

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

Volume 2

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

VOLUME 2

**RESULTING CONTRACT FOR THE
INTEGRATED SOLDIER SYSTEM ACQUISITION (ISS-A)**

“THIS DOCUMENT CONTAINS A SECURITY REQUIREMENT”
(See article 3.0)

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PART 7 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract for the acquisition of the Integrated Soldier System (ISS), resulting from the bid solicitation.

1. Requirement

1.1. Statement of work

1.1.1. The Contractor must supply to the Department of National Defence the goods and services described in the Contract in accordance with, and at the prices set out in, the Contract. The Contractor must perform the requirement into two phases respectively called Phase A (Qualification) and Phase B (Production).

1.1.2. With the requirement's Phase A, the Contractor must provide: project management, engineering and support services for the conduct of the ISS Qualification Program, the System Acceptance Test (SAT) including mission level field qualification, the Final Qualification Review, preliminary logistics supportability analysis and development, and Configuration Management leading to the establishment of the Production Baseline to be completed in accordance with contract article 4.1.

1.1.3. After Canada exercises the option to proceed with the Phase B (Production) in accordance with contract article 4.2, the Contractor must provide a firm quantity of ISSs in pre-determined batches totaling one thousand six hundred (1,600) units with accessories, and associated preliminary Integrated Logistics Support (ILS) such as technical documentation, training and initial provisioning of spares.

1.1.4. Upon exercising the option to proceed with the Phase B (Production), and for a period of three (3) years, Canada has the option to purchase up to an additional five thousand twenty four (5,024) ISS-Suites in accordance with contract article 4.3.

1.1.5. Without limiting any of its other obligations under this Contract, the Contractor must:

- a. Perform the Work in accordance with Module C of the contract.
- b. Provide the Industrial and Regional Benefits in accordance with the commitments set out in Module B of the contract.

1.1.6. The Contractor agrees to accept and be bound by Canada's interpretation of the meaning of the specifications.

1.1.7. The ISS-Suite (ISS-S) must be the Contractor's ISS-S P(Bid) used in the User Acceptance Performance Evaluation (UAPE), modified by the Contractor as required and qualified during Phase A in order to demonstrate it meets all of the ISS Performance Specifications requirements and become P(SAT), and successfully accepted after FQR to become P(Prod). While the

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Contractor must implement its final ISS-S solution based on its proposal and ISS-S P(Bid), it is understood that, in the event that the implementation of that Proposal in respect to a particular ISSP requirement does not result in such a requirement being met, the Contractor shall remain responsible for carrying out such alternative modifications to the ISS-S P(Bid) and/or incorporating such alternative equipment, at its own cost, as will be required to meet the ISSP requirement involved.

1.1.8. Despite any other condition of the Contract, the Contractor is only authorized to perform the Work required to complete the requirement Phase A of the Contract at a cost of \$_____ (*NOTE: Canada to insert the amount at contract award*).

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

1.2. Work Authorization (WA)

1.2.1. WA Instruments

This Contract contains the requirement for the Department of National Defence (DND) to authorize the Contractor to perform work on an if, as, and when requested basis using the terms and conditions of the Contract. DND will issue different types of work authorizations such as DND626 Task Authorization and Spare Parts Order (SPO) to authorize the work to be performed.

1.2.2. Approval limitation of WAs:

1.2.2.1. Spare Parts Order (SPO) Limit:

DND is not authorized to issue SPO. PWGSC shall approve all SPOs.

1.2.2.2. Task Authorization Limit:

DND may authorize individual Task Authorizations up to a limit of \$125,000.00 CAN, Goods and Services Tax or Harmonized Sales Tax included, inclusive of any revisions. Any task authorization to be issued in excess of that limit must be authorized by the Contracting Authority before issuance. Furthermore, the Contracting Authority shall approve any Task Authorizations where the cost estimate for material is in excess of \$25,000.00 CAN Goods and Services Tax or Harmonized Sales Tax included, inclusive of any revisions.

1.2.3. Work Authorization Process:

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The process to be followed in the issuance of Work Authorizations (WA) is as follows:

- i. The Technical Authority prepares a Statement of Work (SOW) describing the work;
- ii. The DND Requisitioning Authority verifies that the work required is within the scope of the Contract;
- iii. The DND Requisitioning Authority submits the SOW to the Contractor and requests a Task Proposal;
- iv. The Contractor must, within fifteen (15) working days upon receipt of the proposed work, provide a proposal and/or notify the DND Requisitioning Authority of the status of the proposal for the proposed work. Should the fifteen (15) working days period not be sufficient the Contractor must submit the proposal within a time period that is mutually acceptable to DND Requisitioning Authority and the Contractor.
- v. The Contractor reviews, or prepares and submits in writing a proposed SOW, as may be required, which defines the scope of the work, starting and completion dates, phased deliveries of work packages and deliverables and the level of effort (LOE) to complete the work, including details of the labour categories to the DND Requisitioning Authority, using the financial tools available in the Contract. Furthermore the Contractor must, when applicable, provide the impact of that work on the entire project in term of scope, schedule, costs and IRB Commitments. The Contractor will not be paid for providing the quotation or for providing other information required to prepare and issue the WA;
- vi. The DND Requisitioning Authority reviews the LOE quote, negotiate with the Contractor and insert in the WA form the appropriate "Price and terms of payment" as per contract articles 6.1.3 and 6.2.4.
- vii. The DND Requisitioning Authority reviews the LOE quote with the Technical Authority and seeks approval to proceed;
- viii. If the LOE quote is within the DND work approval ceiling, the DND Requisitioning Authority signs the WA form and forwards copies to the Contractor and the PWGSC Contracting officer;
- ix. If the quote exceeds DND Requisitioning Authority's work approval ceiling, the WA form will be passed to the PWGSC Contracting officer for review and approval/signature prior to DND releasing it to the Contractor;
- x. Amendments to the WA form require completion of a WA amendment form. The DND Requisitioning Authority approves WA where the amended value is within the threshold established in the Contract article 1.2.2. Any amendment that exceeds the threshold must be passed to the PWGSC Contracting officer for review and approval/signature before the DND Requisitioning Authority releases it to the Contractor.
- xi. The Contractor must not begin work before receiving the approved WA form.

1.2.4. Task Authorization - Department of National Defence

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The administration of the Task Authorization process will be carried out by the Requisitioning Authority. This process includes monitoring, controlling and reporting on expenditures of the contract with task authorizations to the Contracting Authority.

2. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the *Standard Acquisition Clauses and Conditions* Manual issued by Public Works and Government Services Canada (PWGSC). The Manual is available on the PWGSC Website:

<http://sacc.pwgsc.gc.ca/sacc/index-e.jsp>.

2.1. General Conditions

2.1.1. 2030 2011-05-16, General Conditions - Higher Complexity - Goods, apply to and form part of the Contract;

2.1.2. Warranty - Contractor responsible for all costs

Section 22 entitled Warranty of general conditions 2030 is amended by deleting subsections 3 and 4 in its entirety and replacing it with the following:

“3. The Work or any part of the Work found to be defective or non-conforming will be returned to the Contractor's plant for replacement, repair or making good. However, when in the opinion of Canada it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these Costs.

4. The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant pursuant to subsection 3. The Contractor must also pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location directed by Canada.

All other provisions of the warranty section remain in effect.”

2.2. Supplemental General Conditions

2.2.1. 4003:

2.2.1.1. 4003 2010-08-16, Licensed Software, apply to and form part of the Contract.

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2.2.1.2. Section 12 of 4003, Licensed Software, is amended as follows:

DELETE in its entirety: 12 3 (b);

2.2.1.3. Sections 14 and 15 of 4003 Licensed Software, are amended as follows:

DELETE “ninety (90) days”;

INSERT “one (1) year”;

2.2.1.4. Section 16 of 4003, Licensed Software, is amended as follows:

DELETE in its entirety: 16

INSERT in lieu: “16. The Contractor must, within ninety (90) days following the date of the contract amendment exercising the option to proceed with the Phase B (Production), deliver the source code for the BMS, the SEP-S and, any non COTS/MOTS software and documentation that were developed to allow the ISS components to act as an integrated system to an escrow agent approved by Canada, to be held in trust by that agent, for release to Canada upon the occurrence of any of the following events:

- (i) Canada terminates either the Contract or any subsequent support or development arrangement relating to the Software for default;
- (ii) the Contractor or its supplier ceases to do business or ceases to make support or development services in relation to the Software reasonably available to Canada;
- (iii) the Contractor or its supplier becomes bankrupt or insolvent, makes an assignment for the benefit of creditors, or takes the benefit of any statute relating to bankrupt or insolvent debtors;
- (iv) a receiver is appointed for the Contractor or its supplier under a debt instrument, or a receiving order is made against the Contractor or its supplier; or
- (v) an order is made or a resolution passed for the winding up of the Contractor or its supplier.

2. The source code delivered by the Contractor to any escrow agent, must contain a complete description of the operation of that Software in sufficient detail to enable a programmer, experienced

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in the programming language or languages in which the source code is written, to modify all aspects of that software without assistance from the Contractor. The Contractor must ensure that the source code in the possession of the escrow agent is updated from time to time to correspond with the most current version of the object code in the possession of Canada.”

2.2.2. 4006 2010-08-16, Contractor to Own Intellectual Property Rights in Foreground Information, apply to and form part of the Contract.

3. Security Requirement for Canadian supplier

3.1. The Contractor must, at all times during the performance of the Contract, hold a valid Facility Security Clearance at the level of **SECRET**, with approved Document Safeguarding at the **SECRET** level, issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC) as well as Communications-Electronic Security (COMSEC) account at the level of **SECRET**, issued by Information Technology Services Branch (ITSB), PWGSC.

3.2. The Contractor personnel requiring access to **PROTECTED/CLASSIFIED (NON-RESTRICTED)** information, assets or sensitive work site(s) must each hold a valid personnel security screening at the level of **SECRET**, granted or approved by the CISD, PWGSC. Until the security screening of the Contractor personnel required by this Contract has been completed satisfactorily by the CISD, PWGSC, the Contractor personnel **MAY NOT HAVE ACCESS** to **PROTECTED/CLASSIFIED** information or assets, and **MAY NOT ENTER** sites where such information or assets are kept, without an escort.

3.3. The Contractor personnel requiring access to **PROTECTED/CLASSIFIED (RESTRICTED)** information, assets or sensitive work site(s) **must be a citizen of Canada or the United States and EACH** hold a valid personnel security screening at the level of **SECRET**, granted or approved by the CISD, PWGSC. Until the security screening of the Contractor personnel required by this Contract has been completed satisfactorily by the CISD, PWGSC, the Contractor personnel **MAY NOT HAVE ACCESS** to **PROTECTED/CLASSIFIED** information or assets, and **MAY NOT ENTER** sites where such information or assets are kept, without an escort.

3.4. The Contractor personnel requiring access to **NATO UNCLASSIFIED** information or assets do not require to hold a personnel security clearance; however, the Contractor must ensure that the NATO Unclassified information is not releasable to third parties and that the "need to know" principle is applied to personnel accessing this information.

3.5. The Contractor personnel requiring access to **FOREIGN PROTECTED/CLASSIFIED** information, assets or sensitive work site(s) must **EACH** hold a valid personnel security screening at the level of **SECRET**, granted or approved by the CISD, PWGSC. Until the

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security screening of the Contractor personnel required by this Contract has been completed satisfactorily by the CISD, PWGSC, the Contractor personnel **MAY NOT HAVE ACCESS** to **FOREIGN PROTECTED/CLASSIFIED** information or assets, and **MAY NOT ENTER** sites where such information or assets are kept, without an escort.

3.6. The Contractor personnel requiring access to **COMSEC** information/assets **must be a Canadian citizen**, hold a valid security clearance commensurate with the information/assets that will be accessed, have a need-to-know and have undergone a **COMSEC** briefing and signed a **COMSEC** Briefing certificate. Access by foreign nationals or resident aliens must be approved by the Head IT Security Client Services at CSEC on a case-by-case basis.

3.7. Processing of **PROTECTED/CLASSIFIED** information electronically at the Contractor's site is **NOT** permitted under this Contract.

3.8. Subcontracts which contain security requirements are **NOT** to be awarded without the prior written permission of CISD/PWGSC.

3.9. The Contractor must comply with the provisions of the:

- (a) Security Requirements Check List and security guide (if applicable), attached at Annex AC;
- (b) Industrial Security Manual (Latest Edition).

NOTE: Keying material and associated devices bearing (or intended to bear) the caveat, "CRYPTO", are subject to special safeguards at all times, whether: in bulk storage; in custody at user locations; in current use; or awaiting destruction. Keying Material must be stored in a locked, approved security container, in an area protected by security guards or by an intrusion-detection system when left unattended by COMSEC account personnel or authorized users.

4. Term of Contract

4.1. Delivery of ISS Acquisition Contract's Phase A (Qualification)

The complete delivery of the Phase A work must be within 9 months from contract award date. The Phase A order date is the contract award date. Payments are in accordance with contract articles 6.1.1, 6.2.1 and 6.2.2.

4.2. Optional Goods and/or Services (Contract Phase B (Production))

4.2.1. The Contractor grants to Canada the irrevocable option to proceed with the Phase B (Production) and therefore acquire the goods, services or both described at article 4.2.3 of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority by completing this article paragraph

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4.2.2, through a contract amendment. The Contracting Authority may exercise the option following Phase A successful FQR completion.

4.2.2. As aforesaid, on _____, *(NOTE: Canada may insert, following Phase A successful FQR completion, the contract amendment date exercising the option to proceed with the Phase B (Production))* Canada exercises the option to proceed with the Phase B (Production) and therefore acquire the goods, services or both described at article 4.2.3 of the Contract.

4.2.3. Delivery of ISS Acquisition Contract's Phase B (Production):

4.2.3.1. The complete delivery of the Phase B (Production) work must be within 220 working days from contract amendment date exercising the option to proceed with the Phase B (Production). Payments will be in accordance with contract articles 6.1.1 and 6.2.3.

4.2.3.2. The complete delivery of each Phase B (Production) deliverables described in the table 1 below, column **"Order's Deliverables Name"** should be within the number of working days, as stipulated in that table **"COLUMN A"**, from contract amendment date exercising the option to proceed with the Phase B (Production). The Phase B (Production) deliverables are fully detailed in Annex CF "Contract Deliverables List".

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

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

4.3. Option to purchase

4.3.1. The Contractor hereby grants to Canada an irrevocable option to purchase, for three (3) years from contract amendment date exercising the option to proceed with the Phase B (Production), upon the terms and conditions of this Contract, up to an additional five thousand twenty four (5,024) ISS-Suites as complete system or component by component with accessories up to the maximum quantities stipulated in Appendices 1 and 2 to Annex AB Basis of Payment. This option may be exercised in whole or in multiple purchases provided that the aggregate of all purchases does not exceed the maximum quantities stipulated in Appendices 1 and 2 to Annex AB Basis of Payment. The exercise(s) of this option may only be done by the Contracting Authority through contract amendment(s). The Contractor agrees that it will be paid in accordance with the same conditions and at the prices and/or rates stated in the Contract. Payments are in accordance with contract articles 6.1.1 and 6.2.3. The purchases are on an if, as, and when requested basis and Canada makes no representation that it will exercise any part of this option.

A year is a period from contract amendment date anniversary exercising the option to proceed with the Phase B (Production) to next contract amendment date anniversary exercising the option to proceed with the Phase B (Production) minus 1 day.

4.3.2. The complete delivery of each purchase deliverables described in the table 2 below, column “*Order’s Deliverables Name*” must be within the number of working days, as stipulated in that table “*COLUMN A*”, from date of order (column “*Date of Order*”). The purchase deliverables are fully detailed in Annex CF “Contract Deliverables List”.

TABLE 2 – Purchases				
Order Description	Date of Order			COLUMN A
		Order’s deliverables Name	Deliverable Details in Annex CF Tables	Delivery Period
ORDER x:				

4.4. Working days:

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

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5. Authorities

5.1. Contracting Authority

The Contracting Authority for the Contract is:

Mr. Bernard Juteau
Supply Team Leader
Public Works and Government Services Canada
Acquisitions Branch
Land Projects & Communication System Support Division
8C2 Place du Portage, Phase III
11 Laurier Street
Gatineau, Québec
K1A 0S5

Telephone: (819) 956-0532
Facsimile: (819) 956-0636
E-mail address: bernard.juteau@pwgsc.gc.ca

The Contracting Authority (CA) is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

5.2. Requisitioning Authority or Procurement Authority

The Requisitioning Authority, also called Procurement Authority, for the Contract is:

“

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The Requisitioning Authority (RA) or Procurement Authority (PA) is responsible for the financial and administrative control of the DND project management for the contract. The terms PA and RA are interchangeable.

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5.3. Project Manager and Technical Authority

The Project Manager and Technical Authority for the Contract is:

“

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The Project Manager is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Manager; however, the Project Manager has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

5.4. Quality Assurance Authority

The Quality Assurance Authority for the Contract is:

“

”

The Quality Assurance Authority is responsible for quality control of all work received under this Contract.

5.5. Industrial and Regional Benefits (IRB) Authority

The Industrial and Regional Benefits (IRB) Authority for the Contract is:

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“

”

The IRB Authority is the person designated by the Minister of Industry to act on the Minister's behalf. The IRB Authority is responsible for evaluating, monitoring and accepting IRBs, and for assessing the Contractor's IRB performance under this Contract.

5.6. Contractor's Representative(s)

The Contractor has appointed Mr./Mrs (Name, Phone & Fax numbers, Internet address)
(NOTE: Bidders to insert as many representatives as required such as Project Manager, Contract Manager, Systems Engineering Manager, ILS Manager, Financial Manager, Etc...) as the only point of contact(s) for all enquiries or issues raised by the Consignees or the Contracting Authority during the execution of the work.

6. Payment

6.1. Basis of Payment

6.1.1. Basis of Payment - Firm Price, Firm Unit Price(s) or Firm Lot Price(s)

In consideration of the Contractor satisfactorily completing its obligations under the Contract, the Contractor will be paid a Firm Price in accordance with the Basis of Payment in Annex AB, for all items identified with the Basis of Payment (BP) code “FP” (See Basis of Payment in Annex AB, column entitled "BP Code") for a cost of \$_____ (NOTE: Canada to insert the Phase A amount at contract award). Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

For the firm price portion of the Work only, Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.1.2. Basis of Payment - Limitation of Expenditure

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The Contractor will be reimbursed for the costs reasonably and properly incurred in the performance of the Work, as determined in accordance with the Basis of Payment in Annex AB for all items identified with the Basis of Payment (BP) code "LE" (See Basis of Payment in Annex AB, column entitled "BP Code") to a limitation of expenditure of \$0.00 (*NOTE: Canada to amend the amount with the contract amendment exercising the option to proceed with the Phase B (Production)*). Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

6.1.3. Basis of Payment for Work Authorizations

The Contractor may submit a "**Firm Price**", a "**Ceiling Price**" or a "**Limitation of Expenditure**" quote to the DND Requisitioning Authority. The Contractor shall be paid in accordance with the Annex AB Basis of payment of this contract. For each of the above cases, the following clauses must be completed and added to the work authorization form.

6.1.3.1. For a "**Firm Price**" quote:

SACC Manual clause C0207C 2011-05-16, Basis of Payment - Firm Price or Firm Lot Price; and
SACC Manual clause C6000C 2011-05-16, Limitation of Price;

6.1.3.2. For a "**Ceiling Price**" quote:

SACC Manual clause C1200C 2008-05-12, Basis of Payment - Ceiling Price; and
SACC Manual clause C6000C 2011-05-16, Limitation of Price;

6.1.3.3. For a "**Limitation of Expenditure**" quote:

SACC Manual clause C0206C 2011-05-16, Basis of Payment - Limitation of Expenditure; and
SACC Manual clause C6001C 2011-05-16, Limitation of Expenditure;

6.2. Method of Payment

6.2.1. Method of Payment - Milestone payments (Applicable to item 5.0 to PART 1 to Annex AB Basis of Payment)

6.2.1.1. Canada will make milestone payments in accordance with the Schedule of Milestones detailed in the Contract and the payment provisions of the Contract, up to 85 percent of the amount claimed and approved by Canada if:

- (a) an accurate and complete claim for payment using form PWGSC- TPSGC 1111, Claim for Progress Payment, and any other document required by the

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Contract have been submitted in accordance with the invoicing instructions provided in the Contract;

(b) the total amount for all milestone payments paid by Canada does not exceed 85 percent of the total amount to be paid under the Contract;

(c) all the certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives;

(d) all work associated with the milestone and as applicable any deliverable required have been completed and accepted by Canada.

6.2.1.2. The balance of the Part 1's amount payable will be paid upon completion and delivery of all Part 1 work required under the Contract if the Work has been accepted by Canada and a final claim for the payment is submitted.

6.2.1.3. Schedule of Milestones

The schedule of milestones for which payments will be made in accordance with the Contract is as shown in column D opposite to items 5.1 to 5.3 to PART 1 to Annex AB Basis of Payment.

6.2.2. Method of Payment - Progress payments with holdbacks (Applicable to annex AB Basis of Payment, Part 1 except item 5.0 and, to Part 2 items 10.0 and 13.0)

6.2.2.1. Canada will make progress payments in accordance with the payment provisions of the Contract, no more than once a month, for cost incurred in the performance of the Work, up to 85 percent of the amount claimed and approved by Canada if:

- a. an accurate and complete claim for payment using form PWGSC-TPSGC 1111, Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. the amount claimed is in accordance with the basis of payment;
- c. the total amount for all progress payments paid by Canada does not exceed 95 percent of the total amount to be paid under the Contract;
- d. all certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives.

6.2.2.2. Holdback payment:

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a. With regard to annex AB Basis of Payment Part 1 except item 5.0, the balance of the Part 1's amount payable will be paid upon completion and delivery of all Part 1 work required under the Contract if the Work has been accepted by Canada and a final claim for the payment is submitted.

b. With regard to annex AB Basis of Payment Part 2 items 10.0 and 13.0, the balance of the amount payable will be paid upon completion and delivery of a batch (As defined in annex CF) under the Contract if the Work has been accepted by Canada and a final claim for the payment of the batch is submitted.

6.2.2.3. Progress payments are interim payments only. Canada may conduct a government audit and interim time and cost verifications and reserves the rights to make adjustments to the Contract from time to time during the performance of the Work. Any overpayment resulting from progress payments or otherwise must be refunded promptly to Canada.

6.2.3. Method of Payment - Progress payments (Applicable to annex AB Basis of Payment Part 2 except items 10.0 and 13.0, and Part 3)

6.2.3.1. Canada will make progress payments in accordance with the payment provisions of the Contract, no more than once a month, for cost incurred in the performance of the Work, up to 100 percent of the amount claimed and approved by Canada if:

- a. an accurate and complete claim for payment using form PWGSC-TPSGC 1111, Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. the amount claimed is in accordance with the basis of payment;
- c. the total amount for all progress payments paid by Canada does not exceed 95 percent of the total amount to be paid under the Contract;
- d. all certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives.

6.2.3.2. Progress payments are interim payments only. Canada may conduct a government audit and interim time and cost verifications and reserves the rights to make adjustments to the Contract from time to time during the performance of the Work. Any overpayment resulting from progress payments or otherwise must be refunded promptly to Canada.

6.2.4. Method of Payment for Work Authorizations

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The Contractor may submit a "**Firm Price**", a "**Ceiling Price**" or a "**Limitation of Expenditure**" quote to the DND Requisitioning Authority. The Contractor shall be paid in accordance with the Annex AB Basis of payment of this contract. For each of the above cases, the following clauses must be completed, when applicable, and added to the work authorization form.

6.2.4.1. For a "**Firm Price**" quote, some of the following clauses may apply:

SACC Manual clause H1000C 2008-05-12, Single Payment;
OR
SACC Manual clause H3010C 2010-01-11, Milestone Payments; and
SACC Manual clause H4012C 2010-01-11, Schedule of Milestones;

6.2.4.2. For a "**Ceiling Price**" or a "**Limitation of Expenditure**" quote, some of the following clauses may apply:

SACC Manual clause H1000C 2008-05-12, Single Payment;
OR
SACC Manual clause H1003C 2010-01-11, Progress Payments;

6.3. Exchange Rate

6.3.1. Exchange Rate/Payment on Delivery

6.3.1.1. The price in Canadian currency includes the foreign currency component in respect of goods, services or both originating outside Canada, as detailed in Appendices 3 and 4 Claim for Exchange Rate Adjustments to Annex "AB" Basis of Payment.

6.3.1.2. The price must be adjusted to reflect the exchange rate in effect and applied by Canada Border Services Agency (CBSA) on the date of importation, but only in respect of the foreign currency component detailed in the above form.

6.3.1.3. No price adjustment directly resulting from the application of the provisions contained in this clause will be applied for increases or decreases in the exchange rate within a variation of: plus or minus 2 percent of the exchange rate(s) mentioned above; or plus or minus \$100 of the total cumulative amount claimed for exchange rate adjustment under the Contract.

6.3.1.4. On each invoice or claim for payment submitted under the Contract, the Contractor must indicate the exchange rate adjustment amount (either upward, downward or no change) as a separate item. In addition, the invoice must be accompanied by a copy of CBSA Form B3-3, Canada Customs Coding Form, for the imported goods, services or both.

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6.3.1.5. Canada will have the right to audit any revision to costs and prices under this clause.

6.3.2. Exchange Rate/Milestone payment

6.3.2.1. The price in Canadian currency includes the foreign currency component in respect of goods, services or both originating outside Canada, as detailed in Appendix 3 Claim for Exchange Rate Adjustments to Annex “AB” Basis of Payment. In the event that one or more of the milestones involve a foreign currency component that becomes due and payable on that particular milestone, a separate form PWGSC- TPSGC 9411 must accompany the invoice for each applicable milestone.

6.3.2.2. When a milestone payable includes the importation of goods, services or both into Canada, the exchange rate used to calculate the adjustment will be the rate applied by Canada Border Services Agency (CBSA) on the date of importation. For a milestone that does not involve the importation of goods, services or both, but still includes a foreign currency component, the exchange rate used to calculate the adjustment will be the Bank of Canada exchange rate in effect at noon, on the date when the milestone became due and payable.

6.3.2.3. No price adjustment directly resulting from the application of the provisions contained in this clause will be applied for increases or decreases in the exchange rate within a variation of: plus or minus 2 percent of the exchange rate(s) mentioned above; or plus or minus \$100 of the total cumulative amount claimed for exchange rate adjustment under the Contract.

6.3.2.4. On each invoice or claim for milestone payment submitted under the Contract, the Contractor must indicate the exchange rate adjustment amount (either upward, downward or no change) as a separate item. In the event of delivery, the invoice or claim for milestone payment must be accompanied by a copy of CBSA form B3-3, Canada Customs Coding Form. When the goods, services or both have not been imported, the Contractor must provide evidence, satisfactory to Canada, that the amount claimed is due and payable in foreign currency by the Contractor.

6.3.2.5. Canada will have the right to audit any revision to costs and prices under this clause.

6.4. Limitation of Expenditure

6.4.1. Canada's total liability to the Contractor under the Contract must not exceed \$_____ (*NOTE: Canada to insert the Phase A amount at contract award*). Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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6.4.2. No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not perform any work or provide any service that would result in Canada's total liability being exceeded before obtaining the written approval of the Contracting Authority. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:

- (a) When it is 75 percent committed, or
- (b) Four (4) months before the contract expiry date, or
- (c) As soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work, whichever comes first.

