it against the in-service equipment (the baseline) that was established during the soldier orientation to finally confirm the P(Bid)systems under evaluation for its acceptability and usability for operations.

7. General Schedule

7.1 An overview of a typical UAPE block top level schedule is presented at Table 1:

DAY 1

Time	Stage	Subject	OPI	Remarks
0800-0840	1	Introduction/Description of ISS/System Assembly	Bidder	
0850-0930				
0940-1020	1	Configurability, Fit and Adjustability	Bidder	
1030-1110	1	Input devices	Bidder	
1120-1200	1	Visual Display	Bidder	TS 5 is a questionnaire only
1200-1300	1	Lunch	Admin Staff	
1300-1340	1	Audio Display/COI Configuration	Bidder	
1350-1430	1	System GUI	Bidder	Detailed menu navigation
1440-1520				
1530-1700	2	TS and Focus Questionnaires (TS 1, TS 3, TS 5, TS 14,)	HFO	Bidders may assist TS completion but will not be present when focus questionnaires are filled out.
1700-1800		Dinner Break	Admin Staff	
1800-2000	2	TS and Focus Questionnaires (TS 1, TS 3, TS 5, TS 14) continued	HFO	Bidders may assist TS completion but will not be present when focus questionnaires are filled out.

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DAY 2

Time	Subject		OPI	Remarks
0800-0840	1	Text Messaging/Reporting	Bidder	
0850-0930	1	Alarms/Alerts	Bidder	
0940-1020	1	Positional and Situational Awareness	Bidder	Classroom instruction
1030-1200	1	BMS Navigation (day)	Bidder	Outdoor nav practice(TS night of Day 3)
1200-1300	Lunch			
1300-1340	1	BMS Navigation (day)		
1350-1430	1	Planning	Bidder	Simulated Route/OP/Mission Planning
1440-1520	1	Target Designation/Handoff	Bidder	
1530-1610	2	TS and Focus Questionnaires TS 2, TS 4, TS 10, TS 11, TS 17	HFO	Bidders may assist TS completion but will not be present when focus questionnaires are filled out.
1620-1700				
1700-1800	Supper			
2000-2050	2	Detectability TS 13	HFO/ Bidder as mentor	TS 13 TTP development questionnaire to be filled out. Bidders may assist in TS completion
2100-2359	1	BMS Navigation (night)	Bidder	Outdoor nav practice

DAY 3

Time	Subject		OPI	Remarks
0800-0840	2	TS and Focus Questionnaires TS 6, TS 7, TS 8, TS 9, TS 15, TS 16 , TS 18	HFO/ Bidder as mentor	Bidder's will not be present for TS 18 activities
0850-0930				
0940-1020				
1030-1110				
1120-1200				
1200-1300	Lunch		Admin Staff	
1300-1340	Final bidder maintenance period before Stage 3		Bidder	Forced rest for evaluation soldiers
1350-1430				
1440-1520				
1530-1610				
1620-1700	Bidder's turn in spare LRU's, charged batteries		PE CQ	
1700-1800	Supper		Admin Staff	

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1800-2000	2	***BMS Navigation TS 12 (Day)	HFO	Bidders not to take part
2100-2300	2	***BMS Navigation TS 12 (Night)	HFO	Final leg to bring soldiers to EX patrol base
2300-	3	Dynamic Test Stand	All Staff	24hr EX ending 2300 Day 4

DAY4

Time		Subject	OPI	Remarks
0001-2300	3	continued Dynamic Test Stand	All Staff	
2300		End Exercise / turn in kit	PE CQ	Forced rest for evaluation soldiers

DAY 5

Time		Subject	OPI	Remarks
0800-0900	3	Post Exercise drills	PE CQ	Bidders can draw their equipment as of 0900 after coordinating timings with the CQMS
0900-1200	3	Video debrief followed by exit questionnaires	HF OIC	

*** Bidders are not invited to participate in the 1800-2300 Navigation Test Stand on Day 3

Table 1: UAPE daily activities overview

8. Systems Preparation

8.1 Access to Storage Facility. Bidders will be able to access the P(Bid) systems storage facility two (2) hours prior to the start of Stage 1 in order to ensure their P(Bid) systems are functioning correctly and proceed with their set-up in the classrooms to expedite the commencement Stage 1.

8.2 Access to Classrooms. Bidders will have access to their respective classrooms the day prior to the commencement of each UAPE block to set-up training aids. They will also have full access to the classrooms during Stage 1 (UAPE Day 1 (0800 hrs – 1700 hrs); Day 2 (0800 hrs – 2359 hrs)). Bidders are responsible to provide all training material and supporting electronics including light projectors and computers. The classrooms will be equipped with standard 120V electrical receptacles.

8.3 Audit. Bidders will be required to confirm the condition and inventory of their P(Bid) systems prior to removal from the storage facility.

8.4 Daily Routine Maintenance. The Bidder will be responsible to make their P(Bid) systems available to the Performance Evaluation Quartermaster (PE CQ) one hour prior to commencement of each day's activities during Stages 1 and 2. P(Bid) systems must be turned into the PE CQ no later than

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1800 hrs day 3 for the commencement of Stage 3. Additional maintenance considerations can be found at Table 2 below:

Stage	Daily off-site/on-site maintenance (Bidders)	Trouble-shooting (Bidders)	Trouble-shooting (soldiers)	LRUs (Bidders)	Battery charging and/or daily supply(Bidders)	Battery charging (soldiers)
1	Yes	Yes	No	Yes	Yes	No
2	Yes	Yes	Bidders Choice	Yes	Yes	Yes
3	No	No	Yes	Yes – Must be provided to PE CQ on Day 3 of each UAPE block NLT 1800 hrs. PE CQ should be provided sufficient LRUs to allow the soldiers to complete their mission	Yes – Batteries must be provided at the start of Stage 3 only, as per LRU description	No

Table 2: UAPE Daily maintenance expectations

8.5 Communities of Interest (COIs). Bidders will ensure that P(Bid) systems are pre-configured with the following COIs for the Stages as detailed in Table 3 below:

Call Sign	Stages 1 and 2							Stage 3			
	COIs							COIs			
	Section Voice	Section Data	Section PA	Fire team A Voice	Fire team B Voice	Fire team C Voice	Fire team D Voice	Section Voice	Section Data	Section PA	Section Cmd Voice
11A	X	X	X					X	X	X	X
A01	X	X	X	X				X	X	X	
A02	X	X	X	X				X	X	X	
A03	X	X	X		X			X	X	X	
A04	X	X	X		X			X	X	X	
A05	X	X	X			X		X	X	X	
A06	X	X	X			X		X	X	X	

Call Sign	Stages 1 and 2							Stage 3			
	COIs							COIs			
	Section Voice	Section Data	Section PA	Fire team A Voice	Fire team B Voice	Fire team C Voice	Fire team D Voice	Section Voice	Section Data	Section PA	Section Cmd Voice
A07	X	X	X				X	X	X	X	
A08	X	X	X				X	X	X	X	
A11	X	X	X					X	X	X	X

Table 3: UAPE COIs

8.6 Call Signs.

11A – Section Commander
A01 – Rifleman
A02 – Rifleman
A03 – Rifleman
A04 – Rifleman
A05 - Rifleman
A06 - Rifleman
A07 - Rifleman
A08 – Rifleman
A11 – Section Second-in-Command

8.7 Maps. To simulate operational conditions and ensure all P(Bid) systems are assessed equally during the conduct of UAPE, all systems will be operated with the same mapping file. Bidders will ensure that P(Bid) systems are loaded with the following GeoTIFF Map for entire conduct of UAPE: DSSPM Data Files - Evaluation Area Maps: \[PE CFB name]\Images\[map name.tif]. This does not preclude Bidders from providing overlays as long as they can be generated on the SEP-suite or P(Bid) systems. All map information made available to the soldiers during UAPE must be generated using only the map data provided in the DSSPM Data Files – Evaluation Area Maps.

9. UAPE Compliance Matrices

9.1 There are two UAPE Compliance Matrices found at RFP Appendix 4 to Annex CC to Volume 1. Table 3 is the UAPE Mandatory Criteria Compliance Matrix and Table 4 is the UAPE Rated Criteria Compliance Matrix. Both matrices are copies of the UAPS Mandatory and Rated requirements found in RFP Appendix 2 to Annex CB to Volume 2.

9.2 The Compliance Matrices are filled in by Canada.

9.3 The Table 3 - UAPE Mandatory Criteria Compliance Matrix has the following columns:

Column 1: Provides sequential numbering;

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- Column 2: Provides a unique DOORS identifier code
- Column 3: UAPS Functional Groups as well as UAPS Requirements Statements
- Column 4: UAPS reference number from Appendix 2 to Annex CB of Volume 2;
- Column 5: UAPE Stages
- Column 6: Requirement category: (M) Mandatory
- Column 7: Specifies the minimum mandatory acceptance level that must be achieved in the final scoring questionnaire for each mandatory UAPS Requirement Statement
- Column 8: Final score achieved as reported in the Evaluation Soldiers' final scoring questionnaire

9.4 The Table 4 – UAPE Rated Criteria Compliance Matrix has the following columns:

- Column 1: Provides sequential numbering;
- Column 2: Provides a unique DOORS identifier code
- Column 3: UAPS Functional Groups as well as the UAPS Requirements Statements
- Column 4: UAPS reference number from Appendix 2 to Annex CB of Volume 2;
- Column 5: UAPE Stages
- Column 6: Requirement category: (R) Rated
- Column 7: Mean Score: this is the average of the assigned scores from the final scoring questionnaire;
- Column 8: Weighting Factor: this adjusts the Mean Score based on the relative importance of the requirement within the UAPS;
- Column 9: Max Score: This is the maximum possible score obtained by multiplying the Mean Score by the Weighting Factor.

ENCLOSURE 1 TO ATTACHMENT 2 TO APPENDIX 2 TO ANNEX CB TO VOLUME 1

UAPE Stage 1- Bidder Led Training Stand

Introduction

The purpose of the Training Stand is to ensure a consistent level of knowledge across the range of evaluation soldiers and enable them to effectively employ the proposed P(Bid) System.

The following description provides a general overview of training to be provided by the Bidder. Evaluation soldiers will receive training on system components/functions, system assembly, software navigation and menu structure, functionality and software steps required for system status, reporting, text entry / messaging, transferring information, auditory display, digital map use, Position Awareness / Situation Awareness (PA/SA), mission planning functions, plotting a route, and target designation. Bidders should come prepared with all training equipment, aids, hand-outs and audio visual equipment as needed to conduct their training session.

Objective

This test stand will:

- ⊕ Prepare evaluation soldiers to successfully complete all Test Stands as outlined in Stage 2 UAPE Test Stands and prepare the evaluation soldiers for Stage 3.

Syllabus

It is the sole responsibility of the Bidder to ensure evaluation soldiers are adequately trained to complete all Test Stands. Training will be conducted with a maximum student to teacher ratio of 5 students to 1 instructor. Participant competency should be assessed by Bidders, any soldier lacking sufficient competency should be given immediate remedial training in the area in question. The time for remedial training will not exceed the time allocated to bidders to conduct Stage 1. Evaluation Soldiers will perform selected Test Stands at the completion of each day of Bidder Led Training. Bidders are free to modify the training syllabus below but should ensure the subjects listed are taught on the day specified, so that evaluation soldiers are prepared for the afternoon Test Stands.

The proposed training syllabus can be found in the UAPE Preparation Instructions at para 7 of Attachment 2 to Appendix 2 to Annex CB to Volume 1 under Day 1 and Day 2

ENCLOSURE 2 TO ATTACHMENT 2 TO APPENDIX 2 TO ANNEX CB TO VOLUME 1

UAPE Stage 2 – Bidder Assisted Test Stands

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Test Stand #1 System Assembly

Conduct

This test stand is intended to be done with haste as it is a review of what has been taught by bidders during Stage 1. Evaluation soldiers will be made aware of the critical considerations in system assembly by completing the focussing questionnaire. The P(Bid) System will be assembled as directed below but will not involve the removal of pouches from the MLCS (unless required to complete one of the assembly actions).

Objectives

This test stand will:

- Evaluate the system assembly characteristics of candidate P(Bid) System using gloved and bare hands.

System Assembly Instruction and Demonstration

In order to gain a basic understanding and familiarity with the P(Bid) System, the evaluation soldiers will be given a demonstration tutorial during Stage 2 by Bidders regarding the assembly of the system and mounting on the MLCS.

Objective Testing

Following instruction and demonstration of proper system assembly, evaluation soldiers will be required to assemble the P(Bid) System. They will be informed that they will be timed as they assemble the system, and that the number of errors they make (for both assembling the system onto the MLCS and the cable / wire connections). This is intended to provide a stress factor to simulate the sense of urgency found under operational conditions.

The soldiers will perform this test with each P(Bid) System in the following conditions:

- Gloved hands (daylight environment)
- Bare hands (daylight environment)

HFOs will monitor the evaluation soldiers and instruct them when to begin system assembly by verbalizing the “Go” command. At that time, the HFO will initiate the stopwatch to time the assembly task. When the evaluation soldiers believes they are finished, they will say “Done”, and the HF observer will stop the time on the stopwatch. After the evaluation soldiers have completed the system assembly task, they will be asked to replace a battery in the system. This part replacement task will occur in each of the above-noted conditions (gloved hands, etc), and the task will be timed and measured for errors as well.

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Subjective Testing

Evaluation soldiers will be given 3 minutes to interact with the P(Bid) System to test out the connectors, cables and component parts. The evaluation soldiers will assess the system for potential cable snagging, cable quick release, speed and ease of assembly, speed and ease of replacing components and intuitiveness of the assembly process.

Measures

The following measures will be collected during the experiment to provide a stress factor to simulate the sense of urgency found under operational conditions and to ensure soldiers are provided feedback on their performance on the subject P(Bid) System through objective measures only.

Time to Assemble the P(Bid) System:

A stopwatch will be used to measure the time it takes for the evaluation soldier to assemble the cables and the attachment system. The time will begin on the HFO's command, and will end when the evaluation soldier indicates they are finished (by saying "Done"). The time will be recorded to the nearest second.

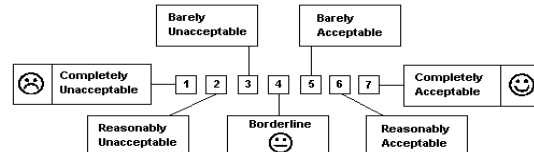
- **User's Focus Questionnaire:**

After the evaluation soldier has completed the 3 minute session of interaction with the P(Bid) System, they will be asked to complete the following focus questionnaire on various aspects of the assembly of each of the P(Bid) System.

SYSTEM ASSEMBLY

NAME						SUBJECT #						SERIAL #					
BIDDER (Circle ONLY One)																	
1	2	3	4	5	6												

Using the scale provided, indicate the acceptability for the different aspects of usability of the system GUI.



	Acceptability														
	BARE HAND							GLOVED HAND							
Usability of Cable Connections															
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
Ease of Connecting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Disconnecting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Speed of Connecting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Speed of Disconnecting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Intuitiveness of Connecting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Intuitiveness of Disconnecting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cable Quick-Release Function	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other Cable Features															
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
Durability/Ruggedness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Stability of Connection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Potential for Cable Snagging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Security of Cable Connection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Labelling of Cables (Colour, Shape, Coding, Alphanumeric, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability of Cables	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability of System Assembly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Test Stand #2 Text Messaging/Reporting

Conduct

This test stand is intended to evaluate the acceptability of Text Messaging and Reporting. This test stand will be run as a non-tactical stand.

Objective

This test stand will:

- Provide realistic tasks to enable evaluation soldiers to evaluate text entry functionality of the P(Bid) System.
- Provide realistic communication tasks to enable evaluation soldiers to evaluate the texting functionality of P(Bid) System (if provided).
- Collect data on messaging and texting sub-criteria to ensure evaluation soldiers thoughtfully consider important, underlying aspects of the P(Bid) System messaging and reporting system (if provided).

Text Entry

Evaluation soldiers will be required to enter text in each P(Bid) System. Tasks include:

- Log-on to system (alpha-numeric) if applicable
- Mark a target on the display by inputting a 10 figure grid and labelling the target
- Draw, label, route, and save route
- Rename route

Messages

If provided with this capability, evaluation soldiers will be required to prepare reports based on written samples of text and save them. Messages shall be based upon:

- EOD
- SITREP

Reports

If provided with this capability, evaluation soldiers will be required to develop operational reports using sample information. The reports shall be based upon:

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- Call for Fire
- Casualty Evacuation Request (CASEVACREQ)
- Contact Report

Data Collection

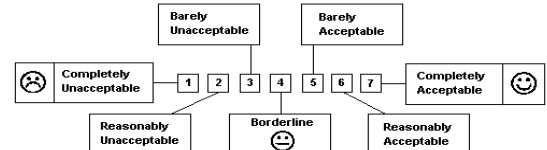
The following measures will be collected:

- Messaging Acceptability Rating:
Evaluation soldiers will be required to complete a text messaging questionnaire to assess the acceptability of the P(Bid) System text messaging capability.
- Reports/Returns Acceptability Rating:
Evaluation soldiers will complete the following reports/returns messaging focus questionnaire on the P(Bid) System reporting capability.

TEXT ENTRY

NAME						SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)									
1	2	3	4	5	6				

Using the scale provided, indicate the acceptability of the P(Bid) System for the text entry criteria noted below



Text Entry	Acceptability						
	1	2	3	4	5	6	7
Keyboard Layout	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Usability of Keyboard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Size of Keys	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Feedback Provided	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Speed of Text Entry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Text Entry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
System Response Speed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to correct errors	1	2	3	4	5	6	7
Ease of Correcting Errors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Editing Capabilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Accuracy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sensitivity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access Text Entry Screen	1	2	3	4	5	6	7
Speed of accessing Text entry screen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Accessing Text Entry Screen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Text Entry	Acceptability						
	1	2	3	4	5	6	7
Tactical Feasibility – Text Entry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Kneeling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Durability – Text Entry	1	2	3	4	5	6	7
Text Entry Device	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Screen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Viewing Messages – Text Entry	1	2	3	4	5	6	7
Screen Display Size	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Scroll	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Search Within Message Legibility (Font Size and Type)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall – Text Entry	1	2	3	4	5	6	7
Overall Acceptability of the P(Bid) System Text Entry Functionality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

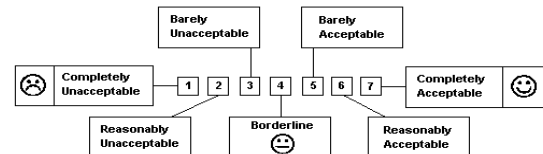
	Acceptability						
	1	2	3	4	5	6	7
Access Message Screen (If Provided)							
Speed of Accessing Text Messaging Screen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Accessing Text Messaging Screen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Managing Text Messages (If Provided)							
	1	2	3	4	5	6	7
Alerting of Incoming Message	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saving Messages	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Organising Messages	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Searching Messages	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deleting Messages	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Feedback for User Actions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tactical Feasibility – Text Messaging (If Provided)							
	1	2	3	4	5	6	7
Prone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Kneeling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Durability – Text Messaging (If Provided)							
	1	2	3	4	5	6	7
Text Messaging Device	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Screen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Acceptability						
	1	2	3	4	5	6	7
Viewing Text Messages (If Provided)							
Screen Display Size	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Scroll	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Search Within Message	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Legibility (Font Size and Type)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Creating Text Messages (If Provided)							
	1	2	3	4	5	6	7
Speed of Text Entry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Text Entry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
System Response Speed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Correct Errors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Correcting Errors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Editing Capabilities During Text Entry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Accuracy of Text Entry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sensitivity of Text Entry Device	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prioritize Message	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall							
	1	2	3	4	5	6	7
Overall Acceptability of the P(Bid) System Text Messaging Functionality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

REPORTS / RETURNS







NAME				SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)							
1	2	3	4	5	6		

Using the scale provided, indicate the acceptability of the P(Bid) System for the Reports / Returns criteria noted below.



	Acceptability						
	1	2	3	4	5	6	7
Access Reports / Returns (R/R) Screen (If Provided)							
Speed of Accessing Report Messaging Screen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Accessing Report Messaging Screen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Speed of Accessing Specific R/R	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Accessing Specific R/R	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Managing R/R							
Alerting of Incoming R/R	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acknowledge R/R Receipt	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saving R/R	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Organizing R/R	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Searching R/R	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deleting R/R	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Filters	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Feedback for User Actions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Viewing/Saving Attachments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

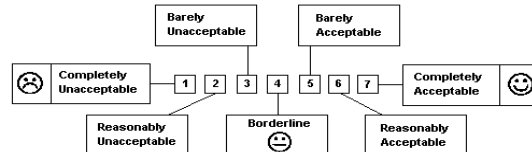
	Acceptability						
	1	2	3	4	5	6	7
Viewing Reports / Returns (R/R) (If Provided)							
Screen Display Size	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Scroll	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Search Within R/R	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Legibility (Font Size and Type)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tactical Feasibility (If Provided)							
Prone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Kneeling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Creating R/R (If Provided)							
Predefined Fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prompted Fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Marked Required and Optional Fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Explicit Tabbing to Data Fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Compatible with data Entry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Compatibility with Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Minimal Cursor Positioning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Acceptability						
Creating R/R Continued...							
	1	2	3	4	5	6	7
Auto Completion of Fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Correcting Errors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Editing Capabilities During Text Entry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prioritize Message	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Attaching Files	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Speed of R/R Generation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of R/R Generation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall							
	1	2	3	4	5	6	7
Overall Acceptability of the P(Bid) System R/R Functionality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

OVERALL MESSAGING

NAME				SUBJECT #			SERIAL #		
BIDDER (Circle ONLY One)									
1	2	3	4	5	6				

Using the scale provided, indicate the overall acceptability of the P(Bid) System for Text Entry / Messaging and Reports / Returns Functionality



	Acceptability						
Overall	1	2	3	4	5	6	7
Overall Acceptability of the P(Bid) System Messaging and R/R Functions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability of the P(Bid) System Text Entry Function	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

RFP - N° de la DP W8476-112965/A	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 1 Annex CB Appendix 2 Att 1 Encl 2

Test Stand #3 Input Devices

Conduct

This test stand will be run in a non-tactical environment. Evaluation soldiers will be asked to perform specific functions with the P(Bid) System. Evaluation soldiers should be familiar with the P(Bid) System's input capabilities due to Stage 1. Bidders will be required to fill in a "test stand tailoring" form during the Bidder's coordination meeting as per Article 2.6.4 of Volume 1, to ensure their specific controls are evaluated.

Objectives

This test stand will:

- Evaluate control activation and adjustment activities for candidate P(Bid) System in realistic environments.
- Evaluate the usability of control devices on candidate P(Bid) System in day light conditions using bare hands.
- Ensure soldiers understand/appreciate the full range of HF factors to be considered in the final evaluation of the "Input Device Usability" section of the user acceptance performance specifications.

Control Activation and Adjustment

The goal of this test stand is to evaluate Input Device Usability for the P(Bid) System. Specifically, the control activation and adjustment activities will consist of a series of radio interactions (on/off, adjust volume, adjust channel, depress PTT), visual display interactions (orient display for viewing, stow display, adjust brightness), key in text, pointing on the display. All tests will be performed in day light conditions using bare hands.

Protocol

Evaluation soldiers will be required to evaluate control activation and adjustment activities for candidate P(Bid) System such as those related to the radio, key pad/push buttons, pointing/input devices, visual display, and other hardware controls. These tasks are shown in the following figure and are detailed below.