6.4.3. If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

6.5. SACC Manual Clauses

6.5.1. General:

SACC Manual clause B9031C 2011-05-16, Canada's Obligation – Portion of the Work – Task Authorizations;
SACC Manual clause A9117C 2007-11-30, T1204 - Direct Request by Customer Department;
SACC Manual clause H4500C 2010-01-11, Lien - Section 427 of the Bank Act (Canadian-based suppliers);

6.5.2. Duty and tax:

Foreign-based contractor:

SACC Manual clause C2611C 2007-11-30, Customs Duties - Contractor Importer; and
SACC Manual clause C2000C 2007-11-30, Taxes - Foreign-based Contractor;
and

6.5.3. Cost Submission:

SACC Manual clause C0305C 2008-05-12, Cost Submission

6.5.4. Audit:

SACC Manual clause C0705C 2010-01-11, Discretionary Audit

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6.5.5. Time Verification:

SACC Manual clause C0710C 2007-11-30, Time and Contract Price Verification

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

The firm prices applicable for a coming year will be calculated during the last month of the preceding year for which the Contract had firm prices and will be the firm prices from that preceding year adjusted on account of fluctuations in the Canadian economy over the most recent consecutive 12 months period for which economic indicators are available. The adjusted Firm Price(s) for the coming year shall remain fixed for that period except for the condition at paragraph 6.6.6. A year is a period from contract amendment date anniversary exercising the option to proceed with the Phase B (Production) to next contract amendment date anniversary exercising the option to proceed with the Phase B (Production) minus 1 day. Economic price adjustments will be done as per the following.

6.6.1. Firm Hourly Rates (FHR):

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

- a) Percentage change = "the CPI Percentage change (month z) 201y from (month z) 201x" + 1%;
- b) FHR(s) applicable for the coming 12-month period = The FHR(s) for the preceding 12-month period of the contract multiplied by '(1+ "Percentage change")';
- c) FHR(s) applicable for the coming 12-month period will be rounded up to 2 decimals (Example: \$2.571 or \$2.579 will be rounded up to \$2.58);

6.6.2. Firm Price, Firm Unit Price(s) or Firm Lot Price(s):

The prices for a coming year shall not exceed the lesser of:

- a) Price indexation:
The economic indicator that must be used to account for the actual fluctuations in the economy is the Canadian Consumer Price Index (CPI). For purposes of this article, the most recent Statistics Canada monthly Catalogue "62-001-X" CPI will be used. The relevant CPI shall be from the Statistical Tables, Table 1, namely "The Consumer Price

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Index, major components and special aggregates, Canada, not seasonally adjusted". The CPI for "All Items (2002=100)" shall be used under column "Percentage change (month z) 201y from (month z) 201x". The indexation is calculated as follows:

- i) Percentage change = "the CPI Percentage change (month z) 201y from (month z) 201x";
- ii) Firm Price (s) (FP) applicable for the coming 12-month period = The FP(s) for the preceding 12-month period of the contract multiplied by '(1+ "Percentage change")'; or
- iii) FP(s) applicable for the coming 12-month period will be rounded up to 2 decimals (Example: \$2.571 or \$2.579 will be rounded up to \$2.58);

or

- b) the Contractor current Commercial Published Price List (CPPL), less discount (s) for the year in question;

6.6.3. Mark-ups:

There will be no adjustments made to the firm mark-ups contained in the Annex AB Basis of payment.

6.6.4. If the CPI referred to in articles 6.6.1 and 6.6.2 is discontinued, or if the basis for reporting the index is changed from that in existence on or after the award date of the Contract, the Minister shall immediately thereafter establish replacement indices, or formulate adjustments, consistent with the intent of those set forth in these articles.

6.6.5. Should the Contractor publish or publicly announce a price decrease, or has discount on quantities, it shall provide the benefit of the decrease to Canada.

6.7. Price negotiation:

Under some circumstances, firm prices may not be readily available or items may be added in the Contract basis of payment on an on going basis for the purchase of some Goods and Services. A review of the Contractor proposed pricing will be required by Canada. Detailed supporting data may be requested to validate the prices and other charges proposed. Cost and profit negotiations with the Contractor will be in accordance with Canadian Government policy.

6.8. Definitions of "Actual Cost":

6.8.1. For Contractor Manufactured Parts, "actual cost" is the Direct Material, Material Handling, Direct Manufacturing Labour and Direct Manufacturing Labour Overhead, calculated in accordance with Contract Cost Principle 1031-2; Exclusive of G&A and Profit.

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6.8.2. For Contractor Acquired Parts, "actual cost" is the laid down cost incurred by the supplier to acquire a specific product for resale to Canada. This includes the invoiced Cost (less trade discounts) plus Freight In, Customs and Duties; Exclusive of G&A, O/H(s), Handling and Profit.

7. Inspection, Shipping, Delivery and Acceptance

7.1. Shipping Instructions

7.1.1. The DND TA is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, deliverable item, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

Inspection is to be performed at the Contractor facility prior to shipment to validate labeling, packaging, palletizing and accordance with all DID's/CDRL's. Receiving is to be conducted as per standard Depot policies and procedures upon final receipt at destination.

The delivery destination for all ISSP reports, deliverable items, documents, goods and all services is to be in accordance with Annex CF.

7.1.2. - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and delivered Delivered Duty Paid (DDP) **at the places of destination stipulated in the Annex CF** Incoterms 2000 for shipments from a commercial contractor, customs duties included except as per the condition at article 6.5.2. SACC manual clause C2611C .

7.1.3. Transportation Costs

The Contractor must ship the goods prepaid via *(NOTE: Canada to insert the method of transportation at contract award, it can be the Contractor's recommended method of shipment or the PWGSC Traffic Management Directorate, Services and Specialized Acquisitions Management Sector recommended method of shipment)* including all delivery charges to **"at the places of destination stipulated in the Annex CF "**. Prepaid transportation costs must be shown as a separate item on the invoice, supported by a certified copy of the prepaid transportation bill of lading.

7.2. Quality Assurance:

Canadian-based Contractor:

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SACC Manual clause D5510C 2011-05-16, Quality Assurance Authority (DND) - Canadian-based Contractor; and
SACC Manual clause D5606C 2007-11-30, Release Documents (DND) - Canadian-based Contractor.

OR

Foreign-based and United States Contractor:

SACC Manual clause D5515C 2010-01-11, Quality Assurance Authority (DND) - Foreign-based and United States Contractor; and
SACC Manual clause D5604C 2008-12-12, Release Documents (DND) - Foreign-based Contractor; or
SACC Manual clause D5605C 2010-01-11, Release Documents (DND) - United States-based Contractor.

AND

SACC Manual clause D5540C 2010-08-16, ISO 9001:2008 Quality Management Systems - Requirements (QAC Q)
SACC Manual clause D5505C 2007-11-30, Quality Assurance Document
SACC Manual clause D5545C 2010-08-16, ISO 9001:2008 - Quality Management Systems - Requirements (QAC C)

7.3. Release Documents – Distribution

Release documents prepared by the Contractor shall be distributed as follows:

- (a) Copy 1: mail to consignee marked: "Attention: Receipts Officer";
- (b) Copies 2 and 3: with shipment (in a waterproof envelope) to the consignee;
- (c) Copy 4: to the Contracting Authority;
- (d) Copy 5: to:

National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2
Attention: DLR 8-4-2-3
- (e) Copy 6: to the Quality Assurance Representative;
- (f) Copy 7: to the Contractor;
- (g) Copy 8: all non-Canadian Contractors to:

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DQA/Contract Administration
National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A OK2
E-mail: ContractAdmin.DQA@forces.gc.ca.

8. Invoicing Instructions - Progress Payment Claim

8.1. The Contractor must submit a claim for payment using form PWGSC-TPSGC 1111, Claim for Progress Payment.

Each claim must show:

- (a) all information required on form PWGSC-TPSGC 1111;
- (b) all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;
- (c) a list of all expenses;
- (d) expenditures plus pro-rated profit or fee;
- (e) the description and value of the milestone claimed as detailed in the Contract.

Each claim must be supported by:

- (a) a copy of time sheets to support the time claimed;
- (b) a copy of the invoices, receipts, vouchers for all direct expenses, travel and living expenses;
- (c) a copy of the design change or additional work form;
- (d) a copy of the form PWGSC-TPSGC 9411, Claim for Exchange Rate Adjustments;

8.2. The Goods and Services Tax or Harmonized Sales Tax (GST/HST), as applicable, must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no GST/HST payable as it was claimed and payable under the previous claims for progress payments.

8.3. The Contractor must prepare and certify one original and two (2) copies of the claim on form PWGSC-TPSGC 1111, and forward it to the Project Manager identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.

The Project Manager will then forward the original and two (2) copies of the claim to the Contracting Authority for certification and onward submission to the Payment Office for the remaining certification and payment action.

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8.4. The Contractor must not submit claims until all work identified in the claim is completed.

9. Certifications

9.1. Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the entire contract period. If the Contractor does not comply with any certification or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

10. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____. *(NOTE: Canada to insert the province at contract award, as specified by the Bidder under Request for Proposal (RFP) article 2.4 to Volume 1)*

11. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) Module A;
- (c) the supplemental general conditions 4003 (2010-08-16), Licensed Software as amended in article 2.2;
- (d) the supplemental general conditions 4006 (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information;
- (e) the general conditions 2030 (2011-05-16), General Conditions - Higher Complexity – Goods as amended in article 2.1;
- (f) Module B;
- (g) Module C;
- (h) the signed Task Authorizations (including all of their annexes, if any);
- (i) the Contractor's bid Sections I, II, III, IV and V dated _____ *(NOTE: Canada to insert date of bid at contract award);*

12. Defence Contract

SACC Manual clause A9006C 2008-05-12 Defence Contract
SACC Manual clause C2801C 2011-05-16 Priority Rating - Canadian-based Contractors

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SACC Manual clause C2800C 2011-05-16 Priority Rating

13. Foreign Nationals

Canadian Contractor:

SACC Manual clause A2000C 2006-06-16, Foreign Nationals (Canadian Contractor)

OR

Foreign Contractor:

SACC Manual clause A2001C 2006-06-16, Foreign Nationals (Foreign Contractor)

14. Site Regulations

SACC Manual clause A9068C 2010-01-11 Site Regulations

15. Electrical Equipment

SACC Manual clause B1501C 2006-06-16, Electrical Equipment

16. Excess Goods

SACC Manual clause B7500C 2006-06-16 Excess Goods

17. Controlled Goods Program

SACC Manual clause A9131C 2011-05-16, Controlled Goods Program

SACC Manual clause B4060C 2011-05-16, Controlled Goods

18. Insurance Requirements

The Contractor must comply with the insurance requirements specified in Annex AA. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any

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additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer licensed to carry out business in Canada. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

19. Government property and services

19.1. Government Property

19.1.1. Title to Government Property must remain vested in Canada at all times and the Contractor must not lien, charge or encumber, nor cause to be liened, charged or encumbered, any Government Property in its possession or control.

19.1.2. The Contractor must pack and deliver such items in accordance with suitable commercial practice to the destination set out in delivery instructions provided to the Contractor by the Contracting Authority.

19.1.3. Annual inventory and utilization reviews of Government Property may be conducted at the discretion of the Contracting Authority, and the Contractor must account for them as may be required.

19.1.4. Canada agrees that all Government Property furnished to the Contractor hereunder shall be accurate and fit, suitable and sufficient for the purposes of this Contract. The Contractor shall notify the Contracting Authority, within thirty (30) days, after the Contractor becomes aware of any deficiency, non-conformance malfunction or inaccuracy in any Government Property. The Contracting Authority and the Contractor will jointly determine corrective measures to be taken by either party, and the consequences, if any, to the Contract Delivery Date and the Contract Price.

19.1.5. In order for Canada to retransfer Government Property (GFI/GFE) subject to ITAR or other Nations export controls, Canada will arrange for and maintain the required retransfer approval or applicable licenses.

19.2. Government Furnished Information (GFI)

19.2.1. The Canada Reference Documents (Data) identified in Annex CE Sections 1.1 to 1.4 are available from the Contracting Authority on request.

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19.2.2. Canada's right, title and interest to GFI must remain vested always in Canada and the Contractor must maintain it free and clear of all claims, liens, charges and encumbrances. .

19.2.3. If, during the course of this Contract, the Contractor identifies additional requirements for information available to Canada, the Contractor may submit requests for such information to the Contracting Authority. The Contracting Authority will determine and advise the Contractor whether, and the terms upon which, such information can be provided. Canada will endeavour to provide to the Contractor such information at the times and places and upon the other terms agreed.

19.2.4. Prior to receiving GFI, an executed original copy of the Non-Disclosure Agreement (NDA) attached as Annex AD must be submitted to the Contracting Authority (See article 5.1) in writing, either by e-mail or letter, and shall include the mailing address to which the Data shall be sent.

19.3. Government Furnished Equipment (GFE)

19.3.1. GFE will be provided as specified in all tables found in Appendix 3 to Annex CA.

19.3.2. Government Furnished Equipment (GFE) will be supplied to the Contractor under a Loan Agreement (Annex CD), to carry out the Work.

19.3.3. If during the course of this Contract, the Contractor identifies additional equipment required for the purposes of the Contract, the Contractor will formally place a request to Canada. Canada will determine and advise the Contractor whether such equipment can be provided and, if so, the terms of its loan. If such loans are agreed, Canada will endeavour to deliver to the Contractor such equipment at the times and places and upon the other terms agreed.

19.3.4. As required under ITAR, if a Technical Assistance Agreement(s) (TAA), and/or Export License or similar document is required for the performance of the ISSP work the Contractor must ensure that applicable documents be valid for the duration of the Contract.

19.4. Return of GFI and GFE

19.4.1. The Contractor must return all GFI and GFE provided by Canada during the course of the Contract no later than 6 months before completion of the Contract, or earlier if so requested by the Contracting Authority.

20. Consultants and Other Contractors

20.1. The Minister may enter into separate contracts with consultants and other contractors to assist Canada during the performance of this Contract. Upon Notice from the Minister, the Contractor must provide these consultants and other contractors with access to the Work, to the

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Contractor's employees and to all necessary things and information related to the Work in order to enable these consultants and other contractors to carry out their contractual obligations, in the same manner as the Contractor is required to provide to any authorized representative of the Minister. These consultants and other contractors while on the Contractor's or any of its Subcontractor's premises, must at all times be subject to the rules and regulations in force on these premises, including all required licenses, with respect to the conduct of employees or visitors. The Minister, at the reasonable request of the Contractor, will have removed from these premises any of these consultants and other contractors who have breached such rules and regulations, or whose conduct does not conform to that expected of and practiced by the Contractor's employees or visitors.

20.2. As a condition of such access, the Minister will require such consultant or other contractor to the Minister to execute a confidentiality agreement with the Contractor or lower tier subcontractor concerned, in the form that may be reasonably be required by the Contractor.

21. Quality Assurance

21.1. Quality Assurance

21.1.1. All work subject to Government Quality Assurance at the Contractor's facility or that of the subcontractor(s) and at the installation site by the:

Director of Quality Assurance
National Defence Headquarters
Major-General George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2
Email: ContractAdmin.DQA@forces.gc.ca

21.1.2. The Design Change, Deviation and Waiver Procedure as defined in National Defence Standard D-02-006-008/SG-001 apply to the Contract. A copy of the standard can be obtained from the nearest NDQAR office.

21.1.3. The Contractor is responsible for performing, or having performed, all inspections and tests necessary to substantiate that the material or services provided conform to the requirements of the Contract.

21.1.4. The Contractor must provide, at no additional cost, all applicable test data, all technical data, test pieces and samples as may be reasonably be required by the QAR to verify conformity to the requirements of the Contract. The Contractor must forward at its expense such technical data, test data, test pieces and samples to such location as the QAR may direct.

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21.1.5. Quality control, inspection and test records that substantiate conformity to the specified requirements, including records of corrective actions, must be retained by the Contractor for three (3) years from the date of completion or termination of the Contract and must be made available to the QAR upon request.

22. Not Applicable

23. Third Party Professional Support Services

23.1. Canada intends to enter into contract with a third party(ies), the Professional Support Services (PSS) contractor(s) , for the provision of services in support of the DND ISSP Project Office. The Contractor shall facilitate the performance of the PSS contractor(s). The terms of communication will be as follows:

- 1) the PSS contractor reports to, receives direction from and provides recommendations to only the DND Technical Authority;
- 2) the Contractor shall designate a point of contact for the PSS contractor personnel, and shall notify Canada in writing of any change; and
- 3) the PSS contractor shall not be required to furnish the Contractor with work plans or schedules, or with any other documentation or information.

23.2. Contractor shall make available to the PSS Contractor both the use of temporary workspace for a maximum of three (3) people, and access to Project working materials such as documentation, software and schedules, as are normally available to the Contractor's Quality Assurance personnel.

23.3. Canada will ensure that the PSS personnel possess the necessary security clearances.

23.4. The PSS contractor shall be required to handle the Contractor's material in the following manner:

- 1) The PSS contractor shall not remove any Contractor materials from the Contractor's site unless authorized by the Contractor's contact person in writing.
- 2) The PSS contractor shall treat all Contractor information, data and materials as "company confidential". In this context, "company confidential" means the PSS personnel shall not divulge information to anyone other than Contractor personnel and representatives of Canada who have a "need to know" for the sole purpose of allowing the PSS contractor to perform its PSS activities.

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24. Deliverable Substitutions & Alternatives

24.1. The Contractor may propose a substitution or alternative for an existing product listed in the Contract, provided the proposed substitute or alternative meets or exceeds the specification(s) of the existing product and the price for the substitute or alternative product does not exceed:

- (a) the firm price (or ceiling price, if applicable) for the product originally offered in the Contractor's bid that resulted in the award of the Contract;
- (b) the current published list price of the substitute product, minus any applicable Government discount; or
- (c) the price at which the substitute product is generally available for purchase,

whichever is the lowest.

24.2. The proposed substitution/alternative may be subject to benchmark evaluation and the Contractor must pay for all costs associated with the benchmark evaluation (e.g., transportation, benchmark fee, etc.).

24.3. Substitute or alternative items must not be shipped until formally authorized by the Contracting Authority after the Technical Authority determines the substitution or alternative is acceptable. Whether or not to accept or reject a proposed substitution or alternative, for any remaining units to be delivered under the contract, is entirely within the discretion of Canada. If Canada does not accept a proposed substitution or alternative, the Contractor must continue to deliver the original product. If accepted, the substitution will be documented for the administrative purposes of Canada by a contract amendment, by removing the existing product and including the substitution instead. If accepted, the addition of any alternative product will be documented for the administrative purposes of Canada by a contract amendment, by adding the alternative as a product under the Contract. Once an alternative product has been included in the Contract, Canada may purchase either product, at its option.

24.4. The ability to propose a substitution or alternative for any given product does not relieve the Contractor of its obligation to make delivery of the existing product when ordered within the period set out in the Contract, regardless of whether or when the proposed substitution is approved.

25. Not Applicable

26. Licensed Software

26.1. With respect to the provisions of Supplemental General Conditions 4003:

Language of Licensed Software (4003 2.5)	The Licensed Software must be delivered as follows:
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	<ul style="list-style-type: none"> • ISS-S Battle Management System (BMS) in English and French; • ISS-S Configuration Application Software in English and French; • ISS-S Battle Management System (BMS) for the CF31 laptop PC in English and French; and • System Executive Planning Suite (SEP-S) for the CF31 laptop PC in English only.
Type of License being Granted (4003 04, 05, 06)	Device License.
Media on which Licensed Software must be Delivered (4003 10)	Each BMS and SEP-S, for the CF31 laptop PC, is to be provided to the Department of National Defence on CD-ROM/DVD.
Term of License (4003 11)	Perpetual license as already provided under 4003
Source Code Escrow Required (4003 16)	Yes
Canada's Responsibilities	Canada will be responsible for the installation on CF31 laptop PC of all BMS and SEP-S Software.

27. Safeguarding Electronic Media

27.1. Before using electronic media on Canada's equipment or sending them to Canada, the Contractor must use a regularly updated product to scan electronically all electronic media used to perform the Work for computer viruses and other coding intended to cause malfunctions. The Contractor must notify Canada if any electronic media used for the Work are found to contain computer viruses or other coding intended to cause malfunctions.

27.2. If magnetically recorded information or documentation is damaged or lost while in the Contractor's care or at any time before it is delivered to Canada in accordance with the Contract, including accidental erasure, the Contractor must immediately replace it at its own expense.

28. Access to Canada's Property and Facilities

Canada's property, facilities, equipment, documentation, and personnel are not automatically available to the Contractor. If the Contractor would like access to any of these, it is responsible for making a request to the Technical Authority. Unless expressly stated in the Contract, Canada has no obligation to provide any of these to the Contractor.

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29. Accommodation

The Contractor must provide for the representatives of Canada such office space, office facilities, telephone service, and suitable sanitary and washing facilities as they may require from time to time at the Contractor's facilities.

30. Canadian Disruptive Pattern (CADPAT™)

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

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

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

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

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

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

31. Not Applicable

32. Dangerous Goods/Hazardous Products

32.1 SACC Manual clause D3015C 2007-11-30, Dangerous Goods/Hazardous Products

32.2 Canada Labour Code, Part II dictates that the least hazardous materials should be used at the workplace. Therefore, the Contractor is to strive to use the least hazardous product that meets the requisite performance requirements. The Contractor is required to include within the Environmental, Health and Safety Impact Report (EHSIR) Material Safety Data Sheets (MSDS) for all products/materials, which are used in the operation and maintenance of the Work, that fall under the Hazardous Products Act, R.S.C. 1985m c. H-3 and regulation(s) thereunder in accordance with the said Act and regulation(s).

33.0 Hazardous Waste Disposal

SACC Manual clause A9016C 2011-05-16, Hazardous Waste Disposal

34. Environmental Health and Safety

34.1. General

34.1.1. New or amended support documentation, such as Canadian Forces Technical Orders (CFTO's) shall incorporate appropriate EHS warnings and instructions in direct relation to the EHS risks presented in the contents.

34.1.2. The Contractor shall comply with Department of National Defence (DND) policies, orders, directives, instructions and best practices when accessing DND owned or controlled lands, buildings or equipment.

34.2. Compliance

34.2.1. The Contractor shall comply in all respects with Environmental, Health and Safety legislation, such as the Canadian Environmental Protection Act, Canadian Environmental Assessment Act, Hazardous Products Act, Transportation of Dangerous Goods Act, Canada Labour Code, and their regulations, in force in relation to the provision of Services. Where the

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provisions of any such legislation are implemented by the use of voluntary agreements or codes of practice, the Contractor shall comply with such agreements or codes of practices as if they were incorporated into Canada law subject to those voluntary agreements being cited in the Contract documentation. The Contractor is responsible to comply with laws applicable to the performance of the Contract, regardless of them being identified, or not, within the Contract. The Contractor shall provide evidence of compliance with such laws to Canada at such times as Canada may reasonably request.

34.3. Hazardous Products

34.3.1. Canada Labour Code, Part II dictates that the least hazardous materials should be used at the workplace. Therefore, the Contractor is to strive to use the least hazardous product that meets the requisite performance requirements. The Contractor is required to include within the Environmental, Health and Safety Impact Report (EHSIR) Material Safety Data Sheets (MSDS) for all products/materials, which are used in the operation and maintenance of the Work, that fall under the Hazardous Products Act, R.S.C. 1985, c. H-3 and regulation(s) thereunder in accordance with the said Act and regulation(s).

34.4. Controlled Products

34.4.1. Controlled Products are products that harbour chemical substances that are banned, being phased out or regulated by legislation. Products and substances regulated or restricted under the following programs include:

- Ozone Depleting Substances (ODS) Regulations (1998);
- Federal Halocarbon Regulation;
- 2-Butoxyethanol Regulation;
- PCB Regulation;
- Prohibition of Certain Toxic Substances, 2005;
- Government of Canada's Chemical Management Plan;
- National Pollutant Release Inventory (NPRI);
- Accelerated Reduction/Elimination of Toxics; and
- Canadian Environmental Protection Act, Schedule 1, list of Toxic Substances.

35. Interface Control Document (ICD)

35.1 In accordance with appendix 1 Technical Performance Specification to Annex CB to Volume 2, there is a requirement for the Contractor's Integrated Soldier System Suite (ISS-S) to Interface with LCSS radios (PRC 117,148,152), the DAGR (if the ISS-S provides military GPS capability via an interface to the CF in-service DAGR) and the CORAL-CR-C. Proof of this functionality will have to be demonstrated during the Acquisition Contract Phase A (Qualification).

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35.2 It is the Contractor's responsibility to obtain from the respective Original Equipment Manufacturer (OEM) for the LCSS radios (PRC 117,148,152) and the DAGR (if the ISS-S provides military GPS capability via an interface to the CF in-service DAGR) the required ICD's and assistance for the integration/engineering effort thereby allowing the Contractor to complete the work and fully qualify the ISS-S.

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MODULE A

TO

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ANNEX AA to Volume 2

INSURANCE REQUIREMENTS

Commercial General Liability Insurance

1. The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.

2. The Commercial General Liability Insurance policy must include the following:

- (a) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
- (b) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
- (c) Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
- (d) Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
- (e) Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
- (f) Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
- (g) Employees and, if applicable, Volunteers must be included as Additional Insured.
- (h) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)

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- (i) Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
- (j) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
- (k) If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
- (l) Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
- (m) Non-Owned Automobile Liability - Coverage for suits against the Contractor resulting from the use of hired or non-owned vehicles
- (n) Litigation Rights: Pursuant to subsection 5(d) of the *Department of Justice Act*, S.C. 1993, c. J-2, s.1, if a suit is instituted for or against Canada which the Insurer would, but for this clause, have the right to pursue or defend on behalf of Canada as an Additional Named Insured under the insurance policy, the Insurer must promptly contact the Attorney General of Canada to agree on the legal strategies by sending a letter, by registered mail or by courier, with an acknowledgement of receipt.

For the province of Quebec, send to:

Director Business Law Directorate,
Quebec Regional Office (Ottawa),
Department of Justice,
284 Wellington Street, Room SAT-6042,
Ottawa, Ontario, K1A 0H8

For other provinces and territories, send to:

Senior General Counsel,
Civil Litigation Section,
Department of Justice
234 Wellington Street, East Tower
Ottawa, Ontario K1A 0H8

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A copy of the letter must be sent to the Contracting Authority. Canada reserves the right to co-defend any action brought against Canada. All expenses incurred by Canada to co-defend such actions will be at Canada's expense. If Canada decides to co-defend any action brought against it, and Canada does not agree to a proposed settlement agreed to by the Contractor's insurer and the plaintiff(s) that would result in the settlement or dismissal of the action against Canada, then Canada will be responsible to the Contractor's insurer for any difference between the proposed settlement amount and the amount finally awarded or paid to the plaintiffs (inclusive of costs and interest) on behalf of Canada.

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ISS-A FINANCIAL BID PRESENTATION SHEET

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ISS-A FINANCIAL BID PRESENTATION SHEET

PART 1 (Phase A Qualification)

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PART 1 (Phase A Qualification)

Last update: March 19, 2013
ISS_A_FBPS_V2.XLS

Line	BP		Qty	Column A	Column B	Column C	Column D
No.	Code	ITEM'S DESCRIPTIONS	U of I	Qty (Over Phase A period)	Unit Price	Extended Price	
1		1.0 Contract Management (Phase A Qualification):					
2							
		For the management of the Contract and all management functions including in particular the provision and/or revision as necessary of all data items listed below, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, the Contractor shall embed all cost in the milestone payments under item 5.0 to this PART 1:					
3							
4		Data Items List:		Frequency			
5	1.1	Meetings		ASGEN			
6	1.2	Meeting Agenda (Contract Data Requirements List (CDRL) PM-005)		ASREQ			
7	1.3	Meeting Minutes (CDRL PM-006)		ASREQ			
8	1.4	Issue-Action Item Log (IAIL) (CDRL PM-007)		ASREQ			
9	1.5	Implementation and Maintenance of the Electronic Information Environment (EIE) infrastructure		ASREQ			
10	1.6	Master Project Schedule (MPS) and Work Breakdown Structure (WBS) (Annex CA Statement of Work (SOW) para. 3.1.2.0-6, CDRL PM-003)		R			
11	1.7	Progress Report (SOW para. 3.2.2.0-4, CDRL PM-004)		MNTHY			
12	1.8	Engineering Change Proposal (ECP) (SOW para. 7.3.0-1, CDRL CM-002)		ASREQ			
13	1.9	Request for Deviation/Request for Waiver (SOW para. 7.3.0-3, CDRL CM-006)		ASREQ			
14	1.10	Specification Change Notice (SCN) (SOW para. 7.3.0-4, CDRL CM-007)		ASREQ			
15	1.11	Notice of Revision (NOR) (SOW para. 7.3.0-5, CDRL CM-003)		ASREQ			
16	1.12	Configuration Status Accounting (CSA) Report (SOW para. 7.4.0-1, CDRL CM-008)		MNTHY			
17	1.13	Equipment Breakdown Structure (EBS) (SOW para. 7.2.0-2, CDRL CM-005)		R			
18		NOTE: The definition of "Frequency" can be found in RFP section 2.2.3 to Annex CC to Volume 2.					
19							
20							
21		2.0 Documentation:					
22							
		For the provision of the data items listed below, as stipulated in Annex CA Statement of Work (SOW), and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, upon delivery and acceptance or approval as the case maybe of all data item, Canada shall pay the Contractor a Firm Lot Price thereon of:	Lot	1	\$ _____	\$ _____	
23	FP						
24		Data Items List:					
25	2.1	Master Project Schedule (MPS) and Work Breakdown Structure (WBS) (Annex CA Statement of Work (SOW) para. 3.1.2.0-6, CDRL PM-003)					
26	2.2	Project Management Plan (PMP) (SOW para. 3.1.2.0-1, CDRL PM-001)					
27	2.3	System Engineering Management Plan (SEMP) (SOW para. 3.1.2.0-2, CDRL SE-001)					
28	2.4	Technical Data Management Plan (TDMP) (SOW para. 4.6.0-1, CDRL DM-001)					
29	2.5	Configuration Management Plan (CMP) (SOW para. 3.1.2.0-3, CDRL CM-001)					
30	2.6	Quality Assurance Plan (QAP) (SOW para. 3.1.2.0-4, CDRL PM-002)					
31	2.7	Government Property Reports (SOW para. 4.8.0-2, CDRL PM-010)					

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34 **3.0 Documentation (Phase A Qualification):**
35

For the provision of the data items listed below, as stipulated in Annex CA Statement of Work (SOW), and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, upon delivery and acceptance or approval as the case maybe of all data item, Canada shall pay the Contractor a Firm Lot Price thereon of

FP Lot 1 \$ _____ \$ _____

36
37 **Data Items List:**

- 38 3.1 Interface Control Document (SOW para. 3.2.3.2.0-2, CDRL SE-002):
39 3.1.1 Hardware, software and data interfaces between ISS-ES physical devices hosting ISS functionality.
40 3.1.2 Hardware, software and data interfaces between ISS-S and the SEP-S.
41 3.1.3 Hardware, software and data interfaces between ISS-S and the BMS function on CF Laptop.
42 3.1.4 Hardware, software and data interfaces between ISS-S and the following external systems:
43 3.1.4.1 Coral-CR-C
44 3.1.4.2 DAGR
45 3.1.4.3 PRC 152 LCSS Radio
46 3.1.4.4 PRC 148 LCSS Radio.
47 3.1.4.5 PRC 117 LCSS Radio.
48 3.2 FCA Configuration Audit Plan (CAP) (SOW para. 7.5.0-1, CDRL CM-009):
49 3.3 Software Version Description Document (SVDD) (SOW para. 7.4.0-2, CDRL CM-004)
50 3.4 PCA Configuration Audit Plan (CAP) (SOW para. 7.5.0-1, CDRL CM-009):
51 3.5 Environmental, Health and Safety Assessment (EHSA) (SOW para. 3.2.4.0-2, CDRL PM-008)
52 3.6 Intellectual Property Lists (SOW para. 4.4, CDRL PM-009)
53
54

55 **4.0 Engineering Support Services:**
56

For the provision of Engineering Support Services as stipulated in paragraph 3.2.8.2.0-1 to annex CA, Travel and Living expenses included, the Contractor shall embed all cost in the milestone payments under item 5.0 to this PART 1.

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			Qty U of I	Column A Qty	Column B Milestone Payment	Column C Extended Price Milestone	Column D Milestone Due Date in months from date of contract
59							
60							
61							
62							
63	5.0 Qualification:						
64	Except for the work already itemized somewhere else in this PART 1, Canada shall pay the Contractor milestone payments in accordance with the following schedule of milestones for the execution the Contract Phase A Qualification in accordance with the paragraph 1.2.2.1 to Annex CA Statement of Work and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work:						
65							
66	Mil.						
67	No. Milestone Short Description:						
68	5.1 Upon succesful completion of SRAR as per paragraph 3.1 to Appendix 1 to Annex CA, the following milestone payment:		Lot	1	\$ _____	\$ _____	
69	FP						
70	The SRAR requirements include the provision of the following data items:						
71	5.1.1 Equipment Breakdown Structure (EBS) (SOW para. 7.2.0-2, CDRL CM-005)						
72	5.1.2 Verification and Qualification Plan (VQP) (SOW para. 3.2.8.1.0-1, CDRL SE-004)						
73							
74	5.2 Upon succesful completion of TRR as per paragraph 3.2 to Appendix 1 to Annex CA, the following milestone payment:		Lot	1	\$ _____	\$ _____	
75	FP						
76	The TRR requirements include the provision of the following data items:						
77	5.2.1 System Acceptance Test (SAT) Plan (SOW para. 3.2.9.1.0-1, CDRL SE-007)						
78	5.2.2 SAT Descriptions and Procedures (SATDP) (SOW para. 3.2.9.3.0-1, CDRL SE-008)						
79	5.2.3 Verification Qualification Test Report (SOW para. 3.2.8.1.0-13, CDRL SE-006)						
80	5.2.4 Qualification Test Description and Procedures (QTDP) (SOW para. 3.2.8.1.0-6, CDRL SE-005):						
81							
82	5.3 Upon succesful completion of FQR as per paragraph 3.3 to Appendix 1 to Annex CA, the following milestone payment:		Lot	1	\$ _____	\$ _____	
83	FP						
84	The FQR requirements include the provision of the following data items:						
85	5.3.1 System Acceptance Test Report (SOW para. 3.2.10.2.0-2, CDRL SE-009)						
86	5.3.2 FCA Configuration Audit Report (SOW para. 7.5.0-2, CDRL CM-010)						
87	5.3.3 PCA Configuration Audit Report (SOW para. 7.5.0-2, CDRL CM-010)						
88							
89	NOTE: In connection with Phase A Qualification, the Contractor grants to Canada a limited license to use the Contractor's proposed software solution for testing and evaluation purposes.						
90							
91	6.0 Release of holdback:						
92	Upon Contract Phase A successful completion, the Contractor shall be paid the holdback retained on items 1.0 to 5.0 of this PART 1.						
93							
94							
95	7.0 ISS-A PHASE A WORK BID PRICE					\$ _____	
96							
97	GSTE/HSTE = Goods and Services Tax or the Harmonized Sales Tax excluded						GSTE/HSTE

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ANNEX AB to Volume 2

ISS-A FINANCIAL BID PRESENTATION SHEET

PART 2 (Phase B Production)

(The Part 2 of this annex begins on the next page)

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ANNEX AB to Volume 2
ISS-A FINANCIAL BID PRESENTATION SHEET
PART 2 (Optional Goods and/or Services Phase B (Production))

Last update: March 19, 2013

ISS_A_FBPS_V2.XLS

Line	BP		Qty	Column A	Column B1	Column B2	Column B3	Column C
No.	Code	ITEM'S DESCRIPTIONS	U of I	Qty (Over contract period)	Unit Price (Year 1)	Unit Price (Year 2)	Unit Price (Year 3)	Extended Price
1		8.0 Contract Management (Phase B Production):						
2		For the management of the Contract and all management functions including in particular the provision and/or revision as necessary of all data items listed below, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, the Contractor shall embed all cost in the items 9.0 to 19.0 to this PART 2:						
3								
4		Data Items List:		Frequency				
5		8.1 Phase B Production Kick-off Meeting (Annex CA Statement of Work (SOW) para. 4.3.1.2)		ONE				
6		8.2 Phase B Production, Progress Review Meeting (PRM) (SOW para. 4.3.1.3)		ASREQ				
7		8.3 Phase B Production, Other Meetings and Reviews (SOW para. 4.3.1.4)		ASREQ				
8		8.4 Phase B Production, Technical Review Meetings (SOW para. 5.2.5)		ASREQ				
9		8.5 Production Readiness Review (para. 3.4 to appendix 1 to SOW)		ONE				
10		8.6 Phase B Production, ILS Review Meetings (SOW para. 6.3)		ASREQ				
11		8.7 Meeting Agenda (CDRL PM-005)		ASREQ				
12		8.8 Meeting Minutes (CDRL PM-006)		ASREQ				
13		8.9 Issue-Action Item Log (IAIL) (CDRL PM-007)		ASREQ				
14		8.10 Master Project Schedule (MPS) and Work Breakdown Structure (WBS) (SOW para. 3.1.2.0-6, CDRL PM-003)		R				
15		8.11 Progress Report (SOW para. 3.2.2.0-4, CDRL PM-004)		MONTHLY				
16		8.12 Equipment Breakdown Structure (EBS) (SOW para. 7.2.0-2, CDRL CM-005)		R				
17		NOTE: The definition of "Frequency" can be found in RFP section 2.2.3 to Annex CC to Volume 2.						
18								
19								
20		9.0 Documentation (Phase B Production):						
21		For the provision of the data items below, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, upon delivery and acceptance or approval as the case maybe of all data items, Canada shall pay the Contractor, the Firm Lot Price thereon of						
22								
23	FP	9.1 Documentation set:	Lot	1	\$			\$
24		9.1.1 Maintenance Plan (Annex CA Statement of Work (SOW) para. 6.4.0-1, CDRL LS-005)						
25		9.1.2 Training Program Plan (SOW para. 6.6.1.0-2, CDRL LS-004)						
26		9.1.3 Integrated Logistics Support Plan (ILSP) (SOW para. 3.1.2.0-5, CDRL LS-001)						
27		9.1.4 Production Plan (SOW para. 3.3.2.0-2, CDRL SE-010)						
28		9.1.5 Sparing Analysis Report (SOW para. 6.7.2.0-1, CDRL LS-010)						
29		9.1.6 Recommended Spare Parts List (RSPL) (SOW para. 6.7.2.0-2, CDRL LS-003)						
30		9.1.7 Supplementary Provisioning Technical Data (SPTD) (SOW para. 6.7.2.0-3, CDRL LS-011)						
31		9.1.8 Consumable and Bulk Items List (CBIL) (SOW para. 6.7.2.0-4, CDRL LS-012)						
32		9.1.9 Recommended Support Equipment Requirements List (RSERL) (SOW para. 6.7.4.0-1, CDRL LS-002)						
33		9.1.10 Packaging Data (SOW para. 6.7.5.0-2, CDRL LS-013)						
34		9.1.11 Equipment Identification Plate Data and Markings (SOW para. 6.7.1.0-1, CDRL LS-009)						

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9.1.12 Training Courses (SOW para. 6.6.5.0-3, CDRL LS-008)

9.1.12.1 ICT Operator Instructors training documentation (English)

9.1.12.2 ICT System Manager Instructors training documentation (English)

9.1.12.3 ICT Maintainer' Instructors training documentation (English)

9.1.12.4 ICT Operator Instructors training documentation (French)

9.1.12.5 ICT System Manager Instructors training documentation (French)

9.1.12.6 ICT Maintainer' Instructors training documentation (French)

9.1.13 Technical Publications (SOW para. 6.5.1.0-2, CDRL LS-007)

9.2 Software Documentation (SOW para. 6.4.1.0-1, CDRL LS-006)

Lot 1 \$

9.3 Battery System Description (SOW para. 3.2.4.0-4, CDRL SE-003)

Lot 1 \$

10.0 Integrated Soldier System (ISS) P(SAT) version: (Annex CA Statement of Work (SOW) para. 3.3.4)

The ISS P(SAT) performance shall comply with all the technical requirements of this contract. The ISS P(SAT) price must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance and support services for a minimum period of one (1) year.

For the supply of the following firm quantities of ISS P(SAT), and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor, upon delivery and acceptance of a unit, excluding delivery charges, Firm Unit Prices as follows:

ORDER 1 DESCRIPTION (Table 1 to Annex CF)

10.1 Main Equipment: (SOW para. 3.3.1.1.0-6)

10.1.1 Integrated Soldier System - Electronics Suite (ISS-ES) (SOW para. 3.3.1.1.0-6.0-1)

10.1.1.1	Each	32	\$	\$
10.1.1.2	Each	32	\$	\$
10.1.1.3	Each	32	\$	\$
10.1.1.4	Each	32	\$	\$
10.1.1.5	Each	32	\$	\$
10.1.1.6	Each	32	\$	\$
10.1.1.7	Each	32	\$	\$
10.1.1.8	Each	32	\$	\$
10.1.1.9	Each	32	\$	\$
10.1.1.10	Each	32	\$	\$
10.1.1.11	Each	32	\$	\$
10.1.1.12	Each	32	\$	\$
10.1.1.13	Each	32	\$	\$
10.1.1.14	Each	32	\$	\$
10.1.1.15	Each	32	\$	\$
10.1.1.16	Each	32	\$	\$
10.1.1.17	Each	32	\$	\$
10.1.1.18	Each	32	\$	\$
10.1.1.19	Each	32	\$	\$
10.1.1.20	Each	32	\$	\$

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75	FP	10.1.2 Universal Canophone Set (SOW para. 3.3.1.1.0-6.0-3)	Each	32	\$		\$
76		10.1.3 ISS Battery Sets: (SOW para. 3.3.1.1.0-6.0-5)					
77		10.1.3.1 ISS Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-2)	<i>Each</i>	<i>32</i>			
78		10.1.3.1.1 (Power Domain 1) Rechargeable Battery Set:					
79		10.1.3.1.1.1 Power Domain Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-4)					
80	FP	10.1.3.1.1.1.1 Battery (Type)	Each	—	\$		\$
81		10.1.3.1.1.1.2 Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)	Each	—	\$		\$
82	FP	10.1.3.1.1.2 Quantity of Power Domain Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-5)	Each	—			
83							
84		10.1.3.1.2 (Power Domain 2) Rechargeable Battery Set:					
85		10.1.3.1.2.1 Power Domain Rechargeable Battery Pack:					
86	FP	10.1.3.1.2.1.1 Battery (Type)	Each	—	\$		\$
87	FP	10.1.3.1.2.1.2 Battery Loading/Storage Device	Each	—	\$		\$
88		10.1.3.1.2.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—			
89							
90		10.1.3.1.3 (Power Domain 3) Rechargeable Battery Set:					
91		10.1.3.1.3.1 Power Domain Rechargeable Battery Pack:					
92	FP	10.1.3.1.3.1.1 Battery (Type)	Each	—	\$		\$
93	FP	10.1.3.1.3.1.2 Battery Loading/Storage Device	Each	—	\$		\$
94		10.1.3.1.3.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—			
95							
96		10.1.3.1.4 (Power Domain 4) Rechargeable Battery Set:					
97		10.1.3.1.4.1 Power Domain Rechargeable Battery Pack:					
98	FP	10.1.3.1.4.1.1 Battery (Type)	Each	—	\$		\$
99	FP	10.1.3.1.4.1.2 Battery Loading/Storage Device	Each	—	\$		\$
100		10.1.3.1.4.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—			
101							
102		10.1.3.1.5 (Power Domain 5) Rechargeable Battery Set:					
103		10.1.3.1.5.1 Power Domain Rechargeable Battery Pack:					
104	FP	10.1.3.1.5.1.1 Battery (Type)	Each	—	\$		\$
105	FP	10.1.3.1.5.1.2 Battery Loading/Storage Device	Each	—	\$		\$
106		10.1.3.1.5.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—			

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108	10.1.3.2	ISS Non-Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-1)	Each	64			
109	10.1.3.2.1	(Power Domain 1) Non-Rechargeable Battery Set:					
110	10.1.3.2.1.1	Power Domain Non-Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-2)					
111 FP	10.1.3.2.1.1.1	Battery (Type)	Each	—	\$	—	\$ —
112	10.1.3.2.1.1.2	Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)	Each	—	\$	—	\$ —
113	10.1.3.2.1.2	Quantity of Power Domain Non-Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-3)	Each	—			
114							
115	10.1.3.2.2	(Power Domain 2) Non-Rechargeable Battery Set:					
116	10.1.3.2.2.1	Power Domain Non-Rechargeable Battery Pack:					
117 FP	10.1.3.2.2.1.1	Battery (Type)	Each	—	\$	—	\$ —
118 FP	10.1.3.2.2.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$ —
119	10.1.3.2.2.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			
120							
121	10.1.3.2.3	(Power Domain 3) Non-Rechargeable Battery Set:					
122	10.1.3.2.3.1	Power Domain Non-Rechargeable Battery Pack:					
123 FP	10.1.3.2.3.1.1	Battery (Type)	Each	—	\$	—	\$ —
124 FP	10.1.3.2.3.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$ —
125	10.1.3.2.3.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			
126							
127	10.1.3.2.4	(Power Domain 4) Non-Rechargeable Battery Set:					
128	10.1.3.2.4.1	Power Domain Non-Rechargeable Battery Pack:					
129 FP	10.1.3.2.4.1.1	Battery (Type)	Each	—	\$	—	\$ —
130 FP	10.1.3.2.4.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$ —
131	10.1.3.2.4.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			
132							
133	10.1.3.2.5	(Power Domain 5) Non-Rechargeable Battery Set:					
134	10.1.3.2.5.1	Power Domain Non-Rechargeable Battery Pack:					
135 FP	10.1.3.2.5.1.1	Battery (Type)	Each	—	\$	—	\$ —
136 FP	10.1.3.2.5.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$ —
137	10.1.3.2.5.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			

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139	10.1.4 Modular Load Carriage System (MLCS): (SOW para. 3.3.1.1.0-6.0-7)					
140 FP	10.1.4.1 MLCS Platform (Small size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	22	\$		\$
141 FP	10.1.4.2 MLCS Platform (Medium size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	10	\$		\$
142	10.1.4.3 MLCS ISS Pouch Set: (SOW para. 3.3.1.1.0-6.0-7.0-2)					
143 FP	10.1.4.3.1	Each	32	\$		\$
144 FP	10.1.4.3.2	Each	32	\$		\$
145 FP	10.1.4.3.3	Each	32	\$		\$
146 FP	10.1.4.3.4	Each	32	\$		\$
147 FP	10.1.4.3.5	Each	32	\$		\$
148 FP	10.1.4.3.6	Each	32	\$		\$
149 FP	10.1.4.3.7	Each	32	\$		\$
150 FP	10.1.4.3.8	Each	32	\$		\$
151 FP	10.1.4.3.9	Each	32	\$		\$
152 FP	10.1.4.3.10	Each	32	\$		\$
153	10.2 Accessory Items: (SOW para. 3.3.1.1.0-7)					
154 FP	10.2.1 DAGR Interface Cable (SOW para. 3.3.1.1.0-7.0-1)	Each	5	\$		\$
155 FP	10.2.2 CORAL-CR-C Interface Cable (SOW para. 3.3.1.1.0-7.0-2)	Each	5	\$		\$
156	10.2.3 LCSS Radio Interface Cable Set (SOW para. 3.3.1.1.0-7.0-3)					
157 FP	10.2.3.1	Each	5	\$		\$
158 FP	10.2.3.2	Each	5	\$		\$
159 FP	10.2.3.3	Each	5	\$		\$
160 FP	10.2.3.4	Each	5	\$		\$
161 FP	10.2.3.5	Each	5	\$		\$
162 FP	10.2.3.6	Each	5	\$		\$
163 FP	10.2.3.7	Each	5	\$		\$
164 FP	10.2.3.8	Each	5	\$		\$
165 FP	10.2.3.9	Each	5	\$		\$
166 FP	10.2.3.10	Each	5	\$		\$
167	10.3 Technical Documentation:					
168	(NOT APPLICABLE)					
169	10.4 Support Equipment: (SOW para. 3.3.1.1.0-8.0-2)					
170	10.4.1 Recommended Support Equipment: (SOW para. 3.3.1.1.0-8.0-2.0-1)					
171	(SEE ITEM 15.0 TO THIS PART 2)					
172 FP	10.4.2 System Executive Planning Suite (SEP-S) software (SOW para. 3.3.1.1.0-8.0-2.0-2)	Each	3	\$		\$
173 FP	10.4.3 Battle Management System (BMS) software on CF Laptop (SOW para. 3.3.1.1.0-8.0-2.0-3)	Each	3	\$		\$

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174	10.4.4	Battery Charger Set: (SOW para. 3.3.1.1.0-8.0-2.0-4)					
175		For the purchase of Battery chargers to support a block of 32 ISS Rechargeable Battery Sets as per the definitions of "Battery Charger Set" provided in paragraph 3.3.1.1.0-8.0-2.0-4 to Annex CA SOW, the ancillaries being broke down as per the following:					
176	10.4.4.1.	(Power Domain 1) Battery Charger:					
177 FP	10.4.4.1.1		Each	—	\$		\$
178 FP	10.4.4.1.2		Each	—	\$		\$
179 FP	10.4.4.1.3		Each	—	\$		\$
180 FP	10.4.4.1.4		Each	—	\$		\$
181 FP	10.4.4.1.5		Each	—	\$		\$
182	10.4.4.2.	(Power Domain 2) Battery Charger:					
183 FP	10.4.4.2.1		Each	—	\$		\$
184 FP	10.4.4.2.2		Each	—	\$		\$
185 FP	10.4.4.2.3		Each	—	\$		\$
186 FP	10.4.4.2.4		Each	—	\$		\$
187 FP	10.4.4.2.5		Each	—	\$		\$
188	10.4.4.3.	(Power Domain 3) Battery Charger:					
189 FP	10.4.4.3.1		Each	—	\$		\$
190 FP	10.4.4.3.2		Each	—	\$		\$
191 FP	10.4.4.3.3		Each	—	\$		\$
192 FP	10.4.4.3.4		Each	—	\$		\$
193 FP	10.4.4.3.5		Each	—	\$		\$
194	10.4.4.4.	(Power Domain 4) Battery Charger:					
195 FP	10.4.4.4.1		Each	—	\$		\$
196 FP	10.4.4.4.2		Each	—	\$		\$
197 FP	10.4.4.4.3		Each	—	\$		\$
198 FP	10.4.4.4.4		Each	—	\$		\$
199 FP	10.4.4.4.5		Each	—	\$		\$
200	10.4.4.5.	(Power Domain 5) Battery Charger:					
201 FP	10.4.4.5.1		Each	—	\$		\$
202 FP	10.4.4.5.2		Each	—	\$		\$
203 FP	10.4.4.5.3		Each	—	\$		\$
204 FP	10.4.4.5.4		Each	—	\$		\$
205 FP	10.4.4.5.5		Each	—	\$		\$
206							
207							
208	11.0	Pilot Initial Cadre Training (ICT) courses: (Annex CA Statement of Work (SOW) para. 6.6)					
209		For the supply of Pilot ICT courses in accordance with SOW para. 6.6.2.0-1, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor, upon delivery and acceptance of the serials listed below, Firm Unit Prices as follows:					
210							
211		ORDER 1 DESCRIPTION (Table 2-1 to Annex CF)					
212	11.1	English Training:					
213 FP	11.1.1	Pilot ICT Operator Instructors Course for 12 students	Serial	1	\$		\$
214 FP	11.1.2	Pilot ICT System Manager Instructors Course for 12 students	Serial	1	\$		\$
215 FP	11.1.3	Pilot ICT Maintainer' Instructors Course for 12 students	Serial	1	\$		\$
216	11.2	French Training:					
217 FP	11.2.1	Pilot ICT Operator Instructors Course for 12 students	Serial	1	\$		\$
218 FP	11.2.2	Pilot ICT System Manager Instructors Course for 12 students	Serial	1	\$		\$
219 FP	11.2.3	Pilot ICT Maintainer' Instructors Course for 12 students	Serial	1	\$		\$

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12.0 Initial Cadre Training (ICT) courses: (Annex CA Statement of Work (SOW) para. 6.6)

For the supply of 2 ICT Operator Instructors Courses, 2 ICT System Manager Instructors Courses and 2 ICT Maintainer' Instructors Courses delivered in an official languages to be determined after contract award, in accordance with SOW para. 6.6.2.0-3, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor, upon delivery and acceptance of the serials, Firm Unit Prices as per item 4 to appendix 1 to this annex.

ORDER 1 DESCRIPTION (Table 2-1 to Annex CF)

13.0 Integrated Soldier System (ISS) P(Prod) version: (Annex CA Statement of Work (SOW) para. 3.3.5)

The ISS P(Prod) performance shall comply with all the technical requirements of this contract. The ISS P(Prod) price must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance and support services for a minimum period of one (1) year.