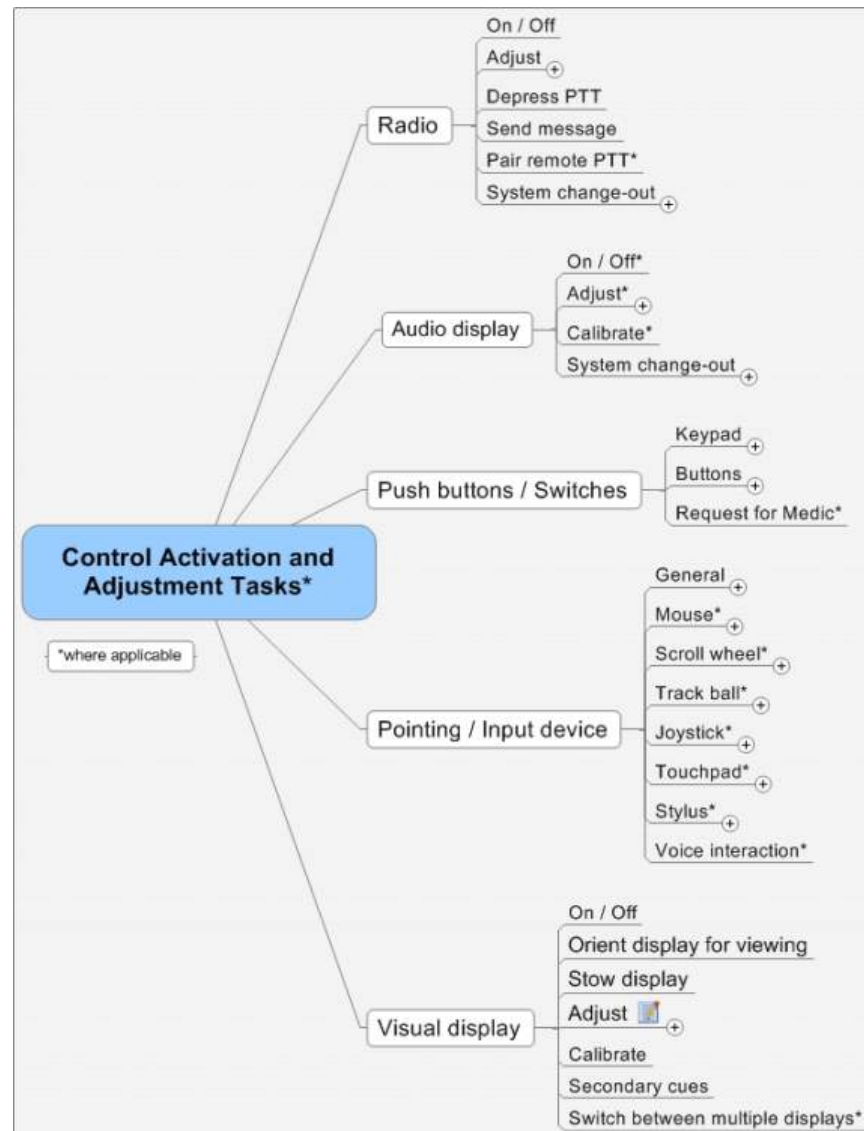


Figure 1: Control Activation and Adjustment Tasks

Radio

- On / Off
- Adjust
 - Volume
 - Channel
 - Antenna
 - On-screen display
- Depress PTT
- Send message
- Pair remote PTT
- System change-out
 - Antenna

RFP - N° de la DP W8476-112965/A	Amendement No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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- Remote PTT

Audio display

- On / Off
- Adjust
 - Volume
 - Audio display
- Calibrate
- System change-out
 - Audio display

Push buttons / Switches

- Keypad
 - Enter alphanumeric text (i.e. compose a predefined text message)
- Buttons
 - Press. Depress a button and hold it down
 - Release. Release a button that has been depressed
 - Click. Press and release a button without moving the pointing device

Pointing / Input device

- General
 - Calibrate device
 - On screen navigation
- Mouse
 - Buttons
 - Press. Depress a button and hold it down
 - Release. Release a button that has been depressed
 - Click. Press and release a button without moving the pointing device
 - Double click. Press and release a button twice in rapid succession without moving the pointing device.
 - Drag. Depress a button and move the device while holding the button down
 - Move. Move the pointing device without pressing any buttons. [Source: DON UISNCCS, 1992]
 - Left-right reversal.
- Scroll wheel
 - Up / down through menu items
 - Up / down through window
- Track ball
 - Move. Move the pointing device without pressing any buttons. [Source: DON UISNCCS, 1992]
- Joystick
 - Move. Move the pointing device without pressing any buttons. [Source: DON UISNCCS, 1992]
- Touchpad

RFP - N° de la DP W8476-112965/A	Amendement No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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- Click. Press and release a button without moving the pointing device
- Double click. Press and release a button twice in rapid succession without moving the pointing device.
- Move. Move the pointing device without pressing any buttons. [Source: DON UISNCCS, 1992]
- Stylus
 - Click. Press and release a button without moving the pointing device
 - Double click. Press and release a button twice in rapid succession without moving the pointing device.
 - Move. Move the pointing device without pressing any buttons. [Source: DON UISNCCS, 1992]
- Voice interaction

Visual display

- On / Off
- Orient display for viewing
- Stow display
- Adjust
 - Contrast
 - Colour
 - Luminance
 - Brightness
- Calibrate
- Secondary cues

Other hardware controls

- System change-outs
 - Display
 - Ancillary devices

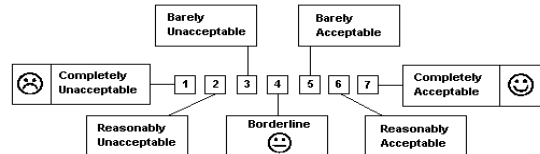
Measures

After the evaluation soldier has completed the testing of and interaction with the controls and input devices as noted in Section 1, they will complete the following focus questionnaire on various aspects of the control and input devices of each of the P(Bid) System.

INPUT DEVICES

NAME		SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)					
1	2	3	4	5	6

Using the scale provided, indicate the acceptability of the following features for the usability of controls



	Acceptability						
	BARE HAND						
Radio Usability	☹ 1	2	3	☺ 4	5	6	☺ 7
Switching On / Off	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adjusting Volume	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adjusting Channel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Depressing PTT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sending Message	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Audio Display Usability	☹ 1	2	3	☺ 4	5	6	☺ 7
Switching On / Off	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adjusting Volume	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Push Buttons / Switches Usability	☹ 1	2	3	☺ 4	5	6	☺ 7
Buttons	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Keypad	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Switches	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

		Acceptability						
		☹ 1	2	3	☺ 4	5	6	☺ 7
Pointing / Input Device Usability		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Calibrate Device	n/a <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
On-Screen Navigation		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Depressing Button		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Releasing Button		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Clicking (Single Click)	n/a <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Clicking (Double Click)	n/a <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drag	n/a <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Moving / Scrolling	n/a <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Left / Right Reversal	n/a <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Visual Display Usability	Acceptability						
	☹ 1	2	3	☺ 4	5	6	☺ 7
Switching On / Off	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Calibrate Display n/a <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Orient Display for Viewing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Stow Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adjust Colour	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Overall Control Usability		Acceptability						
		☹ 1	2	3	☺ 4	5	6	☺ 7
Radio		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Audio Display		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Push Buttons / Switches		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pointing / Input Devices		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Visual Display		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Suitability for Right Handed Users	n/a <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Suitability for Left Handed Users	n/a <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall		☹ 1	2	3	☺ 4	5	6	☺ 7
Overall Usability of System Controls		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Test Stand #4 Planning

Conduct

In a non tactical environment, evaluation soldiers will be instructed to prepare a navigation route and an observation post.

Objectives

This test stand will:

- Provide realistic planning tasks to allow evaluation soldiers to assess the P(Bid) System's Planning capability.
- Ensure soldiers understand/appreciate the full range of HF factors to be considered in the final evaluation of the "Battle Management System - Planning Acceptability" requirement of the user acceptance performance specifications.

Navigation Route Plan

Evaluation soldiers will be instructed to develop a route plan using their P(Bid) System display, to be able to navigate between two locations on the map. Locations will be provided to the evaluation soldier as 8-figure grid references. Evaluation soldiers will be required to determine the shortest route, with a minimum of three legs that provides the best tactical concealment.

Observation Post (OP) Plan

Evaluation soldiers will be instructed to plan the location of an OP to detect enemy along a possible line of advance, using their P(Bid) System display. Evaluation soldiers will be required to determine the most suitable OP location that provides the best field of surveillance and offers the least dead ground opportunities for enemy cover. We recognize that planning an OP is a rated requirement, yet the evaluation soldier may use the other capabilities provided on the P(Bid) System (i.e. hand drawings, digital map) to achieve this task.

Measures

The following measures will be collected during the experiment to provide a stress factor to simulate the sense of urgency found under operational conditions and to ensure soldiers are provided feedback on their performance on the subject P(Bid) System.

- Time to Plan:
 - The time required by the evaluation soldier to plan a navigation route will be measured.
 - The time required by the evaluation soldier to plan the location of an OP will be measured.
- Planning Acceptability Ratings:

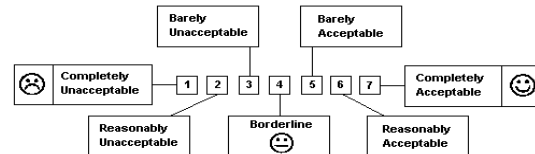
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Evaluation soldiers will complete the following focus questionnaire to assess the utility and usability of each P(Bid) System planning capability.

PLANNING

NAME						SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)									
1	2	3	4	5	6				

Using the scale provided, indicate the acceptability of the following features for planning tasks.



	Acceptability						
	1	2	3	4	5	6	7
Terrain Visualisation for Planning							
Readability of the Map Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Effectiveness of Visualising Vital Ground	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Effectiveness for Identifying Dead Ground	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Effectiveness for Identifying Terrain Obstacles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mental Workload							
Physical Demand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Temporal Demand (Time Pressure)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mental Demand (Perceiving / Thinking)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Effort	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Frustration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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	Acceptability						
Route Planning							
	1	2	3	4	5	6	7
Ease of Identifying Concealed Routes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Estimating Route Traverse Time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Identifying Good Waypoint Locations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Plotting Route Plan	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Modifying Route While Planning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Accuracy of Planning Function	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Changing Route Plan While Navigating	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Confidence in System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
OP Planning							
Ability to Determine Sight Lines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Estimating Likely Enemy Approaches	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability - Planning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Test Stand #5 Visual Display Usability (Daytime)

Conduct

This test stand is solely the administration of the questionnaire. Each soldier will have already operated the P(Bid) System during the day in outdoor conditions and will therefore be familiar with its display capabilities. Interaction with HFOs on this test stand will be to explain fields on the survey if evaluation soldiers are unfamiliar with terminology.

Objectives

This test stand will:

- Enable evaluation soldiers to understand in a tangible fashion which considerations form the basis for evaluation the P(Bid) System display from a usability perspective.
- Ensure evaluation soldiers understand/appreciate the full range of HF factors to be considered in the final evaluation of the “Visual Display” requirement of the user acceptance performance specifications for the user’s subjective response to the visual displays

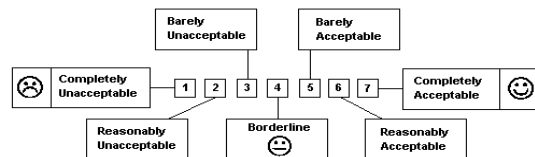
Measures

Completion of the User’s Focus Questionnaire;

VISUAL DISPLAY (DAY)

NAME				SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)							
1	2	3	4	5	6		

Using the scale provided, indicate the acceptability of the P(Bid) System for use in daylight conditions.



Other Display Properties	Acceptability						
	1	2	3	4	5	6	7
Ease of Aligning Display For Viewing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Time to Align Display for Viewing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Shield Screen from Sunlight While Reading	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Obstructions to Normal Field of View (e.g. Ground, Pouches) While Viewing Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hands-Free Operation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hand-Held Operation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Durability of Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bulk of Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Weight of Visual Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability of Visual Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Test Stand #6 Weapon Compatibility

Conduct

This test stand will run as part of an over all compatibility series of test stands in a round-robin format.

Objectives

This test stand will:

- ⊕ Provide a realistic weapon task to enable evaluation soldiers to evaluate candidate P(Bid) System for their weapon compatibility.
- ⊕ Collect “Personal and Platoon Weapon Compatibility Acceptability” ratings from evaluation soldiers to assess the HF user acceptance performance specifications for candidate P(Bid) System weapon compatibility.

Protocol

Each candidate P(Bid) System’s compatibility clash will be identified and evaluated indoors at static test stands. Evaluation soldiers will be encouraged to adjust and configure their P(Bid) System to the best of their ability to accommodate the test weapon prior to each test. All weapons compatibility will be evaluated while wearing the P(Bid) System and full fighting order.

The static compatibility test stands will comprise the following pieces of weapons:

1. C7A2 ,
2. C9A2,
3. C7A2 M203 ,
4. M72 SRAAW (L),
5. Grenade - Fragmentation,
6. CARL GUSTAV SRAAW (M), and
7. 9 mm Pistol.

Compatibility testing will evaluate a variety of firing postures and immediate action drills. Evaluation soldiers will be required to rate the compatibility of each P(Bid) System condition with each of the selected weapons at each test stand.

Measures

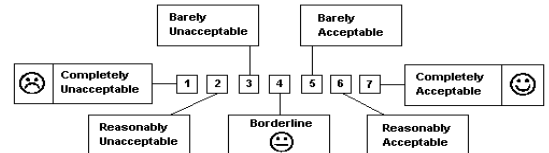
a. Weapon Compatibility Acceptability:

Evaluation soldiers will complete the following weapon compatibility focus questionnaire on the compatibility of the P(Bid) System design to weapon systems.

WEAPON COMPATIBILITY

NAME						SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)									
1	2	3	4	5	6				

Using the scale provided, indicate the acceptability for the P(Bid)
System for weapon compatibility.



Personal Weapon Compatibility	Acceptability						
	1	2	3	4	5	6	7
C7A2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C7A2 with M203	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C9A2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M72 SRAAW (L)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Grenade	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9mm Pistol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Personal Weapon Acceptability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Platoon Weapons Compatibility							
CARL GUSTAV SRAAW (M) Number 1 Position	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CARL GUSTAV SRAAW (M) Number 2 Position	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Platoon Weapon Acceptability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Test Stand #7 Protective Equipment Compatibility

Conduct

This test stand will run as part of an over all compatibility series of test stands in a round-robin format and may be run concurrent to other compatibility test stand.

Objectives

This test stand will:

- ⊕ Enable evaluation soldiers to evaluate candidate P(Bid) System with in-service Canadian Forces Combat Clothing.
- ⊕ Provide a standardized range of motion test to enable soldiers to evaluate the impact of P(Bid) System on ease of movement.
- ⊕ Ensure evaluation soldiers understand/appreciate the full range of HF factors to be considered in the final evaluation of the “Protective Equipment Compatibility” requirement of the user acceptance performance specifications.

Range of Motion Assessments

Although objective tests of Range of Motion (ROM) are not possible in this User Acceptance Performance Evaluation, ROM assessments will be performed by evaluation soldiers to subjectively assess the impact of each P(Bid) System on a soldier's ability to functionally move. Range of motion tests to include (TBC):

- Trunk forward flexion
 - Bend at waist, hold for approximately 2 seconds, as per Figure 2

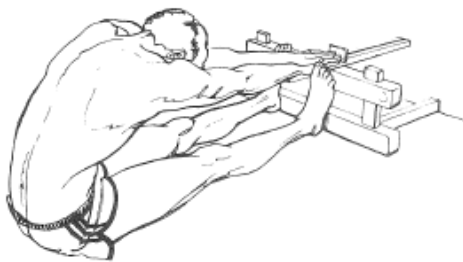


Figure 2: Trunk Forward Flexion

- Trunk lateral flexion
 - Bend the trunk to the side as far as possible, hold for 2 seconds, as per Figure 3.

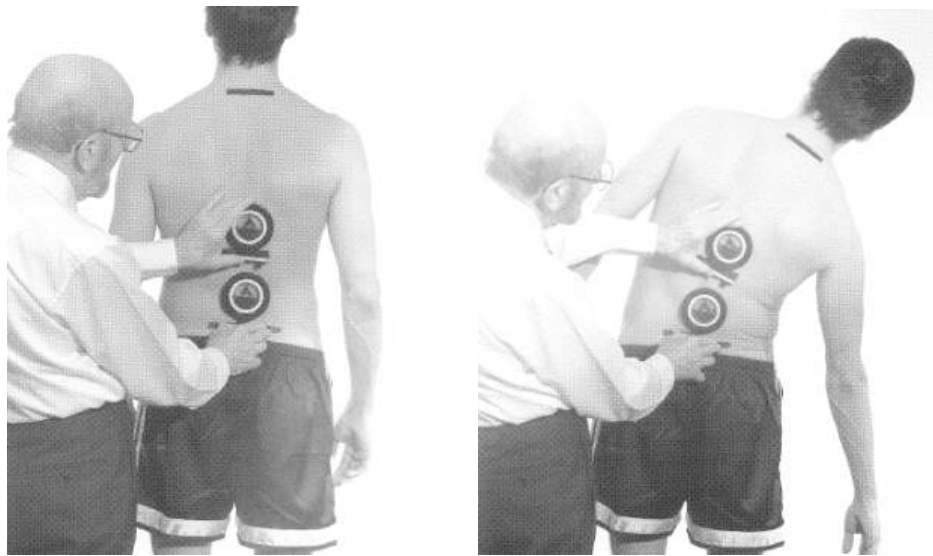


Figure 3: Trunk Lateral Flexion

- **Shoulder Adduction**

- With the shoulder slighted flexed in front of the body (approximately 30 degrees) the soldier should flex their elbow 90 degrees
- The soldier should adduct their arm in front of their body, as per Figure 4.

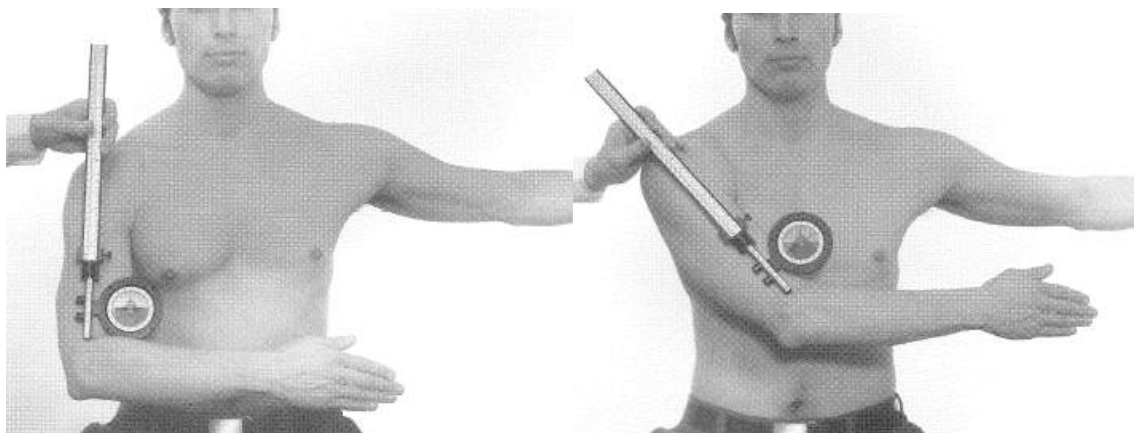


Figure 4: Shoulder Adduction

- **Trunk Rotation**

- The soldier should maximally rotate to the side as per Figure 5.

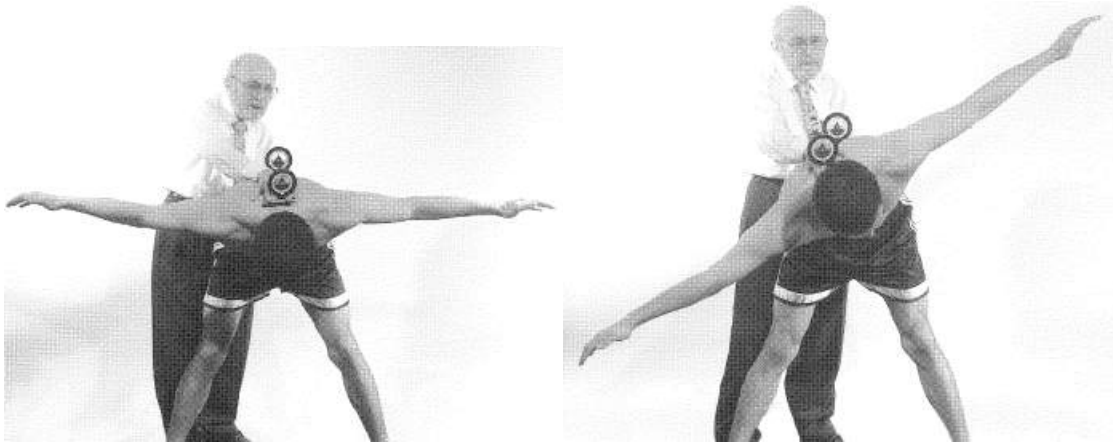


Figure 5: Trunk Rotation

- Apley's Scratch Test
 - One arm should reach behind the back over the shoulder while the other arm should be brought up from below the opposite shoulder
 - Repeat with the opposite shoulder

Protective Equipment Compatibility Procedures

The physical compatibility of the P(Bid) System will be assessed with in-service protective clothing systems. The protective systems may include but is not limited to:

- Fragmentation vest
- CG634
- Ballistic eyewear (BEW)
- CBRN C4 gas mask

MLCS with Brassards and Battle Order Equipment

- Each evaluation soldier will don and adjust their helmet, MLCS (fully loaded with the appropriate combat battle order specific to the individual's P(Bid) System configuration) and brassards over their combat clothing.
- Once fully donned and integrated, each evaluation soldier will move through the above noted series of range of motion tests.
- Evaluation should note any incompatibility issues such as visual/auditory obstructions, tangling or snagging of cabling, ease of use, bulk, etc.

Helmet

- Each evaluation soldier will don and adjust their helmet, tactical vest (fully loaded in accordance with the conceptual load and the specifics of the individual's P(Bid) System configuration) and brassards over their combat clothing.

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- Once fully donned and integrated, each evaluation soldier will:
 - Move their neck from side to side (e.g. put ear to shoulder, etc.)
 - Move their neck front to back (e.g. put chin to chest, etc.)
 - Rotate their neck as far to the left as possible, move back to centre, rotate their neck as far to the right as possible.
- Evaluation soldiers should note any instances of incompatibility such as visual/auditory obstructions, tangling or snagging of cabling, ease of use, bulk, etc.

Ballistic Eyewear (BEW)

- Each evaluation soldier will don and adjust their helmet and MLCS (fully loaded with the appropriate combat battle order specific to the individual's P(Bid) System configuration) over their combat clothing.
- Each evaluation soldier will don their ballistic eyewear,.
- For each eyewear item, each evaluation soldier will:
 - Move their neck from side to side (e.g. put ear to shoulder, etc.)
 - Move their neck front to back (e.g. put chin to chest, etc.)
 - Rotate their neck as far to the left as possible, move back to centre, rotate their neck as far to the right as possible.
- Evaluation soldiers should note any instances of incompatibility such as visual/auditory obstructions, tangling or snagging of cabling, ease of use, bulk, etc.

Audio Display

- Each evaluation soldier will don and adjust their helmet and MLCS (fully loaded with the appropriate combat battle order specific to the individual's P(Bid) System configuration) over their combat clothing.
- Each evaluation soldier will don their Audio Display and note any instances of incompatibility such as visual obstructions, auditory obstructions (above and beyond the functional use of hearing protection), tangling or snagging of cabling, ease of use, bulk, etc.

CBRN Gas Mask with carrier

- Each evaluation soldier will don and adjust their helmet and MLCS (fully loaded with the appropriate combat battle order specific to the individual's P(Bid) System configuration) over their combat clothing.
- Each evaluation soldier will perform the CBRN Masking drill. The time required to complete the masking drill will be recorded.
- Evaluation soldiers will utilize their candidate P(Bid) System while wearing the C4 respirator in a fashion deemed typical for their P(Bid) System configuration and note any instances of

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incompatibility such as visual/auditory obstructions, tangling or snagging of cabling, ease of use, bulk, etc.

Measures

The following measures will be collected during the experiment to provide a stress factor to simulate the sense of urgency found under operational conditions and to ensure soldiers are provided feedback on their performance on the subject P(Bid) System through objective measures only.

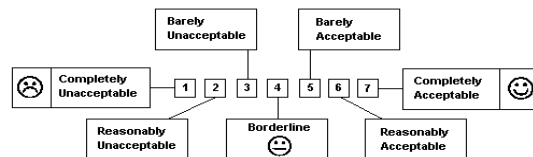
a. Compatibility Focus Questionnaire:

Evaluation soldiers will complete the following focus questionnaire on the compatibility of each P(Bid) System with various pieces of protective equipment.

PROTECTIVE EQUIPMENT

NAME				SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)							
1	2	3	4	5	6		

Using the scale provided, indicate the acceptability for the following equipment compatibility.



	Acceptability						
	1	2	3	4	5	6	7
Combat Clothing With Tactical Vest, Fragmentation Vest with Brassards, and Full Fighting Order							
Range of Motion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Ability to Use the Candidate P(Bid) System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Comfort (With the P(Bid) System)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Compatibility of the P(Bid) System with Full Fighting Order	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Helmet							
Range of Motion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Ability to Use the Candidate P(Bid) System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Comfort (With the P(Bid) System)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Compatibility of the P(Bid) System with Full Fighting Order	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
BEW Protective Eyewear							
Overall Ability to Use the Candidate P(Bid) System With Ballistic Eyewear (BEW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Comfort (With the P(Bid) System)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Compatibility of the P(Bid) System with BEW	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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	Acceptability						
CBRN Gas Mask With Carrier							
	1	2	3	4	5	6	7
Overall Ability to Use the Candidate P(Bid) System With C4 Respirator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Perform Masking Drill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Comfort (With the P(Bid) System)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Compatibility of the P(Bid) System System with the C4 Respirator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Test Stand #8 Handwear Compatibility

Conduct

This test stand will run as part of an over all compatibility series of test stands in a round-robin format and may be run concurrent to other compatibility test stand.

Objectives

This test stand will:

- ⊕ Enable soldiers to evaluate candidate P(Bid) System in the manipulation of its controls, peripherals, and insertion/removal from MLCS pouches.
- ⊕ Ensure soldiers understand/appreciate the full range of HF factors to be considered in the final evaluation of the “Handwear Compatibility” requirement of the user acceptance performance specifications.

Protocol

Each candidate P(Bid) System compatibility clash will be identified and evaluated indoors at static test stands. Evaluation soldiers will be encouraged to adjust and configure their P(Bid) System to the best of their ability to accommodate the handwear prior to the test. All test stands will be evaluated while wearing the candidate P(Bid) System. Evaluation soldiers as a minimum will evaluate the P(Bid) System with one type of issued hardware.

Compatibility testing will evaluate a variety of operational activities as well as the ability of the user to functionally utilize the candidate P(Bid) System. Operational activities will include (but may not be limited to) retrieval of the pointing / tabbing device, operation of the pointing / tabbing device, retrieval of the P(Bid) System from the user’s pocket or pouch, replacement of the P(Bid) System into the user’s pocket or pouch, performing a COI change, using a wired (mandatory) or wireless (rated) PTT switch, and text entry. Evaluation soldiers will be required to rate the compatibility of each P(Bid) System with each of the selected handwear items (if used).

Measures

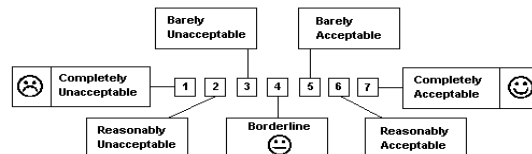
a. Equipment and Clothing Compatibility Focus Questionnaire:

Evaluation soldiers will complete the following equipment and clothing compatibility questionnaire on the compatibility of each P(Bid) System

HANDWEAR

NAME		SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)					
1	2	3	4	5	6

Using the scale provided, indicate the acceptability of the P(Bid) System while wearing the gloves as outlined below.



		Acceptability						
		1	2	3	4	5	6	7
Hand wear – Temperate Combat Gloves								
Assembling and Donning the P(Bid) System	n/a <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Retrieval of Pointing / Tabbing Device		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Operation of Pointing / Tabbing Device		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Retrieval of P(Bid) System from Pocket / Pouch		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Perform a Radio Frequency Change	n/a <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Text Entry		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Use Audio Display Wired PTT Switch		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Use Audio Display Wireless PTT Switch	n/a <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability With This Glove		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hand wear – Lightweight Thermal Gloves								
Assembling and Donning the P(Bid) System	n/a <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Retrieval of Pointing / Tabbing Device		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Operation of Pointing / Tabbing Device		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Retrieval of P(Bid) System from Pocket / Pouch		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Perform a Radio Frequency Change	n/a <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Text Entry		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Use Audio Display Wired PTT Switch		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Use Audio Display Wireless PTT Switch	n/a <input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability With This Glove		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall								
Overall Acceptability of Performing Above Tasks With Gloves in General		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Test Stand #9 Other Equipment and Clothing Compatibility

Conduct

This test stand will run as part of an overall compatibility series of test stands in a round-robin format and may be run concurrent to other compatibility test stand.

Objectives

This test stand will:

- ⊕ Provide a realistic equipment and clothing task to enable soldiers to evaluate candidate P(Bid) System for their equipment and clothing compatibility.

Protocol

Each P(Bid) System compatibility clash will be identified and evaluated in static test stands. Evaluation soldiers will be encouraged to adjust and configure their P(Bid) System to the best of their ability. All component of the test stand will be evaluated while wearing the P(Bid) System and full fighting order.

The static compatibility test stands will comprise the following pieces of equipment and clothing:

1. AN/PVS-14 (MNVG);
2. Utility Hydration Cover with water bladder;
3. CTS Small Pack, and
4. CTS Rucksack.

Compatibility testing will evaluate a variety of operational activities and remedial action drills. Evaluation soldiers will be required to rate the compatibility of each P(Bid) System condition with each of the selected equipment and clothing at each test stand.

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Measures

The following measures will be collected:

a. Equipment and Clothing Compatibility Focus Questionnaire:

Evaluation soldiers will complete the equipment and clothing compatibility focus questionnaire on the compatibility of each P(Bid) System design to a particular equipment or clothing system.

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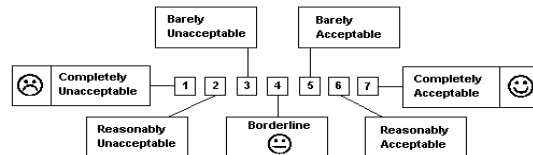
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COMPATIBILITY OTHER

NAME		SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)					
1	2	3	4	5	6

Using the scale provided, indicate the acceptability for the following equipment compatibility.



Equipment Compatibility	Acceptability						
	1	2	3	4	5	6	7
AN/PVS-14 (MNVG)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CTS Small Pack (With Load)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CTS Rucksack (With Load)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Utility Hydration Cover With Water Bladder	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Test Stand #10 Target Designation/Hand-off

Conduct

The test stand is meant to simulate the process of acquiring and handing off targets to other members within the section. Soldiers will evaluate the usability of the P(Bid) System and not their accuracy of assigning the location and or type of target.

Objectives

This test stand will:

- Provide realistic target environment to evaluate the P(Bid) System for their target designation capability (accuracy, speed, usability) to mission critical features.
- Evaluate candidate P(Bid) Systems for their capability to hand-off targets (accuracy, speed, usability).
- Ensure soldiers understand/appreciate the full range of HF factors to be considered in the final evaluation of the “Target Designation / Hand-off Acceptability” requirement of the user acceptance performance specifications for an P(Bid) System target designation capability.

Target Designation / Hand-off

The first goal of this assessment is to evaluate P(Bid) Systems for their speed, and usability, in designating selected targets and mission-critical features as well as transmitting that information to other team members (hand-off targets). Up to three different fixed locations, situated to have as different a terrain, topography, vegetation type and density as possible, will be used to ensure that the learning effects of previous locations will be minimized. An example is shown in Figure 6.

Each evaluation soldier will be required to estimate the location of selected target features in three specified zones and enter it into the BMS. Next, the evaluation soldier will be required to determine from their system a ten figure Military Grid Reference System (MGRS) of their location. Given the MGRS coordinates of their location, the evaluation soldier will be instructed to provide the following:

1. The bearing to the target feature in mils.
2. The distance to the target feature in meters with the applicable device.
3. Plot/verify the location of the target feature on the map (the evaluation soldier will verbally state the target location via an eight-figure MGRS).
4. The evaluation soldier will then be prompted to exchange this information across the battle space to a P(Bid) Systems - enabled team member in accordance with the COI.

Once the evaluation soldier is ready to commence the target designation / hand-off task, a “GO” command will be issued by the HFO and the tasks will be timed using a stopwatch until the

transmission of the target designation location is received by the HFO. After the evaluation soldier completes designating each target they will fill out a Questionnaire.

Human Factors (HF) tests will include performance measures as well as the subjective utility and usability measures of the candidate P(Bid) System.

Targets

Evaluation soldiers will be required to designate an array of targets for this test stand. The potential targets may be the following:

- Military vehicles (actual and/or surrogate)
 - G-Wagon
 - LAVIII
 - M-11 BTR front 1:2 target
 - M-2 BMP flank 1:2 target
 - M-6 BRDM flank 1:2 target
- Plastic E 'waffle' target
- IED simulator
- Radio, camera, and/or water towers

A sample of these targets is shown below.



Figure 6: Sample Target Array

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Measures

The following measures will be collected during the test stand to provide a stress factor to simulate the sense of urgency found under operational conditions and to ensure soldiers are provided feedback on their performance with the P(Bid) System.

a. Time to complete the target designation / hand-off task:

Using a stopwatch, the HFO will measure the time it takes the soldier to acquire and transmit the target designation information to a satellite system.

b. Time to determine target location, bearing, and distance:

Using a stopwatch, the HFO will measure the time it takes for the evaluation soldier to determine the target location, the target bearing, and the distance to the target, for each of the near, mid, and far targets.

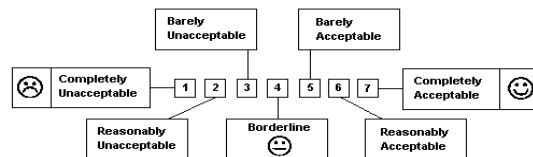
c. Focus Questionnaire:

After the evaluation soldier has completed the target designation for the near, mid, and far targets for each particular location, they will be required to fill out the following focus questionnaire on various aspects of the target designation portion of the P(Bid) Evaluation.







TARGET HAND OFF

NAME				SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)							
1	2	3	4	5	6		

Using the scale provided, indicate the acceptability of the following features for the various target designation hand-off tasks.



	Acceptability						
Own Position Determination	1	2	3	4	5	6	7
Ease of Locating Own Position on the Map	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Time to Determine Own Location	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Effectiveness of the Method of Positioning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Target Designation	1	2	3	4	5	6	7
Time to Determine the Bearing to Enemy/Friendly Entities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Accuracy of Determining the Bearing to Enemy/Friendly Entities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Time to Determine the Distance to Enemy/Friendly Entities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Accuracy of Determining the Distance to Enemy/Friendly Entities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Time to Plot Enemy/Friendly Entities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Accuracy of Plotting Enemy/Friendly Entities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Speed of Sending Enemy/Friendly Entity Location (GR and bearing)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Sending Enemy/Friendly Entity Location (GR and Bearing)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Effectiveness of Target Designation System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Effectiveness of Target Hand-Off System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Acceptability						
Usability							
	1	2	3	4	5	6	7
Ease of Learning the System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Operating the System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Usability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Evaluation of System							
	1	2	3	4	5	6	7
Accuracy of the System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Confidence in the Designation System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Confidence in Handing-Off Enemy/Friendly Entity Location	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tactical Feasibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mental Workload	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Effectiveness of Target Designation Capability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Effectiveness of Target Hand-Off Capability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Test Stand #11 Position and Situational Awareness

Conduct

The test stand is meant to simulate the process of finding a target and using the capabilities within of the P(Bid) System to coordinate and execute a manoeuvre.

Objectives

This test stand will:

- Provide field situations where P(Bid) System evaluation soldiers are separated by sufficient space and out of the line of sight to enable soldiers to evaluate candidate P(Bid) Systems for their Positional Awareness (PA) and Situation Awareness (SA) capabilities.
- Ensure evaluation soldiers understand/appreciate the full range of HF factors to be considered in the final evaluation of the “Battle Management System PA/SA Acceptability” requirement of the user acceptance performance specifications for an P(Bid) System capability.

Evaluation soldiers will be required to separate both physically and visually from the members of their Section. Then one of the following operational areas will be used to guide soldier separation in testing.

	Open Terrain	Close Terrain	Urban
Section	100 m ²	Up to 50 m ²	1 building

Table 1: Operational Environment Spacing

Evaluation soldiers will be required to move through the terrain until asked to provide key position information using their P(Bid)System.

Outdoor Classroom

Evaluation soldiers will be required, when cued, to determine their 8-figure grid reference location and the bearing and distance to their teammates. One evaluation soldier will then be selected as “enemy.” The “enemy” evaluation soldier will then be instructed to turn off his/her radio and not view his/her SA display, while endeavouring to escape and evade the other members of the team. The pursuers will track the “enemy” using their PA/SA display and coordinate their chase using the display and their radio communications. This exercise will be repeated at least twice so that all members can experience the “chase” role. By playing this game, evaluation soldiers will be required to use their PA/SA display to determine their own location and orient themselves to the ground, relate their display to the ground, spatially relate other members of the team to themselves, while simultaneously converging on a moving target, in a time-pressured situation. The intended result is the successful employment of the P(Bid) System to locate and coordinate a manoeuvre against the enemy.

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Measures

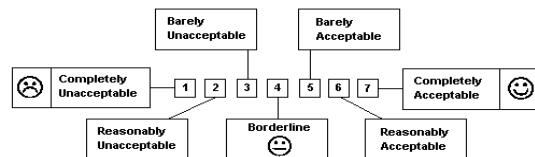
The following measures will be collected during the experiment to provide a stress factor to simulate the sense of urgency found under operational conditions.

- a. Own Position:
The location of the evaluation soldier will be tracked by an independent GPS and compared to the following results reported by the evaluation soldier:
- b. Zoom Functionality:
HF observers will note the number of entities distinguished within a square area of 50 x 50 metres.
- c. Position of Other Team Members:
HF observers will note the number of targets detected and engaged.
 - Distance: Evaluation soldiers will be required to determine the distance to each of the other three team members.
 - Bearing: Evaluation soldiers will be required to determine the bearing to each of the other three team members.
- d. Location of Engaged Unit:
HF observers will note the number of targets detected and engaged.
 - Distance: Evaluation soldiers will be required to determine the distance to the engaged Unit.
 - Bearing: Evaluation soldiers will be required to determine the bearing to the engaged Unit.
- e. Focus Questionnaire:
Evaluation soldiers will complete the following PA/SA focus questionnaire on the utility and usability of each P(Bid) System.

PA / SA

NAME				SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)							
1	2	3	4	5	6		

Using the scale provided, indicate the acceptability of the following features for the PA/SA Awareness tasks.



	Acceptability						
	1	2	3	4	5	6	7
Information Transfer							
Time Needed to Pass Text Information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Passing Text Information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Receiving Text Information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Distributing Information to the Whole Group	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Accuracy of Information Passed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Within Section							
Ease of Navigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coordination of Movement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coordination of Fire	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coordination of Action	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Issuing/Receiving Orders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Designating Targets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sharing Information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Situation Awareness							
Awareness of YOUR Location	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Awareness of Location of the OTHER Team Members	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Awareness of Enemy Location	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Awareness of Enemy Status	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Awareness of Team Tactical Situation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Zooming Function	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Confidence in System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Mission Effectiveness	Acceptability						
							
	1	2	3	4	5	6	7
Section Teamwork	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Achieve High Mission Tempo	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Make Mission Timings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Maintain Stealth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Adapt to Unexpected Changes in Mission	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Mission Effectiveness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability – PA/SA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Test Stand #12 BMS Navigation

Conduct

The test stand will be conducted during both the day and night. Bidders are welcome to attend the day Battle Management System (BMS) navigation only. Evaluation soldiers will evaluate the system in both open and closed terrain. Soldiers will be broken down in to fire team partners to conduct the navigation.

Objectives

This test stand will:

- ⊕ Provide a realistic navigation wayfinding task to enable soldiers to evaluate candidate P(Bid) System systems for their navigation capability.
- ⊕ Ensure soldiers understand/appreciate the full range of HF factors to be considered in the final evaluation of the “Navigation Wayfinding Acceptability” requirement of the user acceptance performance specifications for the candidate P(Bid) System navigation capability.

Navigation Routes

Route plans will be used to ensure that the learning effects of previous missions will be minimized for each evaluation soldier (i.e. every evaluation soldier during the conduct of the UAPE will evaluate four different bid systems. The multiple cross country routes ensure that the learning effect is minimized by guaranteeing that soldiers always use different open country routes). Each route will be configured to have as similar terrain, vegetation and topography as possible. Soldiers will be instructed to follow the route trace provided on their P(Bid) System display as closely as possible. Evaluation soldiers will be instructed to enable/turn on the breadcrumb feature of their P(Bid) System to help record their accuracy in following the pre-planned routes. To assess the adaptability of each P(Bid) System navigation capability, route legs may be planned in such a way as to require the evaluation soldiers to confront and navigate around unexpected natural or simulated obstacles (e.g. swamps, ponds, etc.). This will require the soldier to depart from his/her route to avoid the obstacle and then use their navigation system to wayfind off their route to the next waypoint.

Measures

The following measures will be collected during the experiment to provide a stress factor to simulate the sense of urgency found under operational conditions:

- a. Navigation Performance:
The route adopted by the soldier will be tracked by GPS and compared to the route plan to determine:

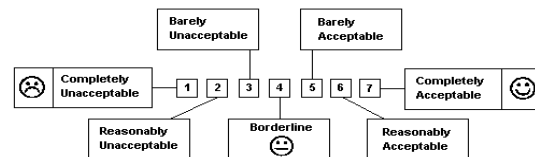
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- Obstacle detour: For each obstacle, evaluation soldiers will be required to navigate around the obstacle in the most efficient manner. Actual track deviation from the most efficient route will be determined (rms deviation) and the total time to traverse the obstacle.
 - Total distance traveled: Total distance traveled for each leg and totalled for each route will be determined and compared to the shortest possible distance (including obstacles).
 - Accuracy of waypoint estimation: Evaluation soldiers will be required to determine the location of each waypoint prior to initiating their next leg. The distance from the actual waypoint location and the evaluation soldier's estimated waypoint location will be determined. The collective estimated waypoints will be configured to determine the off-set error at the destination.
- b. Navigation Focus Questionnaire:
Evaluation soldiers will complete the following navigation focus questionnaire on the utility and usability of each P(Bid) System navigation capability.

BMS NAVIGATION

NAME						SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)									
1	2	3	4	5	6				

Using the scale provided, indicate the acceptability of the following features for the Navigation and Way finding tasks.



	Acceptability						
	1	2	3	4	5	6	7
Terrain Visualisation for Planning							
Readability of the Map Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Visualize Distances	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Using Map Functions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mental Effort Required	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mental Workload							
Physical Demand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Temporal Demand (Time Pressure)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mental Demand (Perceiving / Thinking)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Effort	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Frustration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Navigating Route	Acceptability						
							
	1	2	3	4	5	6	7
Awareness of Own Location	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Way finding Route	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Relating Map Display to Ground	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Estimating Distance with system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Navigating Around Unforeseen Hazard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Locating Waypoints and Features	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Speed of Traverse With System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Accuracy of System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Time Required to Use System While Navigating	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Confidence in System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability for Navigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Test Stand #13 Detectability

Conduct

Run as an experiential workshop, soldiers will be given the time in a non-tactical environment to develop and test TTPs that reduce light emission of the P(Bid) System. At the conclusion of the workshop, soldiers will complete the focus questionnaire.

Objectives

This test stand will:

- ⊕ Provide evaluation soldiers with an opportunity to develop Tactic Techniques and Procedures (TTPs) to employ the P(Bid) System while considering their detectability.
- ⊕ Ensure soldiers understand/appreciate the full range of HF factors to be considered in the final evaluation of the “Detectability” requirement of the user acceptance performance specifications.
- ⊕ Provide realistic environments to evaluate candidate P(Bid) System for visual detectability (light leakage – the Evaluation Section will be divided in two and separated by approx 100 m, evaluation soldier will simulate the employment of the P(Bid) System with developed TTPs and the light emitted will be considered for the completion of the questionnaire..

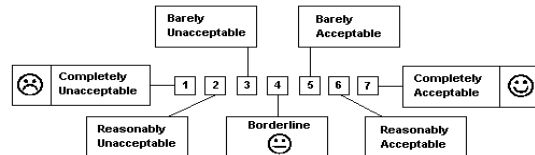
Measures

Upon completion of the light leakage test the evaluation soldiers will complete a task questionnaire.

DETECTIBILITY

NAME				SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)							
1	2	3	4	5	6		

Using the scale provided, indicate the acceptability of the P(Bid) System for detectability.



	Acceptability						
	1	2	3	4	5	6	7
Light Leakage Assessment – Unaided Eye							
Ease of Detecting Operator using P(Bid) System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Range of Detecting Operator Using P(Bid) System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Detecting Operator Carrying P(Bid) System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Detectability of the P(Bid) System With an Unaided Eye	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Light Leakage Assessment - NVGs							
Ease of Detecting Operator using P(Bid) System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Range of Detecting Operator Using P(Bid) System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Detecting Operator Carrying P(Bid) System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Detectability of the P(Bid) System With NVGs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability of the P(Bid) System for Visual Detectability during the Day	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Test Stand #14 Auditory Display

Conduct

This test stand may be broken in to several short sub-stands (wooded terrain, OBUA and LAV III) to allow it to be effectively synchronized with other test stands.

Objectives

This test stand will:

- Provide realistic low-noise and high-noise environments to evaluate candidate P(Bid) System communication systems for their audio display capability.
- Evaluate candidate P(Bid) System communication systems in wooded, Operations in Built Up Areas (OBUA) and vehicle environments for their audio display capability.
- Ensure soldiers understand/appreciate the full range of HF factors to be considered in “Auditory Display Acceptability.”

Evaluation soldiers will be paired and divided into two groups – speakers and listeners. Reports and Returns Scripts will be pre-formatted and will be provided in sufficient numbers to ensure scripts aren’t memorized, eliminating learning a potential source of bias.

Wooded Terrain

Evaluation soldiers separation at a distance of 50 m non-line of sight with their respective partners. Once in position, the speakers will be required to recite and transmit over the radio a scripted Report / Return (CASEVACREQ / SITREP) to the listener, and the listener will be required to record the Report / Return on paper. Once completed, the evaluation soldiers will switch roles and a different Report / Return will be transmitted.

LAV III

As per the Wooded Terrain test, evaluation soldiers will conduct the same exercise in a high continuous noise environment. The soldier (speaker) will stand in the family hatch on the right side of the LAV III while the engine is idled on 'high', and will be required to recite and transmit over the radio a scripted Report / Return (EOD Incident Report) to the listener, and the listener will be required to record the Report / Return on paper. The listener will be located outside to the right of the LAV III but within the range of the LAV III engine noise (1 m perpendicular distance from the second front tire on the right side of the LAV III). Once completed, the evaluation soldiers will switch roles and a different Report / Return will be transmitted.



Figure 7: Audio Display Speech Intelligibility Evaluation - LAV III

OBUA

Evaluation soldiers will establish a minimum non-line of sight separation distance with their respective partners (exact distance and conditions TBD). Once in position, the speakers will be required to recite and transmit over the radio a scripted Report / Return (CONTACTREP / CALL FOR FIRE) to the listener, and the listener will be required to record the Report / Return on paper. Once completed, the evaluation soldiers will switch roles and a different Report / Return will be transmitted. Following this evaluation, evaluation soldiers will be required to complete a questionnaire and will return back to home base.

Measures

The following measures will be collected during the experiment to provide a stress factor to simulate the sense of urgency found under operational conditions and to ensure soldiers are provided feedback on their performance on the subject P(Bid) System through objective measures only.

a. Time:

The time to recite the Report / Return and subsequent transcription of the Report / Return on paper by their respective partner will be recorded.

b. Performance:

The transcribed Report / Return will be compared to the scripted Report / Return for each of the three environments for each evaluation soldier.

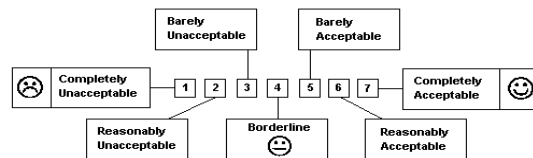
c. User's Focus Questionnaire:

After the evaluation soldier has completed all three environments, they will complete the following focus questionnaire on various aspects of the audio display of each P(Bid) System.










AUDIO

NAME				SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)							
1	2	3	4	5	6		
Please indicate if earplugs were worn during the task				Yes <input type="radio"/> No <input type="radio"/>			

Using the scale provided, indicate the acceptability of the following features for the audio display equipment.



	Acceptability						
	1	2	3	4	5	6	7
Physical Design							
Fit of Radio Headset	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Comfort of Radio Headset	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Physical Effects							
Physical Comfort During the Task	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Skin Irritation of Radio Headset	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Point Pressure from Radio Headset (i.e. Bruising)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Headaches	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nausea	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Noise Comfort (Hearing Protection) During Task	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Usability							
Ease of Donning Headset	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Security / Stability of Ear Pieces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Usability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ruggedness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Acceptability						
Radio Communication – Voice Comms							
	1	2	3	4	5	6	7
Voice Comms in Wooded Environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Voice Comms in LAV Environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Voice Comms in OBUA Environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Voice Comms (Clarity of Speech)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Voice Comms (Sound Delay)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sound Volume	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
White Noise	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Natural Hearing Restoration							
	1	2	3	4	5	6	7
Sound Localisation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sound Discrimination	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Radio Headset							
	1	2	3	4	5	6	7
Physical Design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Physical Effects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Usability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Voice Comms Function	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Natural Hearing Restoration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability for Audio	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Test Stand #15 Vehicle Compatibility

Conduct

This test stand may be broken in to several short sub-stands (LAV III and G Wagon) to allow it to be effectively synchronized with other test stands.

Objectives

This test stand will:

- ⊕ Provide realistic static vehicle tasks to enable soldiers to evaluate P(Bid) Systems for their compatibility with the G-wagon and LAV family of vehicles.
- ⊕ Ensure soldiers understand/appreciate the full range of HF factors to be considered in the final evaluation of the “Vehicle Acceptability” requirement of the user acceptance performance specifications for P(Bid) System vehicle compatibility.

Combat Load

Evaluation soldiers will complete the vehicle compatibility test stand wearing the P(Bid) Systems over top of the Gen III fragmentation vest with the Combat loads identified below in the example loads for Commander and Rifleman as specified in RFP Volume 2 Annex CB Appendix 9.

Ballistic protective plates will be worn during the vehicle compatibility test stand. The exact number of magazines, etc. to be carried will be confirmed before the start of the demonstration.

Vehicle Tasks

Evaluation soldiers will be required to perform all of the following tasks for each of the positions with each of the P(Bid) Systems. Data collection will include questionnaires and performance measures.

G-wagon

The following is a list of tasks to be performed by the evaluation soldiers when evaluating the candidate P(Bid) System within the vehicle:

- Ingress/egress from drivers seat,
- Scanning route
- Assessing all driver controls,
- Emergency egress
- Scanning/ covering arcs
- Changing magazines
- Providing first aid and self aid

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Air Sentry – LAV III

The following is a list of tasks to be performed by the evaluation soldiers when evaluating the candidate P(Bid) Systems within the air sentry crew position.

- Scanning/ covering arcs
- Normal access/ egress (through family hatch, LAV ramp, LAV ramp hatch)
- Emergency access/ egress
- Engage targets at the side
- Engage targets at the back
- Engage targets at the front
- Open and close family hatch on LAV III
- Changing magazines

Measures:

The following measures will be collected during the experiment to provide a stress factor to simulate the sense of urgency found under operational conditions and to ensure soldiers are provided feedback on their performance on the subject P(Bid) Systems through objective measures only.

a. Ingress and Egress:

The time for each soldier to ingress and egress from each of the crew positions will be timed to add a sense of urgency

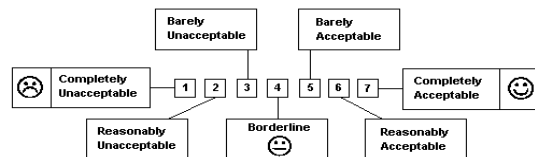
b. Vehicle Compatibility Questionnaire:

Evaluation soldiers will be required to complete a vehicle compatibility focus questionnaire on the utility and usability of each P(Bid) Systems only after both the LAV III and G-Wagon stands have been complete

VEHICLE COMPATIBILITY

NAME				SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)							
1	2	3	4	5	6		

Using the scale provided, indicate the acceptability of the compatibility of the P(Bid) System with the following tasks for each crew position as noted.