For the supply of the following firm quantities of ISS P(Prod), as defined in SOW para. 3.3.0-1, in multiple batches, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor, upon delivery and acceptance of a unit, excluding delivery charges, Firm Unit Prices as follows:

ORDER 1 DESCRIPTION (Table 2-2 and 2-3-2 to Annex CF)

13.1 Main Equipment (SOW para. 3.3.1.1.0-6)

13.1.1 Integrated Soldier System - Electronics Suite (ISS-ES) (SOW para. 3.3.1.1.0-6.0-1)

235 FP	13.1.1.1	Each	1600	\$	
236 FP	13.1.1.2	Each	1600	\$	
237 FP	13.1.1.3	Each	1600	\$	
238 FP	13.1.1.4	Each	1600	\$	
239 FP	13.1.1.5	Each	1600	\$	
240 FP	13.1.1.6	Each	1600	\$	
241 FP	13.1.1.7	Each	1600	\$	
242 FP	13.1.1.8	Each	1600	\$	
243 FP	13.1.1.9	Each	1600	\$	
244 FP	13.1.1.10	Each	1600	\$	
245 FP	13.1.1.11	Each	1600	\$	
246 FP	13.1.1.12	Each	1600	\$	
247 FP	13.1.1.13	Each	1600	\$	
248 FP	13.1.1.14	Each	1600	\$	
249 FP	13.1.1.15	Each	1600	\$	
250 FP	13.1.1.16	Each	1600	\$	
251 FP	13.1.1.17	Each	1600	\$	
252 FP	13.1.1.18	Each	1600	\$	
253 FP	13.1.1.19	Each	1600	\$	
254 FP	13.1.1.20	Each	1600	\$	

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256 FP	13.1.2 Universal Canophone Set (SOW para. 3.3.1.1.0-6.0-3)	Each	1600	\$ _____	\$ _____
257	13.1.3 ISS Battery Sets: (SOW para. 3.3.1.1.0-6.0-5)				
258	13.1.3.1 ISS Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-2)	<i>Each</i>	<i>520</i>		
259	13.1.3.1.1 (Power Domain 1) Rechargeable Battery Set:				
260	13.1.3.1.1.1 Power Domain Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-4)				
261 FP	13.1.3.1.1.1.1 Battery (Type)	Each	—	\$ _____	\$ _____
262	13.1.3.1.1.1.2 Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)	Each	—	\$ _____	\$ _____
263	13.1.3.1.1.2 Quantity of Power Domain Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-5)	Each	—		
264					
265	13.1.3.1.2 (Power Domain 2) Rechargeable Battery Set:				
266	13.1.3.1.2.1 Power Domain Rechargeable Battery Pack:				
267 FP	13.1.3.1.2.1.1 Battery (Type)	Each	—	\$ _____	\$ _____
268 FP	13.1.3.1.2.1.2 Battery Loading/Storage Device	Each	—	\$ _____	\$ _____
269	13.1.3.1.2.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—		
270					
271	13.1.3.1.3 (Power Domain 3) Rechargeable Battery Set:				
272	13.1.3.1.3.1 Power Domain Rechargeable Battery Pack:				
273 FP	13.1.3.1.3.1.1 Battery (Type)	Each	—	\$ _____	\$ _____
274 FP	13.1.3.1.3.1.2 Battery Loading/Storage Device	Each	—	\$ _____	\$ _____
275	13.1.3.1.3.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—		
276					
277	13.1.3.1.4 (Power Domain 4) Rechargeable Battery Set:				
278	13.1.3.1.4.1 Power Domain Rechargeable Battery Pack:				
279 FP	13.1.3.1.4.1.1 Battery (Type)	Each	—	\$ _____	\$ _____
280 FP	13.1.3.1.4.1.2 Battery Loading/Storage Device	Each	—	\$ _____	\$ _____
281	13.1.3.1.4.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—		
282					
283	13.1.3.1.5 (Power Domain 5) Rechargeable Battery Set:				
284	13.1.3.1.5.1 Power Domain Rechargeable Battery Pack:				
285 FP	13.1.3.1.5.1.1 Battery (Type)	Each	—	\$ _____	\$ _____
286 FP	13.1.3.1.5.1.2 Battery Loading/Storage Device	Each	—	\$ _____	\$ _____
287	13.1.3.1.5.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—		

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289	13.1.3.2	ISS Non-Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-1)	Each	6064			
290	13.1.3.2.1	(Power Domain 1) Non-Rechargeable Battery Set:					
291	13.1.3.2.1.1	Power Domain Non-Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-2)					
292 FP	13.1.3.2.1.1.1	Battery (Type)	Each	—	\$	—	\$
293	13.1.3.2.1.1.2	Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)	Each	—	\$	—	\$
294	13.1.3.2.1.2	Quantity of Power Domain Non-Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-3)	Each	—			
295							
296	13.1.3.2.2	(Power Domain 2) Non-Rechargeable Battery Set:					
297	13.1.3.2.2.1	Power Domain Non-Rechargeable Battery Pack:					
298 FP	13.1.3.2.2.1.1	Battery (Type)	Each	—	\$	—	\$
299 FP	13.1.3.2.2.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$
300	13.1.3.2.2.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			
301							
302	13.1.3.2.3	(Power Domain 3) Non-Rechargeable Battery Set:					
303	13.1.3.2.3.1	Power Domain Non-Rechargeable Battery Pack:					
304 FP	13.1.3.2.3.1.1	Battery (Type)	Each	—	\$	—	\$
305 FP	13.1.3.2.3.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$
306	13.1.3.2.3.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			
307							
308	13.1.3.2.4	(Power Domain 4) Non-Rechargeable Battery Set:					
309	13.1.3.2.4.1	Power Domain Non-Rechargeable Battery Pack:					
310 FP	13.1.3.2.4.1.1	Battery (Type)	Each	—	\$	—	\$
311 FP	13.1.3.2.4.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$
312	13.1.3.2.4.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			
313							
314	13.1.3.2.5	(Power Domain 5) Non-Rechargeable Battery Set:					
315	13.1.3.2.5.1	Power Domain Non-Rechargeable Battery Pack:					
316 FP	13.1.3.2.5.1.1	Battery (Type)	Each	—	\$	—	\$
317 FP	13.1.3.2.5.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$
318	13.1.3.2.5.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			
319	13.1.4	Modular Load Carriage System (MLCS): (SOW para. 3.3.1.1.0-6.0-7.0)					
320 FP	13.1.4.1	MLCS Platform (Small size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	1457	\$	—	\$
321 FP	13.1.4.2	MLCS Platform (Medium size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	622	\$	—	\$
322	13.1.4.3	MLCS ISS Pouch Set: (SOW para. 3.3.1.1.0-6.0-7.0-2)					
323 FP	13.1.4.3.1		Each	1600	\$	—	\$
324 FP	13.1.4.3.2		Each	1600	\$	—	\$
325 FP	13.1.4.3.3		Each	1600	\$	—	\$
326 FP	13.1.4.3.4		Each	1600	\$	—	\$
327 FP	13.1.4.3.5		Each	1600	\$	—	\$
328 FP	13.1.4.3.6		Each	1600	\$	—	\$
329 FP	13.1.4.3.7		Each	1600	\$	—	\$
330 FP	13.1.4.3.8		Each	1600	\$	—	\$
331 FP	13.1.4.3.9		Each	1600	\$	—	\$
332 FP	13.1.4.3.10		Each	1600	\$	—	\$

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333	13.2	Accessory Items: (SOW para. 3.3.1.1.0-7)					
334 FP	13.2.1	DAGR Interface Cable (SOW para. 3.3.1.1.0-7.0-1)	Each	310	\$		\$
335 FP	13.2.2	CORAL-CR-C Interface Cable (SOW para. 3.3.1.1.0-7.0-2)	Each	84	\$		\$
336	13.2.3	LCSS Radio Interface Cable Set (SOW para. 3.3.1.1.0-7.0-3)					
337 FP	13.2.3.1		Each	310	\$		\$
338 FP	13.2.3.2		Each	310	\$		\$
339 FP	13.2.3.3		Each	310	\$		\$
340 FP	13.2.3.4		Each	310	\$		\$
341 FP	13.2.3.5		Each	310	\$		\$
342 FP	13.2.3.6		Each	310	\$		\$
343 FP	13.2.3.7		Each	310	\$		\$
344 FP	13.2.3.8		Each	310	\$		\$
345 FP	13.2.3.9		Each	310	\$		\$
346 FP	13.2.3.10		Each	310	\$		\$
347	13.3	Technical documentation: (SOW para. 3.3.1.1.0-8.0-1)					
348	13.3.1	Original copy:					
349		(SEE ITEM 9.1.13 TO THIS PART 2)					
350	13.3.2	Additional copy:					
351 FP	13.3.2.1	ISS-S User Manual - Bilingual	Each	1600	\$		\$
352 FP	13.3.2.2	ISS-S Technical Manual - Bilingual	Each	64	\$		\$
353 FP	13.3.2.3	ISS-S Quick Reference Manual - Bilingual	Each	1600	\$		\$
354	13.4	Support Equipment: (SOW para. 3.3.1.1.0-8.0-2)					
355	13.4.1	Recommended Support Equipment: (SOW para. 3.3.1.1.0-8.0-2.0-1)					
356		(SEE ITEM 15.0 TO THIS PART 2)					
357 FP	13.4.2	System Executive Planning Suite (SEP-S) software (SOW para. 3.3.1.1.0-8.0-2.0-2)	Each	38	\$		\$
358 FP	13.4.3	Battle Management System (BMS) software on CF Laptop (SOW para. 3.3.1.1.0-8.0-2.0-3)	Each	96	\$		\$
359	13.4.4	Battery Charger Set: (SOW para. 3.3.1.1.0-8.0-2.0-4)					
360							
For the purchase of Battery chargers to support a block of 168 ISS Rechargeable Battery Sets and separately another block of 176 ISS Rechargeable Battery Sets as per the definitions of "Battery Charger Set" provided in paragraph 3.3.1.1.0-8.0-2.0-4 to Annex CA SOW, the ancillaries being broke down as per the following:							
361	13.4.4.1.	(Power Domain 1) Battery Charger:					
362 FP	13.4.4.1.1		Each	—	\$		\$
363 FP	13.4.4.1.2		Each	—	\$		\$
364 FP	13.4.4.1.3		Each	—	\$		\$
365 FP	13.4.4.1.4		Each	—	\$		\$
366 FP	13.4.4.1.5		Each	—	\$		\$
367	13.4.4.2.	(Power Domain 2) Battery Charger:					
368 FP	13.4.4.2.1		Each	—	\$		\$
369 FP	13.4.4.2.2		Each	—	\$		\$
370 FP	13.4.4.2.3		Each	—	\$		\$
371 FP	13.4.4.2.4		Each	—	\$		\$
372 FP	13.4.4.2.5		Each	—	\$		\$

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373	13.4.4.3.	(Power Domain 3) Battery Charger:				
374 FP	13.4.4.3.1		Each	—	\$	
375 FP	13.4.4.3.2		Each	—	\$	
376 FP	13.4.4.3.3		Each	—	\$	
377 FP	13.4.4.3.4		Each	—	\$	
378 FP	13.4.4.3.5		Each	—	\$	
379	13.4.4.4.	(Power Domain 4) Battery Charger:				
380 FP	13.4.4.4.1		Each	—	\$	
381 FP	13.4.4.4.2		Each	—	\$	
382 FP	13.4.4.4.3		Each	—	\$	
383 FP	13.4.4.4.4		Each	—	\$	
384 FP	13.4.4.4.5		Each	—	\$	
385	13.4.4.5.	(Power Domain 5) Battery Charger:				
386 FP	13.4.4.5.1		Each	—	\$	
387 FP	13.4.4.5.2		Each	—	\$	
388 FP	13.4.4.5.3		Each	—	\$	
389 FP	13.4.4.5.4		Each	—	\$	
390 FP	13.4.4.5.5		Each	—	\$	

391

392

393

394

14.0 Batch Delivery Charges: (Annex CA Statement of Work (SOW) para. 6.7.5 and item 9.1.10 to this PART 2)

For the cost of delivery of the following batches and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor, upon delivery and acceptance of an entire batch as defined in Contract article 4.2.3.2., Ceiling Lot Prices, as follows:

395

396

397

ORDER 1 DESCRIPTION

398 LE	14.1	Delivery of P(SAT) ISS-S Batch (Table 1 to Annex CF)	Batch	1	\$	
399 LE	14.2	Delivery of Initial Training Batch (Table 2.2.1 to Annex CF)	Batch	1	\$	
400 LE	14.3	Delivery of Operational Stock Batch (Table 2.2.2 to Annex CF)	Batch	1	\$	
401 LE	14.4	Delivery of Task Force 1 Batch (Table 2.3.2 to Annex CF)	Batch	1	\$	
402 LE	14.5	Delivery of Task Force 2 Batch (Table 2.3.2 to Annex CF)	Batch	1	\$	

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405 **15.0 ISS-A Support Equipment: (Annex CA Statement of Work (SOW) para. 3.3.1.1.0-8.0-2.0-1)**

406 The Support Equipment performance shall comply with all the technical requirements of this contract. The Support Equipment prices must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance and support services for a minimum period of one (1) year.

407 For the supply of Support Equipment on an if, as, and when requested basis, upon delivery and acceptance, excluding delivery charges, Canada shall pay the Contractor as follows:

408

409 15.1 When the ISS-A support equipment is listed in this annex's appendix 5, the contractor shall be paid the Firm Unit Prices as per that appendix.

410

411 15.2 When an ISS-A support equipment is to be added to this annex's appendix 5, its Firm Unit Price is to be negotiated in accordance with Contract articles 6.7 and 6.8, and will be actual cost plus a firm mark-up thereon of:

412 LE	15.2.1 Contractor Manufactured Parts (CMP)	\$	\$250,000.00	___%	\$ _____
413 LE	15.2.2 Contractor Acquired Parts (CAP)	\$	\$250,000.00	___%	\$ _____

414

415

416 **16.0 ISS-A Consumable and Bulk Items (CBD):**

417 The CBI performance shall comply with all the technical requirements of this contract. The CBI prices must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance and support services for a minimum period of one (1) year.

418 For the supply of Consumable and Bulk Items on an if, as, and when requested basis, upon delivery and acceptance, excluding delivery charges, Canada shall pay the Contractor as follows:

419

420 16.1 When the ISS-A Consumable and Bulk Items is listed in this annex's appendix 5, the contractor shall be paid the Firm Unit Prices as per that appendix.

421

422 16.2 When an ISS-A Consumable and Bulk Item is to be added to this annex's appendix 5, its Firm Unit Price is to be negotiated in accordance with Contract articles 6.7 and 6.8, and will be actual cost plus a firm mark-up thereon of:

423 LE	16.2.1 Contractor Manufactured Parts (CMP)	\$	\$250,000.00	___%	\$ _____
424 LE	16.2.2 Contractor Acquired Parts (CAP)	\$	\$250,000.00	___%	\$ _____

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17.0 ISS-A Spare Parts:

The ISS Spare Parts performance shall comply with all the technical requirements of this contract. The ISS Spare Parts prices must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance and support services for a minimum period of one (1) year.

For the supply of ISS Spare Parts on an if, as, and when requested basis, upon delivery and acceptance, excluding delivery charges, Canada shall pay the Contractor as follow:

17.1 Main Equipment (SOW para. 3.3.1.1.0-6)

17.1.1 Integrated Soldier System - Electronics Suite (ISS-ES) (SOW para. 3.3.1.1.0-6.0-1)

17.1.1.1	Each	200	\$	
17.1.1.2	Each	200	\$	
17.1.1.3	Each	200	\$	
17.1.1.4	Each	200	\$	
17.1.1.5	Each	200	\$	
17.1.1.6	Each	200	\$	
17.1.1.7	Each	200	\$	
17.1.1.8	Each	200	\$	
17.1.1.9	Each	200	\$	
17.1.1.10	Each	200	\$	
17.1.1.11	Each	200	\$	
17.1.1.12	Each	200	\$	
17.1.1.13	Each	200	\$	
17.1.1.14	Each	200	\$	
17.1.1.15	Each	200	\$	
17.1.1.16	Each	200	\$	
17.1.1.17	Each	200	\$	
17.1.1.18	Each	200	\$	
17.1.1.19	Each	200	\$	
17.1.1.20	Each	200	\$	

17.1.2 Universal Canophone Set (SOW para. 3.3.1.1.0-6.0-3)

Each 200 \$

17.1.3 ISS Battery Sets: (SOW para. 3.3.1.1.0-6.0-5)

17.1.3.1 ISS Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-2)

Each 200

17.1.3.1.1 (Power Domain 1) Rechargeable Battery Set:

17.1.3.1.1.1 Power Domain Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-4)

17.1.3.1.1.1.1 Battery (Type) Each \$

17.1.3.1.1.1.2 Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6) Each \$

17.1.3.1.1.2 Quantity of Power Domain Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-5)

Each

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463	17.1.3.1.2	(Power Domain 2) Rechargeable Battery Set:					
464	17.1.3.1.2.1	Power Domain Rechargeable Battery Pack:					
465 LE	17.1.3.1.2.1.1	Battery (Type)	Each	—	\$	—	\$
466 LE	17.1.3.1.2.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$
467	17.1.3.1.2.2	Quantity of Power Domain Rechargeable Battery Pack	Each	—			
468							
469	17.1.3.1.3	(Power Domain 3) Rechargeable Battery Set:					
470	17.1.3.1.3.1	Power Domain Rechargeable Battery Pack:					
471 LE	17.1.3.1.3.1.1	Battery (Type)	Each	—	\$	—	\$
472 LE	17.1.3.1.3.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$
473	17.1.3.1.3.2	Quantity of Power Domain Rechargeable Battery Pack	Each	—			
474							
475	17.1.3.1.4	(Power Domain 4) Rechargeable Battery Set:					
476	17.1.3.1.4.1	Power Domain Rechargeable Battery Pack:					
477 LE	17.1.3.1.4.1.1	Battery (Type)	Each	—	\$	—	\$
478 LE	17.1.3.1.4.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$
479	17.1.3.1.4.2	Quantity of Power Domain Rechargeable Battery Pack	Each	—			
480							
481	17.1.3.1.5	(Power Domain 5) Rechargeable Battery Set:					
482	17.1.3.1.5.1	Power Domain Rechargeable Battery Pack:					
483 LE	17.1.3.1.5.1.1	Battery (Type)	Each	—	\$	—	\$
484 LE	17.1.3.1.5.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$
485	17.1.3.1.5.2	Quantity of Power Domain Rechargeable Battery Pack	Each	—			
486							
487	17.1.3.2	ISS Non-Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-1)	Each	800			
488	17.1.3.2.1	(Power Domain 1) Non-Rechargeable Battery Set:					
489	17.1.3.2.1.1	Power Domain Non-Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-2)					
490 LE	17.1.3.2.1.1.1	Battery (Type)	Each	—	\$	—	\$
491	17.1.3.2.1.1.2	Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)	Each	—	\$	—	\$
492	17.1.3.2.1.2	Quantity of Power Domain Non-Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-3)	Each	—			
493							
494	17.1.3.2.2	(Power Domain 2) Non-Rechargeable Battery Set:					
495	17.1.3.2.2.1	Power Domain Non-Rechargeable Battery Pack:					
496 LE	17.1.3.2.2.1.1	Battery (Type)	Each	—	\$	—	\$
497 LE	17.1.3.2.2.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$
498	17.1.3.2.2.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			
499							
500	17.1.3.2.3	(Power Domain 3) Non-Rechargeable Battery Set:					
501	17.1.3.2.3.1	Power Domain Non-Rechargeable Battery Pack:					
502 LE	17.1.3.2.3.1.1	Battery (Type)	Each	—	\$	—	\$
503 LE	17.1.3.2.3.1.2	Battery Loading/Storage Device	Each	—	\$	—	\$
504	17.1.3.2.3.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—			

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506	17.1.3.2.4	(Power Domain 4) Non-Rechargeable Battery Set:				
507	17.1.3.2.4.1	Power Domain Non-Rechargeable Battery Pack:				
508 LE	17.1.3.2.4.1.1	Battery (Type)	Each	—	\$	\$
509 LE	17.1.3.2.4.1.2	Battery Loading/Storage Device	Each	—	\$	\$
510	17.1.3.2.4.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—		
511						
512	17.1.3.2.5	(Power Domain 5) Non-Rechargeable Battery Set:				
513	17.1.3.2.5.1	Power Domain Non-Rechargeable Battery Pack:				
514 LE	17.1.3.2.5.1.1	Battery (Type)	Each	—	\$	\$
515 LE	17.1.3.2.5.1.2	Battery Loading/Storage Device	Each	—	\$	\$
516	17.1.3.2.5.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	—		
517	17.1.4	Modular Load Carriage System (MLCS): (SOW para. 3.3.1.1.0-6.0-7)				
518 LE	17.1.4.1	MLCS Platform (Small size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	183	\$	\$
519 LE	17.1.4.2	MLCS Platform (Medium size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	78	\$	\$
520	17.1.4.3	MLCS ISS Pouch Set: (SOW para. 3.3.1.1.0-6.0-7.0-2)				
521 LE	17.1.4.3.1		Each	200	\$	\$
522 LE	17.1.4.3.2		Each	200	\$	\$
523 LE	17.1.4.3.3		Each	200	\$	\$
524 LE	17.1.4.3.4		Each	200	\$	\$
525 LE	17.1.4.3.5		Each	200	\$	\$
526 LE	17.1.4.3.6		Each	200	\$	\$
527 LE	17.1.4.3.7		Each	200	\$	\$
528 LE	17.1.4.3.8		Each	200	\$	\$
529 LE	17.1.4.3.9		Each	200	\$	\$
530 LE	17.1.4.3.10		Each	200	\$	\$
531	17.2	Accessory Items: (SOW para. 3.3.1.1.0-7)				
532 LE	17.2.1	DAGR Interface Cable (SOW para. 3.3.1.1.0-7.0-1)	Each	42	\$	\$
533 LE	17.2.2	CORAL-CR-C Interface Cable (SOW para. 3.3.1.1.0-7.0-2)	Each	13	\$	\$
534	17.2.3	LCSS Radio Interface Cable Set (SOW para. 3.3.1.1.0-7.0-3)				
535 LE	17.2.3.1		Each	42	\$	\$
536 LE	17.2.3.2		Each	42	\$	\$
537 LE	17.2.3.3		Each	42	\$	\$
538 LE	17.2.3.4		Each	42	\$	\$
539 LE	17.2.3.5		Each	42	\$	\$
540 LE	17.2.3.6		Each	42	\$	\$
541 LE	17.2.3.7		Each	42	\$	\$
542 LE	17.2.3.8		Each	42	\$	\$
543 LE	17.2.3.9		Each	42	\$	\$
544 LE	17.2.3.10		Each	42	\$	\$

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545	17.3	Technical documentation: (SOW para. 3.3.1.1.0-8.0-1)				
546		(NOT APPLICABLE)				
547	17.4	Support Equipment: (SOW para. 3.3.1.1.0-8.0-2)				
548	17.4.1	Recommended Support Equipment: (SOW para. 3.3.1.1.0-8.0-2.0-1)				
549		(NOT APPLICABLE)				
550	17.4.2	System Executive Planning Suite (SEP-S) software (SOW para. 3.3.1.1.0-8.0-2.0-2)				
551		(NOT APPLICABLE)				
552	17.4.3	Battle Management System (BMS) software on CF Laptop (SOW para. 3.3.1.1.0-8.0-2.0-3)				
553		(NOT APPLICABLE)				
554	17.4.4	Battery Charger Set: (SOW para. 3.3.1.1.0-8.0-2.0-4)				
555		For the purchase of Battery chargers to support a block of 200 ISS Rechargeable Battery Sets as per the definitions of "Battery Charger Set" provided in paragraph 3.3.1.1.0-8.0-2.0-4 to Annex CA SOW, the ancillaries being broke down as per the following:				
556	17.4.4.1.	(Power Domain 1) Battery Charger:				
557 LE	17.4.4.1.1		Each	—	\$	\$
558 LE	17.4.4.1.2		Each	—	\$	\$
559 LE	17.4.4.1.3		Each	—	\$	\$
560 LE	17.4.4.1.4		Each	—	\$	\$
561 LE	17.4.4.1.5		Each	—	\$	\$
562	17.4.4.2.	(Power Domain 2) Battery Charger:				
563 LE	17.4.4.2.1		Each	—	\$	\$
564 LE	17.4.4.2.2		Each	—	\$	\$
565 LE	17.4.4.2.3		Each	—	\$	\$
566 LE	17.4.4.2.4		Each	—	\$	\$
567 LE	17.4.4.2.5		Each	—	\$	\$
568	17.4.4.3.	(Power Domain 3) Battery Charger:				
569 LE	17.4.4.3.1		Each	—	\$	\$
570 LE	17.4.4.3.2		Each	—	\$	\$
571 LE	17.4.4.3.3		Each	—	\$	\$
572 LE	17.4.4.3.4		Each	—	\$	\$
573 LE	17.4.4.3.5		Each	—	\$	\$
574	17.4.4.4.	(Power Domain 4) Battery Charger:				
575 LE	17.4.4.4.1		Each	—	\$	\$
576 LE	17.4.4.4.2		Each	—	\$	\$
577 LE	17.4.4.4.3		Each	—	\$	\$
578 LE	17.4.4.4.4		Each	—	\$	\$
579 LE	17.4.4.4.5		Each	—	\$	\$
580	17.4.4.5.	(Power Domain 5) Battery Charger:				
581 LE	17.4.4.5.1		Each	—	\$	\$
582 LE	17.4.4.5.2		Each	—	\$	\$
583 LE	17.4.4.5.3		Each	—	\$	\$
584 LE	17.4.4.5.4		Each	—	\$	\$
585 LE	17.4.4.5.5		Each	—	\$	\$

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586	17.5	ISS-A ISS P(Prod) Spare Parts Price negotiation:				
587		When an ISS-A ISS Spare Part is to be added to this annex's appendix 5, its Firm Unit Price is to be negotiated in accordance with Contract articles 6.7 and 6.8 and will be actual cost plus a firm mark-up thereon of				
588						
589	LE	17.5.1 Contractor Manufactured Parts (CMP)	\$	\$1,000,000.00	%	\$
590	LE	17.5.2 Contractor Acquired Parts (CAP)	\$	\$1,000,000.00	%	\$
591						
592						
593	18.0	Substitution and alternative:				
594		For the supply of substitution or alternative to an existing product listed in the Contract during the Contract period in accordance with the Contract article 24, Firm Unit Prices To Be Negotiated (TBN). Price negotiation will be governed by the following:				
595						
596	18.1	Firm Unit Prices TBN in accordance with Contract article 6.7 and 24.				
597						
598						
599	19.0	Spare Parts Orders (SPO):				
600						
601		SPOs DESCRIPTION:				
602						
603	19.1	For the supply of Spare Parts as detailed under Attachment <u>TBD</u> to Appendix 6 to Annex AB, Canada shall pay the Contractor, upon delivery and acceptance, the Firm Lot Price thereon of				
604		The order date is <u>TBD</u> . All deliverables must be delivered on or before <u>TBD</u> .				
605						
606						
607						
608						
609	20.0	ISS-A PHASE B WORK BID PRICE				\$
610						GSTE/HSTE
611		GSTE/HSTE = Goods and Services Tax or the Harmonized Sales Tax excluded				

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PART 3 (Miscellaneous Work (Not phased specific))

(The Part 3 of this annex begins on the next page)

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PART 3 (Miscellaneous Work (Not phased specific))

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Line	BP			Qty	Column A	Column B	Column B1	Column B2	Column B3	Column C
No.	Code	ITEM'S DESCRIPTIONS		U of I	Qty	Unit Price	Unit Price	Unit Price	Unit Price	Extended
					(Over Contract period)	(Phase A period)	(Year 1)	(Year 2)	(Year 3)	Price
1		21.0 Engineering Support Services (SOW para. 5.4)								
2		When Authorized - for the provision of Engineering Support Services using the following labour categories having the minimum mandatory qualifications as stipulated in contract appendix 4 to annex CA SOW, Canada shall pay the Contractor, the Firm								
3		Hourly Rates specified herein:								
4		21.1 Normal business hours:								
5										
6		DESCRIPTION (Labour categories):								
7	LE	21.1.1 ISSE - Intermediate Software System Engineer	Hrs	960		\$ _____				\$ _____
8	LE	21.1.2 ISS - Intermediate Software Specialist	Hrs	600		\$ _____				\$ _____
9	LE	21.1.3 SSTE - Senior Software Test Engineer	Hrs	420		\$ _____				\$ _____
10	LE	21.1.4 IILSS - Intermediate Integrated Logistics Support Specialist	Hrs	600		\$ _____				\$ _____
11	LE	21.1.5 ITS - Intermediate Test Specialist	Hrs	480		\$ _____				\$ _____
12	LE	21.1.6 IST - Intermediate System Technologist	Hrs	720		\$ _____				\$ _____
13	LE	21.1.7 IHE - Intermediate Hardware Engineer	Hrs	360		\$ _____				\$ _____
14	LE	21.1.8 SSE - Senior System Engineer	Hrs	540		\$ _____				\$ _____
15	LE	21.1.9 JSE - Junior System Engineer	Hrs	480		\$ _____				\$ _____
16	LE	21.1.10 ISFE - Intermediate Software/Firmware Engineer	Hrs	720		\$ _____				\$ _____
17	LE	21.1.11 SQS - Senior Quality Specialist	Hrs	120		\$ _____				\$ _____
18										
19		21.1.12 Normal business hours total expected workload	Hrs	6000						
20										
21		21.2 Outside normal business hours (Monday to Friday):								
22		When authorized, Canada shall pay the Contractor the Firm Hourly Rates specified under item 21.1 to this PART 3 plus an overtime premium thereon of:								
23										
24		21.2.1 Overtime premium (Monday to Friday)	A number							
25	LE	21.2.2 Expected Overtime Workload	Hrs	900		\$ _____				\$ _____
26										
27		21.3 Outside normal business (Saturday and Sunday):								
28		When authorized, Canada shall pay the Contractor the Firm Hourly Rates specified under item 21.1 to this PART 3 plus an overtime premium thereon of:								
29										
30		21.3.1 Overtime premium (Saturday and Sunday)	A number							
31	LE	21.3.2 Expected Overtime Workload	Hrs	900		\$ _____				\$ _____

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22.0 Contractor Furnished Material:

For the authorized supply of hardware, software and other material required for the performance of the Work in connection with item 21.0 to this Part 3, Firm Unit Prices To Be Negotiated (TBN). Price negotiation will be governed by the following:

22.1 Actual cost TBN in accordance with Contract articles 6.7 and 6.8 plus a firm mark-up thereon of

22.1.1 Contractor Manufactured Parts (CMP)	\$	\$20,000.00	___%	\$ _____
22.1.2 Contractor Acquired Parts (CAP)	\$	\$20,000.00	___%	\$ _____

NOTES: i. Outgoing transportation, to the consignee, is excluded from the application of these mark-ups and shall be charged separately at cost.