	Acceptability						
G-Wagon							
	1	2	3	4	5	6	7
Ingress / Egress	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scanning Route	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Assessing All Vehicle Controls	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scanning / Covering Arcs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Changing Magazines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability for G-Wagon	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Acceptability						
LAV III – Air Sentry							
	1	2	3	4	5	6	7
Scanning / Covering Arcs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Normal Access / Egress – Ramp/Hatch	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engage Targets at the Side	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engage Targets at the Back	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engage Targets at the Front	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Open and Close the Family Hatch on the LAV III	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Changing Magazines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability for Air Sentry Tasks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability Rating for Vehicle Compatibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Test Stand #16 Configurability, Fit, and Adjustability

Conduct

Each evaluation soldier will be required to don all of the listed MLCS configurations as noted below. Evaluation soldiers will exchange their MLCS with those of their section mates to be able to attempt the test stand below in all configurations. Evaluation soldiers will also be able to adjust the location of pouches for their personal comfort and or utility.

Objectives

This test stand will:

- ⊕ Assess the configurability of the P(Bid) Systems on the MLCS to meet the load carriage demands of a Commander, C9 Gunner, Grenadier, and Rifleman.
- ⊕ Assess the fit and adjustability of the P(Bid) Systems mounted to the MLCS to accommodate a wide range of soldier sizes.
- ⊕ Ensure soldiers understand/appreciate the full range of HF factors to be considered in the final evaluation of the configurability/modularity, fit and adjustability, combat load accessibility, and combat load capacity requirement of the user acceptance performance specifications.

Combat Load

Evaluation soldiers will complete the configurability, fit, and adjustability test stand while wearing the MLCS and the associated P(Bid) Systems over top of the Gen III fragmentation vest with the Combat loads identified as follows for Commander, Rifleman, Light Machine or C9 Gunner, and Grenadier:

Configurability

All evaluation soldiers will be required to configure their MLCS to their individual preference, using their appropriate fighting order and the P(Bid) System components. Within each test block evaluation soldiers will complete a configurability test stand where the evaluation soldiers will be required to re-configure their MLCS to the roles of a C9 Gunner and a M203 Grenadier. Evaluation soldiers will provide a configurability rating on the acceptability of the P(Bid) Systems to configure to other roles.

Fit and Adjustability

All evaluation soldiers will be required to properly adjust the P(Bid) Systems and MLCS to achieve the most desirable fit.

Measures

The following measures will be collected during the experiment.

- a. Focus Questionnaire:

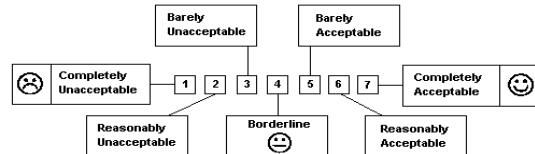
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Evaluation soldiers will complete the following focus questionnaire on achieving a proper fit and adjustability with the P(Bid) Systems. This will also consider combat load accessibility, configurability and capacity, and P(Bid) Systems configurability/modularity covering each of the following roles; Commander, Rifleman, Grenadier, and C9 Gunner.

MODULARITY AND FIT

NAME		SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)					
1	2	3	4	5	6

Using the scale provided, indicate the acceptability for the P(Bid) System for modularity, configurability, fit and adjustability.



Modularity & Configurability of P(Bid) System	Acceptability						
	1	2	3	4	5	6	7
By Mission	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
By Role (Commander)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
By Role (Grenadier)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
By Role (C9 Gunner)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
By Role (Rifleman)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
By Load	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
By Preference / Handedness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall P(Bid) System Combat Load Modularity & Configurability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Combat Load Accessibility With P(Bid) System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Standing (Commander)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Standing (Grenadier)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Standing (C9 Gunner)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Standing (Rifleman)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Kneeling (Commander)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Kneeling (Grenadier)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Kneeling (C9 Gunner)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Kneeling (Rifleman)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prone(Commander)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prone(Grenadier)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prone(C9 Gunner)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prone(Rifleman)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Combat Load Accessibility with P(Bid) System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Combat Load Capacity with P(Bid) System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Fit & Adjustability of P(Bid) System	Acceptability						
							
	1	2	3	4	5	6	7
Fit with MLCS (Full Combat Load) and Combat Uniform Only	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fit with MLCS (Full Combat Load) and Gen III Fragmentation Vest	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
P(Bid) System Range of Adjustment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
P(Bid) System Ease of Adjustment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall P(Bid) System Fit & Adjustability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Test Stand #17 Alarms/Alerts

Conduct

This test stand is solely the administration of the questionnaire. Each soldier will have already operated the P(Bid) System as well as having been trained by the Bidder on Alarms and Alerts. HFOs will interact with evaluation soldiers on this test stand to explain unfamiliar terminology on the survey (if required).

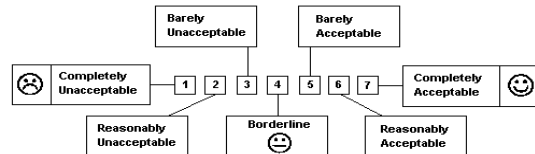
Alerts/Alarms Detection and Recognition

Evaluation soldiers will complete the following focus Alerts/Alarms questionnaire on the utility and usability of each P(Bid) System planning capability.

ALERTS AND ALARMS

NAME						SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)									
1	2	3	4	5	6				

Using the scale provided, indicate the acceptability of the following features for alerts and alarms.



	Acceptability								Acceptability							
	VISUAL								AUDITORY							
Ease of Detection	1	2	3	4	5	6	7	n/a	1	2	3	4	5	6	7	n/a
Low Battery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Loss of GPS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Loss of P(Bid) System Connection (Internal)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Frequency of GPS Updates for Other Members in Assault Group	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Emergency Alert Received	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Normal Message Received	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Proximity Warning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Recognition	1	2	3	4	5	6	7	n/a	1	2	3	4	5	6	7	n/a
Low Battery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Loss of GPS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Loss of P(Bid) System Connection (Internal)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Frequency of GPS Updates for Other Members in Assault Group	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Emergency Alert Received	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Normal Message Received	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Proximity Warning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Alert/Alarm Features		1	2	3		4	5	6		n/a		1	2	3		4	5	6		n/a
Ability to Maintain Stealth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Switch to Visual or Audio	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Prioritize Alarms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Acknowledge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to Turn Off or On in Settings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Effectiveness for Night Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Acceptability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

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Test Stand #18 System GUI

Introduction

Many different devices have accrued in the Infantry's arsenal so that the time available for learning and using each device is greatly reduced. Ten basic system tasks will be performed on all candidate P(Bid) systems to evaluate the usability of the system Graphic User Interface(GUI) by the evaluation soldier. The root intent of this Test Stand is to determine the usability of the GUI.

Objectives

This test stand will:

- ⊕ Provide a series of GUI tasks to enable the evaluation soldiers to evaluate candidate P(Bid) systems for their ease and efficiency of system navigation.
- ⊕ Ensure evaluation soldiers understand/appreciate the full range of HF factors to be considered in the final evaluation of the "System GUI Acceptability" requirement of the user acceptance performance specifications for P(Bid) system GUI operation.
- ⊕ Collect objective system GUI metrics to ensure participants thoughtfully consider important, underlying aspects of system GUI operations.

System GUI Navigation Tasks

Ten basic system tasks will be performed on all P(Bid) system contenders to evaluate the usability of the system GUI for the novice soldier. Starting from the home screen, participants will attempt to perform each of the tasks. The Human Factors Observer (HFO) will read the task, start the timer, and provide no assistance or guidance to the evaluation soldier. Following completion of each task, evaluation soldiers will navigate back to the home screen. Evaluation soldiers will have a maximum of 60 seconds to perform each task. Should an evaluation soldier fail to complete the task within the 60 second limit, the task will be halted and the evaluation soldier will be asked to return to the home screen in preparation for the next task.

The system tasks will consist of the following tasks:

1. Determine the battery life remaining
2. Navigate to the Quick Reference guide (QRG)
3. Use the QRG to look up instructions on a device function
4. Display a compass and determine north direction
5. Display a map and demonstrate the zoom and pan functions
6. Navigate to the mission planning menu
7. Navigate to the screen to send a contact report*

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8. Determine the GPS coordinates of current position
9. Identify a blue force soldier on the display
10. Log off / System shutdown

* evaluation soldiers will only evaluate this capacity if provided by the Bidder

System GUI tasks will assess system GUI performance, system response time, and evaluation soldier acceptance of each candidate P(Bid) system. Evaluation soldiers will be briefed on the purpose of the test, the methods used, the tasks to be performed, all of the criteria to be rated in the questionnaire.

Measures

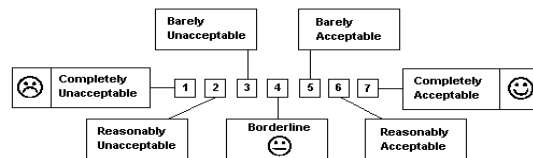
The following measures will be collected during the experiment to provide a stress factor to simulate the sense of urgency found under operational conditions and to ensure evaluation soldiers are provided feedback on their performance on the subject P(Bid) system through objective measures only.

- a. Time to Completion:
The time required to complete each task will be measured with a stop watch by an HFO. A maximum time limit of 60 seconds will be enforced. If the software provides multiple options for achieving the prescribed task end state, the HFO will note the method used.
- b. Percent Successful Completion:
The number of the tasks successfully completed within the maximum time limit will be noted and the percentage of successful task completion calculated.
- c. System GUI Focus Questionnaire:
Evaluation soldiers will complete the following system GUI focus questionnaire on the usability and utility of the P(Bid) system GUI.

SYSTEM GUI NAVIGATION

NAME		SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)					
1	2	3	4	5	6

Using the scale provided, indicate the acceptability for the different aspects of usability of the system GUI.



System GUI Usability	Acceptability						
	1	2	3	4	5	6	7
Ease of Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Efficiency	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Simplicity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Readability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Terminology and Abbreviations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of Recognition	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Consistency	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Satisfaction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Match Expectations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Error Prevention and Recovery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Feedback	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Organisation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
System Response Time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Menu Hierarchy Levels	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fixed Function Keys (if Applicable)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quick Reference Guide Navigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quick Reference Guide Information Quality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall System Level Graphic User Interface Acceptability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

ENCLOSURE 3 TO ATTACHMENT 2 TO APPENDIX 2 TO ANNEX CB TO VOLUME 1

UAPE Stage 3 - Dynamic Test Stand

Introduction

During the UAPE, Canada will exercise the P(Bid) System in a Dynamic Test Stand (DTS) involving rifle sections within the context of a rifle platoon. This exercise will include both offensive and defensive operations in a force-on-force scenario for a 24 hour period.

Evaluation Soldiers will deploy for the duration of the Stage 3 without support from the Bidders (this includes all logistics, mentoring and training). The Evaluation Soldier sections will have in their possession the required LRUs and batteries for the entire mission and will have to troubleshoot and adapt to issues that arise with the P(Bid) system.

Objective

This test stand will:

- ⊕ The aim of this exercise is to enable the Evaluation Soldiers to operate the P(Bid) System in an operational scenario that incorporates common infantry battle tasks in order to assist the soldiers in making an informed assessment on the level of acceptability of the P(Bid) System for use on operations.

Scope

Over the course of the five-day UAPE Block the first three days consist of instruction from the bidders in a static format and non-tactical test stands. On day three, each section commander will receive warning orders to allow he/she to commence planning and prepare for both the offensive and defensive tasks to be conducted over a 24 hour period (Day Four) by his/her section. Day 5 of UAPE will be DTS focus group with video review of their performance on the objective from the perspective of the enemy. The P(Bid) System activity expected to be covered during the DTS includes:

a. In both Offence and Defence the following are some of the common competencies that may be exercised and the use of the P(Bid) System is not limited to this list. Each Soldier within the Evaluation Section will be assigned to various roles within the section and therefore may or may not use each of the competencies listed below during the mission:

- i. Conduct a 24 hours dismounted offensive/defensive mission;

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- ii. Configure the P (BID) system and MLCS for a 24 hour mission for operator comfort and usability;
- iii. Configure the P (BID) system and MLCS for a 24 hour mission for weapon compatibility (C7A2, C9, C7A2 with M203);
- iv. Plan and execute dismounted navigation (day/night);
- v. Send voice messages (day/night);
- vi. Receive voice messages (day/night);
- vii. Send text messages (day/night);
- viii. Receive text messages (day/night);
- ix. Develop map overlays (day/night);
- x. Save map overlays (day/night); and
- xi. Hand Drawings (Draw/sketch) (day/night).

Conduct

Upon completion of Stage 1 and 2, the bidders will be given the opportunity to perform final maintenance/battery charging etc on their bid sets. The bidders will then provide the PE Company Quartermaster with the necessary batteries and LRUs as a part of the normal supply chain (first line) for the duration of the DTS. The soldiers will be required to be self-sufficient for a period of not less than 24 hours to include rations and water, and they must be able to carry all the batteries required for the duration of the mission. The bidders will not have access to their systems or the soldiers until the completion of the DTS.

Upon completion of the DTS the soldiers will return their systems as part of the post-exercise drills and the bidders will have access to their P(Bid) Systems as per section 7 “General Schedule,” Volume 1 Annex CB Appendix 2 Att 2 for maintenance checks. After a period of forced rest the soldiers will review their actions on the objective (from the perspective of the enemy) on video and complete the Final Scoring Questionnaire.

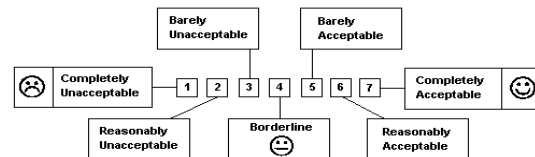
Conclusion

This high fidelity exercise will be the opportunity for the Evaluation Soldier to evaluate the bid P(Bid) System under full speed operation-like conditions, and render an informed decision on the system’s acceptability under operational conditions.

FINAL SCORING QUESTIONNAIRE

NAME					SUBJECT #		SERIAL #	
BIDDER (Circle ONLY One)								
1	2	3	4	5	6			

Using the scale provided, indicate the acceptability for the overall system.



HF Requirements		Acceptability							n/a
		1	2	3	4	5	6	7	
System Assembly	System Assembly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Input Device Usability	Text Entry Capability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Pointing / Selecting Controls	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Device Controls	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Visual Displays	Day-Time Visual Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Night-Time Visual Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Auditory Displays	Auditory Display Physical Design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Voice Communications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Natural Hearing Restoration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Auditory Display Earplug Fit / Security / Stability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Graphical User Interface	System-Level Graphical User Interface	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	User Interface Response Time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	BMS Navigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	BMS Planning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	BMS – PA/SA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Text Messaging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Target Designation Usability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

HF Requirements		Acceptability							n/a
		☹ 1	2	3	☺ 4	5	6	☺ 7	
	Target Hand-Off Usability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mobility	Mobility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Compatibility	Personal Weapons Compatibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Platoon Weapons Compatibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	PPE Compatibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Other Equipment Compatibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Vehicle Compatibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	CBRN Compatibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Compatibility - Handwear	Overall Handwear Compatibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Handwear – Audio Display Wired PTT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Handwear – Audio Display Wireless PTT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Comfort	Body Physical Comfort	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Head / Ear Physical Comfort	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Thermal Comfort	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fit / Adjustability	Fit and Adjustability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Combat Load Compatibility	Combat Load Accessibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Combat Load Configurability / Modularity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Combat Load Capacity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	ISS-S Component Modularity / Configurability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Detectability	Detectability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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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.

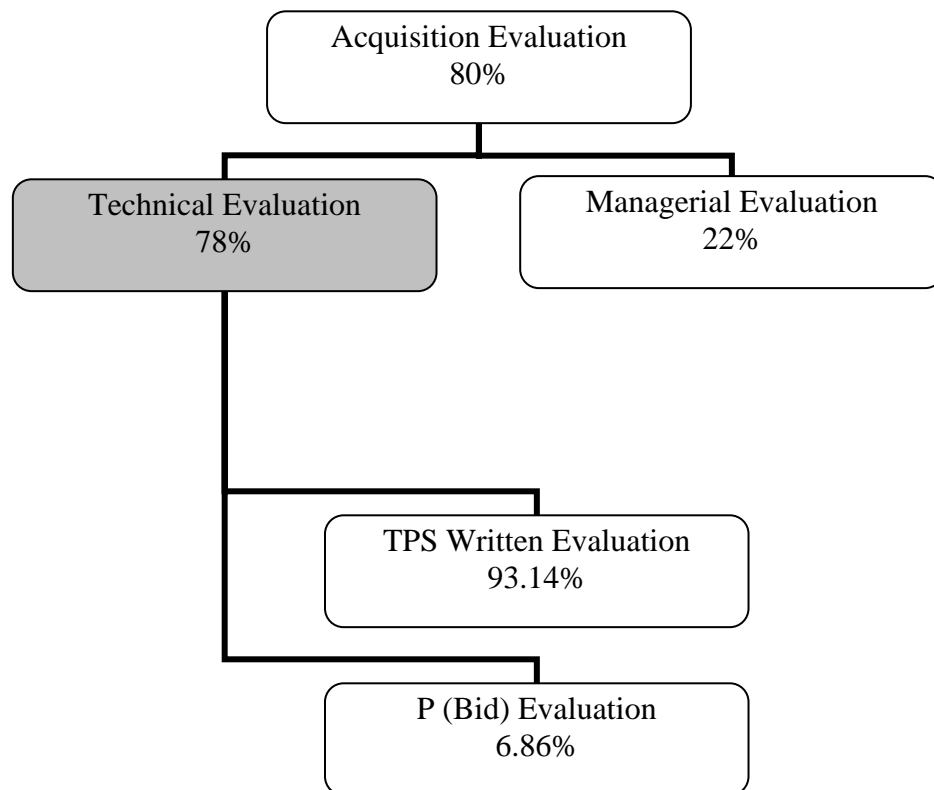


Figure 1 – Overall Allocation of Points

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-5332	Human Systems Integration						
7	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 include the criteria (time or other) used to generate the feedback. 	100
8	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 	285

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
							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.	
9	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
10	TPS-78	Environmental						
11	TPS-291	Climatic / Natural Environments						
12	TPS-313	Operation - High Temperature						
13	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
14	TPS-314	Operation - Low Temperature						
15	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	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 	208

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		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.		that the ISS-S operates when exposed to temperatures of -46°C for at least 24 hours.			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.	
16	TPS-316	Storage - Low Temperature						
17	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.	R	The Bidder should prove that the ISS-S meets this requirement by providing test documentation showing that the ISS-S operates following storage at 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: • 100% of the points will be given if the Bidder's test documentation proves that the ISS-S operates within normal performance limits following storage at temperatures of -46°C for at least 24 hours.	202
18	TPS-312	Electromagnetic Environmental Effects (E3)						
19	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.	
20	TPS-1032	Grounding						
21	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.			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 test documentation proves that the DC resistance from every ISS-S physical device to	405

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				Measurements should be taken with a calibrated milliohm meter.			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.	
22	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: • 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
23	TPS-79	Functional Security						
24	TPS-981	Access Controls						
25	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: • 100% of the points will be given if the Bidder's description proves that a recognized valid access control mechanism is provided.	193
26	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
27	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.	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: • 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	193

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							to digital data transmitted, received and processed by the ISS-S.	
28	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
29	TPS-964	Identification and Authentication (I&A)						
30	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
31	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 how the ISS-S avoids authentication conflicts when more than one ISS-S and Wireless PTTs are collocated. 	29
32	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	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 	83

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		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. 					description proves that an authentication procedure is required to access data stored on the Main Data Storage and the External Data Storage Device; <ul style="list-style-type: none"> • 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. 	
33	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
34	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
35	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 	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 	62

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		reactivated via User Identification and Authentication to give the ISS-S User access to the ISS-S BMS software functions; and <ul style="list-style-type: none"> 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. 					software functions; <ul style="list-style-type: none"> 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. 	
36	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
37	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
38	TPS-929	Data At Rest (DAR)						
39	TPS-5353	General						
40	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 description proves that the data on the External Data Storage Device is secured. 	26
41	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.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> 25% of the points will be given if the Bidder's 	26

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							description proves that the data on the Main Data Storage is secured using cryptographic encryption; <ul style="list-style-type: none"> • 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. 	
42	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.			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 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
43	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.			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 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 	26

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							AES (FIPS 197).	
44	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: <ul style="list-style-type: none"> • 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
45	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: <ul style="list-style-type: none"> • 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
46	TPS-937	The integrity of stored data should be provided using one of the following techniques: <ul style="list-style-type: none"> 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 	R	The Bidder should provide a valid Cryptographic Algorithm Validation Program (CAVP) certificate for its integrity mechanism implementation used for the DAR functionality on ISS-S. The test should have been			The proposal will be evaluated and scored as indicated based on the certificate provided by the Bidder: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> - AES 128 bits encryption in CMAC, CCM or 	24

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		c) Keyed-Hash Message Authentication Code (HMAC) as per FIPS 198-1 using one of the NIST approved hash functions (FIPS 180-3).		performed by one of the third-party laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).			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.	
47	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 equivalent.	24
48	TPS-129	Zeroizing						
49	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,	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: • 100% of the points will be given if the Bidder's	413

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		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.					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.	
50	TPS-958	Over The Air Zeroizing (OTAZ)						
51	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
52	TPS-988	EMCON						
53	TPS-4990	Radio Silence						
54	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.	
55	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
56	TPS-939	Data In Transit (DIT)						
57	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.	
58	TPS-947	The integrity mechanism used to protect	M	The Bidder must provide a			The Bidder's proposal will be deemed compliant	

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		transmitted data must provide an equivalent strength factor of at least 16 bits.		detailed description of the ISS-S Data In Transit capabilities.			if the description proves that the DIT data integrity mechanism provides an equivalent strength factor of at least 16 bits.	
59	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
60	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.	R	The Bidder should provide a 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			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 encryption and integrity mechanisms used for ISS-S Data In Transit are validated to a minimum of FIPS 140-2 Level 2 or equivalent.	385
61	TPS-4087	TRANSEC						
62	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			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	578

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				provided, including the details of its behaviour and how it protects transmissions from interception and exploitation given narrowband and wideband threats.			techniques: - Spread Spectrum; - Frequency Hopping; or - Spread Spectrum and Frequency Hopping.	
63	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
64	TPS-987	Key Management						
65	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.	
66	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	M	The Bidder must provide a detailed description of how the ISS-S protects the confidentiality of the cryptographic keying			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.	

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		throughout their life cycle (generation, production, storage, distribution, usage and destruction).		materiel using 128 bits of security.				
67	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.	
68	TPS-4992	Key Generation & Production						
69	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
70	TPS-4993	Key Distribution						
71	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.	
72	TPS-4995	The ISS Key Management function should provide a means to distribute cryptographic keying material from one working instance of an	R	The Bidder should provide a detailed description of how their solution distributes			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:	98

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		ISS KMP tool to another while ensuring their confidentiality and integrity.		cryptographic keying material from one working instance of an ISS KMP tool to another.			<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. 	
73	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 description proves that the ISS Key Management function provides a valid OTAR function. 	295
74	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
75	TPS-4266	EMSEC						
76	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.	
77	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	R	The Bidder should provide an electrical schematic of the audio display(s) used on			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:	415

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		between the LCSS GFE radio and the ISS-S while the ISS-S radio is transmitting.		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 determine the conditions of electrical connection between the channels.			<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 components meets the requirement. The analysis should indicate the condition of every component when the ISS-S radio is transmitting. 	
78	TPS-80	Reliability, Availability and Maintainability						
79	TPS-2039	Reliability						
80	TPS-2043	Mission Reliability						
81	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.	
82	TPS-2048	Basic Reliability						
83	TPS-2049	The ISS-S must have a Mean Time Between Failure (MTBF) of at least 500 hours (minimum	M	The Bidder must provide estimated or measured			The Bidder's proposal will be deemed compliant if the description provides estimated or	

Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
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		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.		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 allocation to sub-system / LRU level.			measured values for the ISS-S MTBF proving that the provided ISS-S MTBF is not less than the required MTBF.	
84	TPS-2055	Maintainability						
85	TPS-2056	Maintenance Concept						
86	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.	
87	TPS-2076	Mission Service Restoration						
88	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 and demonstrate that it does not exceed that specified. A summary of the methods used to determine and			The Bidder's proposal will be deemed compliant if the description provides estimated or measured values of the system MaxTTRSys demonstrating that it meets the requirement.	

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				<p>verify these claims is requested. The Bidder should also provide a summary of the methods of fault detection and isolation, and the tasks associated with removal/replacement, check-out and start-up to restore each defective LRU.</p> <p>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.</p>				
89	TPS-2082	Preventive Maintenance						
90	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.	R	The Bidder should describe the required daily operator 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 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 does not require any preventive maintenance beyond daily operator checks, inspection and cleaning, and ISS-S Audio Display in-ear standard insert replacement. 	413
91	TPS-2085	Built In Test (BIT) and Fault Detection						
92	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	R	The Bidder should provide an analysis of the BIT functionality detailing the following:			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	811

Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
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		Scoring Criteria, and when used as per Volume 2, Annex CB, Appendix 3 Mission Profile and Operation Mode Summary.		<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>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>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; else - If 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 Function not covered by the BIT: Subtract 10% of the Coverage points. • 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 	

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				<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>			<ul style="list-style-type: none"> - 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 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% <ul style="list-style-type: none"> - 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% <ul style="list-style-type: none"> - 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 	

Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
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							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 - 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.	
93	TPS-2377	Software Fault Recovery						
94	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: • 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
95	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: • 100% of the points will be given if the Bidder's description includes a description of the ISS-S software architecture and proves that	149

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							applications can be restarted.	
96	TPS-74	Subsystem Functional Requirements						
97	TPS-5341	Modular Load Carriage System						
98	TPS-5441	ISS MLCS Load and Fit						
99	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
100	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
101	TPS-87	Battle Management System						
102	TPS-2478	Tactical User Interface						
103	TPS-2480	Resolution						
104	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
105	TPS-465	Luminance						
106	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			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.	

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				describing the display luminance.				
107	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 method used to meet the requirement, and the description should describe any ISS-S User intervention required to meet 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 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
108	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.	
109	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
110	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	R	The Bidder should describe the display that will be used in their ISS-S, including the display specification			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 	183

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		described in TPS-517.		describing the display luminance and luminance controls.			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.	
111	TPS-2545	Text Entry Capability						
112	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
113	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
114	TPS-471	Touch Screen Interface						
115	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

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116	TPS-448	Main Processing Unit						
117	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.	M	The Bidder must provide an analysis describing how the 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.			The Bidder's proposal will be deemed compliant if the description proves that the CPU histograms of utilization averaged over a 10 minute period does not exceed 50% of the total possible utilization.	
118	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			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
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				minute period and show that the averaged utilization of volatile memory 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.				
119	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			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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1	2	3	4	5	6	7	8	9
				10 seconds each, 10 voice receptions of 10 seconds each; <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. 				
120	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	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: <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 			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 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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1	2	3	4	5	6	7	8	9
				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.				
121	TPS-454	Main Data Storage						
122	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
123	TPS-453	External Data Storage Device						
124	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. 	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 other ISS-S.	
125	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			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	

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
				their ISS-S.			and connected to an in-service CF-31 laptop.	
126	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: <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 the SEP has the capability of transferring Maps between the SEP-Suite and External Data Storage Devices. 	191
127	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: <ul style="list-style-type: none"> • 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. • If the description proves that the External Data Storage Device capacity is greater than 32 GB = 100% of points. 	191
128	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
129	TPS-5125	Battle Management Software						
130	TPS-427	Maps						
131	TPS-1921	Formats						

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
132	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: <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. 	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: <ul style="list-style-type: none"> 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
133	TPS-432	Maps functions						
134	TPS-433	Zoom						
135	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.	R	The Bidder should describe the zooming 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 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. 	371
136	TPS-434	Map orientation						
137	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 	376

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1	2	3	4	5	6	7	8	9
							by the ISS-S User.	
138	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
139	TPS-365	Navigation						
140	TPS-5464	General						
141	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.	R	The Bidder should provide a description of the Navigation functionality of their ISS-S, including the options available to the ISS-S User.			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 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. 	188
142	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.			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 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
143	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.			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 	239

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
							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.	
144	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.			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 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
145	TPS-2947	Coordinate Reference Systems						
146	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.	R	The Bidder should describe the Coordinate Reference System of their ISS-S, including the units in which it displays positional 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 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: <ul style="list-style-type: none"> - Option 1) MGRS 10 figure grid reference with UTM map reference; - Option 2) latitude/longitude in degrees, minutes and seconds map reference system. 	90
147	TPS-401	Bearing						
148	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: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the ISS-S User can display bearing information in degrees and in mils. 	90

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
149	TPS-402	Distance Measurement						
150	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
151	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.	R	The Bidder should describe the Distance Measurement function of their ISS-S, including which units can be used to display distance information.			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 distance information in one of the following units: 1) metric; and 2) imperial.	90
152	TPS-4818	Graphical Data Types						
153	TPS-2539	Blue PA						
154	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
155	TPS-4122	The ISS-S should offer an automatic aggregation mode which automatically displays either	R	The Bidder should describe the aggregation mode of			The proposal will be evaluated and scored as indicated based on the description provided by	192

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
		Commanders or centre of mass of section and platoon depending on the level of zoom.		their ISS-S Blue PA functionality.			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"> 1) the Commanders (platoon and sections); or 2) the centre of mass (platoon and section). 	
156	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
157	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: <p>The description should prove that the ISS-S has the option to display the Blue PA of different COIs according to several positional information display modes:</p> <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. 	99
158	TPS-399	Routes						
159	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.	
160	TPS-707	When using the Route planning function, the	M	The Bidder must describe			The Bidder's proposal will be deemed compliant	

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-S User must be able to modify Routes by deleting or adding waypoints at the end of the Route.		the Route Planning function of their ISS-S.			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.	
161	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: <ul style="list-style-type: none"> • 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
162	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: <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 Routes on and off when multiple routes are displayed on the Tactical User Interface display. 	138
163	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: <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 Route when a Route is exchanged between two ISS-S. 	44
164	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: <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 Route when a Route is exchanged between two ISS-S. 	44
165	TPS-1721	Hand Drawing						

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1	2	3	4	5	6	7	8	9
166	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 supports.			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 Hand Drawing capability supports multiple colours. 	138
167	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.	
168	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
169	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 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. 	44
170	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 	138

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
							selected Hand Drawings on and off when multiple Hand Drawings are displayed on the Tactical User Interface display.	
171	TPS-1990	Enemy, Friendly, Unknown and Neutral Symbols						
172	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
173	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
174	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
175	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: <ol style="list-style-type: none"> 1) A - Symbol Indicator 2) B - Size Indicator 3) D - Task Force Indicator 4) F - Reinforced or Detached 	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 indicated seven fields are accessible and modifiable by selecting the entity on the Tactical User Interface display. 	38

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
		5) M - Higher Formation 6) S - HQ Indicator / Location Offset Indicator 7) T - Unique Designation						
176	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
177	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
178	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 bring up an information box next to the symbol.	38
179	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: • 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
180	TPS-1994	The ISS-S User should be able to change an Enemy, Friendly, Neutral and Unknown symbol	R	The Bidder should describe how it supports the Enemy,			The proposal will be evaluated and scored as indicated based on the description provided by	38

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
		into another one amongst those four categories by selecting a symbol and making modifications to its parameters.		Friendly, Unknown and Neutral entities.			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. 	
181	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
182	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
183	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
184	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 Icons) - TAM 105.04 EQUIPMENT ICONS, section 2 (Equipment Icons), and - TAM 105.06 IRREGULAR WARFARE 	38
185	TPS-2012	Tactical Graphics						
186	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) 	R	The Bidder should describe how it supports the Tactical Graphics, including which Tactical Graphics is supported by its ISS-S			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. <p>The description should prove that the ISS-S has</p>	91

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"> • 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) • 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) 		solution.			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. 	

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"> • 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) 						
187	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
188	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 supported by its ISS-S solution.			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 User to add text annotation to a point on a map. 	91
189	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
190	TPS-366	Intervisibility						
191	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: <ul style="list-style-type: none"> • 100% of points if the Bidder's description 	403

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 the ISS-S includes an Intervisibility function using DTED level 2.	
192	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: <ul style="list-style-type: none"> 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
193	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: <ul style="list-style-type: none"> 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
194	TPS-2528	Mission Planning Tools						
195	TPS-2395	Time Appreciation Tool						
196	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: <ul style="list-style-type: none"> 100% of points if the Bidder's description proves that the ISS-S includes a Time Appreciation Tool which allows the User to create, save, load, delete and modify Time Appreciation Tables. 	46
197	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 	37

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
							attack".	
198	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
199	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
200	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
201	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
202	TPS-379	Reports & Returns						
203	TPS-5397	General						
204	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); 4) CORAL-CR-C (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: • cut/copy/paste = 20% of points. • direct entry from the Text Entry Capability = 30% of points. • selecting an object or location on the map display (where applicable) = 30% of points. • CORAL-CR-C (where applicable) = 20% of points.	65
205	TPS-387	Fire Mission						
206	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.	

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
207	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
208	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.	
209	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
210	TPS-5393	Contact Report						
211	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.	
212	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.	
213	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	

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
							the contents of this Contact Report.	
214	TPS-2554	Other Supported Reports & Returns						
215	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.	
216	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.			<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"> • INCREP = 10% of points. • STRIKEWARN = 10% of points. • NBC 1 to 6 Biological/Chemical/Nuclear Reports = 10% of points. • BOMBREP = 15% of points. • 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. 	323
217	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	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. 	242

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
		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).					<ul style="list-style-type: none"> • 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. 	
218	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).	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"> • 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. 	37
219	TPS-388	ADREP						
220	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;	R	The Bidder should describe how its ISS-S solution supports the ADREP.			<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 has the capability to receive, generate, and manage the ADREP 	19

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
		4) Ammo; 5) POL; 6) Rations; 7) Water; 8) Misc.					Reports & Returns with the specified fields.	
221	TPS-417	Imagery						
222	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
223	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
224	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
225	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
226	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: • 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
227	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
228	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
229	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
230	TPS-5306	If TPS-4795 is provided, the ISS-S User should be able to display and save the still imagery from	R	The Bidder should describe how Imagery is supported			The proposal will be evaluated and scored as indicated based on the description provided by	10

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
		the digital camera(s).		by their ISS-S.			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). 	
231	TPS-406	Text Messaging						
232	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
233	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
234	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
235	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
236	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
237	TPS-2657	Text Documents						
238	TPS-2684	The ISS-S should read and display Text Documents written in the following formats: a) Plain Text,	R	The Bidder should describe how its ISS-S solution supports Text Documents,			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder.	86

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
		b) RTF (Rich Text Format), c) Portable Document Format (PDF).		including which formats it supports.			The description should prove that the ISS-S is capable of reading and displaying Text documents in: • Plain Text = 40% of points. • RTF (Rich Text Format) = 40% of points. • Portable Document Format (PDF) = 20% of points.	
239	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: • 100% of points if the Bidder's description proves that the ISS-S is capable of generating Text Documents in RTF.	86
240	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: • 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
241	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: • 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
242	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
243	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
244	TPS-2530	Overlays						
245	TPS-613	The ISS-S Overlays should allow the ISS-S User to display on the map as overlay separation all	R	The Bidder should describe the Overlay functionality of			The proposal will be evaluated and scored as indicated based on the description provided by	81

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		the Graphical Data types defined in TPS-4818.		their ISS-S, including how various data can be displayed by types.			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. 	
246	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
247	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. 	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"> • 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. 	65
248	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. 	65

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							<ul style="list-style-type: none"> • Different overlays for different Hand Drawings = 40% of the points. • Different overlays for different Graphical Plans = 20% of the points. 	
249	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
250	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
251	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
252	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
253	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
254	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
255	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
256	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 	56

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							ISS-S.	
257	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
258	TPS-361	Alarms and Alerts						
259	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
260	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
261	TPS-3145	The ISS-S should not present more than seven different non-verbal audio signals to the user.	R	The Bidder should provide a list of all supported non-verbal audible warning signals for 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 includes a list of all supported non-verbal audible warning signals and that there are no more than seven. 	83
262	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

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263	TPS-5481	For every Caution signals, the ISS-S should provide the following characteristics and capabilities: - 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: • 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
264	TPS-5482	For every Advisory signals, the ISS-S should provide the following characteristics and capabilities: - 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: • 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
265	TPS-3966	Emergency Alerts						
266	TPS-3968	The ISS-S should have an Emergency Alert capability which allows the ISS-S User to generate the following Emergency Alerts: • 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: • 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
267	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			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 produces a Warning signal	18

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				their associated visual alert and audio alarm.			when receiving an Emergency Alert message. The Bidder should also provide a description of the Warning signal.	
268	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
269	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, 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 attaching text to the Alert when generating a Friendly Nuclear Strike Alert. 	18
270	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
271	TPS-3974	When generating a Biological or Chemical attack	R	The Bidder should describe			The proposal will be evaluated and scored as	18

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		Alert, the ISS-S User should have the option of attaching text to the Alert.		the Emergency Alert capability of their ISS-S, including the generation of a Biological or Chemical Attack Alert.			indicated based on the description provided by the Bidder: • 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.	
272	TPS-3970	The Imminent Air Attack Alert should consist of a structured message with the following fields: • 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: • 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
273	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: • 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 Imminent Air Attack Alert.	18
274	TPS-3977	Generation of Emergency Alerts						
275	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
276	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

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277	TPS-3982	Reception of Emergency Alerts						
278	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
279	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
280	TPS-3987	Reception of an All clear Emergency Alert should remove all Visual Alerts and clear Audio Alarms.	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 all Visual Alerts and Audio Alarms are removed when receiving an All Clear Emergency Alert.	16
281	TPS-4835	Data Exchange Capabilities						
282	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
283	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
284	TPS-1890	Address Lists						
285	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: • 100% of points if the Bidder's description proves that an Address List functionality is	61

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							present and that it provides a list of all the Users with their ORBAT positions.	
286	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
287	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
288	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
289	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 than Blue PA an ISS-S User wants to send.			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, files or information other than Blue PA, to whom the message is to be sent. 	61
290	TPS-2939	Presence service						
291	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
292	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 	40

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							(2) minutes or faster.	
293	TPS-94	Audio Display						
294	TPS-4270	General Description						
295	TPS-5358	General						
296	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.	
297	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.	
298	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.	
299	TPS-3174	The ISS-S Audio Display should display the same or different information to the right and left	R	The Bidder should describe how the user can configure			The following configurations will be evaluated when using one radio, and scored as indicated	423

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		ear based on ISS-S User preference.		the ISS-S Audio Display to be able to select which ear a voice net is displayed to.			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. 	
300	TPS-4413	Headset and Canalphones						
301	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.	
302	TPS-4340	Talk-Through Circuit (TTC)						
303	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.	
304	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
305	TPS-4310	Noise Reduction System						

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306	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.	
307	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% • If the test report proves that the ISS-S Audio Display provides more than 30dB of attenuation at the User's ear = 100% 	423
308	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.	
309	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	423

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							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% 	
310	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.	
311	TPS-5027	Wireless Push-To-Talk (PTT) Switch						
312	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 	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

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		requirements in section TPS-5443 ISS Batteries become less restrictive; it is acceptable that the ISS Batteries be either rechargeable “OR” non rechargeable.						
313	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: <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. 	100
314	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
315	TPS-96	Position Generation and Navigation						
316	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.	
317	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. 	

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318	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), describe the location of the bearing sensor, and describe the accuracy of the bearing sensors.			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 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. 	404
319	TPS-4210	GPS Receiver Performance						
320	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.	
321	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: <ul style="list-style-type: none"> • 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
322	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. 	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.	

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323	TPS-4223	Military GPS						
324	TPS-5214	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); 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 characteristics and interfaces that will allow the ISS-S to meet this requirement. The solution must include one of the following 2 solutions: <ul style="list-style-type: none"> ISS-S has an integrated SAASM receiver; or ISS-S has an interface to the CF in-service DAGR. 			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.	
325	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: <ul style="list-style-type: none"> 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
326	TPS-5427	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); 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- 	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			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	

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		service DAGR.		provided, the Bidder must describe how the ISS-S will physically connect to the CF in-service DAGR.			provide position information to the ISS-S.	
327	TPS-4226	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 10.5m horizontal radial error with 95% confidence, in unobstructed terrain; or Interfacing with a CF in-service DAGR. 	M	<p>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.</p> <p>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.</p>			<p>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 horizontal position accuracy meets or exceeds the required horizontal minimum position accuracy.</p> <p>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.</p>	
328	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 Horizontal Error (EHE) every 10 seconds to the BMS; or Interfacing with a CF in-service DAGR. 	R	<p>If an integrated military grade GPS receiver is provided, the Bidder should provide a description of how the proposed ISS-S will provide EHE message to the soldier through the BMS and display.</p> <p>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.</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 integrated military grade GPS receiver is provided and the Bidder's description proves that military grade GPS receiver provides EHE message to the User through the BMS and display; 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. 	220

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329	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.	
330	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	<p>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.</p> <p>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.</p>			<p>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.</p> <p>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.</p>	
331	TPS-4234	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 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. 	R	If an integrated military 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.			<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 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 	203

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				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.			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.	
332	TPS-97	Communication						
333	TPS-795	General						
334	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.	M	<p>The Bidder must provide a detailed description of voice and data behaviour when being exchanged between dismounted soldiers at section and platoon levels, including voice and data being exchanged between section and platoon levels.</p> <p>The Bidder must provide an analysis of how their ISS-S solution meets the requirement.</p>			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 platoon levels, including voice and data being exchanged between section and platoon levels.	
335	TPS-4254	<p>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:</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; 	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.			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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		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 assets, data exchange (twenty-one (21) nodes per platoon-cmd data COI). 		Analysis: The Bidder must provide an analysis of how their ISS-S solution meets the requirement at the required scale.				
336	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 	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

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		assets, data exchange (twenty-one (21) nodes per platoon-cmd data COI).						
337	TPS-5159	<p>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:</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). 	R	<p>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.</p> <p>Analysis: The Bidder should provide an analysis of how their ISS-S solution meets the requirement.</p>			<p>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.</p>	768
338	TPS-5160	<p>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:</p>	R	<p>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.</p> <p>Analysis:</p>			<p>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.</p>	768

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		<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). 		The Bidder should provide an analysis of how their ISS-S solution meets the requirement.				
339	TPS-244	Capacity						
340	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	<p>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.</p> <p>Analysis: The Bidder must provide an analysis of how their ISS-S solution meets the requirement.</p>			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.	
341	TPS-245	Mobility and Movement						
342	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	M	The Bidder must provide a detailed description of how their communications network maintains reachability between ISS-S nodes when ISS-CS			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, without requiring	

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		intervention.		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.			human intervention.	
343	TPS-242	Operational Modes						
344	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.	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: <ul style="list-style-type: none"> • 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
345	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.	R	The Bidder should provide an analysis of how the rated device starts and joins to an existing dismounted 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: <ul style="list-style-type: none"> • 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
346	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.	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	

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							system start, establishment of network link, discovery of neighbours, availability of Blue PA service, etc).	
347	TPS-246	User Services						
348	TPS-247	Voice						
349	TPS-5359	General						
350	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.	
351	TPS-249	Voice Service						
352	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 (Functional Security - EMCON) with the exception of TPS-2678 	M	The Bidder must provide a detailed description of how their voice service functions in the simple configuration. 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			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 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.	

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		<ul style="list-style-type: none"> • 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) 		simple configuration.				
353	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).	
354	TPS-250	Voice Communities of Interest						
355	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 what criteria the voice service uses to dynamically			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 should include what criteria the voice service uses to dynamically allow other ISS-S to be used 	380

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				allow other ISS-S to be used to assume the speaker role.			to assume the speaker role.	
356	TPS-253	Voice Encoding						
357	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
358	TPS-255	Data						
359	TPS-256	Data Exchange						
360	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.	
361	TPS-258	Delivery to Communities of Interest						
362	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 ISS-S nodes.			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 subscribers to defined COIs and to ensure distribution to all network-reachable subscribers.	

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363	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.	
364	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.	
365	TPS-263	Grade of Service						
366	TPS-2138	Voice						
367	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
368	TPS-2142	Blue PA						
369	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	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. Analysis:			The Bidder's proposal will be deemed compliant 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)	

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		within ten (10) seconds.		The Bidder must provide an analysis of how their ISS-S solution meets the requirement.			nodes within ten (10) seconds.	
370	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	<p>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.</p> <p>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.</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 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
371	TPS-243	Communications Coverage						
372	TPS-812	Relay						
373	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 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			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 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.	

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				system is reconfigured to have a new master or base station.				
374	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
375	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
376	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 used should be provided.			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.	
377	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. A			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 	400

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				link budget or simulation result with parameter values used should be provided.			(6000) metres. The description should include the number of hops required to achieve this communications range.	
378	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.	
379	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
380	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
381	TPS-816	The ISS-S communications network should configure relay points for data services, without	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	369

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		human intervention, within fifteen (15) seconds of beaconing from a new, previously unknown, node.		their ISS-S communications network functions to create a relay for a new ISS-S node beaconing or requesting to join the network.			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-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. 	
382	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 ISS-CS devices at a range of 2000 metres using a relaying node as described in the requirement. A link budget or simulation result with parameter values used should be provided.			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 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.	
383	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	M	The Bidder must provide a detailed description of how their ISS-S communications network functions under dispersion as described in the requirement. A link			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)	

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		another ISS-S.		budget or simulation result with parameter values used should be provided.			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.	
384	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. A link budget or simulation result with parameter values used should be provided.			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
385	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 deployed in a randomly distributed cluster five hundred (500) metres in diameter.	M	The Bidder must provide a detailed description of how their ISS-S communications network provides reliable communications between ten (10) ISS-CSs operating within a cluster five hundred (500) metres in diameter in an urban environment. A link budget or simulation result with parameter values used should be provided.			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 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.	

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386	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. A link budget or simulation result with parameter values used should be provided.			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 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
387	TPS-817	Range Extension						
388	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.	R	The Bidder should provide a detailed description of how their ISS-CS functions to prevent a single ISS-S node from being the preferred relay for more than 40 nodes.			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-CS is configurable to prevent any single communications node from being the preferred relay for more than 40 nodes.	380
389	TPS-265	Network						
390	TPS-270	Addressing						
391	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			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 how duplicate IP addresses	384

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				reconfiguration functions.			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.	
392	TPS-271	Radio						
393	TPS-3896	Transmitted Power						
394	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 • TPS-312 - Electromagnetic Environmental Effects (E3) 	M	The Bidder must provide a detailed description of the primary transmitted output power mode that will be used to meet the TPS requirements.			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 requirements defined in TPS-97 and the mandatory Electromagnetic Environmental Effects (E3) requirements defined in TPS-312.	
395	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
396	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

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397	TPS-272	Transmission range						
398	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. A link budget or simulation result with parameter values used should be provided.			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.	
399	TPS-1652	The ISS-CS must 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 no less than eighty (80) kilobits per second of internet protocol (IP) data throughput after error correction.	M	The Bidder must provide a 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.			The Bidder's proposal will be deemed compliant 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.	
400	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 	1162

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							achieved at one thousand (1000) metre range.	
401	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	<p>The Bidder must provide a detailed description of how their ISS-CS functions to provide sufficient link margin for the requirement.</p> <p>Analysis: The description must provide a detailed analysis based on measurement data or detailed calculations of how this requirement will be met.</p>			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.	
402	TPS-275	Frequencies / Frequency Planning						
403	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.	M	The Bidder must provide a detailed description of how their ISS-S functions within 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.			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 and describes the criteria used to determine channel size and the numbers of channels available within this band.	
404	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.	

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405	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
406	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 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.</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 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. 	418
407	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,	R	The Bidder should provide a detailed description of how their ISS-S functions to meet all parts of the			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder: <ul style="list-style-type: none"> No points will be given if the ISS-CS hardware 	767

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		<p>while providing the following characteristics:</p> <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 randomly distributed cluster five hundred (500) metres in diameter. 		<p>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>			<p>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:</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 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 throughput equivalent or greater than data throughput measured in the Primary Operating 	

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							Band; <ul style="list-style-type: none"> • 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. 	
408	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 	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			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 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 	767

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		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. 		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 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) 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 	

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							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.	
409	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: <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 	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.			<p>The proposal will be evaluated and scored as indicated based on the description provided by 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 	767

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		<p>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</p> <ul style="list-style-type: none"> • 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>distribution of data and voice to all network-reachable ISS-S nodes subscribed to a defined COI;</p> <ul style="list-style-type: none"> • 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. 	
410	TPS-3923	Spectrum Access Flexibility						
411	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	R	The Bidder should provide a detailed description of how their ISS-S functions using a reduced occupied			<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 	745

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		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).		bandwidth to provide the required voice, Blue PA and data services. Analysis: The Bidder should provide an analysis of how their ISS-S solution meets the requirement.			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.	
412	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.			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 change between the Primary Operating Band and one of the provided Secondary Operating Bands within sixty (60) seconds without requiring any additional devices.	397
413	TPS-4073	Occupied Bandwidth						
414	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	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	

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		or less.					<div> <div> +/- 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 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. </div> </div>	
415	TPS-5484	<div> 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: <ul style="list-style-type: none"> - 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. </div>	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.			<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 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 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"> • 100% of the points will be given if: <ul style="list-style-type: none"> - The occupied bandwidth is 5 MHz or less; </div>	765

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							<div>- 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</div> <div>- 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.</div>	
416	TPS-4252	<p>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:</p> <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.			<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 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 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 	765

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							emissions) is at least 20 dB below peak power; and <ul style="list-style-type: none"> - 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. 	
417	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 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 902 - 928 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 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 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</p>	765

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							bandwidth. The solution will be scored as follows: • 75% of the points will be given if: - 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. The solution will be scored as follows: • 100% of the points will be given if: - 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.	
418	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.			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	765

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							<p>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; - 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. 	
419	TPS-3928	<p>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:</p> <ul style="list-style-type: none"> - At +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band 	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			<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 2360 - 2473 MHz frequency band. The description should include the total integrated power of the transmitted spectrum, the center of the assigned channel</p>	765

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		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.		bandwidth in the 2360 - 2473 MHz frequency band.			<p>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.</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 5 MHz or less; - At +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) is at least 20 dB below peak power; and - At +/- 3.5 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: <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. 	