23.0 Travel and Living (T&L) expenses:

When Authorized - The Contractor will be reimbursed its travel and living expenses reasonably and properly incurred in the performance of Work in connection with item 21.0 to this Part 3, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the Treasury Board Travel Directive (http://www.tbs-sct.gc.ca/pubs_pol/hrpubs/TBM_113/td-dv_e.asp), and with the other provisions of the directive referring to "travellers", rather than those referring to "employees". All travel must have the prior authorization of the Contracting Authority. All payments are subject to government audit. The estimated cost is:

LE	\$	\$50,000.00	\$50,000.00
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24.0 ISS-A MISCELLANEOUS WORK BID PRICE

	\$	
		GSTE/HSTE

Goods and Services Tax or the Harmonized Sales Tax excluded

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APPENDIX 1 (Phase B Optional Quantities)

(The appendix 1 of this annex begins on the next page)

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APPENDIX 1 (Purchase of optional quantities)

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Line No.	ITEM'S DESCRIPTIONS	Qty U of I	Column A Optional Qty (Over contract period)	Column B1 Unit Price (Year 1)	Column B2 Unit Price (Year 2)	Column B3 Unit Price (Year 3)	Column C Extended Price
1	1.0 The purchase of optional Integrated Soldier System (ISS) P(Prod) quantities: (SOW para. 3.3.5)						
2	The ISS P(Prod) performance shall comply with all the technical requirements of this contract. The ISS P(Prod) price must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance and support services for a minimum period of one (1) year.						
3	For the purchase of ISS, on an if, as, and when requested basis, as stipulated in the contract article 4.3, excluding delivery charges, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor in accordance with item 1.0 to APPENDIX 2 (Optional Quantities Discount Factor Table) of this annex. (The Firm Unit Prices to be charged are determined by the order date)						
4							
5	1.7 ISS P(Prod) OPTIONAL BATCHES BID PRICE			See Appendix 2	See Appendix 2	See Appendix 2	\$ _____
6							
7							
8	2.0 The purchase of optional ISS Battery Set and Battery Charger Set quantities:						
9	The ISS Battery Set and Battery Charger Set performance shall comply with all the technical requirements of this contract. The ISS Battery Set and Battery Charger Set must include a warranty with a minimum period of one (1) year for hardware and software followed by Software maintenance for a minimum period of one (1) year.						
10	For the purchase of ISS Battery Set and Battery Charger Set, on an if, as, and when requested basis, as stipulated in the contract article 4.3, excluding delivery charges, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor the current unit price in the column "1 to 100 units - Unit Base Price - (Year x)" multiplied, if required, by a Quantity Discount Factor stipulated in columns 2 to 9 all in APPENDIX 2 (Optional Quantities Discount Factor Table) of this annex. (The Firm Unit Prices to be charged are determined by the order date).						
11							
12	2.5 ISS BATTERY SET & BATTERY CHARGER SET OPTIONAL QUANTITIES BID PRICE			See Appendix 2	See Appendix 2	See Appendix 2	\$ _____
13							
14							
15	3.0 Optional ISS P(Prod) Batches Delivery charges: (Annex CA Statement of Work (SOW) para. 6.7.5 and item 9.1.10 to PART 2 to this annex)						
16	For the cost of delivery of a complete Task Force Batch, as stipulated in Table 2-3-1 to Annex CF, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor the Ceiling Lot Price, upon delivery and acceptance thereon of	Batch	8	\$ _____			\$ _____

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4.0 The purchase of optional Initial Cadre Training (ICT) courses: (Annex CA Statement of Work (SOW) para. 6.6)

For the supply of ICT courses, on an if, as, and when requested basis, in accordance with SOW para. 6.6.2.0-3, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor, upon delivery and acceptance of the serials listed below, Firm Unit Prices as follows:

4.1 English Training:

4.1.1 ICT Operator Instructors Course for 24 students

Serial 8

\$ _____

\$ _____

4.1.2 ICT System Manager Instructors Course for 12 students

Serial 8

\$ _____

\$ _____

4.1.3 ICT Maintainer' Instructors Course for 6 students

Serial 8

\$ _____

\$ _____

4.2 French Training:

4.2.1 ICT Operator Instructors Course for 24 students

Serial 4

\$ _____

\$ _____

4.2.2 ICT System Manager Instructors Course for 12 students

Serial 4

\$ _____

\$ _____

4.2.3 ICT Maintainer' Instructors Course for 6 students

Serial 4

\$ _____

\$ _____

5.0 The purchase of optional Battle Management System (BMS) software on CF Laptop: (SOW para. 3.3.1.1.0-8.0-2.0-3)

The BMS software performance shall comply with all the technical requirements of this contract. The BMS software price must include a warranty with a minimum period of one (1) year followed by Software maintenance and support services for a minimum period of one (1) year.

For the purchase of BMS software, on an if, as, and when requested basis, and for any other costs or expenses of any kind whatsoever incurred by the Contractor for the execution of the work, Canada shall pay the Contractor, upon delivery and acceptance, excluding delivery charges, a Firm Unit Price thereon of:

Each 108

\$ _____

\$ _____

6.0 ISS-A OPTIONAL PURCHASE BID PRICE:

6.1 ISS-A Optional Purchase Bid Price, before Weighting

\$ _____

6.2 Weighting Factor

A number 0.25

6.3 ISS-A Optional Purchase Bid Price, after Weighting

\$ _____

GSTE/HSTE

7.0 ISS-A WORK TOTAL BID PRICE

(ISS-A WORK TOTAL BID PRICE = Item 7.0 to PART 1 + Item 20.0 to PART 2 + Item 24.0 to PART 3 + Item 6.3 to APPENDIX 1)

\$ _____

GSTE/HSTE

GSTE/HSTE = Goods and Services Tax or the Harmonized Sales Tax excluded

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ISS-A FINANCIAL BID PRESENTATION SHEET

APPENDIX 2 (Phase B Options Discount Factor Table)

(The appendix 2 of this annex begins on the next page)

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ISS-A FINANCIAL BID PRESENTATION SHEET
APPENDIX 2 (Optional Quantities Discount Factor Table)

		Note: The Column 1 does not exist.												
		Column A	Column B1	Column B2	Column B3	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column C	Column C1
		(For quick reference)	Less than 2 Batches,	Less than 2 Batches,	Less than 2 Batches,	Quantity Discount Factor % = [1 - (% discount)]								
		One Batch Qty (Items 1.1 to 1.4)	Unit Base Price (Year 1)	Unit Base Price (Year 2)	Unit Base Price (Year 3)	2 to less than 3 Batches	3 to less than 4 Batches	4 to less than 5 Batches	5 to less than 6 Batches	6 to less than 7 Batches	7 to less than 8 Batches	8 Batches and beyond	Extended Price Before discount	Extended Price After discount
Line No.	ITEM'S DESCRIPTIONS	Qty U of I												
1	1.0 The purchase of optional Integrated Soldier System (ISS) P(Prod) quantities:													
2	For the purchase of ISS P(Prod) Main Equipment, Accessory Items, Technical Documentation and Support Equipment (Later called "ISS" alone) in quantities of less than 2 complete Batches, Canada shall pay the Contractor the current year "Less than 2 Batches, Unit Base Price", columns B1, B2 or B3. For the purchase of ISS in quantities equal or greater than 2 Batches, Canada shall pay the Contractor, the current year "Less than 2 Batches, Unit Base Price" multiplied by the Quantity Discount Factor opposite to item 1.5 of this appendix corresponding to the quantity (QTY) range, columns 2 to 8 headings, it corresponds to. The discounts are applicable on a per order basis. The discounts are applicable to the purchase of a fraction of a batch or complete batches.													
3	A "Batch" is defined as being a QTY of 628 Integrated Soldier System - Electronics Suite (ISS-ES), see item 1.1.1 below, with sub-items under 1.1 to 1.4 associated in quantities equal to what can be found in column A "One Batch Qty".													
4	A fraction of a batch is defined as being an actual QTY purchased of less than 628 ISS-ES, see item 1.1.1 below, with sub-items under 1.1 to 1.4 associated in quantities equal to what can be found in column A "One Batch Qty" multiplied by the actual QTY purchased of ISS-ES divided by 628, rounded up.													
5														
6	1.1 Main Equipment (SOW para. 3.3.1.1.0-6)													
7	1.1.1 Integrated Soldier System - Electronics Suite (ISS-ES) (SOW para. 3.3.1.1.0-6.0-1)	Each	628	\$										
8	1.1.1.1	Each	628	\$										
9	1.1.1.2	Each	628	\$										
10	1.1.1.3	Each	628	\$										
11	1.1.1.4	Each	628	\$										
12	1.1.1.5	Each	628	\$										
13	1.1.1.6	Each	628	\$										
14	1.1.1.7	Each	628	\$										
15	1.1.1.8	Each	628	\$										
16	1.1.1.9	Each	628	\$										
17	1.1.1.10	Each	628	\$										
18	1.1.1.11	Each	628	\$										
19	1.1.1.12	Each	628	\$										
20	1.1.1.13	Each	628	\$										
21	1.1.1.14	Each	628	\$										
22	1.1.1.15	Each	628	\$										
23	1.1.1.16	Each	628	\$										
24	1.1.1.17	Each	628	\$										
25	1.1.1.18	Each	628	\$										
26	1.1.1.19	Each	628	\$										
27	1.1.1.20	Each	628	\$										
28														
29	1.1.2 Universal Canaphone Set (SOW para. 3.3.1.1.0-6.0-3)	Each	628	\$										
30	1.1.3 ISS Battery Sets (SOW para. 3.3.1.1.0-6.0-5)													
31	1.1.3.1 ISS Rechargeable Battery Set (SOW para. 3.3.1.1.0-6.0-5.0-2)													
32	(NOT APPLICABLE)													

Example 1: A first optional quantity is purchased at the beginning of the second year. The purchase is an incomplete batch with sub-items under item 1.0 associated in quantities equal to what can be found in column A "One Batch Qty" multiplied by the actual QTY of ISS-ES purchased divided by 628, rounded up. At the end of the first year the inflation rate was calculated and applied to the prices under column B1 "Less than 2 Batches, Unit Base Price (Year 1)", to obtain the prices under column B2 "Less than 2 Batches, Unit Base Price (Year 2)". The Contractor will be paid the unit prices as per column B2 "Less than 2 Batches, Unit Base Price (Year 2)".

Example 2: Two months after example 1, a second optional quantity is purchased. The purchase is a complete batch. The Contractor will be paid the unit prices as per column B2 "Less than 2 Batches, Unit Base Price (Year 2)".

Example 3: Two months after example 2, a third optional quantity is purchased. The purchase is two complete batches plus an additional 150 ISS-ES with sub-items under item 1.0 associated in quantities equal to what can be found in column A "One Batch Qty" multiplied by 150 divided by 628, rounded up. The Contractor will be paid the prices under column B2 "Less than 2 Batches, Unit Base Price (Year 2)" multiplied by the Quantity Discount Factor corresponding to the column 2 "2 to less than 3 Batches" opposite to item 1.5 of this appendix.

Example 4: Two months after example 3, a fourth optional quantity is purchased. The purchase is two complete batches plus an additional 628 ISS-ES with two (2) sub-items under item 1.0 to this appendix associated in quantities lower than what can be found in column A "One Batch Qty" multiplied by 628 divided by 628, rounded up. For the two complete batches, the Contractor will be paid the prices under column B2 "Less than 2 Batches, Unit Base Price (Year 2)" multiplied by the Quantity Discount Factor corresponding to the column 2 "2 to less than 3 Batches" opposite to item 1.5. For the remaining equipment, the Contractor will be paid the unit prices as per column B2 "Less than 2 Batches, Unit Base Price (Year 2)".

Examples 1 to 4: In all examples above, the Contractor will check, if any, before invoicing, the exchange rate fluctuation in accordance with the APPENDIX 4 to this annex and recalculate the "Less than 2 Batches, Unit Base Price (Year 2)". See contract article 6.3.

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34	1.1.3.2	ISS Non-Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-1)	Each	2512			
35	1.1.3.2.1	(Power Domain 1) Non-Rechargeable Battery Set:					
36	1.1.3.2.1.1	Power Domain Non-Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-2)					
37	1.1.3.2.1.1.1	Battery (Type)	Each	---	\$	---	\$
38	1.1.3.2.1.1.2	Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)	Each	---	\$	---	\$
39	1.1.3.2.1.2	Quantity of Power Domain Non-Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-3)	Each	---			
40							
41	1.1.3.2.2	(Power Domain 2) Non-Rechargeable Battery Set:					
42	1.1.3.2.2.1	Power Domain Non-Rechargeable Battery Pack:					
43	1.1.3.2.2.1.1	Battery (Type)	Each	---	\$	---	\$
44	1.1.3.2.2.1.2	Battery Loading/Storage Device	Each	---	\$	---	\$
45	1.1.3.2.2.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	---			
46							
47	1.1.3.2.3	(Power Domain 3) Non-Rechargeable Battery Set:					
48	1.1.3.2.3.1	Power Domain Non-Rechargeable Battery Pack:					
49	1.1.3.2.3.1.1	Battery (Type)	Each	---	\$	---	\$
50	1.1.3.2.3.1.2	Battery Loading/Storage Device	Each	---	\$	---	\$
51	1.1.3.2.3.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	---			
52							
53	1.1.3.2.4	(Power Domain 4) Non-Rechargeable Battery Set:					
54	1.1.3.2.4.1	Power Domain Non-Rechargeable Battery Pack:					
55	1.1.3.2.4.1.1	Battery (Type)	Each	---	\$	---	\$
56	1.1.3.2.4.1.2	Battery Loading/Storage Device	Each	---	\$	---	\$
57	1.1.3.2.4.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	---			
58							
59	1.1.3.2.5	(Power Domain 5) Non-Rechargeable Battery Set:					
60	1.1.3.2.5.1	Power Domain Non-Rechargeable Battery Pack:					
61	1.1.3.2.5.1.1	Battery (Type)	Each	---	\$	---	\$
62	1.1.3.2.5.1.2	Battery Loading/Storage Device	Each	---	\$	---	\$
63	1.1.3.2.5.2	Quantity of Power Domain Non-Rechargeable Battery Pack	Each	---			
64							
65	1.1.4	Modular Load Carriage System (MLCS): (SOW para. 3.3.1.1.0-6.0-7)					
66	1.1.4.1	MLCS Platform (Small size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	572	\$	---	\$
67	1.1.4.2	MLCS Platform (Medium size) (SOW para. 3.3.1.1.0-6.0-7.0-1)	Each	244	\$	---	\$
68	1.1.4.3	MLCS ISS Pouch Set (SOW para. 3.3.1.1.0-6.0-7.0-2)					
69	1.1.4.3.1		Each	628	\$	---	\$
70	1.1.4.3.2		Each	628	\$	---	\$
71	1.1.4.3.3		Each	628	\$	---	\$
72	1.1.4.3.4		Each	628	\$	---	\$
73	1.1.4.3.5		Each	628	\$	---	\$
74	1.1.4.3.6		Each	628	\$	---	\$
75	1.1.4.3.7		Each	628	\$	---	\$
76	1.1.4.3.8		Each	628	\$	---	\$
77	1.1.4.3.9		Each	628	\$	---	\$
78	1.1.4.3.10		Each	628	\$	---	\$
79	1.2	Accessory Items: (SOW para. 3.3.1.1.0-7)					
80	1.2.1	DAGR Interface Cable (SOW para. 3.3.1.1.0-7.0-1)	Each	130	\$	---	\$
81	1.2.2	CORAL-CE-C Interface Cable (SOW para. 3.3.1.1.0-7.0-2)	Each	40	\$	---	\$
82	1.2.3	LCSS Radio Interface Cable Set (SOW para. 3.3.1.1.0-7.0-3)					
83	1.2.3.1		Each	130	\$	---	\$
84	1.2.3.2		Each	130	\$	---	\$
85	1.2.3.3		Each	130	\$	---	\$
86	1.2.3.4		Each	130	\$	---	\$
87	1.2.3.5		Each	130	\$	---	\$
88	1.2.3.6		Each	130	\$	---	\$
89	1.2.3.7		Each	130	\$	---	\$
90	1.2.3.8		Each	130	\$	---	\$
91	1.2.3.9		Each	130	\$	---	\$
92	1.2.3.10		Each	130	\$	---	\$
93	1.3	Technical documentation: (SOW para. 3.3.1.1.0-8.0-1)					
94	1.3.1	Original copy:					
95	(SEE ITEM 9.1.13 TO PART 2 TO THIS ANNEX)						
96	1.3.2	Additional copy:					
97	1.3.2.1	ISS-S User Manual - Bilingual	Each	628	\$	---	\$
98	1.3.2.2	ISS-S Technical Manual - Bilingual	Each	20	\$	---	\$
99	1.3.2.3	ISS-S Quick Reference Manual - Bilingual	Each	628	\$	---	\$
100	1.4	Support Equipment: (SOW para. 3.3.1.1.0-8.0-2)					
101	1.4.1	Recommended Support Equipment: (SOW para. 3.3.1.1.0-8.0-2.0-1)					
102	(SEE ITEM 15.0 TO PART 2 TO THIS ANNEX)						
103	1.4.2	System Executive Planning Suite (SEP-S) software (SOW para. 3.3.1.1.0-8.0-2.0-2)	Each	9	\$	---	\$
104	1.4.3	Battle Management System (BMS) software on CF Laptop (SOW para. 3.3.1.1.0-8.0-2.0-3)	Each	20	\$	---	\$
105	1.4.4	Battery Charger Set (SOW para. 3.3.1.1.0-8.0-2.0-4)					
106	(NOT APPLICABLE)						
107							
108	1.5	Quantity Discount Factor % for ISS P(Prod) quantities equal or greater than 2 Batches (Quantity Discount Factor % = [1 - (% discount)])			%	%	%
109					%	%	%
110	1.6	ISS P(Prod) OPTIONAL BATCH BID PRICE (for ISS P(Prod) in quantity of less than 2 batches)					\$
111	1.7	ISS P(Prod) OPTIONAL BATCHES BID PRICE	Batch	8			\$
112							
113	GST/HST/E	Goods and Services Tax or the Harmonized Sales Tax excluded					\$

GST/HST/E

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APPENDIX 2 (Optional Quantities Discount Factor Table) (Cont'd)

Note: The Column 1 does not exist.																
		Column A	Column B1	Column B2	Column B3	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column C	Column C1	
			1 to 100 units	1 to 100 units	1 to 100 units	Quantity Discount Factor % = [1 - (% discount)]								Extended	Extended	
Line		Qty	Unit Base Price	Unit Base Price	Unit Base Price	101 to 200	201 to 400	401 to 800	801 to 1600	1601 to 3200	3201 to 6400	6401 to 12800	12801 and greater	Price	Price	
No.	ITEM'S DESCRIPTIONS	U of I	(Year 1)	(Year 2)	(Year 3)	units	units	units	units	units	units	units	units	before discount	after discount	
1	2.0 The purchase of optional ISS Battery Set and Battery Charger Set quantities:															
2	For the purchase of ISS Battery Set and Battery Charger Set in quantities of 100 or less, Canada shall pay the Contractor, the contract current year "1 to 100 units, Unit Base Price", columns B1, B2 or B3. For the purchase of units in quantities greater than 100, Canada shall pay the Contractor, the contract current year "1 to 100 units, Unit Base Price" multiplied by the Quantity Discount Factor corresponding to the quantity (QTY) range, columns 2 to 9, it corresponds to. The discounts are applicable on a per order basis.															
3																
4	2.1 Main Equipment (SOW para. 3.3.1.1.0-6)															
5	2.1.1 (NOT APPLICABLE)															
6	2.1.2 (NOT APPLICABLE)															
7	2.1.3 ISS Battery Sets (SOW para. 3.3.1.1.0-6.0-5)															
8	2.1.3.1 ISS Rechargeable Battery Set: (SOW para. 3.3.1.1.0-6.0-5.0-2)	Each	6280													
9	2.1.3.1.1 (Power Domain 1) Rechargeable Battery Set:															
10	2.1.3.1.1.1 Power Domain Rechargeable Battery Pack: (SOW para. 3.3.1.1.0-6.0-4.0-4)															
11	2.1.3.1.1.1.1 Battery (Type)	Each	—	\$		%	%	%	%	%	%	%	%	\$	\$	
12	2.1.3.1.1.1.2 Battery Loading/Storage Device (SOW para. 3.3.1.1.0-6.0-6)	Each	—	\$		%	%	%	%	%	%	%	%	\$	\$	
13	2.1.3.1.1.2 Quantity of Power Domain Rechargeable Battery Pack (SOW para. 3.3.1.1.0-6.0-4.0-5)	Each	—													
14	2.1.3.1.2 (Power Domain 2) Rechargeable Battery Set:															
15	2.1.3.1.2.1 Power Domain Rechargeable Battery Pack:															
16	2.1.3.1.2.1.1 Battery (Type)	Each	—	\$		%	%	%	%	%	%	%	%	\$	\$	
17	2.1.3.1.2.1.2 Battery Loading/Storage Device	Each	—	\$		%	%	%	%	%	%	%	%	\$	\$	
18	2.1.3.1.2.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—													
19	2.1.3.1.3 (Power Domain 3) Rechargeable Battery Set:															
20	2.1.3.1.3.1 Power Domain Rechargeable Battery Pack:															
21	2.1.3.1.3.1.1 Battery (Type)	Each	—	\$		%	%	%	%	%	%	%	%	\$	\$	
22	2.1.3.1.3.1.2 Battery Loading/Storage Device	Each	—	\$		%	%	%	%	%	%	%	%	\$	\$	
23	2.1.3.1.3.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—													
24	2.1.3.1.4 (Power Domain 4) Rechargeable Battery Set:															
25	2.1.3.1.4.1 Power Domain Rechargeable Battery Pack:															
26	2.1.3.1.4.1.1 Battery (Type)	Each	—	\$		%	%	%	%	%	%	%	%	\$	\$	
27	2.1.3.1.4.1.2 Battery Loading/Storage Device	Each	—	\$		%	%	%	%	%	%	%	%	\$	\$	
28	2.1.3.1.4.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—													
29	2.1.3.1.5 (Power Domain 5) Rechargeable Battery Set:															
30	2.1.3.1.5.1 Power Domain Rechargeable Battery Pack:															
31	2.1.3.1.5.1.1 Battery (Type)	Each	—	\$		%	%	%	%	%	%	%	%	\$	\$	
32	2.1.3.1.5.1.2 Battery Loading/Storage Device	Each	—	\$		%	%	%	%	%	%	%	%	\$	\$	
33	2.1.3.1.5.2 Quantity of Power Domain Rechargeable Battery Pack	Each	—													
34																
35																
36																
37																
38																

[illegible]

76	2.4.4	Battery Charger Set. (SOW para. 3.3.1.1.0-8.0-2.0-4)												
		For the purchase of Battery chargers to support 6280 ISS Rechargeable Battery Sets as per the definitions of "Battery Charger Set" provided in paragraph 3.3.1.1.0-8.0-2.0-4 to Annex CA SOW, the ancillaries being broke down as per the following:												
77	2.4.4.1.	(Power Domain 1) Battery Charger:												
78	2.4.4.1.1		Each	—	\$	—	%	%	%	%	%	%	\$	\$
79	2.4.4.1.2		Each	—	\$	—	%	%	%	%	%	%	\$	\$
80	2.4.4.1.3		Each	—	\$	—	%	%	%	%	%	%	\$	\$
81	2.4.4.1.4		Each	—	\$	—	%	%	%	%	%	%	\$	\$
82	2.4.4.1.5		Each	—	\$	—	%	%	%	%	%	%	\$	\$
83	2.4.4.2.	(Power Domain 2) Battery Charger:												
84	2.4.4.2.1		Each	—	\$	—	%	%	%	%	%	%	\$	\$
85	2.4.4.2.2		Each	—	\$	—	%	%	%	%	%	%	\$	\$
86	2.4.4.2.3		Each	—	\$	—	%	%	%	%	%	%	\$	\$
87	2.4.4.2.4		Each	—	\$	—	%	%	%	%	%	%	\$	\$
88	2.4.4.2.5		Each	—	\$	—	%	%	%	%	%	%	\$	\$
89	2.4.4.3.	(Power Domain 3) Battery Charger:												
90	2.4.4.3.1		Each	—	\$	—	%	%	%	%	%	%	\$	\$
91	2.4.4.3.2		Each	—	\$	—	%	%	%	%	%	%	\$	\$
92	2.4.4.3.3		Each	—	\$	—	%	%	%	%	%	%	\$	\$
93	2.4.4.3.4		Each	—	\$	—	%	%	%	%	%	%	\$	\$
94	2.4.4.3.5		Each	—	\$	—	%	%	%	%	%	%	\$	\$
95	2.4.4.4.	(Power Domain 4) Battery Charger:												
96	2.4.4.4.1		Each	—	\$	—	%	%	%	%	%	%	\$	\$
97	2.4.4.4.2		Each	—	\$	—	%	%	%	%	%	%	\$	\$
98	2.4.4.4.3		Each	—	\$	—	%	%	%	%	%	%	\$	\$
99	2.4.4.4.4		Each	—	\$	—	%	%	%	%	%	%	\$	\$
100	2.4.4.4.5		Each	—	\$	—	%	%	%	%	%	%	\$	\$
101	2.4.4.5.	(Power Domain 5) Battery Charger:												
102	2.4.4.5.1		Each	—	\$	—	%	%	%	%	%	%	\$	\$
103	2.4.4.5.2		Each	—	\$	—	%	%	%	%	%	%	\$	\$
104	2.4.4.5.3		Each	—	\$	—	%	%	%	%	%	%	\$	\$
105	2.4.4.5.4		Each	—	\$	—	%	%	%	%	%	%	\$	\$
106	2.4.4.5.5		Each	—	\$	—	%	%	%	%	%	%	\$	\$
107	2.5	ISS BATTERY SET & BATTERY CHARGER SET OPTIONAL QUANTITIES BID PRICE												\$
108														
109														GST/HSTE
110	GST/HSTE =	Goods and Services Tax or the Harmonized Sales Tax excluded												

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APPENDIX 3 (Parts 2 & 3's Claim for Exchange Rate Adjustments)

(The appendix 3 of this annex begins on the next page)

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APPENDIX 3 (PARTS 2 & 3's Claim for Exchange Rate Adjustments)

Last update: March 19, 2013 ISS_A_FBP_V2.XLS		Column D1	Column D2	Column D3	Column E	Column F Conversion Factor (Initial)	Column G1	Column G2	Column G3	Column B1	Column B2	Column B3
Line No.	ITEM'S DESCRIPTIONS	Unit Price in foreign currency (Year 1)	(Year 2)	(Year 3)	Currency		Price in CAN Funds (Year 1)	(Year 2)	(Year 3)	Basis of payment's Unit Price (Year 1)	(Year 2)	(Year 3)
1	13.0 Integrated Soldier System (ISS) P(Prod) version:											
2												
3	13.1 Main Equipment:											
4	13.1.1 Integrated Soldier System - Electronics Suite (ISS-ES)											
5	13.1.1.1 (ISS-ES Line-Replaceable Unit (LRU) 1)									\$5.19		
6	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00					
7	b) Foreign Currency Components (FCC):											
8	i) US dollars	\$1.00			USD	1.0199	\$1.02					
9	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
10	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
11	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
12	13.1.1.x (ISS-ES LRU x)											
13	...											
14	13.1.2 Universal Canaphone Set									\$5.19		
15	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00					
16	b) Foreign Currency Components (FCC):											
17	i) US dollars	\$1.00			USD	1.0199	\$1.02					
18	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
19	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
20	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
21	13.1.3 ISS Battery Sets:											
22	13.1.3.1 ISS Rechargeable Battery Set:											
23	13.1.3.1.1 (Power Domain 1) Rechargeable Battery Set:											
24	13.1.3.1.1.1 Power Domain Rechargeable Battery Pack:											
25	13.1.3.1.1.1.1 Battery (Type)									\$5.19		
26	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00					
27	b) Foreign Currency Components (FCC):											
28	i) US dollars	\$1.00			USD	1.0199	\$1.02					
29	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
30	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
31	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
32	13.1.3.1.1.2 Battery Loading/Storage Device									\$5.19		
33	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00					
34	b) Foreign Currency Components (FCC):											
35	i) US dollars	\$1.00			USD	1.0199	\$1.02					
36	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
37	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
38	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
39	13.1.3.1.x (Power Domain x) Rechargeable Battery Set:											
40	...											
41	13.1.3.2 ISS Non-Rechargeable Battery Set:											
42	...											
43	13.1.4 ETC...											