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420	TPS-906	Software-Defined Radio						
421	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.	
422	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	<p>The Bidder must provide a detailed description of how functional upgrades are performed which permit the entire PHY (physical software layer) to be replaced.</p> <p>Analysis: The Bidder must provide a detailed analysis of how their ISS-S solution meets the requirement.</p>			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.	
423	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.	M	<p>The Bidder must provide a 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</p>			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 MAC (media access control layer) without requiring any interface or hardware changes.	

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				detailed analysis of how their ISS-S solution meets the requirement.				
424	TPS-277	Codec						
425	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.			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 can be replaced without requiring and interface or hardware changes. Details on the voice codec implementation should be provided to support the claim. 	211
426	TPS-98	Power and Data Infrastructure						
427	TPS-4446	General						
428	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.			The Bidder's proposal will be deemed compliant if the provided test report and analysis proves that the ISS-S can complete eight (8) hours of continuous operation without recharge or replacement of any ISS Battery as per the requirement.	
429	TPS-4510	The ISS-S should complete more than eight (8) hours of continuous operation without recharge or replacement of any ISS Battery, where the hours of operation are 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			The proposal will be evaluated and scored as indicated based on the test report and analysis provided by the Bidder. <p>ISS Non-Rechargeable Batteries:</p> <ul style="list-style-type: none"> • 50%: The test report and analysis proves that the ISS-S can complete over forty-eight (48) hours of continuous operation without replacement of any ISS non-rechargeable 	728

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				meets the requirement.			<p>Battery as per the requirement;</p> <ul style="list-style-type: none"> • 25%: The test report and analysis proves that the ISS-S can complete over twenty-four (24) and up to forty-eight (48) hours of continuous operation without replacement of any ISS non-rechargeable Battery as per the requirement; • 15%: The test report and analysis proves that the ISS-S can complete over twelve (12) and up to twenty-four (24) hours of continuous operation without replacement of any ISS non-rechargeable Battery as per the requirement. • 0%: The test report and analysis proves that the ISS-S can complete over eight (8) and up to twelve (12) hours of continuous operation without replacement of any ISS non-rechargeable Battery as per the requirement. <p>ISS Rechargeable Batteries:</p> <ul style="list-style-type: none"> • 50%: The test report and analysis proves that the ISS-S can complete over forty-eight (48) hours of continuous operation without recharge or replacement of any ISS rechargeable Battery as per the requirement; • 25%: The test report and analysis proves that the ISS-S can complete over twenty-four (24) and up to forty-eight (48) hours of continuous operation without recharge or replacement of any ISS rechargeable Battery as per the requirement; • 15%: The test report and analysis proves that the ISS-S can complete over twelve (12) and up to twenty-four (24) hours of continuous operation without recharge or replacement of any ISS rechargeable Battery as per the requirement. • 0%: The test report and analysis proves that the ISS-S can complete over eight (8) and up to 	

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							twelve (12) hours of continuous operation without recharge or replacement of any ISS rechargeable Battery as per the requirement.	
430	TPS-4500	Power Sources						
431	TPS-5443	ISS Batteries						
432	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
433	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 description 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 description proves that the ISS Rechargeable Batteries retain 80% of their capacity after 200 recharge cycles. The following conditions are assumed for this scenario:</p> <ul style="list-style-type: none"> • Temperature: 25° ± 10°C 	

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							<ul style="list-style-type: none"> Relative humidity: 20 to 80 percent Atmospheric pressure: Site pressure 	
434	TPS-367	Power Monitoring						
435	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. 	
436	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. 	R	The Bidder should describe the State of Charge algorithm and indicator used on the ISS Non-Rechargeable Batteries.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. <p>100% of the points will be given if the description proves the following:</p> <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 	374

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							indication; <ul style="list-style-type: none"> • 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. 	
437	TPS-4748	Connectors and Wired Connectivity						
438	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.	
439	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.	
440	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.			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder. Scores are based on the number of mating cycles: <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- 	728

Serial	TPS Reference	Requirement Statement	Reqmt Cat	Instructions to Bidder	Bidder's Compliance	Bidder's Response	Evaluation Criteria and Scale	Max Score
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							Rechargeable Battery connector located on the battery, are designed to support more than 5,001 mating cycles.	
441	TPS-4801	External interfaces						
442	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 showing 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
443	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 showing 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
444	TPS-99	Sensor						
445	TPS-4970	Digital Camera						
446	TPS-4795	The ISS-S should import pictures to the ISS-S	R	If an interface to			The proposal will be evaluated and scored as	677

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		<p>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. 		<p>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>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 disable the flash; 	

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							<ul style="list-style-type: none"> • 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. 	
447	TPS-4976	CORAL-CR-C						
448	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: <ul style="list-style-type: none"> - 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
449	TPS-104	System Management						
450	TPS-2962	System Executive and Planning (SEP) Suite						
451	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.	

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1	2	3	4	5	6	7	8	9
452	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.	
453	TPS-5387	Key Management Planning Tool						
454	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.	
455	TPS-2966	Communication Network Planning						
456	TPS-5361	General						
457	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.	
458	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 an ISS Network Plan in human readable format, including a description of its content.	215
459	TPS-2992	Prepare ISS Network Plan						
460	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.	

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461	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: • 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
462	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.	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.	
463	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.	
464	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.	
465	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.	
466	TPS-2994	Validation Plan						
467	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,			The proposal will be evaluated and scored as indicated based on the description provided by the Bidder:	394

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				including all network resources for which conflicts could occur.			<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. 	
468	TPS-2996	ORBAT						
469	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: <ul style="list-style-type: none"> • Platoon; • Section; • Detachment. Examples of Coy and PI size ORBAT are illustrated in Section 5 of Volume 2, Annex CB, Appendix 10.	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 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. 	197
470	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
471	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.			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 ISS-S Users can be assigned to specific COIs based on the ORBAT. 	142
472	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.			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 ensure all ORBAT positions are included in the ISS Network Plan. 	110
473	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.	R	The Bidder should describe how multiple platoon-level (i.e. up to 45 nodes) ISS Network Plans are created			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

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
		Examples of Coy and PI size ORBAT are illustrated in Section 5 of Volume 2, Annex CB, Appendix 10.		using the CNP tool's ORBAT.			proves that the SEP is able to build multiple platoon-level ISS Network Plans using the CNP tool's ORBAT.	
474	TPS-4929	Alternate ISS Network Plan						
475	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.			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 how the SEP can develop an alternate ISS Network Plan with adequate frequencies using the CNP.	67
476	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
477	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: • 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
478	TPS-2969	Map Distribution						
479	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.	
480	TPS-2968	Battle Management Software Configuration						
481	TPS-1792	Blue PA messages reporting parameters						
482	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:	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: 1) The description should prove that the SEP-	402

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) 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.					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 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.	
483	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
484	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
485	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	161

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
							after the specified distance interval has passed.	
486	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: <ul style="list-style-type: none"> • 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
487	TPS-5401	Configuration Application Software						
488	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: <ul style="list-style-type: none"> • 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
489	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: <ul style="list-style-type: none"> • 100% of points if the Bidder's description proves that the ISS-S User is able to monitor data transfer progress. 	53
490	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: <ul style="list-style-type: none"> • 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
491	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			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 	151

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-S, including the network connectivity test application.			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.	
492	TPS-2963	User Profile						
493	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
494	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.	R	The Bidder should describe how the concept of User Profile is managed by their ISS-S and what are the parameters and settings that are associated with a specific User Profile.			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 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. 	193
495	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.	
496	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
497	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

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
498	TPS-4926	Configuration Files						
499	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: • 100% of points if the Bidder's description proves that all parameters configured using the SEP-Suite are distributed using Configuration files.	101
500	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: • 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
501	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: • 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
502	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: • 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
503	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: • 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

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
504	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
505	TPS-3033	The ISS-S User should be able to transfer Configuration Files to other ISS-S over-the-air.	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	93
506	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
507	TPS-5417	LCSS Data Interoperability						
508	TPS-5418	Data Infrastructure						
509	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.	
510	TPS-1544	Battle Management System						
511	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
512	TPS-2650	Communications						
513	TPS-3929	Networking						
514	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	R	The Bidder should confirm his compliance.			100% of the points will be given if the Bidder is Compliant to this requirement.	505

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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
		address spaces other than those defined in IETF RFC 1918.						
	TPS Evaluation Score							58529

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.

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 should 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 should 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-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	<p>Demonstrations for Serial 1, 2 and 3 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 4 to Serial 37.</p> <p>The Bidder must demonstrate that the ISS-S Nodes, in their current state, are not configured such that they would not be able to perform the demonstrations included in this P(Bid) Evaluation Compliance Matrix unless they get configured.</p> <p>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 4 to Serial 37. The Bidder must specify and demonstrate how all parameters need to be entered in the CNP.</p>	The Bidder's proposed ISS-S will be deemed compliant with TPS-1816, if the Bidder proves that the CNP is used to plan an ISS Network Plan and the ISS-S is also compliant with all Mandatory requirements and supported Rated requirements from Serial 22 to Serial 37 inclusively.	
2	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	<p>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:</p> <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 <p>These COIs are to be used throughout the demonstration.</p>	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.	
3	TPS-5478	<p>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:</p> <ul style="list-style-type: none"> • All mandatory requirements in 	M	P(Bid) Demonstration of Function	<p>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.</p>	The Bidder's proposed ISS-S will be deemed compliant with TPS-5478, if the Bidder proves that the CNP is used to plan an ISS Network Plan and the ISS-S is also compliant with all Mandatory requirements and supported Rated requirements from Serial 22 to Serial 37 inclusively.	

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
		section TPS-94 (Audio Display) <ul style="list-style-type: none"> • 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 					
4	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.	
5	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.	M	P(Bid) Demonstration of Function	The Bidder must import the following maps in the SEP-Suite. <ul style="list-style-type: none"> - 1 x CADRG Map (DSSPM Data Files - Evaluation Area Maps: \[PE CFB name]\Imagery\[map name.tif]); - 1 x GeoPDF Map (DSSPM Data Files - Evaluation Area Maps: \[PE CFB name]\Images\[map name.pdf]); and - 1 x GeoTiff Map (DSSPM Data Files - Evaluation Area Maps: \[PE CFB name]\Images\[map name.tif]). 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 be 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.	
6	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; 	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

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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; andAdjust Tactical User Interface Display luminance.					
7	TPS-731	<p>The Map display capability must support and display, Compressed ARC Digitized Raster Graphics (CADRG), GeoTIFF and GeoPDF, either by:</p> <ul style="list-style-type: none">Supporting and Display the above map formats in their native format; orSupporting and Displaying a custom map that includes the information from the above formats as described in TPS-5466.	M	P(Bid) Demonstration of Function	<p>The demonstration of Serial 7 can be executed in two different ways.</p> <ol style="list-style-type: none">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.If no modification or conversion is required using the SEP Suite, maps must be distributed as per Serial 5. 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. <p>The GeoTIFF map (or custom GeoTiFF map) is to be used for the remainder of the Evaluation.</p>	<p>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.</p>	
8	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;	R	P(Bid) Demonstration of Function	<p>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.</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 of TPS-2692 was</p>	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.	
9	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 7, 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.	
10	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	<p>Using the GeoTIFF map as per Serial 7, Node 1 must add the following items anywhere on the map with a separation of no more than 1km between each items:</p> <ul style="list-style-type: none"> - a waypoint; and - a quick symbol as specified in TPS-4819, of Volume 2, Annex CB, Appendix 1 – TPS. <p>Node 1 must display the MGRS 10 figure grid reference of the UTM map coordinate system of the two items.</p> <p>Node 1 can delete the two items.</p>	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.	
11	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	<p>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.</p> <p>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.</p> <p>TPS-1692 is evaluated as part of this procedure.</p>	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.	
12	TPS-2546	The Tactical User Interface must include a Text Entry capability.	M	P(Bid) Demonstration of Function	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 them to the Main data storage.	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that Node 1 uses the Text Entry capability to assign different names to the two routes created.	
13	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	The Bidder's proposed ISS-S will be deemed compliant if the Bidder is also compliant with the demonstration of	

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
					“Alt Route”.	TPS-1692 at Serial 13 and at Serial 19	
14	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	<p>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:</p> <ul style="list-style-type: none"> - “Right Flanking”; and - “Left Flanking”. <p>The Bidder must demonstrate how to access and operate the Hand Drawing capability.</p>	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.	
15	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 15 and at Serial 20.	
16	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.	R	P(Bid) Test of Function	<p>The power consumption test report and analysis provided with the bid in response to requirements TPS-4509 and TPS-4510 should 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 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 aforementioned 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>	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. 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.	2312
17	<p>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.</p> <p>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 7</p>						

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
	It is expected that Node 1 has kept its configuration and no intervention using the SEP-Suite is required.						
18	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 19 to Serial 37 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 22 to Serial 37 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 19 to Serial 37 inclusively for Node 1 and from Serial 22 to Serial 37 for Node 2, Node 3, Node 4 and Node 5 without the use of the SEP-Suite.	
19	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.	
20	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.	
21	<p>From Serial 22 to Serial 31, the Evaluation Team members are to operate Node 1 to Node 5 and execute the outlined demonstrations.</p> <p>For demonstrations from Serial 22 to Serial 31, the following topology and configuration must be used.</p> <p>The ISS-S Communication Network must be established with 5 x ISS-S with the following COI configuration:</p> <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 <p>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.</p>						
22	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	Node 1 must transmit the following voice message to COI A members: "Stations, confirm that you are ready" Node 2 and Node 3 must be the only stations to receive the voice message. Execute the following steps if the message from Node 1 has been received by Node 2 and Node 3: - Node 2 must transmit the following message: "Node 1, this is Node 2, I confirm that I am ready". - Node 3 must transmit the following message: "Node 1, this is Node 3, I	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.	

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
					confirm that I am ready". Using a separate switch, Node 1 must transmit the following voice message to 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.		
23	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.	
24	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	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
					is nothing significant to report". This procedure covers both TPS-5029 and TPS-5030.		
25	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
26	TPS-3098	The following ISS-S control device(s) should be operable with one hand: • 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
27	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	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". 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". Node 1 must generate two Quick Symbols on his/her Tactical User Interface display to Data COI C: - A Quick Symbol, 50 m to the East of Node 1 position. - A Quick Symbol, 50 m to the North of Node 1 position. 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. 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,	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.	

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
					Node 3 and Node 4.		
28	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.	R	P(Bid) Demonstration of Function	Node 1 should send a text message to one or more Node. The text to be sent is the following: “The eagle has landed”.	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-2422.	279
29	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
30	TPS-3098	The following ISS-S control device(s) should be operable with one hand: • 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-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
31	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	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. The following messages and data must be transmitted: - 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	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.	

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
					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.		
32	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.						
33	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	R	P(Bid) Demonstration of Function	TPS-959, TPS-960 and TPS-962 are evaluated as part of this procedure. For this demonstration, Node 2 is to be remotely zeroized by Node 1 and Node 3. The Bidder should prove that a minimum of 2 Nodes are required to complete the remote zeroization (TPS-960). 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. The Bidder should describe the steps involved in order to remotely zeroize the stored digital data of Node 2. 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. 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.	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: - 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
34	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	203

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
						Node 3 were required to remotely zeroize Node 2.	
35	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
36	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-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
37	TPS-954	The ISS-S must provide a zeroize function with the following characteristics: <ul style="list-style-type: none"> - 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 	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 digital data of Node 4.</p> <p>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.</p> <p>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.</p>	The Bidder's proposed ISS-S will be deemed compliant if the demonstration proves that the following conditions have been met: <ul style="list-style-type: none"> - 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. 	
38	TPS-5373	The ISS MLCS Platform, including any augmentation required to allow for the ISS-ES installation and cable/wire routing, must be	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.	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:	

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Serial	TPS Reference	Requirement Statement	Requirement Category	Evaluation Method	Instructions to Bidder	Evaluation Criteria and Scale	Max Score
		designed and built in accordance with Annex CB, Appendix 7, MLCS Platform TDP.				- Para 2.4 Design Deviation as is; - Para 2.5 Technical Evaluation - Workmanship and Construction applies with the following changes: a. Para 2.5.1, Only 10 samples (selected by DND) will be evaluated; 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; c. Para 2.5.2, A maximum of ten (10) workmanship and construction infractions will be accepted per sample; 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.	
39	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;	

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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
						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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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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1. UAPE in Basis of Selection

1.1 As outlined in volume 1, part 4 - UAPE will be used as a component of the basis of selection.

2. Conduct of the UAPE

2.1 The UAPE has been designed to evaluate the requirements of the User Acceptance Performance Specification (UAPS). Intuitiveness of the P(Bid) systems, bidder led training, bidder assisted test stands and dynamic high fidelity simulation of a combat mission have been selected, sequenced and focused so as to provide a methodology to evaluate the requirements of the UAPS.

2.2 Stages. As described in Volume 1, Annex CB, Appendix 2, Attachment 2, the UAPE takes place in three stages (Bidder Led Training Stand, Bidder Assisted Test Stands and the Dynamic Test Stand). The stages have been ordered for evaluation soldiers to progress through; training, individual tasks, complex tasks, up to a full representative mission, using a “walk-before-you-run” philosophy. Progressive testing prepares the evaluation soldiers for the completion of the final scoring questionnaire

2.3 Test Stands. At the conclusion of each Test Stand evaluation soldiers will be required to complete a focus questionnaire, facilitated by the UAPE Human Factor Observers (HFOs), designed to ensure they have considered the full range of HF conditions and factors covered as they relate to the UAPS requirements.

2.4 Scoring Questionnaire. Once a candidate P(Bid) system has completed all Stages and associated Test Stands on the last day of a UAPE block, evaluation soldiers will be required to individually fill-in the final scoring questionnaire at Volume 1, Annex CB, Appendix 2.

3. Scoring Methodology

3.1 Scoring will be completed in two phases.

3.2 Phase 1. Phase 1 will first determine if bidders met all of the mandatory requirements.

3.3 The evaluation will be based on the minimum mandatory acceptance level as prescribed at Column number 7 of the Table 3 – UAPE Mandatory Criteria Compliance Matrix. Bidders must note that failure to achieve the minimum mandatory acceptance level for each UAPS mandatory requirement will result in no further consideration being given to the bid.

3.4 Minimum mandatory acceptance level. Where the Requirement Statement in column number 3 of Table 3 – UAPE Mandatory Criteria Compliance Matrix, includes the statement: “must be acceptable to soldiers for use under operational conditions”, the Minimum Mandatory Acceptance Level has been established such that 60 % of the soldiers evaluating the system during the UAPE

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must rate it as a four (4) or higher on a seven (7) point Likert scale as detailed in the final scoring questionnaire. Failure to achieve the minimum mandatory acceptance level will result in a non-compliant bid.

3.5 Determination of minimum mandatory acceptance level. For each UAPS Requirement, compliance with the minimum mandatory acceptance level will be determined in the following manner:

- on the final scoring questionnaire each Evaluation Soldier will assign a rating from 1 to 7 against each UAPS requirement;
- the ratings from all Evaluation Soldiers will be compiled against each UAPS Requirement;
- the number of same ratings from 1 to 7 (i.e. number of scores of 4, number of scores of 5, etc) will be totaled;
- the total number of each rating will be used to determine compliance against the “acceptable to soldiers for use” minimum mandatory acceptance level criteria as illustrated in Section 3.6 below.

3.6 Example of Calculation of minimum mandatory acceptance level is provided at para 3.6.1 and 3.6.2 below.

3.6.1 Example Table for Requirement: Text Entry (UAPS 62)

Evaluator	Rating Scale from Final Scoring Questionnaire							Total
	1	2	3	4	5	6	7	
Soldier 1			x					
Soldier 2				x				
Soldier 3					x			
Soldier 4				x				
To								
Soldier 40					x			
Total # of Same ratings			6	14	20			40

Table 1 – Sample Calculation of minimum mandatory acceptance level

3.6.2 Calculation. For this example, the total number of evaluation soldier is 40. Based on the “Total # of same ratings” row, out of 40 evaluation soldiers, a total of 34 have evaluated the Text Entry Requirement with a rating of 4 or better. The acceptance level is therefore 34/40 or 85%. The acceptance level has been achieved.

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3.6.3 Rounding rules as applied to minimum mandatory acceptance level. In the event of a score between 59% and 60% we shall apply the two following rules: If the first decimal place digit is 4, 3, 2, or 1, simply drop all digits to the right of the whole number. If the first decimal place digit is 5, 6, 7, 8, or 9 add one (1) to the whole number and drop all digits to the right of it.

3.6.4 Bids that have been deemed compliant to all mandatory requirements will proceed to Phase 2.

3.7 **Phase 2.** Bids that have first been determined compliant based on having met all of the mandatory requirements as determined at Table 3 - UAPE Mandatory Criteria Compliance Matrix, will be rated in Phase 2 based on Table 4 – UAPE Rated Criteria Compliance Matrix. The assigned score will be determined in the following manner:

- a. Step 1. For each requirement, the Mean Score is calculated by calculating the Resulting Score for each rating and totaling the result. The Mean Score is then determined by dividing the Total Resulting Score by the number of evaluation soldiers. This is illustrated at Section 3.7.1 (Table 2). The Mean Score is entered in the Table 4 – UAPE Rated Criteria Compliance Matrix in Column 7 called “Mean Score”;
- b. Step 2. In order to reflect the relative merit of each UAPS Requirement, the Mean Score is then multiplied by the requirement weighting factor found in column 8 of the Compliance Matrix to produce the final maximum score for each requirement that is inserted in Column 9 called “Max Score”; and,
- c. Step 3. The Total Score of all requirements will be used in the Basis of Selection. This score will be noted at last row of the UAPE Compliance Matrix. This score will be entered into RFP Volume 1 Annex CJ table “Basis of Selection.”

3.7.1 UAPS Requirement: Text Entry score calculation example is presented at Table 2:

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Evaluators	Rating from Final Scoring Questionnaire							Total	Step
	1	2	3	4	5	6	7		
Soldier 1			x						
Soldier 2				x					
Soldier 3					x				
Soldier 4				x					
To									
Soldier 40					x				
Total # of Same ratings			6	14	20			40	
Resulting Score			18	56	100			174	1
Mean Score	The Mean Score is determined by dividing the Total Resulting Score by the Total Number of Evaluators							174/40 =4.35	
Max Score	The Max Score is determined by multiplying the Mean Score by the weighing factor from Column 8 of the Compliance Matrix. In this case 4.35 (Mean Score) x 6 (weighing factor for UAPS Text Entry) = 26.1							26.1	2
Total Score	This is the total of all the Final Requirement’s Scores Maximum Score 700							Not Shown	3

Table 2 – Sample Calculation of Final Score

4. UAPE Compliance Matrices.

4.1 The UAPE Compliance Matrices can be found at Tables 3 and 4 below. The Compliance Matrices will be filled out by the Crown at the completion of the UAPE.

TABLE 3 - UAPE Mandatory Criteria Compliance Matrix

1	2	3	4	5			6	7	8
Serial	Para	Requirement Statement	UAPS #	UAPE STAGES			Requirement Category	Min Mandatory Acceptance Level	Final Scoring Questionnaire Level
				Stage 1	Stage 2	Stage 3			
				Bidder Led Training Stand	Bidder Assisted Test Stands	Dynamic Test Stand			
	1	Hardware	UAPS-142						
	1.2	Input Device Usability	UAPS-60						
	1.2.1	Text Entry Capability	UAPS-61						
1	1.2.1.0-1	The text entry capability of the ISS-S must be acceptable to soldiers for use under operational conditions.	UAPS-62	Educate	TS 2	X	M	60%	
	1.2.3	Pointing / Selecting Controls	UAPS-64						
2	1.2.3.0-1	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.	UAPS-65	Educate	TS 3, 18	X	M	60%	
	1.2.4	Device Controls	UAPS-66						
3	1.2.4.0-1	The device controls (includes PTT and other hardware controls) of the ISS-S must be acceptable to soldiers for use under operational conditions.	UAPS-67	Educate	TS 3	X	M	60%	
	1.3	Displays	UAPS-69						
	1.3.1	Daytime Visual Display	UAPS-70						
4	1.3.1.0-1	The daytime visual display(s) of the ISS-S must be acceptable to soldiers for use under operational conditions.	UAPS-71	Educate	TS 5	X	M	60%	
	1.3.4	Voice Communications	UAPS-75						

1	2	3	4	5			6	7	8
Serial	Para	Requirement Statement	UAPS #	UAPE STAGES			Requirement Category	Min Mandatory Acceptance Level	Final Scoring Questionnaire Level
				Stage 1	Stage 2	Stage 3			
				Bidder Led Training Stand	Bidder Assisted Test Stands	Dynamic Test Stand			
5	1.3.4.0-1	The voice communication function of the ISS-S must be acceptable to soldiers for use under operational conditions.	UAPS-78	Educate	TS 14	X	M	60%	
	2	Software	UAPS-143						
	2.1	Graphical User Interface	UAPS-83						
	2.1.3	BMS Navigation	UAPS-87						
6	2.1.3.0-1	The BMS Navigation function of the ISS-S must be acceptable to soldiers for use under operational conditions.	UAPS-88	Educate	TS 12	X	M	60%	
	2.1.4	BMS Planning	UAPS-89						
7	2.1.4.0-1	The BMS planning function of the ISS-S must be acceptable to soldiers for use under operational conditions.	UAPS-90	Educate	TS 4	X	M	60%	
	2.1.5	BMS - PA/SA	UAPS-91						
8	2.1.5.0-1	The BMS position and situation awareness function of the ISS-S must be acceptable to soldiers for use under operational conditions.	UAPS-92	Educate	TS 11	X	M	60%	
	3	System Functionality	UAPS-144						
	3.6.2	Combat Load Configurability / Modularity	UAPS-101						
9	3.6.2.0-1	ISS-S combat load modularity/configurability must be acceptable to soldiers wearing the ISS-S, for use under operational conditions.	UAPS-102	Educate	TS 16	X	M	60%	
Table 3 – Total Score									

Table 4 – UAPE Rated Criteria Compliance Matrix.

1	2	3	4	5			6	7	8	9
Serial	Para	Requirement Statement	UAPS #	UAPE STAGES			Requirement Category	Mean Score	Weighting Factor	Max Score
				Stage 1	Stage 2	Stage 3				
				Bidder Led Training Stand	Bidder Assisted Test Stands	Dynamic Test Stand				
	1	Hardware	UAPS-142							
	1.1	System Assembly	UAPS-54							
	1.1.1	System Assembly	UAPS-145							
1	1.1.1.0-1	The system assembly of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	UAPS-153	Educate	TS 1		R		1	
	1.2	Input Device Usability	UAPS-60							
	1.2.1	Text Entry Capability	UAPS-61							
2	1.2.1.0-2	The text entry capability of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	UAPS-154	Educate	TS 2	X	R		6	
	1.2.2	Text Messaging	UAPS-63							
3	1.2.2.0-1	The communication text messaging function of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	UAPS-17	Educate	TS 2	X	R		6	
	1.2.3	Pointing / Selecting Controls	UAPS-64							
4	1.2.3.0-2	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.	UAPS-155	Educate	TS 3, 18	X	R		6	
	1.2.4	Device Controls	UAPS-66							
5	1.2.4.0-2	The device controls (includes PTT and other hardware controls) of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	UAPS-156	Educate	TS 3	X	R		6	
	1.3	Displays	UAPS-69							

1	2	3	4	5			6	7	8	9
Serial	Para	Requirement Statement	UAPS #	UAPE STAGES			Requirement Category	Mean Score	Weighting Factor	Max Score
				Stage 1	Stage 2	Stage 3				
				Bidder Led Training Stand	Bidder Assisted Test Stands	Dynamic Test Stand				
	1.3.1	Daytime Visual Display	UAPS-70							
6	1.3.1.0-2	The daytime visual display(s) of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	UAPS-157	Educate	TS 5	X	R		4.8	
	1.3.2	Night-time Visual Display Operation	UAPS-72							
7	1.3.2.0-1	The night-time operation of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	UAPS-158	Educate	TS 13	X	R		4.8	
	1.3.3	Audio Display Physical Design	UAPS-74							
8	1.3.3.0-1	The audio display(s) physical design of the ISS-S should achieve a high degree of user acceptance.	UAPS-9		TS 14	X	R		6	
	1.3.4	Voice Communications	UAPS-75							
9	1.3.4.0-2	The voice communication function of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	UAPS-159	Educate	TS 14	X	R		3.6	
	1.3.5	Natural Hearing Restoration	UAPS-76							
10	1.3.5.0-1	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.	UAPS-160	Educate	TS 14	X	R		2.4	
	1.3.6	Security / Stability	UAPS-146							
11	1.3.6.0-1	The security/stability of the ISS-S Audio Display canalphones should be completely acceptable to soldiers for use under operational conditions.	UAPS-161	Educate	TS 14	X	R		1.5	
	2	Software	UAPS-143							
	2.1	Graphical User Interface	UAPS-83							
	2.1.1	System-Level Graphical User Interface	UAPS-84							
12	2.1.1.0-1	The system-level Graphical User Interface of the ISS-S should be completely acceptable to soldiers	UAPS-162	Educate	TS 2,3,4,5,17,10,18	X	R		2.4	

1	2	3	4	5			6	7	8	9
Serial	Para	Requirement Statement	UAPS #	UAPE STAGES			Requirement Category	Mean Score	Weighting Factor	Max Score
				Stage 1	Stage 2	Stage 3				
				Bidder Led Training Stand	Bidder Assisted Test Stands	Dynamic Test Stand				
		for use under operational conditions.								
	2.1.2	User Interface Response Time	UAPS-86							
13	2.1.2.0-1	The ISS-S user interface response time should be completely acceptable to soldiers under operational conditions.	UAPS-46		TS 2,3,4,5, 17,10,18	X	R		1	
	2.1.3	BMS Navigation	UAPS-87							
14	2.1.3.0-2	The BMS Navigation function of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	UAPS-163	Educate	TS 12	X	R		6	
	2.1.4	BMS Planning	UAPS-89							
15	2.1.4.0-2	The BMS planning function of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	UAPS-164	Educate	TS 4	X	R		5.25	
	2.1.5	BMS - PA/SA	UAPS-91							
16	2.1.5.0-2	The BMS position and situation awareness function of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	UAPS-165	Educate	TS 11	X	R		3	
	2.1.6	Target Designation Usability	UAPS-94							
17	2.1.6.0-1	The target designation capability of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	UAPS-166	Educate	TS 10	X	R		2	
	2.1.7	Target Hand-off Usability	UAPS-96							
18	2.1.7.0-1	The target hand-off capability of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	UAPS-167	Educate	TS 10	X	R		2	
	3	System Functionality	UAPS-144							
	3.1	Mobility	UAPS-103							
	3.1.1	Mobility	UAPS-149							
19	3.1.1.0-1	While wearing the ISS-S, dismounted soldier	UAPS-168			X	R		2	

1	2	3	4	5			6	7	8	9
Serial	Para	Requirement Statement	UAPS #	UAPE STAGES			Requirement Category	Mean Score	Weighting Factor	Max Score
				Stage 1	Stage 2	Stage 3				
				Bidder Led Training Stand	Bidder Assisted Test Stands	Dynamic Test Stand				
		mobility should be completely acceptable to soldiers while under operational conditions.								
	3.2	Compatibility	UAPS-112							
	3.2.1	Personal Weapons Compatibility	UAPS-113							
20	3.2.1.0-1	The ISS-S should be completely acceptable to soldiers under operational conditions with C7A2 and 9mm pistol.	UAPS-169		TS 6	X	R		2	
	3.2.2	Platoon Weapons Compatibility	UAPS-115							
21	3.2.2.0-1	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).	UAPS-170		TS 6	X	R		1.5	
	3.2.3	PPE Compatibility	UAPS-117							
22	3.2.3.0-1	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.	UAPS-171		TS 7	X	R		1	
	3.2.4	Other Equipment Compatibility	UAPS-124							
23	3.2.4.0-1	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 and CTS ruck sack.	UAPS-172		TS 9	X	R		1	
	3.2.5	Vehicle Compatibility	UAPS-126							
24	3.2.5.0-1	The ISS-S should be acceptable to soldiers for use under operational conditions with the following vehicles: LUVW and LAV III.	UAPS-173		TS 15		R		1	
	3.2.6	CBRN Compatibility	UAPS-119							

1	2	3	4	5			6	7	8	9
Serial	Para	Requirement Statement	UAPS #	UAPE STAGES			Requirement Category	Mean Score	Weighting Factor	Max Score
				Stage 1	Stage 2	Stage 3				
				Bidder Led Training Stand	Bidder Assisted Test Stands	Dynamic Test Stand				
25	3.2.6.0-1	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.	UAPS-139		TS 7		R		1	
	3.3	Compatibility - Handwear	UAPS-150							
	3.3.1	Overall Handwear Compatibility	UAPS-120							
26	3.3.1.0-1	The ISS-S should be completely acceptable to soldiers under operational conditions with the in-service gloves.	UAPS-174		TS 8	X	R		1.5	
	3.3.2	Handwear - Audio Display Wired PTT	UAPS-140							
27	3.3.2.0-1	The ISS-S Audio Display Wired PTT Switch (as defined in TPS-4400) should be completely acceptable to soldiers for use under operational conditions with temperate combat gloves, Mortar gloves, and CBRN gloves.	UAPS-50	Educate	TS 8	X	R		1.0	
	3.3.3	Handwear - Audio Display Wireless PTT	UAPS-141							
28	3.3.3.0-1	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.	UAPS-123		TS 8	X	R		2	
	3.4	Fit and Adjustability	UAPS-105							
	3.4.1	Fit and Adjustability	UAPS-151							
29	3.4.1.0-1	The overall fit and adjustability of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	UAPS-175	Educate	TS 16	X	R		3	
	3.5	Comfort	UAPS-107							
	3.5.1	Body Physical Comfort	UAPS-108							
30	3.5.1.0-1	The overall impact of the ISS-S on body physical comfort (below the neck) should be completely	UAPS-176		TS 16	X	R		1.5	

1	2	3	4	5			6	7	8	9
Serial	Para	Requirement Statement	UAPS #	UAPE STAGES			Requirement Category	Mean Score	Weighting Factor	Max Score
				Stage 1	Stage 2	Stage 3				
				Bidder Led Training Stand	Bidder Assisted Test Stands	Dynamic Test Stand				
		acceptable to soldiers for use under operational conditions.								
	3.5.2	Head / Ear Physical Comfort	UAPS-137							
31	3.5.2.0-1	The overall impact of the ISS-S on head (including ears) and neck comfort should be completely acceptable to soldier under operational conditions.	UAPS-138	Educate	TS 14	X	R		2.25	
	3.5.3	Thermal Comfort	UAPS-110							
32	3.5.3.0-1	The overall impact of the ISS-S on thermal comfort should be completely acceptable to soldiers for use under operational conditions.	UAPS-111			X	R		0.5	
	3.6	Combat Load Compatibility	UAPS-98							
	3.6.1	Combat Load Accessibility	UAPS-99							
33	3.6.1.0-1	Overall combat load accessibility should be completely acceptable to soldiers wearing the ISS-S, for use under operational conditions.	UAPS-177		TS 16	X	R		1.5	
	3.6.2	Combat Load Configurability / Modularity	UAPS-101							
34	3.6.2.0-2	ISS-S combat load modularity/configurability should be completely acceptable to soldier for use under operational conditions.	UAPS-178	Educate	TS 16	X	R		1.25	
	3.6.3	Combat Load Capacity	UAPS-131							
35	3.6.3.0-1	Overall combat load capacity should be completely acceptable to soldiers wearing the ISS-S, for use under operational conditions.	UAPS-179		TS 16	X	R		1.25	
	3.6.4	ISS-S Component Modularity / Configurability	UAPS-134							
36	3.6.4.0-1	ISS-S component modularity/configurability should be completely acceptable to soldiers wearing the ISS-S, for use under operational conditions.	UAPS-135	Educate	TS 16	X	R		1	

1	2	3	4	5			6	7	8	9
Serial	Para	Requirement Statement	UAPS #	UAPE STAGES			Requirement Category	Mean Score	Weighting Factor	Max Score
				Stage 1	Stage 2	Stage 3				
				Bidder Led Training Stand	Bidder Assisted Test Stands	Dynamic Test Stand				
	3.7	Detectability	UAPS-128							
	3.7.1	Detectability	UAPS-152							
37	3.7.1.0-1	The overall impact of the ISS-S on detectability should be completely acceptable to soldiers, for use under operational conditions.	UAPS-180	Educate	TS 13	X	R		4	
	Table 4 – Total Score									

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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.

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.

2. Managerial Compliance Matrices

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2.1 To assist the Bidders in completing their response, a set of Managerial Compliance Matrices is provided. Bidders should include the matrices in their Section III – ISS-A Management Bid.

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.
- 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 found. References to Web pages are forbidden. The Bidder's proposal must be

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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.

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,

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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:

- 3.2.1.1 Experience in playing a leadership role in the management and delivery of Soldier System Projects;

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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.

3.3.4 Integrated Logistics Support Management. The Bidder must submit a draft Integrated Logistic Support Plan (ILSP), a draft Maintenance Plan, a draft Training Program Plan and should submit a Equipment Breakdown Structure (EBS) completed in the format specified by RFP Volume 2, Appendix 2 to Annex CC, DIDs LS-001, LS-005,

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LS-004 and CM-005 respectively. The Bidder should prepare these documents 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 EBS should represent the Bidder's P(Bid) system and should identify all LRUs that completely encompass all of the requirements of the ISS-S as detailed in the TPS of Appendix 1 to Annex CB to Volume 2. 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 should 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

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 should 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 should 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 should 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, preferably 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,

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.

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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:

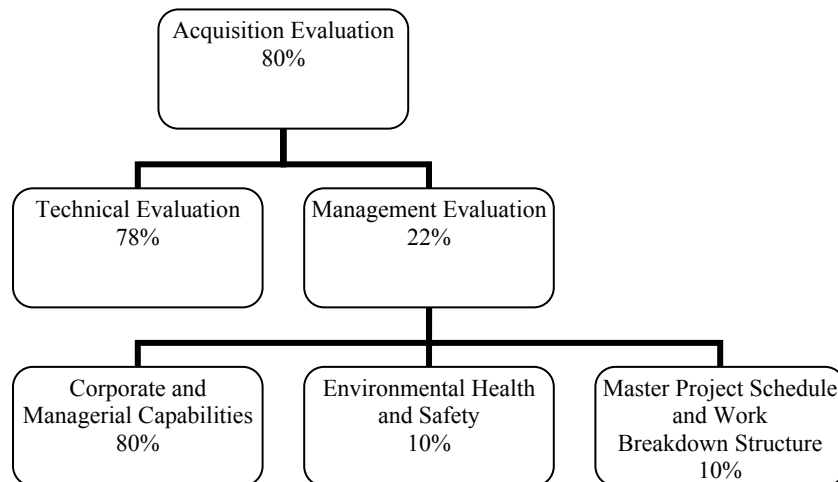


Figure 1 – Management Evaluation Topology and Weightings

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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.

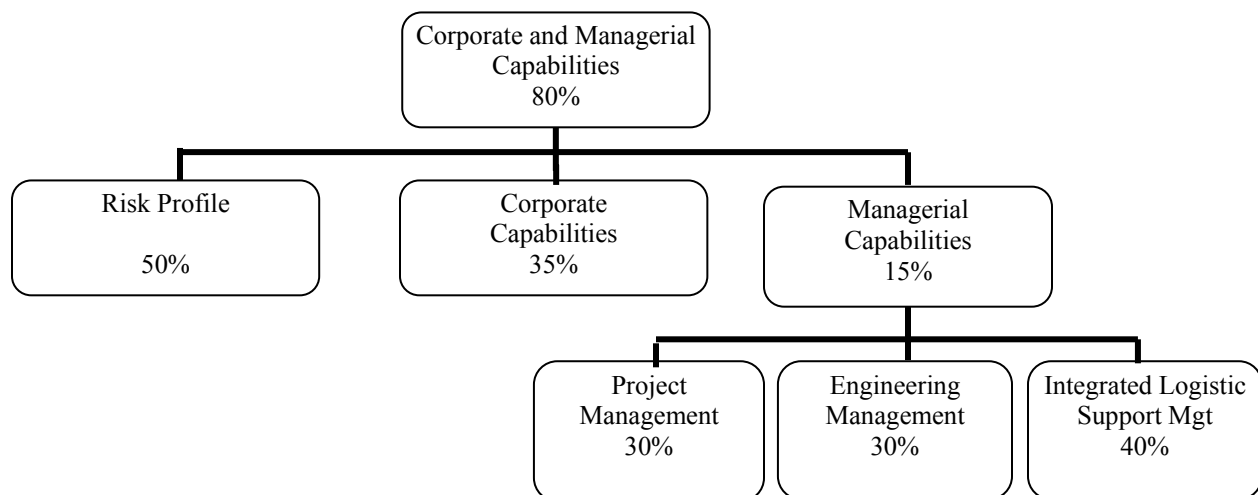


Figure 2 – Corporate and Managerial Capabilities Evaluation Topology and Weightings

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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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.

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.

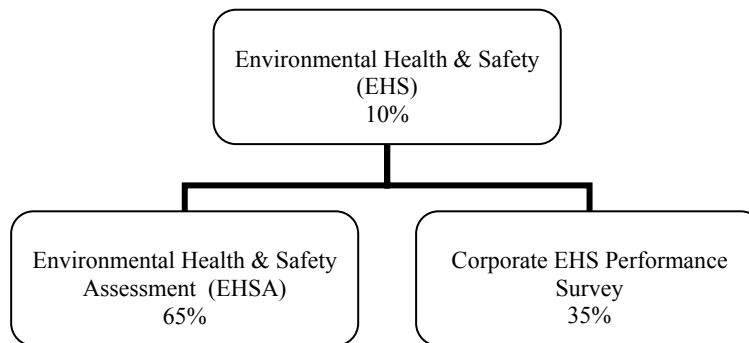


Figure 4 – EHS Evaluation Topology and Weightings

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.

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.</p> <p>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	<p>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:</p> <p>Dust particles smaller than 150 µm at a wind speed of 8.9 m/s, and</p> <p>Sand particles between 150 µm</p>	R	<p>For each of the Physical Device Hosting Function (PDHF) that follows:</p> <p>a. Communication.</p> <p>b. Computing.</p> <p>c. Tactical User Interface.</p> <p>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:</p> <p>Dust particles smaller than 150 µm at a wind speed of 8.9 m/s, and</p> <p>Sand particles between 150 µm to 850 µm in size at wind speeds up to 29 m/s.</p> <p>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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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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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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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> <ol style="list-style-type: none"> Communication. Computing. Tactical User Interface. 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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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
		(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%

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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
		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%

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%

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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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 1 Annex CE Appendix 1

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
							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%

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, 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%

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
		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%

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%

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 include all LRUs included in the EBS provided and describe the maintenance actions and associated tasks by type of maintenance (corrective, preventive) and line of	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%

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
		maintenance (where the maintenance action is done)?					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
		<p>6. Has your organization established, implemented and maintained an environmental management program to achieve its objectives and targets?</p> <p>7. Has your organization's management team ensured the availability and training of resources required for an effective environmental management?</p> <p>8. Provide a copy of your Emergency preparedness and Response Plan.</p> <p>9. Has your organization developed preventive and protective measures, such as the use of engineering controls, to mitigate environmental risks?</p>							
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.</p> <p>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
		<p>improvement in OHS management.</p> <p>2. Has your organization developed preventive and protective measures, such as use of personal protective equipment, to mitigate the OHS risks?</p> <p>3.Does your organization have a hazardous material inventory system in place?</p> <p>4. Does your organization have a hazardous material management program in place for their receipt, storage, use and disposal?</p> <p>If Yes a copy of the Hazardous material management program is to be submitted with this survey.</p> <p>5. Are the Bidder/Contractor employees currently trained on WHMIS (Workplace Hazardous</p>					<p>5. Yes – 10 pt No – 0 pt</p> <p>6. 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
		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	

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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	<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>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.</p>			<p>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).</p> <p>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.</p>		
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	<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</p>			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
				<p>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 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 electronic MS Project compatible file (project schedule) with their submission; and • The Bidder is to assume a contract start date of 01 December 2014 			<p>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%.</p> <p>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%.</p> <p>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</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
							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 working days 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:			Delivery ≤ 176 WDs = 100% 176 WDs < Delivery ≤ 220 WDs = 50% 220 WDs < Delivery ≤ 250 WDs = 20% Delivery > 250 WDs = 0%	440	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
				<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 electronic MS Project compatible file (project schedule) with their submission; andThe Bidder is to assume a contract start date of 01 December 2014.					
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 electronic MS Project compatible file (project schedule) with their submission; andThe Bidder is to assume a contract start date of 01 December 2014					
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 60% 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 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	
6.18	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	
6.19	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)	
6.20	The Bidder must achieve the minimum mandatory score of 60% of 1760 points on the evaluation of the MPS and WBS Management Compliance Matrix	RFP Vol 1 Annex CE, para 6.3.1	RFP Vol 1, Annex CE, Appendix 1, Table 5 (ID #5.5)	

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:

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.

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.

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.

- 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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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 Volume 1, Annex CD, paragraph 3.3.4.

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

exceptions noted below, are to be listed in this template and will be validated against the proposed EBS provided in response to Volume 1 Annex CD paragraph 3.3.4.

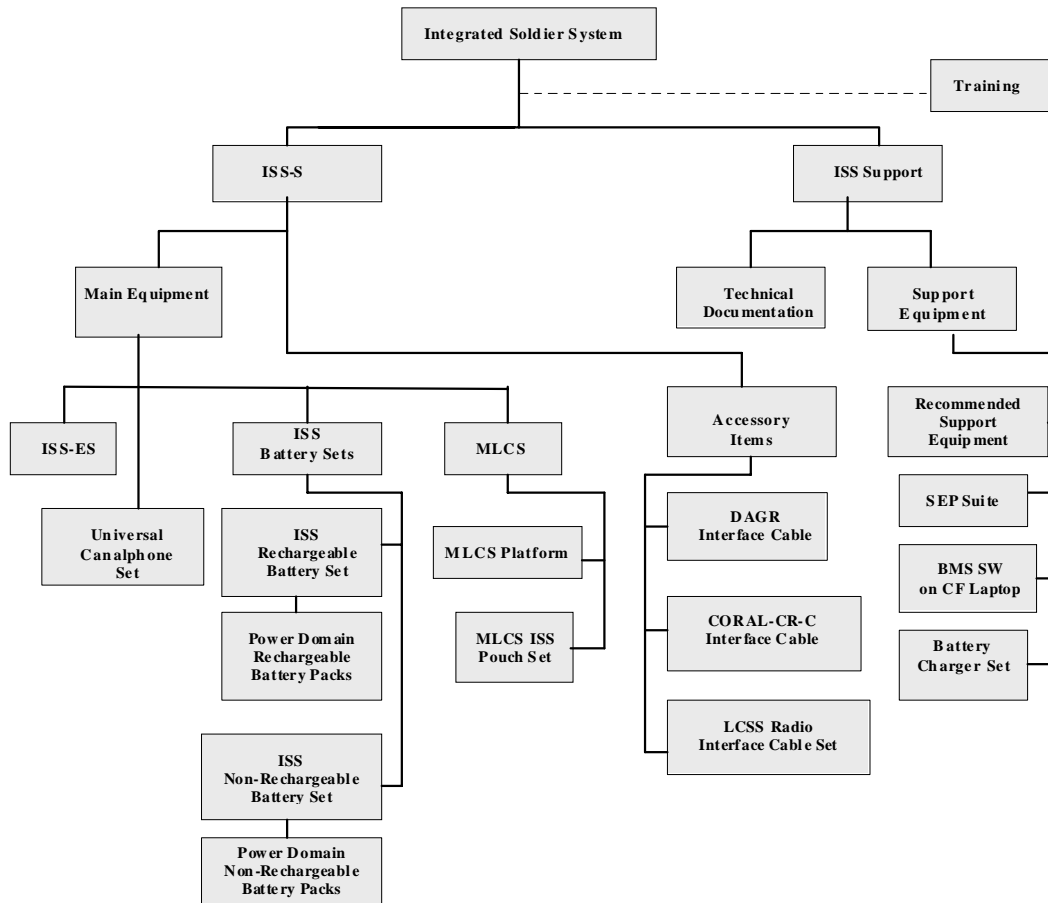


Figure 1 - ISS Equipment Deliverables Illustration

4.3 The Modular Load Carriage System (MLCS) Platform and ISS Pouch Set, and the Universal Canaphone 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 response to Volume 1 Annex CD paragraph 3.3.4. 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.

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.

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. The 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

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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

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:

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.

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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).

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	

Figure 3: Template 2 – Corrective Maintenance Data Template with Sample Data

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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.

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:

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.

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.

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

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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

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:

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

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.

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.

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:

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.

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.

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.

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:

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.

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.

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

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).

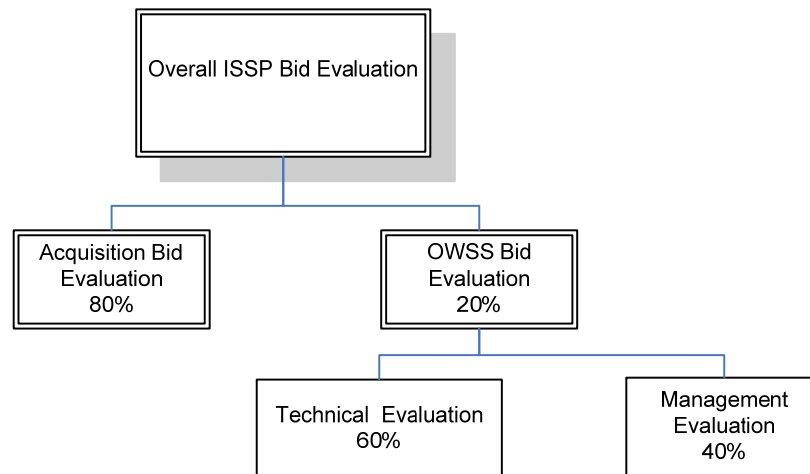


Figure 1 – OWSS Bid Evaluation Topology

- 1.2 Rated portions of the Technical Bid Proposal will be evaluated in five main categories as shown in Figure 2 below:

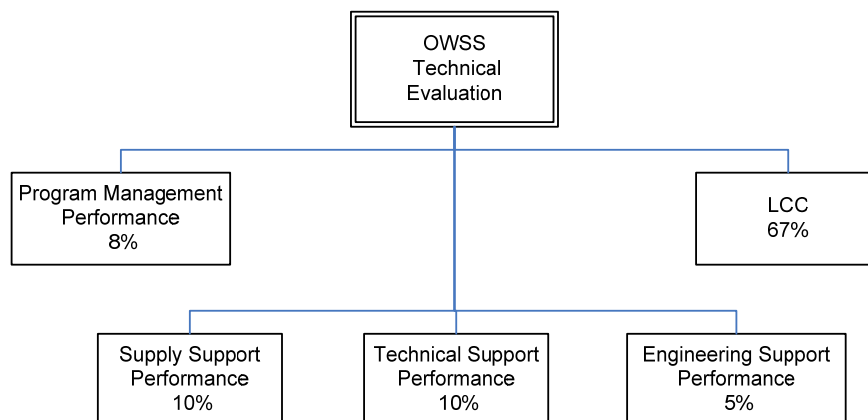


Figure 2 – OWSS Technical Bid Evaluation Topology

- 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:

- 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:

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.