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ANNEX AB to Volume 2

ISS-A FINANCIAL BID PRESENTATION SHEET

APPENDIX 4 (Appendices 1 & 2's Claim for Exchange Rate Adjustments)

(The appendix 4 of this annex begins on the next page)

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ANNEX AB to Volume 2
ISS-A FINANCIAL BID PRESENTATION SHEET
APPENDIX 4 (APPENDICES 1 & 2's Claim for Exchange Rate Adjustments)

Last update: March 19, 2013 ISS_A_FBPS_V2.XLS		Column D1	Column D2	Column D3	Column E	Column F Conversion Factor (Initial)	Column G1	Column G2	Column G3	Column B1	Column B2	Column B3
ITEM'S DESCRIPTIONS		Unit Price in foreign currency (Year 1)	(Year 2)	(Year 3)	Currency		Price in CAN Funds (Year 1)	(Year 2)	(Year 3)	Basis of payment's Unit Price (Year 1)	(Year 2)	(Year 3)
1	1.0 Integrated Soldier System (ISS) P(Prod) version:											
2												
3	1.1 Main Equipment											
4	1.1.1 Integrated Soldier System - Electronics Suite (ISS-ES)											
5	1.1.1.1 (ISS-ES Line-Replaceable Unit (LRU) 1)									\$5.19		
6	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00					
7	b) Foreign Currency Components (FCC):											
8	i) US dollars	\$1.00			USD	1.0199	\$1.02					
9	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
10	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
11	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
12	1.1.1.x (ISS-ES LRU x)											
13	...											
14	1.1.2 Universal Canophone Set									\$5.19		
15	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00					
16	b) Foreign Currency Components (FCC):											
17	i) US dollars	\$1.00			USD	1.0199	\$1.02					
18	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
19	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
20	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
21	1.1.3 ISS Battery Sets:											
22	1.1.3.1 ISS Rechargeable Battery Set											
23	1.1.3.1.1 (Power Domain 1) Rechargeable Battery Set											
24	1.1.3.1.1.1 Power Domain Rechargeable Battery Pack:											
25	1.1.3.1.1.1.1 Battery (Type)									\$5.19		
26	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00					
27	b) Foreign Currency Components (FCC):											
28	i) US dollars	\$1.00			USD	1.0199	\$1.02					
29	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
30	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
31	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
32	1.1.3.1.1.1.2 Battery Loading/Storage Device									\$5.19		
33	a) Canadian Currency Component (CCC)	\$1.00			CAD	1.00	\$1.00					
34	b) Foreign Currency Components (FCC):											
35	i) US dollars	\$1.00			USD	1.0199	\$1.02					
36	ii) European Euro	€ 1.00			EUR	1.2631	\$1.26					
37	iii) U.K. pound sterling	£1.00			GBP	1.6290	\$1.63					
38	iv) Israeli new shekel	ILS 1.00			ILS	0.28	\$0.28					
39	1.1.3.1.x (Power Domain x) Rechargeable Battery Set:											
40	...											
41	1.1.3.2 ISS Non-Rechargeable Battery Set:											
42	...											
43	1.1.4 ETC...											

RFP - N° de la DP
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Annex AC to Volume 2 Security Requirement Check List (SRCL);



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of Canada

Gouvernement
du Canada

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Security Classification / Classification de sécurité
UNCLASS

SECURITY REQUIREMENTS CHECK LIST (SRCL) LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)

PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE		
1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine National Defence	2. Branch or Directorate / Direction générale ou Direction ADM(MATY/DGLEPM/DSSPM)	
3. a) Subcontract Number / Numéro du contrat de sous-traitance	3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant	
4. Brief Description of Work / Brève description du travail Under the subject contract, the Contractor will be required to complete the design, development and qualification of an Integrated Soldier System (ISS) and enabling systems. The ISS is an integrated Command, Control and Communication system which will include soldier-portable devices such as small form factor computer, tactical radio, GPS, and navigation capability, tactical display, headset and power sub-system. The equipment will be mounted on a modular load-carriage vest. Following successful qualification of the ISS, the contractor will be required to produce and deliver between qtr 1000 and 10000 ISS.		
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
6. Indicate the type of access required / Indiquer le type d'accès requis		
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? (Specify the level of access using the chart in Question 7. c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c)	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé.	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
6. c) Is this a commercial courier or delivery requirement with no overnight storage? S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès		
Canada <input checked="" type="checkbox"/>	NATO / OTAN <input checked="" type="checkbox"/>	Foreign / Étranger <input checked="" type="checkbox"/>
7. b) Release restrictions / Restrictions relatives à la diffusion		
No release restrictions / Aucune restriction relative à la diffusion <input checked="" type="checkbox"/>	All NATO countries / Tous les pays de l'OTAN <input checked="" type="checkbox"/>	No release restrictions / Aucune restriction relative à la diffusion <input checked="" type="checkbox"/>
Not releasable / À ne pas diffuser <input checked="" type="checkbox"/>	Restricted to: / Limité à: <input type="checkbox"/>	Restricted to: / Limité à: <input type="checkbox"/>
Specify country(ies): / Préciser le(s) pays: Canada and USA	Specify country(ies): / Préciser le(s) pays:	Specify country(ies): / Préciser le(s) pays:
7. c) Level of information / Niveau d'information		
PROTECTED A / PROTÉGÉ A <input checked="" type="checkbox"/>	NATO UNCLASSIFIED / NATO NON CLASSIFIÉ <input checked="" type="checkbox"/>	PROTECTED A / PROTÉGÉ A <input checked="" type="checkbox"/>
PROTECTED B / PROTÉGÉ B <input checked="" type="checkbox"/>	NATO RESTRICTED / NATO DIFFUSION RESTREINTE <input type="checkbox"/>	PROTECTED B / PROTÉGÉ B <input checked="" type="checkbox"/>
PROTECTED C / PROTÉGÉ C <input type="checkbox"/>	NATO CONFIDENTIAL / NATO CONFIDENTIEL <input type="checkbox"/>	PROTECTED C / PROTÉGÉ C <input type="checkbox"/>
CONFIDENTIAL / CONFIDENTIEL <input checked="" type="checkbox"/>	NATO SECRET <input type="checkbox"/>	CONFIDENTIAL / CONFIDENTIEL <input checked="" type="checkbox"/>
SECRET <input checked="" type="checkbox"/>	COSMIC TOP SECRET <input type="checkbox"/>	SECRET <input checked="" type="checkbox"/>
TOP SECRET <input type="checkbox"/>	COSMIC TRÈS SECRET <input type="checkbox"/>	TOP SECRET <input type="checkbox"/>
TRÈS SECRET <input type="checkbox"/>		TRÈS SECRET <input type="checkbox"/>
TOP SECRET (SIGINT) <input type="checkbox"/>		TOP SECRET (SIGINT) <input type="checkbox"/>
TRÈS SECRET (SIGINT) <input type="checkbox"/>		TRÈS SECRET (SIGINT) <input type="checkbox"/>

TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité
UNCLASS

Canada

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UNCLASS

PART A (continued) / PARTIE A (suite)

8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS? ☐ No ☒ Yes
If Yes, indicate the level of sensitivity:
Dans l'affirmative, indiquer le niveau de sensibilité : Secret

9. Will the supplier require access to extremely sensitive INFOSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate? ☒ No ☐ Yes

Short Title(s) of material / Titre(s) abrégé(s) du matériel :

Document Number / Numéro du document :

PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)

10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis

<input type="checkbox"/> RELIABILITY STATUS COTE DE FIABILITÉ	<input type="checkbox"/> CONFIDENTIAL CONFIDENTIEL	<input checked="" type="checkbox"/> SECRET SECRET	<input type="checkbox"/> TOP SECRET TRÈS SECRET
<input type="checkbox"/> TOP SECRET- SIGINT TRÈS SECRET - SIGINT	<input type="checkbox"/> NATO CONFIDENTIAL NATO CONFIDENTIEL	<input type="checkbox"/> NATO SECRET NATO SECRET	<input type="checkbox"/> COSMIC TOP SECRET COSMIC TRÈS SECRET
<input type="checkbox"/> SITE ACCESS ACCÈS AUX EMPLACEMENTS			

Special comments:

Commentaires spéciaux :

NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided.

REMARQUE : Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.

10. b) May unscreened personnel be used for portions of the work?
Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail? ☐ No ☒ Yes
If Yes, will unscreened personnel be escorted?
Dans l'affirmative, le personnel en question sera-t-il escorté? ☐ No ☒ Yes

PART C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)

INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS

11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises?
Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS? ☐ No ☒ Yes

11. b) Will the supplier be required to safeguard COMSEC information or assets?
Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC? ☐ No ☒ Yes

PRODUCTION

11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises?
Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ? ☒ No ☐ Yes

INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)

11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data?
Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS? ☒ No ☐ Yes

11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency?
Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale? ☒ No ☐ Yes

TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité
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Security Classification / Classification de sécurité
UNCLASS

PART C - (continued) / PARTIE C - (suite)

For users completing the form manually use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.
Les utilisateurs qui remplissent le formulaire manuellement doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form online (via the Internet), the summary chart is automatically populated by your responses to previous questions.
Dans le cas des utilisateurs qui remplissent le formulaire en ligne (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

SUMMARY CHART / TABLEAU RÉCAPITULATIF

Category Catégorie	PROTECTED PROTÉGÉ			CLASSIFIED CLASSIFIÉ			NATO				COMSEC					
	A	B	C	CONFIDENTIAL	SECRET	TOP SECRET	NATO RESTRICTED	NATO CONFIDENTIAL	NATO SECRET	COMSEC TOP SECRET	PROTECTED PROTÉGÉ			CONFIDENTIAL	SECRET	TOP SECRET
				CONFIDENTIEL		TRÈS SECRET	NATO DIFFUSION RESTREINTE	NATO CONFIDENTIEL			COMSEC TRÈS SECRET	A	B	C	CONFIDENTIEL	
Information / Assets Renseignements / Biens Production					✓										✓	
IT Media / Support TI																
IT Link / Lien électronique																

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?
La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?

☒ No
Non ☐ Yes
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire.

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?
La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?

☒ No
Non ☐ Yes
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquez qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).

ANNEX AD to Volume 2

NON-DISCLOSURE AGREEMENT

INTEGRATED SOLDIER SYSTEM PROJECT (ISSP)

This Agreement made in duplicate this _____ day of _____ 201__.

(Day number) (Month) (Year)

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

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

Whereas the Crown has issued a Contract No. W8476-112965/001/RA, to supply for Integrated Soldier Systems;

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

Whereas the Recipient wishes to receive the Information solely for the purpose of executing the Contract;

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

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

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

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

(Name of Recipient in print)

(NOTE: Insert name of recipient in print)

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

(Signature of duly authorized officer)

(Title of duly authorized officer in print)

(Date in print)

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NON-DISCLOSURE AGREEMENT

INTEGRATED SOLDIER SYSTEM PROJECT (ISSP)

Appendix 1

Applicable Document Reference Listing

<u>Item</u>	<u>Reference</u>	<u>Title</u>
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Volume 2

MODULE B

TO

VOLUME 2

ANNEX BA to Volume 2

Industrial and Regional Benefits (IRB) Contract

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6. Technology and Skills Cooperation
7. Investment in Canada
8. Third Party Investments/Venture Capital Funds for Small Business
9. Investments made into Consortium
10. Indirect Transactions
11. Direct IRB Transactions
12. Strategic Plans
13. Investment Framework
14. Valid Orders
15. Trading
16. Banking
17. Import Replacements
18. Multipliers
19. World Product Mandate
20. Small and Medium Business
21. Enhanced Priority Technology List
22. Announcements
23. IRB Transaction Alterations
24. Contract Price Changes
25. Verification and Access to Records
26. Over-Achievement of IRB Commitments
27. Failure to Achieve IRB Commitments
28. Responsibilities of the Parties
29. Dispute Settlement – Resolution of Discrepancies
30. Government Organizations
31. Contingency/Success Fees
32. List of Eligible Parties
33. List of Approved Global Value Chain Platforms

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- Appendix BA1 – Plans, Transactions and Tables
- Appendix BA2 – Certificate of Compliance
- Appendix BA3 – IRB Transaction Sheet
- Appendix BA4 – Enhanced Priority Technology List Version 1.0
- Appendix BA5 – IRB CDRLs
- Appendix BA6 – IRB DIDs

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1. Definitions

1.1. For the purpose of this Part, unless the context otherwise requires, the following definitions apply:

- 1.1.1. "Achieve", "Achieved", or "Achievement" in relation to any Commitment for Industrial and Regional Benefits (IRB), means the accomplishment of all or any part of an IRB Commitment;
- 1.1.2. "Achievement Period" or "IRB Achievement Period" means the period commencing on May 29, 2009 and ending six (6) years following the Effective Date of this Contract;
- 1.1.3. "Allowable IF Investment" - For cash contributions, an Allowable IF Investment means: a grant; or, a purchase of common or preferred shares. It does not include either the purchase of debentures or a repayable loan. For in-kind contributions, an Allowable IF Investment means: a licence for intellectual property (authorization to use the licensed material); equipment (equipment, software or systems to develop new or improved goods/services); knowledge transfer (lending of an employee to provide technical or managerial know-how); or, marketing and sales support (lending of an employee to undertake marketing/sales activities and share market intelligence; or, a licence for brand or trademarks).
- 1.1.4. "Banked IRB Transaction" means an IRB Transaction that resides in the IRB Bank that has been approved in writing by the IRB Authority and has met the IRB Eligibility Criteria of Causality, Incrementality, Canadian Content Value and Eligible Party;
- 1.1.5. "Canadian Company" or "Canadian Corporation" means a commercial enterprise that is resident and operating in Canada and incorporated, registered or recognized as such, under federal or provincial legislation and which has ongoing business activities in Canada;
- 1.1.6. "Canadian Content Value" or "CCV" is as described in Article 4, Canadian Content Value;
- 1.1.7. "Capitalization" means the total value of a company's issued shares plus the value associated with instruments which can be converted into shares. For publicly traded companies, this is equal to the total number of issued shares multiplied by the market price plus the equity portion of any derivative instrument according to Canadian Generally Accepted Accounting Principles. For privately held companies, this is equal to the total number of issued shares multiplied by the most recent price at which they were sold plus the equity portion of any derivative instrument according to Canadian Generally Accepted Accounting Principles;
- 1.1.8. "Causality" means the criteria of the IRB Policy which stipulates that a proposed work package or "IRB Transaction" was brought about by an IRB Obligation to Canada as set forth in Article 5, Eligibility Criteria for IRB Transactions;
- 1.1.9. "Commercialization Activity" means a process through which economic value is extracted from knowledge through the production and sale of new or significantly improved goods and services. It can also include advertising, sales promotion and other marketing activities. Specific commercialization activities consist of: business and market planning; project feasibility studies; identifying customer needs; market engagement and testing; basic and applied research; experimental development; profitability analysis and financing; and, launch advertising.
- 1.1.10. "Commitment" or "IRB Commitment" means the Contractor's contractual obligation to achieve the CCV for IRB Transactions as set forth in Article 2, Statement of Work: IRB Commitments

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and Responsibilities;

- 1.1.11. "Consortium" or "Consortia" means a public-private partnership established with the intent of undertaking activities related to research and development, and which shall meet the criteria set out in Article 9, Investments made to Consortium;
- 1.1.12. "Designated Regions of Canada" means the following regions: the "Atlantic Region", consisting of the Provinces of Newfoundland and Labrador, Prince Edward Island, New Brunswick and Nova Scotia; the "Quebec Region", consisting of the Province of Quebec; the "Northern Ontario Region", consisting of that part of the Province of Ontario northward from the southern limits of Nipissing and Parry Sound Districts and west of the Ottawa River; and the "Western Region", consisting of the Provinces of Manitoba, Alberta, Saskatchewan, and British Columbia;
- 1.1.13. "Direct IRB Transaction", "Direct" or "Direct IRB" means an IRB Transaction that is entered into for the performance of any part of the Work under this Contract, and includes work on approved Global Value Chain (GVC) platforms as defined in Article 1.1.15;
- 1.1.14. "Eligibility Criteria" means those criteria, as defined in Article 5, Eligibility Criteria for IRB Transactions, which a proposed IRB Transaction shall meet in order to be accepted by the IRB Authority;
- 1.1.15. "Eligible Party" means the provider of the IRB, and consists of: the contractor, its parent corporation, and all its subsidiaries, divisions and subdivisions; and first tier suppliers related to the performance of any part of the Work under this Contract. Canadian companies (including first-tier suppliers) with less than 500 employees will not be accepted as Eligible Parties unless otherwise approved by the IRB Authority.
- 1.1.16. "Enhanced Priority Technology List" or "EPTL" refers to the list attached as Appendix BA4 which identifies the technologies required by Canada that meet the long-term needs of the Department of National Defence
- 1.1.17. "Global Value Chain" means a platform which is similar to the platform being proposed for the Integrated Soldier System Project and has a market potential (measured by market size and longevity) equal to or greater than the platform proposed for the Integrated Soldier System Project and offers significant opportunities for technological advancement, growth in the level of system integration, small and medium-sized business (SMB) participation, and have large-scale and sustainable acquisition and/or sustainment opportunities.
- 1.1.18. "IF Business Plan" means a complete and well-supported plan which: includes an executive summary; provides detailed company information and financial statements; describes the proposed IF project; details the specific IF activities, goals and duration; and, includes key market, risk and due diligence considerations.
- 1.1.19. "Import Replacement" refers to the production/manufacture of a good or the provision of a service in Canada that was formerly manufactured or provided from off-shore sources of supply;
- 1.1.20. "Incrementality" refers to the Eligibility Criteria outlined in Article 5.3, Eligibility Criteria for IRB Transactions which stipulates that an indirect IRB activity must include new work, over and above a baseline of similar previous business activity undertaken by the Contractor with the recipient;

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- 1.1.21. "Indirect IRB Transaction", "Indirect", or "Indirect IRB" means an IRB Transaction that is entered into for a business activity unrelated to the performance of any part of the Work under this Contract;
- 1.1.22. "Industrial and Regional Benefit" or "IRB" or "IRB Transaction" means a commercial or business activity that is carried out by means of a contract, including any purchase order, sales agreement, license agreement, letter of agreement or other similar instrument in writing, that has an identified dollar value, meets the Eligibility Criteria set forth in this Contract and has been approved by the IRB Authority;
- 1.1.23. "Investment Framework" or "IF" - means the method of assessing, valuing and calculating IRB credits associated with innovation-related investments made directly with Canadian SMB, as outlined in Article 10.
- 1.1.24. "IRB Authority" means the Minister of Industry or any other person designated by the Minister of Industry to act on the Minister's behalf. The IRB Authority is responsible for evaluating, monitoring, verifying and accepting IRB, and for assessing the Contractor's IRB performance under this Contract;
- 1.1.25. "IRB Credit" or "Credit" in relation to any IRB Commitment, means the Written Notice by the IRB Authority that an IRB has been achieved in whole or in part and that the Contractor's obligation has to that extent been fulfilled;
- 1.1.26. "IRB Investment" means an IRB Transaction which consists of an investment within Canada of a verifiable amount of money which fosters the production of goods or the performance of services by Canadian citizens or permanent residents as defined in the Immigration and Refugee Protection Act 2001, c.27, and which shall meet the criteria set forth in Article 7, Investment in Canada;
- 1.1.27. "IRB Plans" means the Contractor prepared IRB Plans which form part of this Contract: IRB Management Plan, dated _____ **(to be inserted from Contractor's proposal)**, bearing reference number _____ **(to be inserted from Contractor's proposal)**; IRB Regional Development Plan, dated _____ **(to be inserted from Contractor's proposal)**, bearing reference number _____ **(to be inserted from Contractor's proposal)**; and Small and Medium Business Development Plan, dated _____ **(to be inserted from Contractor's proposal)**, bearing reference number _____ **(to be inserted from Contractor's proposal)**;
- 1.1.28. "IRB Reporting Period" or "Reporting Period" means: Period 1, commencing on the first day of the IRB Achievement Period and ending on the last day of the twelfth month after contract award and a consecutive twelve month increment following Period 1 (Periods 2,3, etc) until the end of the IRB Achievement Period;
- 1.1.29. "Major Obligor" means a company which holds contractual commitments for IRB Obligations in Canada in excess of \$1 billion;
- 1.1.30. "Mutual Abatement" or "IRB swap" means a reduction of the Contractor's IRB Obligation in exchange for the reduction of a Canadian company's obligations to a foreign offset authority;
- 1.1.31. "Over-achievement" in relation to any IRB Commitment, means the degree or amount by which the Contractor's IRB Credit measured in terms of CCV, granted during the IRB Achievement Period for an IRB Transaction is greater than the IRB Commitment for that IRB Transaction;

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- 1.1.32. "Pooling" refers to combining IRB Obligations so that an IRB credit achieved on a single IRB Transaction may be applied over several discrete IRB Obligations;
- 1.1.33. "Research and Development (R&D) activity" means a scientific investigation that explores the development of new goods and services, new inputs into production, new methods of producing goods and services, or new ways of operating and managing organizations. Specific R&D activities consist of: standard test/measurement/analysis; test/measurement/analysis report; specific thermo-mechanical analysis methodology development projects; product/process design/engineering; customized product/process/technology development project; related evaluation and feasibility studies; applied research projects for new product concepts, new technology platforms and new test/measurement/analysis; basic scientific research for creating better understanding and insights in new phenomena; research to advance scientific knowledge with or without a specific practical application in view; and support work in engineering, design, operations research, mathematical analysis, computer programming, data collection, testing or research.
- 1.1.34. "Shortfall" in relation to any IRB Commitment, means the CCV amount by which the Contractor fails to achieve its Commitment in the IRB Reporting Periods;
- 1.1.35. "Small and Medium Business" or "SMB" means a Canadian-based, independently-owned and operated manufacturer or service company with fewer than 250 full-time personnel as of the date of entering into an eligible IRB Transaction. Agents and distributors of foreign goods and services as well as subsidiaries of large firms do not qualify as Small and Medium Business;
- 1.1.36. "Semi-processed Goods" means goods converted from their natural state of a raw material through the use of a specialized process into a state of readiness for use or assembly into a final product.
- 1.1.37. "Strategic Plan" means a document which describes the Contractor's broad corporate business development plans for Canada and how these plans may translate into strategic IRB activities, as set forth in Article 12, Strategic Plans;
- 1.1.38. "Technology Cooperation," "Technology and Skills Cooperation", "IRB Technology Cooperation" and "Technology Transfer" consists of the granting of a license, and the transmission of a usable body of knowledge to a Canadian company. Technology Cooperation has no imputed value based on development, but is measured in CCV of future sales resulting from the cooperation output by the IRB Recipient and shall meet the criteria set forth in Article 6, Technology and Skills Cooperation;
- 1.1.39. "Venture Capital Fund" or "VCF" means a pooled group of investments directed at assisting the growth of Canadian Small Businesses and which is managed by a third party and which shall meet the criteria set forth in Article 8, Third Party Investments/Venture Capital Funds for Small Business;
- 1.1.40. "World Product Mandate" means a long term supplier relationship between the Contractor or an Eligible Party and a Canadian company whereby the Canadian company has been legally authorized to carry out and has sole responsibility for specific activities including the design, development, intellectual property, manufacture and marketing related to the supply of products, components, modules or services destined for the domestic and world markets. The CCV of the product is calculated as described in Article 19, World Product Mandate.

2. Statement of Work: IRB Commitments and Responsibilities

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- 2.1. Through the implementation of the IRB Management Plan, the Regional Development Plan and the Small and Medium Business Development Plan detailed in Article 1.1.27, the Contractor shall by the end of the Achievement Period:
- 2.1.1. achieve \$ _____ **(to be inserted from Contractor's proposal - at least 100% of contract value)** in CCV as Direct and Indirect IRB Transactions as specified in the Contractor's proposal;
- 2.1.2. achieve \$ _____ **(to be inserted from Contractor's proposal)** in CCV as Direct IRB Transactions related to the Integrated Soldier System Project as specified in the Contractor's proposal;
- 2.1.3. achieve \$ _____ **(to be inserted from Contractor's proposal)** in CCV as Indirect IRB Transactions related to the Integrated Soldier System Project as specified in the Contractor's proposal;
- 2.1.4. achieve \$ _____ **(to be inserted from Contractor's proposal)** in CCV, as Direct and Indirect IRB Transactions in the regions of Canada, as specified in the Contractor's proposal, as follows:
- 2.1.4.1. Atlantic \$ _____ **(to be inserted from Contractor's proposal)**
- 2.1.4.2. Quebec \$ _____ **(to be inserted from Contractor's proposal)**
- 2.1.4.3. Northern Ontario \$ _____ **(to be inserted from Contractor's proposal)**
- 2.1.4.4. Ontario (excluding Northern Ontario) \$ _____ **(to be inserted from Contractor's proposal)**
- 2.1.4.5. West \$ _____ **(to be inserted from Contractor's proposal)**
- 2.1.4.6. Unallocated \$ _____ **(to be inserted from Contractor's proposal);**
- 2.1.5. achieve \$ _____ **(to be inserted from Contractor's proposal – at least 15% of contract value)** in CCV for Direct and Indirect Small and Medium Business Development IRB Transactions as specified in the Contractor's proposal;
- 2.1.6. achieve \$ *(to be inserted from Contractor's proposal – at least 5% of contract value)* in CCV, as Direct and Indirect IRB transactions as specified in Appendix BA1, in technology areas related to the Enhanced Priority Technology List (EPTL), attached as Appendix BA4;
- 2.1.7. carry out each and every IRB Transaction as per the IRB Transaction Sheets attached at Appendix BA1;
- 2.1.8. commits to Unallocated IRB valued at \$ _____ **(to be inserted from the Contractor's proposal)** and to achieving these within the IRB Achievement Period. As new and/or unallocated IRB Transactions are identified by the Contractor and approved by the IRB Authority, the Direct, Indirect, Regional and Small Business and EPTL IRB Commitments in Clauses 2.1.2, 2.1.3, 2.1.4, 2.1.5, and 2.1.6 will be adjusted as applicable;
- 2.1.9. shall submit to the IRB Authority, no later than one (1) year after Contract Award, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of

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identified acceptable IRB Transactions to a minimum of 60% of the contract value, measured in CCV;

2.1.10. shall submit to the IRB Authority, three (3) years after Contract Award, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV;

2.2. The Contractor shall submit to the IRB Authority, through the Contracting Authority, annual IRB Reports based on the performance achieved during the IRB Reporting Periods defined in this Contract. These reports shall be submitted sixty (60) calendar days after the end of the annual IRB Reporting Period.

2.2.1. As evidence of the Contractor's achievement of IRB Commitments, the Contractor shall provide, appended to the Annual IRB Reports, a Certificate of Compliance, as set forth in Appendix BA2 to this Contract, signed by the senior company Comptroller in respect of each IRB Transaction for which there was activity in that IRB Reporting Period. This Certificate of Compliance also covers those IRB achievements of the Contractor's sub-contractors and/or its Eligible Parties.

3. IRB Reporting

3.1. Each annual IRB Report shall consist of four parts, as outlined in the following sub-paragraphs:

3.1.1. part A: The CCV achieved in total since the beginning of the IRB Achievement Period for each of the Tables found at Appendix BA1;

3.1.2. part B: The CCV achieved since the last Annual IRB Report for each of the Tables found at Appendix BA1;

3.1.3. part C: For each IRB transaction being reported, describe any significant achievements, activities, delays or problems which could impact on the implementation of the IRB portion of the Contract and provide a plan of action to resolve any difficulties; and

3.1.4. part D: A summary that includes:

3.1.4.1. the total amount of progress payment requests or invoices submitted by the Contractor for Work completed since the Effective Date;

3.1.4.2. a forecast of IRB achievements;

3.1.4.3. a description of Small and Medium Business development activities undertaken during the reporting period;

3.1.4.4. an explanation of any IRB Shortfall in achievement evident from the data in Part A, and a plan of action to resolve the problem;

3.1.4.5. a list of IRB Authority approved IRB Transactions which have been cancelled, terminated, added or substantially altered during the reporting period, the details of any requested changes, their status vis-a-vis contract amendment, and the reasons therefore;

3.1.4.6. a brief narrative describing, on an exception basis, any noteworthy developments

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with respect to Small and Medium Business; and

3.1.4.7. a description and explanation of any changes to the IRB Management Plan.

4. Canadian Content Value (CCV)

4.1. The CCV of any Direct and Indirect Transaction shall be determined by the Net Selling Price Method or the Cost Aggregate Method.

4.1.1. Net Selling Price Method: A product which bears a substantiated selling price may have its CCV determined as follows:

4.1.1.1. the Net Selling Price is that total selling price of the product, less the applicable customs duties, excise taxes and applicable GST, HST and all provincial sales taxes; and

4.1.1.2. the CCV is the Net Selling Price less any costs incurred as set out in Clause 4.2.

4.1.2. Cost Aggregate Method: for any product, service or activity which cannot be assigned a substantiated selling price, the CCV shall be the aggregate of the following:

4.1.2.1. the cost of parts produced in Canada, and the cost of materials to the extent that they are of Canadian origin, that are incorporated in the equipment in the factory of the manufacturer in Canada, including parts or materials to the extent that the IRB Authority can verify that they are of Canadian origin and have been exported from Canada and subsequently imported into Canada as parts or finished goods;

4.1.2.2. transportation costs, including insurance charges incurred in transporting parts and materials from a Canadian supplier or frontier port of entry to the factory of the manufacturer in Canada for incorporation in the equipment, to the extent that such costs are not included in the foregoing paragraph; and

4.1.2.3. such part of the following costs, exclusive of GST, HST, all provincial sales taxes, excise taxes, royalties and license fees paid outside of Canada, as are reasonably attributable to the production or implementation of the equipment, service or activity:

4.1.2.3.1. wages and salaries paid for direct and indirect production and non-production labour in Canada paid to Canadians or to permanent residents as defined in the Immigration and Refugee Protection Act 2001, c.27;

4.1.2.3.2. materials used in the Work but not incorporated in the final products;

4.1.2.3.3. light, heat, power and water;

4.1.2.3.4. workers compensation, employment insurance and group insurance premiums, pension contributions and similar expenses incurred with respect to labour referred to above in sub-paragraph 4.1.2.3.1;

4.1.2.3.5. taxes on land and buildings in Canada;

4.1.2.3.6. fire and other insurance premiums relative to production inventories and the production plant and its equipment, paid to a company authorized by the laws of

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Canada or any province to carry on business in Canada or such province;

- 4.1.2.3.7. insurance purchased specifically from a company authorized by the laws of Canada or any province to carry on business in Canada or such province;
- 4.1.2.3.8. rent of factory or office premises paid to a registered owner in Canada;
- 4.1.2.3.9. maintenance and repairs to buildings, machinery and equipment used for production purposes that is executed in Canada;
- 4.1.2.3.10. tools, dies, jigs, fixtures and other similar plant equipment items of a non-permanent nature that have been designed, developed or manufactured in Canada;
- 4.1.2.3.11. engineering and professional services, experimental work and product or process development work executed and completed in Canada;
- 4.1.2.3.12. pertinent miscellaneous factory and office expenses, such as administrative and general expenses, including profits earned in Canada, depreciation with respect to production machinery and permanent plant equipment and the installation costs of such machinery and equipment; and a capital allowance not exceeding five per cent of the total capital outlay incurred for buildings in Canada owned by the producer of the work;
- 4.1.2.3.13. fees paid for services not elsewhere specified; and
- 4.1.2.3.14. pre-tax net profit upon which Canadian taxes are paid or are payable.

4.2. Costs or Business Activities that are ineligible for IRB Credit:

- 4.2.1. the value of materials, labour and services imported into Canada;
- 4.2.2. in the case of Indirect IRB, the value of raw materials and semi-processed goods exported from Canada;
- 4.2.3. the value of any living, relocation costs and remuneration paid for work on the Project;
- 4.2.4. the amount of all Canadian Excise Taxes, Import Duties, Federal and Provincial Sales Taxes, Goods and Services Taxes, Harmonized Sales Taxes and other Canadian duties;
- 4.2.5. the value of goods and services with respect to which credit has been received or is being claimed by the Contractor or its Eligible Parties as an IRB to Canada under any other IRB agreement;
- 4.2.6. any proposal or bid preparations costs;
- 4.2.7. all transportation costs not covered under Clause 4.1.2.2;
- 4.2.8. obligations of the Federal Government e.g. government furnished equipment;
- 4.2.9. licence fees paid by the Canadian IRB recipient and any on-going royalty payments;

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- 4.2.10. IRB Transactions claimed by a Contractor that pertain to its influence or that of one of its Eligible Parties over their own country's Purchasing Agent/Department or the Purchasing Agent/Department of another country;
- 4.2.11. interest costs associated with Letters of Credit or other financial instruments to support IRB Investments; and
- 4.2.12. fees paid to third-party consultants or agents for work related to gaining IRB Credit against this Contract. This includes, but is not limited to, providing advice on the IRB Policy, preparation of IRB transactions and/or reports, representing the interests of the Contractor to the IRB Authority, and/or searching for potential recipient firms.

5. Eligibility Criteria for IRB Transactions

General: Wherever possible, the IRB Authority will confirm IRB eligibility prior to a proposed IRB Transaction being accepted into the contract.

- 5.1.1 The IRB Authority reserves the right to validate IRB eligibility for any or all IRB Transactions identified in Appendix BA1 within one year of Contract Award. The IRB Authority shall submit to the Contractor within one year of Contract Award a written notice of the IRB Transactions that the IRB Authority wishes to validate. Once the request is made, the Contractor shall have 60 calendar days to submit a package in support of their IRB eligibility claims.
- 5.1.2 Should the Contractor be unable to satisfy the IRB Authority that the IRB Transaction has met the Eligibility Criteria, future IRB Credits will not be granted and a substitute IRB Transaction will be sought from the Contractor.
- 5.1.3 Contractors should note that all IRB transactions are subject to annual reporting and verification before IRB credits are confirmed. Should new information arise during verification that seriously calls in to question the eligibility of an IRB Transaction, the IRB Authority will review and investigate as soon as possible.
- 5.2 Causality** - each IRB Transaction shall be one which was clearly and demonstrably brought about by either the Contractor or one of the Contractor's Eligible Parties as a result of a current or anticipated IRB Obligation to Canada. It shall not be one which probably would have been entered into if an IRB obligation had not existed. Causality may be demonstrated to a specific project or more broadly to a company's IRB obligation in general.
 - 5.2.1 The responsibility for demonstrating Causality lies with the Contractor or its Eligible Party, not the IRB recipient.
 - 5.2.2 Given the large volume of defence procurements, Contractors and their Eligible Parties are often engaged in IRB planning and execution on several projects with IRB obligations. Therefore, causality may be demonstrated to a specific project or more broadly to a company's IRB obligations in general.
 - 5.2.2.1 The Contractor or its Eligible Party must demonstrate causality beyond generic statements on the transaction sheet. They should provide a clear statement on Causality, which outlines the details involved in their decision about a procurement or investment activity.
 - 5.2.2.2 As IRB activities should make good business sense to the Contractor or Eligible Party, the causality provision does not require that the IRB obligation be a company's only decision-

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making factor. However, the Contractor or its Eligible Party must show the link between Canada's IRB Policy and their decisions related to the IRB activity.

5.2.2.3 As further demonstration of Causality to this Contract, the IRB Authority's written approval for a proposed IRB Transaction shall be obtained prior to the Contractor, on behalf of itself, its Eligible Parties and Canadian recipients, making public announcement, media or press releases related to the proposed business activities. Failure to do so may result in the rejection of the business activity as an IRB under the Contract.

5.2.3 The Contractor or its Eligible Parties must provide clear evidence of causality. Failure to provide sufficient evidence of causality will result in the ineligibility of the IRB Transaction.

5.2.3.1 Evidence of Causality includes a history of events in the development of an IRB Transaction and any supporting written documentation. Contractors or its Eligible Party should provide as much detailed supporting documentation as possible at the time of the IRB Transaction submission that supports the statement on Causality. This documentation may include but not be limited to: internal emails, official correspondence, meeting notes, corporate presentations, etc. The IRB Authority seeks documentary evidence that links decisions regarding the IRB transaction to the donor's IRB obligation.

5.3 Timing - IRB Transactions shall be implemented within the Achievement Period. IRB Transactions or substitute IRB Transactions identified after the Effective Date will only be accepted provided the activity meets the IRB Eligibility Criteria and does not occur prior to the date of identification of the IRB Transaction.

5.4 Incrementality - where an Indirect IRB Transaction is for the purchase of goods or services from a Canadian source, and such goods and services are similar to those that the purchaser had acquired in Canada prior to the date of identification of the IRB Transaction:

5.4.1 The CCV of the IRB Transaction shall be determined only with respect to the increase that the IRB Transaction will provide over the average amount of orders placed by that purchaser for those goods or services from the Canadian source during the three years preceding the date of identification of the IRB Transaction.

5.5 Eligible Party - IRB Transactions shall be undertaken by an Eligible Party as defined in this Contract. In any case, the Contractor shall be 100% responsible for IRB Commitments, regardless of flow down to Eligible Parties. A list of approved Eligible Parties for the Integrated Soldier Systems Project Contract is found in Article 32.

6. Technology and Skills Cooperation

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- 6.1. In order to qualify as a technology and skills cooperation IRB Transaction, the activity shall meet the following criteria:
 - 6.1.1. technology shall be in a form that is sufficiently complete to allow the Canadian recipient to apply the knowledge to existing or new products or processes;
 - 6.1.2. technology shall be proprietary, current and equivalent to or better than that used on the ISS Project;
 - 6.1.3. all required licenses or permits to facilitate the sale of products/services domestically or for export shall be included;
 - 6.1.4. the transferor shall make available all engineering and technical advice and assistance required to exploit and keep current the transferred technology and all related information (drawings, methods of application, etc.);
 - 6.1.5. the Canadian company shall have access to domestic and foreign markets and have the resources to exploit the technology in these markets;
 - 6.1.6. the technology shall be exploitable in terms of the capability (financial and technical) of the Canadian company to use and keep it current;
 - 6.1.7. the Contractor shall make available, upon request by the IRB Authority, the licensing agreement with the Canadian recipient. Failure to do so will result in the technology and skills cooperation IRB Transaction being rejected.
- 6.2. The technology and skills cooperation shall be measured in Canadian Content Value of the future sales, export sales or import replacement, of goods or services by the Canadian company as a result of the technology and skills cooperation. In addition, the Contractor may be credited for reasonable costs incurred as a result of the technology and skills cooperation once the achievement in future sales surpasses the cost of the technology and skills cooperation. Reasonable costs incurred include:
 - 6.2.1. training costs;
 - 6.2.2. set-up of infrastructure needed to exploit the technology; and
 - 6.2.3. any others as deemed reasonable by the IRB Authority.
- 6.3. IRB in the form of technology and skills cooperation with Canadian companies may include activities such as:
 - 6.3.1. participation in the design, development and manufacture of new or improved systems;
 - 6.3.2. the provision of new process technologies that will enhance Canadian industry by improving their capabilities in present product lines and enhance their export potential; and
 - 6.3.3. the provision of licences which will allow Canadian companies to manufacture new or existing components of major systems for export sale and import replacement.
- 6.4. All costs to develop the technology shall be ineligible for IRB credit.

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7. Investment in Canada

7.1. IRB can be derived from activities such as investment in Canada. These investments shall meet the IRB Eligibility Criteria and shall be made directly by the Contractor or its Eligible Party and placed directly with a Canadian recipient.

7.1.1. The Contractor will be credited the CCV of future sales resulting from the specific investment, and the amount of the investment, once the Achievement surpasses the amount of the initial investment. The credited future sales will be prorated by multiplying the applicable sales to the ratio of the Contractor's own direct investment in the company relative to that company's Capitalization at the time the investment was made once the accepted IRB credits surpasses the amount of the total investment.

Credited Future Sales =

Applicable Sales X Contractor's own direct investment in Canadian Recipient
Canadian Recipient's Capitalization at the time the investment was made

7.2. The investment shall be for the purchase of equity such as common shares or preferred shares. Use of the investment to purchase debentures is not permitted.

7.3. The investment made by the Contractor or its Eligible Parties shall remain placed with the Canadian recipient for a minimum of three (3) years, starting from the date the investment is placed with the recipient. Failure to do so will result in the immediate clawback of all IRB approved credits for the IRB Transaction by the IRB Authority. No further IRB credits will be approved for that particular transaction.

7.4. In the event the Contractor or an Eligible Party invests in its own Canadian facilities, the investment and the incremental sales resulting from that investment are eligible for IRB credit, assuming the investment itself is causal to the IRB obligations of the Contractor or Eligible Party. This is also provided that the investment results in a net benefit to Canada and that the transaction does not result in overcapacity, shutdowns of existing companies or losses of prospective sales by existing companies in Canada.

7.5. The capital associated with the purchase of a Canadian company that is considered a "going concern" is not an eligible investment for IRB purposes. If the investment is for a Canadian company that has declared bankruptcy, then the investment can be counted for IRB purposes.

7.6. Investment transactions may include:

7.6.1. the establishment or enhancement of a Canadian facility or project which will develop Canada's advanced technology industries, and provide a capability that does not already exist in Canada. Consideration on the eligibility of the proposed IRB transaction will also be based on whether the transaction results in overcapacity, shutdowns of existing companies or losses of prospective sales by existing companies in Canada; or

7.6.2. the development of joint ventures with Canadian firms, which will contribute to their long-term viability and increase sales in both domestic and international markets.

8. Third Party Investments/Venture Capital Funds for Small Business

8.1. In any instance where the Contractor or its Eligible Party is not placing an investment directly with

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a Canadian recipient, and is utilizing a third party to manage such investments, the method of crediting such investments will be as detailed in this Clause. Any organization which manages investments such as, but not limited to Banks, Trust Companies, Venture Capital Funds, and Investment Companies, will not be an Eligible Party to the Contract, but will be deemed a third party. A portion of a Contractor's investment may come from the placement of funds into a Venture Capital Fund (VCF) directed at assisting the growth of Canadian small businesses through their development and exploitation of new technologies. The multiplied IRB credit related to these investments shall not exceed 5% of the IRB Commitment Value. Contributions in support of Canadian small business are permitted within the following parameters:

8.1.1. **Timing**

8.1.1.1. IRB credit can be claimed when:

- 8.1.1.1.1. the Contractor makes a financial contribution to a qualifying VCF. Only the face value of the contribution, measured in Canadian dollars, can be sought as an IRB at this time; and
- 8.1.1.1.2. the VCF Manager invests funds with a Canadian small business and the funds remain placed with the Canadian recipient for a minimum of three (3) years, starting from the date the funds are placed. Failure to do so will result in the immediate clawback of all IRB credits claimed or approved for the IRB Transaction by the IRB Authority.

8.1.1.2. All VCF related IRB credits claimed by the Contractor are subject to verification and approval by the IRB Authority before IRB credits are accepted.

8.1.2. **Scope**

8.1.2.1. (Privately held) small business recipients of the VCF investment shall have 50 employees or less (service based industries) or 100 employees or less (manufacturing based industries) at the commencement of the investment.

8.1.2.2. Initial investments by the VCF Manager, including co-investments, in eligible small businesses cannot exceed \$1M.

8.1.2.3. Small business recipients will generally be involved in the development, manufacture or commercialization of a technologically advanced product or service in one of the following sectors:

- 8.1.2.3.1. Life sciences (biotechnology, medical devices and pharmaceuticals)
- 8.1.2.3.2. Health
- 8.1.2.3.3. Advanced materials
- 8.1.2.3.4. Advanced manufacturing
- 8.1.2.3.5. Environment
- 8.1.2.3.6. Information and communications technologies, and
- 8.1.2.3.7. Aerospace and defence

8.1.2.4. Only Canadian registered and managed VCFs which support the above industrial sectors will be acceptable. The Contractor will have to provide evidence that a high percentage of a chosen fund's investment activity is with companies that are in the above sectors.

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8.1.3. **Multiplier for IRB Credit purposes**

- 8.1.3.1. The multiplier for IRB credit purposes is 5:1. The IRB credit will be given for the initial contribution at the time of the deposit to the VCF by the Contractor. The IRB credit that makes up the remaining multiples will be offered when the VCF Manager assigns the funds to a Canadian small business and the funds remain placed with the Canadian recipient for a minimum of three (3) years, starting from the date the funds are placed. The maximum multiplied IRB credit for the Project is 5% of the IRB Commitment Value.

8.1.4. **Limitation to Third Party Investments/Venture Capital Funds for Small Business**

- 8.1.4.1. Once a small business reaches the Initial Public Offering stage, no further IRB credit will be granted by the IRB Authority for further VCF investment to the Canadian small business.

8.1.5. **Performance Guarantees**

- 8.1.5.1. IRB Transaction sheets related to qualifying VCF transactions are stated in the multiplied value of the proposed contributions to the VCF. This multiplied value is part of the Contractor's total IRB commitment, and as such is subject to the performance guarantees stipulated in this Contract.
- 8.1.5.2. If the Contractor fails to achieve an approved IRB Transaction involving a VCF, the full "multiplied" value of its IRB Commitment shall be made up with other IRB activities that meet the IRB Eligibility Criteria. Substitute transactions will not be subject to the multiplier.

9. **Investments made to Consortium**

- 9.1. In any instance where the Contractor or its Eligible Party invests in research and development through a consortium, the method of crediting such investments will be as detailed in this Clause.

9.1.1. **Timing**

- 9.1.1.1. IRB credit can be claimed when:
- 9.1.1.1.1. the Contractor makes a financial contribution to a qualifying consortium; and
 - 9.1.1.1.2. the Consortium partner(s) make their contribution the consortium.
- 9.1.1.2. All Consortia related IRB credits claimed by the Contractor are subject to annual reporting and verification and approval by the IRB Authority before IRB credits are approved.

9.1.2. **Scope**

- 9.1.2.1. A Consortium shall be considered as an association between the Contractor(s), Canadian company(s) and Canadian research institute(s). The association shall consist of a minimum of:
- 9.1.2.1.1. the Contractor or its Eligible Party; and

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9.1.2.1.2. a minimum of one (1) publicly or privately owned Canadian company; and

9.1.2.1.3. a minimum of one (1) post-secondary or public research institutions.

9.1.2.2. Involvement of non-Canadian company(s) in the consortia shall be permitted. The combined total investment from foreign sources shall not exceed fifty (50) percent of the Consortium value.

9.1.2.3. The Contractor shall not be able to claim its Consortium partner(s) as Eligible Parties to this Contract. In cases where an existing Eligible Party to the Contract participates in a Consortium, a separate IRB Transaction Sheet shall be submitted that describes the Eligible Parties' involvement in the Consortium to claim credits for contributions leveraged by the Eligible Party. At no time shall the Contractor and Eligible Party be able to claim for the same contributions.

9.1.2.4. In addition to demonstrating Causality, the Contractor shall be responsible for demonstrating how its involvement in the Consortium leveraged the investments from the other parties involved.

9.1.2.5. The Contractor may choose to invest in an existing Consortium and will be credited for its investment into the Consortium. In order to receive credit for funds invested by other companies, the Contractor must demonstrate that the additional funds invested into the Consortium were the result of the Contractor's participation. The Contractor will not receive credit for funds already existing in the Consortium prior to their participation.

9.1.2.6. The Contractor will not be eligible to claim IRB on any funds leveraged by other parties and applied to other IRB obligations. In cases where multiple contractors with IRB obligations are involved in a Consortium, each of these contractors may be eligible to receive IRB credit for their own contribution and that of the partners they attract to the Consortium.

9.1.2.7. Contributions to the Consortium may take the form of in-kind donations. These donations will not be eligible for a multiplier. In the case of equipment, tools and other final goods, credit for these shall be given based on an assessment to be undertaken by a Third Party to this Contract solely at the cost of the Contractor. Donations that cannot be assessed by a Third Party may be credited for reasonable costs incurred. The costs of these assessments will not be eligible for IRB Credit.

9.1.2.8. The future sales that may arise from the Consortium will not be considered for IRB Credit under this Clause. Should the Contractor procure goods and services from the Consortium, the purchase will be considered as a separate IRB Transaction. No multiplier will be applied to these future sales.

9.1.3. **Multiplier for IRB Credit purposes**

9.1.3.1. The multiplier for IRB credit purposes shall be credited as follows. An initial value shall be the sum of the following:

9.1.3.1.1. the value of cash contributions from the Contractor to the Consortium; and,

9.1.3.1.2. the value of cash contributions from other eligible participants, leveraged by the

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Contractor's participation in the Consortium, up to a maximum value equal to that of the Contractors contribution.

9.1.3.2. However, the following will not be eligible for IRB Credit:

9.1.3.2.1. contributions from post-secondary institutions and not-for-profit research and development institutions shall not be counted towards the Contractor's obligations; and

9.1.3.2.2. direct contributions from all levels of government into the Consortium.

9.1.3.3. Once an initial value is established, the Contractor shall receive a five (5x) times multiplier on the initial value.

9.1.3.4. When a Consortium IRB Transaction is submitted, the Contractor must identify the manner that it proposes to calculate the regional distribution. The Contractor may opt to make regional commitments based on where funding for the Consortia originates as a proportion of the total Canadian funding. Alternatively, the Contractor may opt to make regional commitments based on where the work associated with the Consortium is taking place. In either situation, once a Contractor selects a regional calculation, the Contractor will be held to this selection.

9.1.4. **Performance Guarantees**

9.1.4.1. IRB Transaction sheets related to qualifying Consortium transactions are stated in the multiplied value of the proposed contributions to the Consortium. This multiplied value is part of the Contractor's total IRB commitment, and as such is subject to the performance guarantees stipulated in this Contract.

9.1.4.2. If the Contractor fails to achieve an approved IRB Transaction involving a Consortium, the full "multiplied" value of its IRB Commitment shall be made up with other IRB activities that meet the IRB Eligibility Criteria. Substitute transactions will not automatically be subject to a multiplier.

10. **Indirect Transactions**

10.1. An Indirect IRB in the form of a purchase of goods or services, not specifically for use in the Work, shall be equivalent level of technology to the Project with applications in Canadian advanced technology industries. A credit for these purchases will be given equal to their CCV under the following conditions:

10.1.1. if the CCV is less than 30 percent of the total content for a given activity, then this activity will not qualify as a IRB Transaction; and,

10.1.2. if the CCV is equal or greater than 30 percent, then the CCV will qualify as an IRB.

11. **Direct IRB Transactions**

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

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- 11.2. Canadian resources should be utilized to the maximum extent possible to develop, produce, integrate and deliver the Integrated Soldier System Project. Eligible areas of involvement include hardware and software, project management, systems design, engineering and integration, programming and independent validation and verification, installation engineering and site installation, and transportation.
- 11.3. An eligible Global Value Chain (GVC) platform must be similar to the platform being proposed for the Integrated Soldier System Project have a market potential (measured by market size and longevity) equal to or greater than the platform proposed for the Integrated Soldier System Project and one that offers significant opportunities for technological advancement, growth in the level of system integration, small and medium-sized business (SMB) participation, and have large-scale and sustainable acquisition and/or sustainment opportunities.
- 11.4. Activities associated with GVC platforms include, but are not limited to, pre-commercialization activities (e.g. collaborative technology development and demonstration projects), production activities (e.g. definition, design, and manufacturing) and In-Service Support activities.
- 11.5. A list of approved GVC platforms is found in Article 33.1. The IRB Authority reserves the right to seek validation of the eligibility of the GVC platforms found in Article 33.1, within one year of the Effective Date of the Contract. The IRB Authority shall submit to the Contractor within one year of Contract Award a written notice of the GVC platforms that the IRB Authority wishes to validate. Once the request is made, the Contractor shall have 60 calendar days to submit a package in support of their GVC eligibility claims. Should a GVC platform be found to not meet the GVC criteria (outlined in article 11.3), any IRB Transactions involving that platform will not be eligible to be used towards meeting the minimum Direct requirement outlined in article 2.1.2.