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.

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.

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).

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

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.

- 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.

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

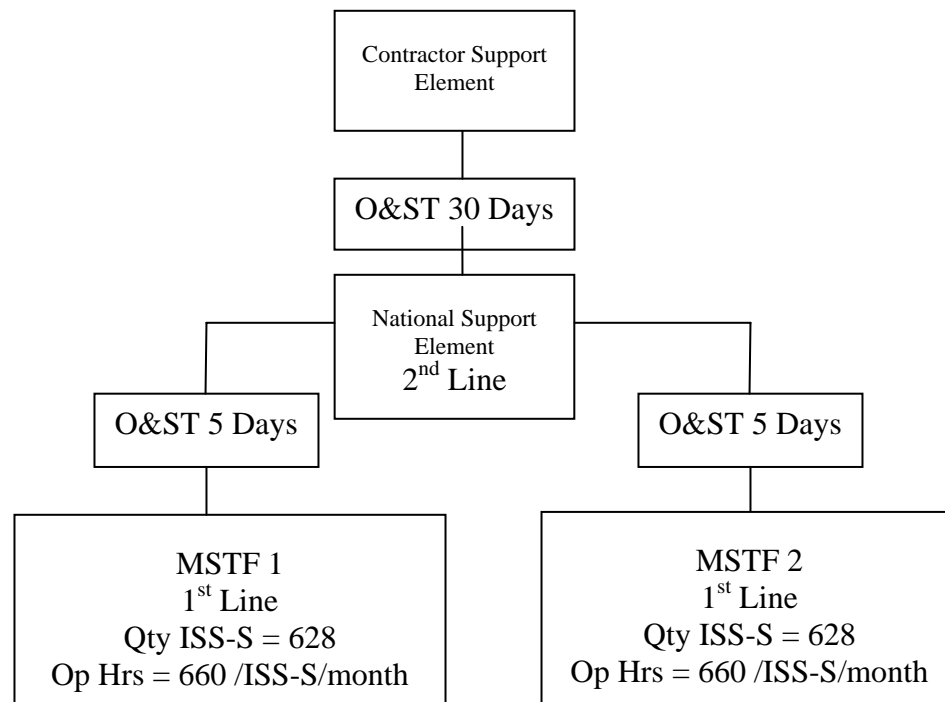


Figure 4 – Support Organization

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.

- 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

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".

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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>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>t ≤ 12 hrs: 100% 12 hrs < t ≤ 24 hrs: 80% 24 hrs < t ≤ 3 wds: 60% 3 wds < t ≤ 4 wds: 50% 4 wds < t ≤ 5 wds: 20%</p> <p>Process Description: Comprehensive description: 100% Partial description: 50% No description: 0%</p>	149	20%

Table 1 – OWSS Technical Performance Compliance Matrix

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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% $12 \text{ hrs} < t \leq 24$ hrs: 80% $24 \text{ hrs} < t \leq 2$ wds: 40% $2 \text{ wds} < t \leq 4$ 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% $24 \text{ hrs} < t \leq 2$ wds: 80% $2 \text{ wds} < t \leq 5$ wds: 40% $5 \text{ wds} < t \leq 10$ 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% $5 \text{ wds} < t \leq 10$ wds: 80% $10 \text{ wds} < t \leq 15$ wds: 40% $15 \text{ wds} < t \leq 20$ wds: 10%	161	10%

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Table 1 – OWSS Technical Performance Compliance Matrix

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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% $15 \text{ wds} < t \leq 20$ wds: 80% $20 \text{ wds} < t \leq 30$ wds: 40% $30 \text{ wds} < t \leq 60$ 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% $5 \text{ wds} < t \leq 10$ wds: 80% $10 \text{ wds} < t \leq 15$ wds: 60% $15 \text{ wds} < t \leq 20$ wds: 30% Process Description: Comprehensive description: 100% Partial description: 50%	594	30%

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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%

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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%

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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%		
1.4.2				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
				IAW Volume 1 Annex CD, paragraph 3.3.4 are included, with the exception of the MLCS Platform, MLCS ISS Pouch Set, Universal Canalphones and ISS Batteries; <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 CD, paragraph 3.3.4; 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	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 are properly filled in IAW the instructions of Appendix 1 to Annex CF to Volume 1; 			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"> • LRU Remove/Replace Time values the same as those in the Bidder's draft Maintenance Plan; • 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 					

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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
				provided in the Bidder's Financial Proposal and the Repair Capability (%) at Contractor.					
2.1.3	6.5	Template 3- Preventive 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 properly filled in IAW the instructions of Appendix 1 to Annex CF to Volume 1; • All technician performed 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.. 			<p>Yes – 100%</p> <p>Partial completion or some data not valid – 50%</p> <p>Not submitted – 0%</p>	241	
2.1.4	7.3	Template 4 - STTE Data Template	R	Template should be fully completed and validated IAW the following:			<p>Yes – 100%</p> <p>Partial completion or some data not valid – 50%</p>	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"> All data items properly filled in IAW the instructions of Appendix 1 to Annex CF to Volume 1; All DND 1st and/or 2nd line maintenance related STTE are entered and are the same as 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. 			Not submitted – 0%		
2.1.5	8.4	Template 5 – Non-Rechargeable Battery Cost Template	R	<p>Template should be fully completed and validated IAW the following:</p> <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 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 Non-Rechargeable Battery Pack consists of the same type of battery. No. of ISS Non-Rechargeable Batteries in Power Domain Battery Pack is the same as provided in the analysis and report provided in response to Appendix 			<p>Yes – 100%</p> <p>Partial completion or some data not valid – 50%</p> <p>No submission or Blank – 0%</p>	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
				<p>11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements.</p> <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	<p>Template should be fully completed and validated IAW the following:</p> <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 			<p>Yes – 100%</p> <p>Partial completion or some data not valid – 50%</p> <p>No submission or Blank – 0%</p>	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
				Procedure Requirements. <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	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. 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.			To qualify for Part 2 evaluation, Part 1 <u>must be fully completed and maximum points achieved</u> . The LCC Analysis Results Score will be determined as follows: <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 	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>a Score by calculating the ratio between the lowest LCC bid (of paragraph 1) and the LCC of the subject bid multiplied by 100% of points as described below:</p> $\frac{\text{Low LCC bid (of para 1)}}{\text{LCC of subject bid}} \times 100\% \text{ of pts}$ <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.

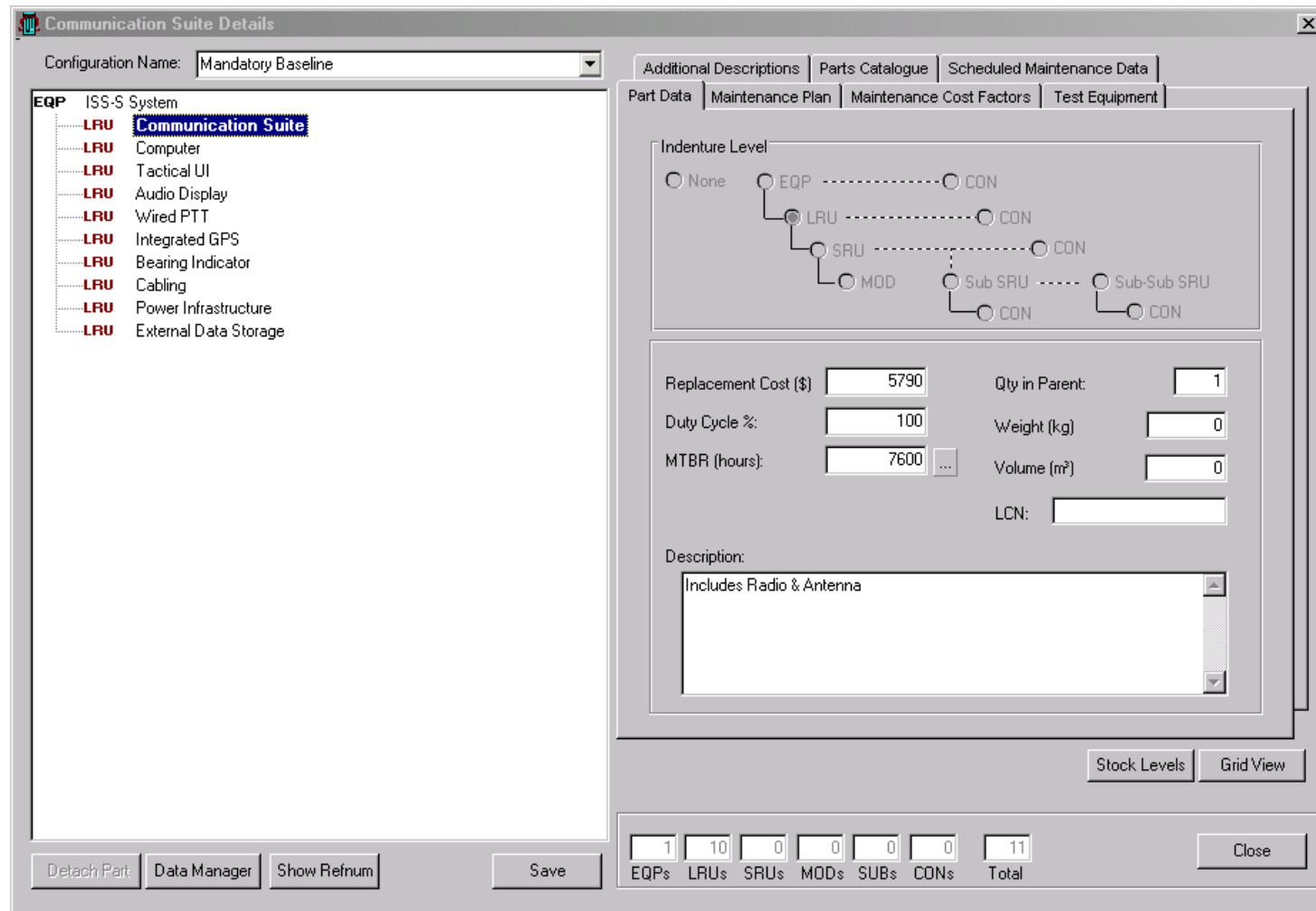


Figure 1 – ISS-S Equipment Breakdown Structure to LRU Level

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

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Sparing		LORA/LCC	
Repair Labour (hrs):	<input type="text" value="0.3"/>	<input type="text" value="0.75"/>	
Training Time (hrs):	<input type="text" value="0"/>	<input type="text" value="0"/>	
Use LOM (LORA only):	1st <input checked="" type="checkbox"/>	2nd <input checked="" type="checkbox"/>	4th <input checked="" type="checkbox"/>
<div></div>			
R/R Labour Time (hrs):	<input type="text" value="0.4"/>	R/R Training (hrs):	<input type="text" value="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
<p>Information for LORA and LCC analysis:</p> <p>Repair Material Cost %: <input type="text" value="5"/> New item in inventory <input type="checkbox"/></p> <p>Maintenance Documentation (pages): <input type="text" value="0"/></p> <p>Contractor Repair Cost %: <input type="text" value="50"/></p> <p>Lines of Maintenance Software: <input type="text" value="0"/></p> <p>Transportation Route: <input type="text" value="Default"/></p>		
<p>Sparing Data</p> <p>Mission Impact (%): <input type="text" value="100"/> Undistributed Stock: <input type="text" value="0"/></p>		
<p>LSAR Information</p> <p>SMR Code: <input type="text"/></p> <p>LRU Indicator: <input type="text"/></p>		

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.

Part Data		Maintenance Plan		Maintenance Cost Factors		Test Equipment	
Additional Descriptions		Parts Catalogue		Scheduled Maintenance Data			
Scheduled Maintenance Data							
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.

Stock

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.

Support Organization

Config Name: **SUPPORT ORGANIZATION**

ISS-S Rescope Basic V2

- CONTRACTOR
 - 2< National Support Element
 - 1< MSTF 1
 - P< ISS-S Basic Core
 - 1< MSTF 2
 - P< 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
Number of Sites	1	2	6

Figure 7 – Support Organization with 2nd Line Data

Support Organization

Config Name: SUPPORT ORGANIZATION

ISS-S Rescope Basic V2

- CONTRACTOR
 - National Support Element
 - MSTF 1
 - ISS-S Basic Core
 - 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

Add Peer
Add PE
Delete
Save
PE Buildup

Global Settings

Update
Close

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.

Support Organization

Config Name:

ISS-S Mandatory Reqs V3

- CONTRACTOR
 - 2< National Support Element
 - 1< MSTF 1
 - ISS-S Basic Core
 - 1< MSTF 2
 - ISS-S Basic Core

PE Details

PE Name: Ao Target:

Training Ratio: *

Avg Work hrs/Mo/Tech: * Operating Months/Year: *

Maintenance Turnover (%/Yr): * Labour Rate: *

* - 0 values default to Global Echelon Settings

PE Details

Qty PE: Operating Hours/PE/month:

Notes

Totals

2nd	1st	Total
<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="6"/>

Number of Sites

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.

Section	Field	Value
Administration and Support Costs (\$)	Initial Supply Admin Cost:	0
	Recurring Supply Admin Cost:	0
	Training Cost (\$/person/day)	0
Inflation Rates	Consumables:	0
	Manpower:	0
	Maintenance:	0
	Transport:	0
	Administration:	0
Maintenance Documentation Cost (\$)	Cost Per Page For Original Documentation:	0
	Cost Per Page For Translation:	0
	Cost Per Line For Maintenance Software:	0
	Cost Per Page For Doc Update:	0
	Document Update Rate %:	0
	Cost Per Page For Doc Reprinting:	0
Labour Rates (\$)	Scheduled Maintenance Labour Rate:	85
	Labour Rate at PE Site:	85
	Labour Rate at First Lines:	85
	Labour Rate at Second Lines:	85

OK Cancel

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.

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)
 mins.

Contractor Costs:
Ordering cost per item
Holding cost per item

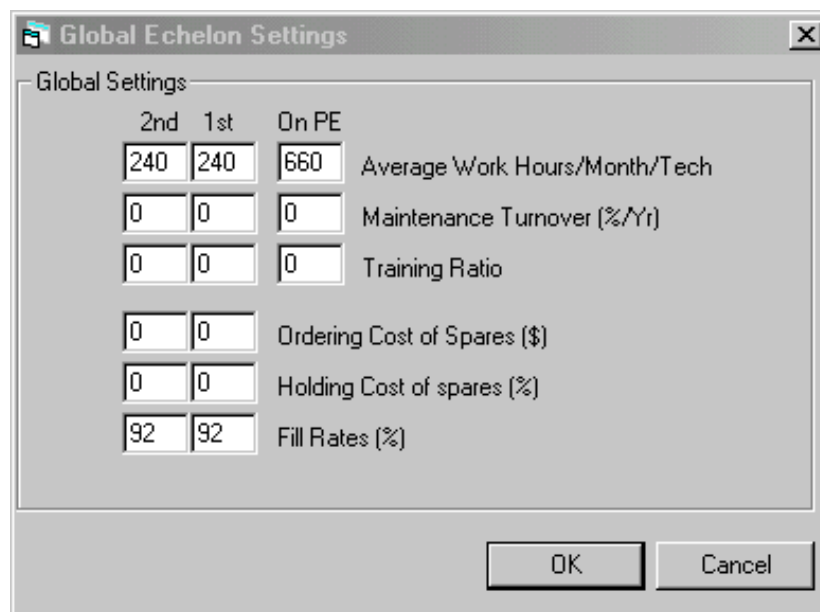
Analyzer Settings:
Maximum number of equipment indentures:
Number of support echelons:
Number of working hours in a calendar day:

Unit Symbols:
Currency:
Weight:
Distance:
Volume:

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.



The image shows a software dialog box titled "Global Echelon Settings". It contains a table of settings for three categories: 2nd, 1st, and On PE. The settings include Average Work Hours/Month/Tech, Maintenance Turnover (%/Yr), Training Ratio, Ordering Cost of Spares (\$), Holding Cost of spares (%), and Fill Rates (%). The values for 2nd and 1st are generally 240, 0, 0, 0, 0, and 92 respectively. The value for On PE is 660, 0, 0, 0, 0, and 92. There are OK and Cancel buttons at the bottom right.

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		Ordering Cost of Spares (\$)
0	0		Holding Cost of spares (%)
92	92		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		Support Equipment	
First Factors		Second Factors	
Item Costs		Inflation Rates	
Unit MTBF's		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

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.

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
Value	100	0	0	0	0	0	0	0

Cost Factors

Use?	Factor One Name	Factor
<input type="checkbox"/>		0
Use?	Factor Two Name	Factor
<input type="checkbox"/>		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	0

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'.
- Buttons:** 'New', 'Edit', 'Delete'.
- 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' and an 'Enter Spares Costs' button)
 - ☐ Fixed Spares Cost
 - ☐ No Spares
- Logistics Cost:**
 - ☒ Replacement Cost
 - ☐ Shipping Volume
 - ☐ Shipping Weight
- Bottom Buttons:** 'Sparing', 'LCC', 'LORA', 'Cancel'.

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

Administration0.00%

Maintenance0.00%

Transport0.00%

Consumables0.00%

Manpower0.00%

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.

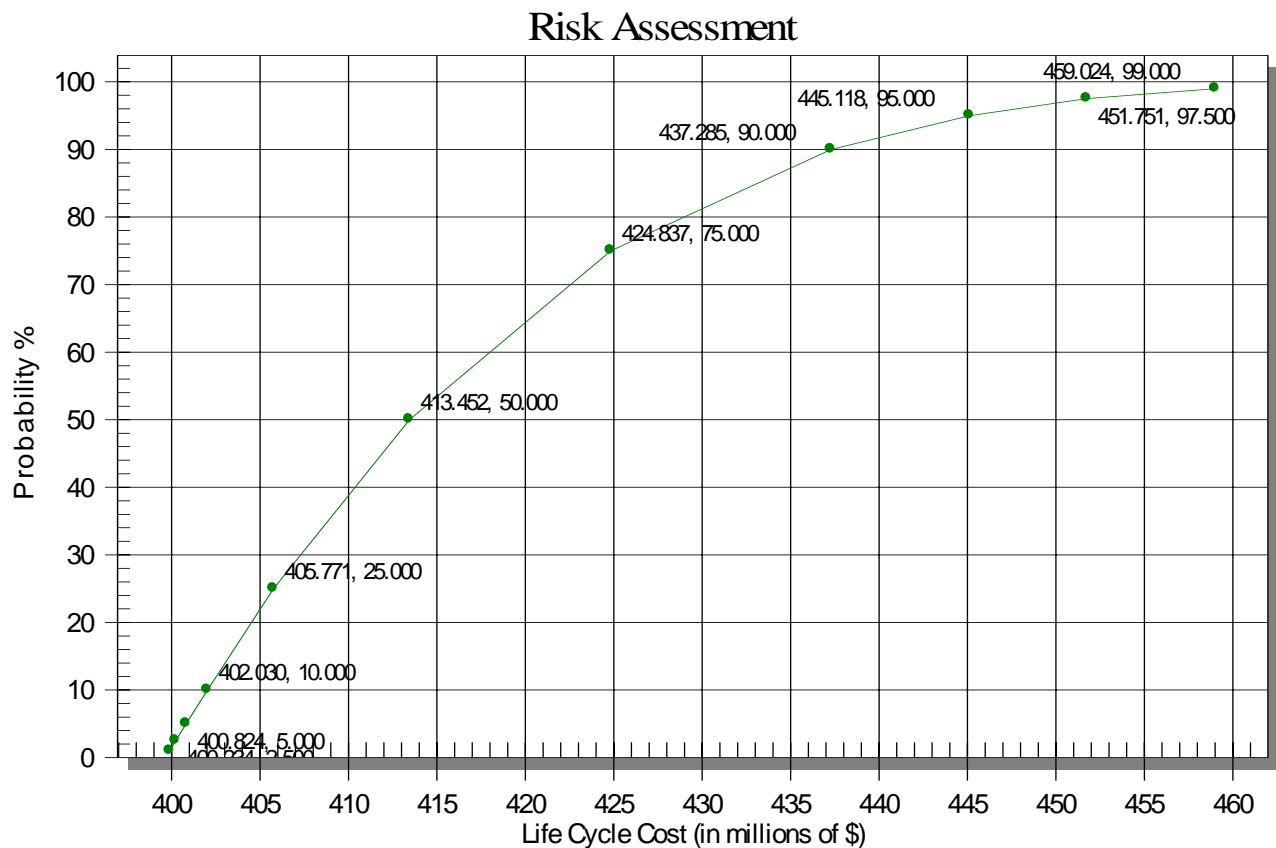


Figure 20 – Cumulative Distribution of the LCC

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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.

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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.

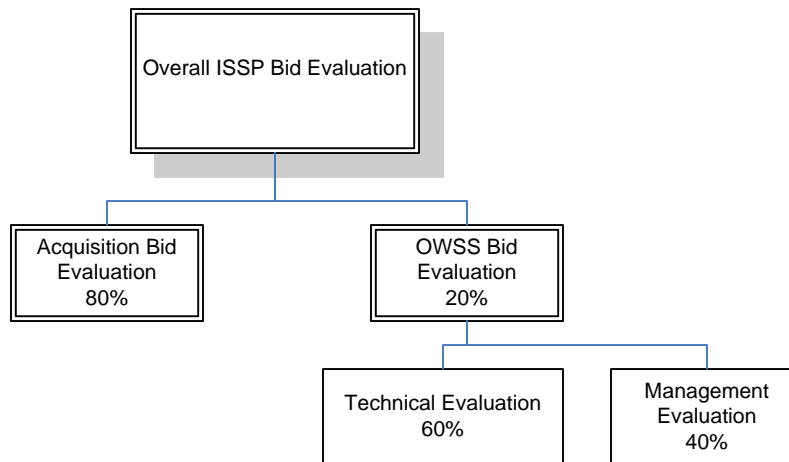


Figure 1 – OWSS Bid Evaluation Topology

- 1.2. Proposals will be evaluated in four main categories as shown in figure 2 below.

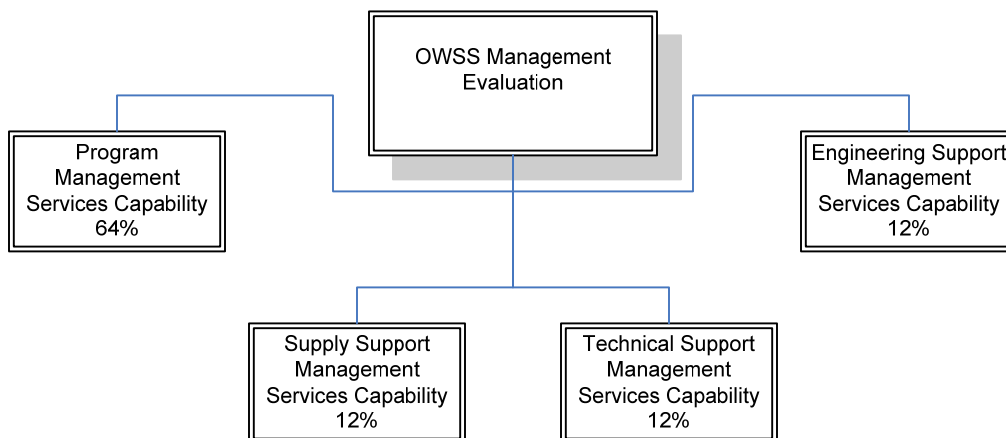


Figure 2 – OWSS Management Evaluation Topology

- 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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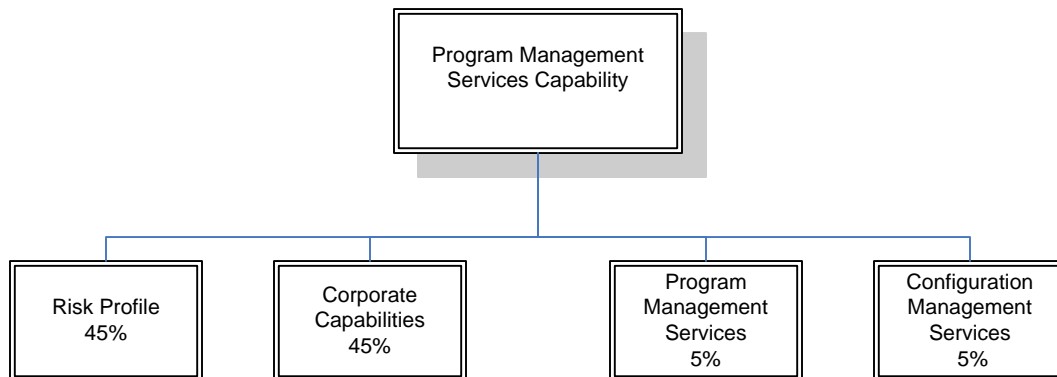


Figure 3 – Program Management Services Capability Evaluation Topology

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 planned 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 planned 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

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%

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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 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

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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
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

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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

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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%

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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	
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	700	
Total UAPE Score		700	