12. Strategic Plans

- 12.1. Major Obligors to Canada are required to submit a Strategic Plan to the IRB Authority annually. If the Contractor is a Major Obligor, as defined in Article 1.1.29, then;
 - 12.1.1. The Contractor and the IRB Authority will meet annually to update, review and discuss the Contractor's Strategic Plan.
 - 12.1.2. Representatives at senior levels of the corporation and senior levels of Industry Canada will be available for annual meetings.
- 12.2. The Contractor's Strategic Plan should include:
 - 12.2.1. a description of the Contractor's broad corporate plans for Canada over the medium-term (3-5 years) and long-term (5+ years);
 - 12.2.2. how these corporate plans may translate into IRB activities
 - 12.2.3. an overview of the Contractor's current and anticipated IRB Obligations to Canada
 - 12.2.4. IRB Partnerships with tier-one suppliers or other Eligible Parties.
- 12.3. Contractor's with multiple IRB Obligations totalling less than \$1 billion may also submit a Strategic Plan to the IRB Authority, however neither the IRB Authority or the Contractor will be required to meet annually to discuss the Strategic Plan.

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- 12.4. Major Obligors submitting a Strategic Plan may be permitted to “pool” high value, strategic IRB business activities.
- 12.5. Pooled IRB Transactions must meet the following criteria:
- 12.5.1. meet the IRB Eligibility Criteria as described in Article 5, Eligibility Criteria for IRB Transactions;
- 12.5.2. have a value of over \$100 million measured in CCV;
- 12.5.3. provide long term impact to the Canadian recipient including R&D support, first purchase of innovative Canadian technologies, market leadership, world product mandate, global value chain activities, or technology advancement.
13. **Investment Framework (IF)**
- 13.1. IRB Transactions may involve R&D or commercialization investments made directly with a Canadian SMB. The methods of assessing, valuing and crediting these investments are detailed in this clause.
- 13.2. Proposed IF activities will be reviewed, approved and awarded by the IRB Authority using the following gate process:
- Gate 1 - Term Sheet Eligibility
Gate 2 - Investment Valuation
Gate 3 - Determination of IRB Credits and Transaction Sheet Approval
Gate 4 - Monitoring and Award of IRB Credit
- 13.2.1. Gate 1, Term Sheet Eligibility - Proposed IF activities must meet all six of the following eligibility criteria:
- 13.2.1.1. Investment must be linked to research and development (R&D) and/or commercialization activities, as defined in this Contract;
- 13.2.1.2. Investment must be with a Canadian SMB, as defined in this Contract;
- 13.2.1.3. Investment must meet the IRB Eligibility Criteria, as defined in this Contract;
- 13.2.1.4. Investment must be an Allowable IF Investment, as defined in this Contract;
- 13.2.1.5. IF activity must have a duration of at least five (5) continuous years, beginning at the date the investment is made; and,
- 13.2.1.6. A complete IF Business Plan, as defined in this Contract, must be submitted to the IRB Authority.
- 13.2.2. Gate 2, Investment Valuation – Eligible IF activities will be valued, using the following methods:
- 13.2.2.1. Eligible cash investments will be taken at face value.

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- 13.2.2.2. Eligible in-kind investments will be valued by an independent third party who possesses a Chartered Business Valuator designation (or other similar designation) and who complies with all by-laws, code of ethics and practice standards of the organizational body governing their profession. Valuation reports will be detailed and comprehensive and use all standard, generally-accepted report formats and valuation approaches and arrive at one conclusion regarding valuation which balances all three approaches. The Contractor or its Eligible Party will assume all costs associated with obtaining the valuation report. The valuation report is valid for 12 months.
- 13.2.3. Gate 3, Determination of IRB Credits – The following multipliers will be applied to the value of the eligible IF investment:
- 13.2.3.1. Cash for R&D activities; or, License for IP – nine (9)
- 13.2.3.2. Cash to purchase, or in-kind transfer of, Equipment – seven (7)
- 13.2.3.3. In-kind transfer of Knowledge and/or Marketing/Sales Support – four (4)
- 13.2.4. Gate 4, Monitoring and Award of IRB Credits –
- 13.2.4.1. The multiplied IRB credits resulting from an IF activity will be awarded along the following timeline:
- 50 percent up front, once the investment activity is made according to the business plan, reported to the IRB Authority, and verified by the IRB Authority;
 - 50 percent apportioned over the remaining years of the IF project, as annual IF reporting requirements are met.
- 13.2.4.2. The Contractor will be deemed as having met each year's annual IF reporting requirements once the Contractor:
- reports on its IF activities through the established IRB Annual Reporting requirements outlined in Article 3, "IRB Reporting"
 - includes in its IRB Annual Report each year a specific and complete IF activity report, using the template provided in Annex B of this contract, "Annual IF Activity Report."
- 13.3. The total issued IRB credits associated with IF activities cannot exceed five (5) percent of the total IRB obligation value in this Contract, as identified in Article 2.1.1.
- 13.4. The investment must be made within 12 months from the date of either: the final transaction approval from the IRB Authority (cash); or, the third party valuation report (in-kind).
- 13.5. The investment must remain with the SMB for at least five (5) continuous years and be used for the purposes outlined in the Business Plan.

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13.6. IRB credits may be disallowed or revoked by the IRB Authority in any of the following circumstances:

- 13.6.1. failure to provide a detailed, complete and accurate "Annual IF Activity Report" in each year of the IF project;
- 13.6.2. removal, in whole or in part, of the IF investment from the SMB prior to the end of five continuous years;
- 13.6.3. or use of the IF investment for purposes other than those outlined in the IF Business Plan.

13.7. A "Guide for Applicants" is available on the IRB Website (www.ic.gc.ca/irb), which provides additional details on the IF processes, timelines and deliverables. The Guide also provides the templates to be used by the Contractor or its Eligible Party during the IF submission process

14. Valid Orders

14.1. The extent to which each IRB Transaction will qualify will be based on and limited to valid orders and/or contracts delivered by the end of the IRB Achievement Period.

15. Trading and Mutual Abatement

- 15.1. Trading of IRB credits is not permitted.
- 15.2. Mutual Abatement is not permitted.

16. Banking

16.1. A total of 50% of the IRB Commitment value can be utilized with Banked IRB Transactions from the IRB Bank.

17. Import Replacement

17.1. Import replacements due to the transference of work into Canada will be counted for IRB purposes.

18. Multipliers

18.1. Multipliers are only permitted on IRB Transactions involving cash contribution input to Canadian universities for university research or the establishment of university Chairs; investments in advanced technology skill development through publicly operated post secondary institutions; collaborative research undertaken with publicly accessible research institutions (e.g. the National Research Council or other federal or provincial research institutions); contributions to Venture Capital Funds specializing in small business development; and cash contributions to research and development through a Consortium. Multipliers will not exceed five (5:1).

19. World Product Mandate

19.1. If a product designed, developed and manufactured by a Canadian company is the subject of a world product mandate, where it is a long term relationship between the Contractor or an Eligible Party and a Canadian company, whereby the Canadian company has been legally authorized to carry out the aforementioned specific activities, and is identified as such in an Indirect IRB Transaction, and where the CCV of the product is verified to be seventy (70) percent or greater, the full contract value of the transaction will be deemed to be CCV.

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20. Small and Medium Business

- 20.1. For the benefit of Small and Medium Business and to lessen their administrative burden, if at least seventy (70) percent of the value of an IRB Transaction below \$100,000.00 is CCV, that contract will be deemed to have 100 percent CCV for reporting and verification purposes only.

21. Enhanced Priority Technology List

- 21.1 Version 1.0 of the EPTL is attached as Appendix BA4 and applies to this contract. The IRB Authority will assess proposed EPTL transactions to determine whether they are: relevant to the EPTL List Version 1.0; and, of a unique and/or transformational nature to existing global product offerings. All EPTL transactions must meet the IRB Eligibility Criteria outlined in Article 5.
- 21.2 The IRB Authority may publish updated versions of the EPTL. Such a subsequent published version of the EPTL may be considered to replace Version 1.0 in this Contract. Replacing the EPTL would require agreement between the IRB Authority and the Contractor, as part of a contract change proposal submitted to the Contracting Authority.
- 21.3 In the case where EPTL Version 1.0 is replaced with a subsequent version, any IRB Transactions which have already been accepted by the IRB Authority as eligible under Version 1.0 will remain unaffected by the change to a subsequent version.
- 21.4 The Contractor may choose to submit a banked EPTL-related transaction for this ISS Project. (*please see Article 16 - Banking*). With respect to a banked EPTL transaction, the Version of the EPTL which was in effect at the time of the transaction's acceptance into the IRB Bank may be different than the version applicable to this ISS Project. In that case, the banked EPTL transaction can nonetheless be counted towards the EPTL requirement on this ISS Project.
- 21.5 The IRB Authority reserves the right to seek validation of the eligibility of the EPTL Transactions found in Appendix BA1 within one year of the Effective Date of the Contract. The IRB Authority shall submit to the Contractor within one year of Contract Award a written notice of the EPTL transactions that the IRB Authority wishes to validate. Once the request is made, the Contractor shall have 60 calendar days to submit a package in support of their EPTL eligibility claims. Should an EPTL transaction be found to not meet the EPTL criteria (outlined in article 21.1), it will not be eligible to be used towards meeting the minimum EPTL requirement outlined in article 2.1.6.
- 21.6 The IRB Authority is the single point of contact between industry and government regarding the EPTL. All enquiries regarding the EPTL contents should be directed to the IRB Authority.

22. Announcements

- 22.1. Industry Canada reserves the right to make general announcements on contracted or signed Memorandum of Understanding IRB Transactions. Announcements would include company names, general descriptions of the work being proposed and approximations of CCV and sub contract value.

23. IRB Transaction Alterations

- 23.1. The Contractor shall not alter the IRB Commitments listed in Appendix BA1 unless:

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- 23.1.1. the Contractor has submitted a proposal to the IRB Authority through the Contracting Authority, with respect to the alteration; and,
- 23.1.2. the IRB Authority through the Contracting Authority has given written approval to the Contractor and requested the Contracting Authority to amend the Contract accordingly.
- 23.2. The Contractor may propose alterations to or substitutions for any of the IRB Transaction(s) listed in Appendix BA1, and the IRB Authority may accept these requests provided that in the judgment of the IRB Authority:
 - 23.2.1. the circumstances requiring the change are exceptional and likely to result in undue hardship upon the Contractor is a change is not made;
 - 23.2.2. the obligations of this Contract under the Statement of Work are maintained i.e. the overall Regional and Small and Medium Business Commitments are maintained;
 - 23.2.3. the proposed alterations or substitutions meet the IRB Eligibility Criteria stated in this Contract;
 - 23.2.4. the proposed substitute IRB Transaction is not less than the IRB Transaction to be replaced both as to the level of technological sophistication of the work to be performed and the CCV;
 - 23.2.5. Canadian industry will receive the maximum high-quality, low risk, Direct Benefits associated with the delivery of the work; and
 - 23.2.6. Canadian industry will receive high-quality, low risk, Indirect Benefits of the same level of technology as the Direct Benefits.

24. Contract Price Changes

- 24.1. Where the Contract is to be amended, the IRB Commitments as specified in Article 2, Statement of Work: IRB Commitments and Responsibilities, shall be correspondingly either increased or decreased to reflect this amendment.

25. Verification and Access to Records

- 25.1. The Contractor shall implement the IRB procedures and practices as described in the IRB Management Plan. Any changes to the IRB Management Plan are subject to approval by the IRB Authority.
- 25.2. The Contractor shall keep proper records and all documentation relating to the determination of the CCV of the work provided under this Contract, including invoices and proof of payments. The Contractor shall not, without the prior written consent of the IRB Authority, dispose of any such records or documentation until the expiration of two (2) years after final payment of this Contract, or until settlement of all outstanding claims and disputes, whichever is later. All such records and documentation shall at all times during the aforementioned retention period be open to verification, inspection and examination by the IRB Authority or his/her delegate, who may make copies thereof and take extracts there from.
- 25.3. In addition, the IRB Authority may request the Contractor provide copies of all such information be sent to him/her via mail or courier for a random sample of IRB Transactions as he/she may from time to time request.

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- 25.4. If the IRB Authority determines that the information contained in the annual report and certified by the Certificate of Compliance shall be verified, the Contractor shall undertake to provide the IRB Authority with access, at all reasonable times, and within sixty (60) calendar days of being notified, to its accounts and records relating thereto and shall, by obtaining similar undertakings in the subcontracts of all Eligible Parties, arrange for the same in respect of any subcontracts and suppliers carrying out the work.
- 25.5. Where, subsequent to the verification action taken pursuant to this Clause, the IRB Authority determines that the records are insufficient to verify the Contractor's achievements in respect of any IRB Commitment, the Contractor shall provide such additional information as may be required by the IRB Authority.
- 25.6. Where it cannot be verified that an IRB Transaction has provided the IRB claimed, that portion of the IRB which cannot be verified will be considered as not having been achieved and the IRB Authority will give Notice to the Contractor of the shortfall through the Contracting Authority.
- 25.7. Should the Contractor disagree with a decision delivered pursuant to the above paragraph, the Contractor, within twenty (20) Business Days from the notification of the said decision, may appeal, by Notice to the Contracting Authority, the above decision by describing fully the issue, all relevant factors and the reasons for its disagreement with the said decision. The IRB Authority, on subsequent review of the factors surrounding the disagreement, will issue a final determination, identifying the amount of any such IRB achieved.
- 25.8. If the IRB Authority determines that a significant Shortfall in the Contractor's total IRB Commitment exists and if the IRB Authority believes that the Contractor will not meet its total IRB Commitment, the IRB Authority may give, through the Contracting Authority, notice to the Contractor and request the contractor to submit a proposal showing how the Contractor plans to correct such deficiencies. The Contractor will submit its proposal within sixty (60) calendar days of receipt of such notice. If the proposal is not acceptable to the IRB Authority, the IRB Authority may request the Contracting Authority to terminate the Contract.
- 25.9. The Contractor's overall IRB Commitments, claims and achievements, is information available to Parliament and is considered by the Canadian Government as information that can be released to the public. However, the Contractor's specific corporate and transactional information is considered as commercial confidential and its receipt, storage and protection is governed by applicable federal laws and processes. Contractors are encouraged to clearly mark their documents identifying each page as belonging to them and containing sensitive, commercially confidential information. .

26. Over-Achievement of IRB Commitments

- 26.1. The Contractor may achieve a CCV for any Commitment in excess of the value stated in the IRB Transactions without prior approval. When an over-achievement occurs in an IRB Transaction Commitment, subject to the prior written approval of the IRB Authority, the over-achievement may be applied against the shortfall or unallocated portion of the IRB Transactions, as long as the Regional and Small and Medium Business Commitments are achieved. An over-achievement in one Region will not be applied to reduce a shortfall in another Region.

27. Failure to Achieve IRB Commitments

- 27.1. Liquidated Damages

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- 27.1.1. In respect of the failure to achieve any of the Commitments in clauses 2.1.1 to 2.1.8 (Statement of Work: IRB Commitments and Responsibilities) by the end of the IRB Achievement Period, the Contractor shall immediately pay to Canada as liquidated damages 10% of the Shortfall.
- 27.1.2. In the event that liquidated damages arise under more than one of the IRB Commitments, the Contractor will be liable only under the IRB Commitment which results in the highest liquidated damages.
- 27.1.3. Included in the total IRB Commitments are the unallocated IRB Commitments.
- 27.2. Holdback/Stop Payment
- 27.2.1. If at the end of IRB Reporting Period 2, it is confirmed through the submission and evaluation of transactions that the Contractor failed to identify 60% of the IRB Commitment Value in eligible IRB Transactions by the end of Reporting Period 1, as stated in Article 2.1.9, the holdback applied to all subsequent payments becoming due and payable after written notice from the Contract Authority shall be 15%. The holdback shall only be released once the Contractor has identified 60% of the IRB Commitment Value in eligible IRB Transactions to the satisfaction of Canada.
- 27.2.2. With respect to the Holdback outlined in sub-section 27.2.1, a grace period of thirty (30) calendar days, beginning on the date of failure notification by the IRB Authority, shall pass before the Holdback takes effect. Within this period, the Contractor may take corrective action. Four (4) years after contract amendment date exercising the option to proceed with the Phase B (Production), if no acceptable corrective actions are taken by the Contractor, the accumulated deduction for holdback is forfeited.
- 27.2.3. If at the end of the IRB Reporting Period 4, it is confirmed through the submission and evaluation of transactions that the Contractor has failed to identify 100% of the IRB Commitment Value in eligible IRB transactions by the end of Reporting Period 3, as stated in Article 2.1.10, Canada will suspend contract payment until the situation is remedied.
- 27.2.4. With respect to the suspension of contract payment outlined in sub-section 27.2.3, a grace period of thirty (30) calendar days, beginning on the date of failure notification by the IRB Authority, shall pass before the suspension of contract payment takes effect. Within this period, the Contractor may take corrective action.
- 27.3. In the event that the Contract is terminated for default pursuant to the General Conditions Clause entitled "Default by the Contractor", the Contractor will immediately pay to Canada an amount equal to the Liquidated Damages that would be payable under clause 27.1.1 based on the shortfall in regard to those Commitments that, according to Appendix BA1 (Plans, Transactions and Tables) were to be achieved by the date of termination. In the event of such payment, the Contractor will have no further liabilities in regard to the IRB requirements of the Contract.
- 27.4. In the event that this Contract is terminated for convenience pursuant to the General Conditions Clause entitled "Termination for Convenience", the Contractor will have no further liabilities. In the event of partial termination of the Contract, the Contractor will be released from the terminated portions of its Commitments and from the provisions of Article 2 (Statement of Work: IRB Commitments and Responsibilities) as it relates to such terminated portions.
- 27.5. If, during the progress of the Contract, a change in the Work is initiated by the Crown which

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results in the Contractor no longer being able to source from a Canadian Company and, as a consequence, Commitments in the Statement of IRB Work may not be met, the Contractor shall immediately notify the IRB Authority through the Contract Authority. The Contractor shall fully describe the issue, provide all supporting data, including a complete record of attempts to purchase from Canadian sources and Canadian suppliers' responses, together with an analysis of specific technical, commercial or other factors which result in the inability to source from Canada.

- 27.6. The Contractor shall, prior to being entitled to receipt of the final Payment from Canada following the completion of the Work, provide Canada a guarantee in the form of a letter of credit, covering the amount of monies that would be owing by way of liquidated damages pursuant to the Liquidated Damages Clause should the Contractor not achieve any further IRB Credits after the date of the final Payment. The letter of credit shall be:
- 27.6.1. issued by a financial institution which is a member of the Canadian Payment Association;
 - 27.6.2. in form and substance satisfactory to the Minister;
 - 27.6.3. solely at the cost of the Contractor;
 - 27.6.4. abated as set forth below;
 - 27.6.5. unconditional and irrevocable; and
 - 27.6.6. subject to the Uniform Customs and Practice for Documentary Credits, as set out in Publication No. 600, July 2007.
- 27.7. The letter of credit shall remain in force until the earliest of:
- 27.7.1. the achievement of the Commitments; and
 - 27.7.2. six months following the submission of the final IRB Report at which time the letter of credit will be abated in full and will be returned by Canada to the Contractor.
- 27.8. The obligation of the Financial Institution to pay under the letter of credit will be triggered by notice executed by either the Minister or the Deputy Minister of Public Works and Government Services Canada to the Issuing Bank stating that the Contractor is in default under the Contract for failure to achieve the Commitments within the Achievement Period, that Canada has made a demand by Notice for payment of Liquidated Damages in accordance with the Liquidated Damages Clause and that the Contractor has failed to pay Canada Liquidated Damages in accordance with the Liquidated Damages Clause. No other event will trigger payment under the letter of credit.
- 27.9. The Contract Authority in accordance with this Article, will have the right to holdback, drawback, deduct and set off from and against the monies owing at any time by the Crown to the Contractor, any damages owing under this Contract equal to ten percent (10%) of the shortfall amount.
- 27.10. Nothing in this Article will be interpreted as limiting the rights and remedies which the Contracting Authority may otherwise have in relation to any breach of this Article by the Contractor, including the right to terminate the Contract for default.

28. Responsibilities of the Parties

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28.1. The Parties to this Contract acknowledge and agree that:

- 28.1.1. Canada has responsibility for the economy of Canada and, in order to develop its economy, has set in place policies and programs to promote and enhance the development of the Canadian industrial base, including regional industry and small business;
- 28.1.2. the award of this Contract to the Contractor resulted from a procurement process in which the Contractor committed to fulfil the CCV Commitments set out in Article 2, Statement of Work: IRB Commitments and Responsibilities;
- 28.1.3. it is the responsibility of the Contractor to ensure that it can complete the IRB Transactions and that these are not limited by applicable laws, regulations, policies or standards; and
- 28.1.4. actual damages which would be sustained by Canada in the event of a breach by the Contractor of the CCV Commitment provisions of this Contract would be commercially impracticable or extremely difficult to compute or ascertain and, therefore, the provisions for Liquidated Damages are agreed to be a fair and reasonable best estimate of such actual damages, and the manner provided herein for the enforcement and collection of Liquidated Damages is agreed to be fair and reasonable.

29. Dispute Settlement - Resolution of Discrepancies

- 29.1. In matters pertaining to proposed and/or approved IRB Transactions, in circumstances where the IRB Authority and the Contractor fail to agree after negotiating in good faith, then the decision of the IRB Authority will prevail.
- 29.2. In the event that the Contractor fails to agree to the decision rendered by the IRB Authority, then the Contractor may, within twenty-eight (28) calendar days of receipt of Canada's decision, submit a request to the Contracting Authority, for reconsideration of the matter by the IRB Authority. Such a request shall fully describe the issue, all relevant factors and the reasons for the Contractor's disagreement. Industry Canada will, within twenty-eight (28) calendar days of receipt of the request, issue the final determination detailing the reasons for the decision.

30. Government Organizations

- 30.1. It is the responsibility of the Contractor to be familiar with Government departments and agencies including the following which are responsible for regional and industrial development: Industry Canada; Department of Western Economic Diversification (WD); Atlantic Canada Opportunities Agency (ACOA); and Canada Economic Development for Quebec (CED-Q).

31. Compliance with the *Lobbying Act*

- 31.1 The Contractor and its Eligible Parties each represents and warrants:
 - 31.1.1 that it has filed all *Lobbying Act* returns to be filed in respect of persons employed by it who communicate and/or arrange meetings with public office holders as part of their employment duties, and that it will continue to do so;
 - 31.1.2 that it has not contracted with any person to communicate and/or arrange meetings with public office holders for remuneration that is or would be contingent in any way upon success of such person arranging meetings with public office holders, or upon the approval and granting of IRB Credit under this Contract;

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- 31.1.3 that it will not contract with any person to communicate and/or arrange meetings with public office holders for remuneration that is or would be contingent upon the success of such person arranging meetings with public office holders, or upon the approval and granting of IRB Credit under this Contract;
- 31.1.4 all persons who are or have been contracted by it to communicate and/or arrange meetings with public office holders in respect to this Contract are in full compliance with the registration and other requirements of the *Lobbying Act*;
- 31.1.5 it shall at all times ensure that any persons contracted to communicate and/or arrange meetings with public office holders in respect of this Contract are in full compliance with the requirements of the *Lobbying Act*.
- 31.2 When submitting each IRB Annual Report, the Contractor and its Eligible Parties must provide the IRB Authority with an update, in a form satisfactory to the IRB Authority, on all representations, warranties and undertakings made herein.

32. List of Eligible Parties

- 32.1. The Eligible Parties to this contract include the companies and coordinates listed below:

(List to be included once the contract has been negotiated)

33. List of Approved Global Value Chain Platforms

- 33.1. The Platforms approved for GVC work are listed below:

(List to be included once the contract has been negotiated)

Appendix BA1

Plans, Transactions and Tables

IRB Plans – to be attached from Contractor's IRB Proposal

IRB Transactions – to be attached from Contractor's IRB Proposal

IRB Tables – templates below, for IRB reporting purposes

Table 1: Total of IRB Transactions by Period and Region

Region	Period 1	Period 2	Period 3	Period 4	Period 5	Totals by Region
Atlantic						
Quebec						
West						
N. Ontario						
Ontario						
Unallocated						
Totals By Period						

Table 2: Total Direct IRB Transactions by Period and Region

Region	Period 1	Period 2	Period 3	Period 4	Period 5	Totals by Region
Atlantic						
Quebec						
West						
N. Ontario						
Ontario						
Unallocated						
Totals By Period						

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Table 3: Total Indirect IRB Transactions by Period and Region

Region	Period 1	Period 2	Period 3	Period 4	Period 5	Totals by Region
Atlantic						
Quebec						
West						
N. Ontario						
Ontario						
Unallocated						
Totals By Period						

Table 4: IRB Transaction Listing and Summary - by Period

Transaction Description	Period 1	Period 2	Period 3	Period 4	Period 5	Totals
Direct IRBs						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

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Table 5: IRB Transaction Listing and Summary - by Region

Transaction Description	Atlantic	Quebec	Ontario	Northern Ontario	West	Totals
Direct IRBs						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

Table 6: IRB Transactions Listing and Summary for Small and Medium Business - by Period

Transaction Description	Period 1	Period 2	Period 3	Period 4	Period 5	Totals
Direct IRBs						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

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Table 7: IRB Transactions Listing and Summary for Small and Medium Business - by Region

Transaction Description	Atlantic	Quebec	Ontario	Northern Ontario	West	Totals
Direct IRBs						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

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Appendix BA2

Certificate of Compliance For IRB Reporting Purposes

WHEREAS Her Majesty the Queen, in right of Canada as represented by the Minister of Public Works and Government Services Canada (referred to herein as the Minister) on the ____ day of ____ has entered into contract with _____ for the Contract.

AND WHEREAS Such Contract requires that, as evidence of the achievement of Canadian Content Value of Industrial and Regional Benefits Transactions and Commitments, the Contractor shall submit a Certificate of Compliance to that effect to the IRB Authority;

NOW THEREFORE, The Contractor declares and certifies as follows:

- I) The information contained in the documents appended herewith, which applies to the reporting of the IRB Transaction periods is to the best of our knowledge and ability complete, true and correct;
- ii) The information contained in the documents appended herewith is compliant with information contained in Certificates of Compliance submitted to the Contractor by other Eligible Parties;
- iii) The Canadian Content Values shown in documents appended herewith have been determined in accordance with Article 4 (Canadian Content Value) of Volume 2 Module B of the Contract;

IN WITNESS THEREOF THIS CERTIFICATE OF COMPLIANCE HAS BEEN SIGNED THIS
____ DAY OF _____ BY THE SENIOR COMPTROLLER WHO IS DULY
AUTHORIZED IN THAT BEHALF.

SIGNATURE

NAME AND TITLE OF SENIOR COMPTROLLER

AT: _____

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Appendix BA3

IRB Transaction Sheet

1. IRB Transaction #:

2. IRB Transaction Title (a brief title identifying the nature of the transaction):

3. Indirect or Direct IRB Transaction:

Type of activity:

4. Transaction Value:

Total Transaction Value:

% of Canadian Content Value:

Total Canadian Content Value:

5. Sourcing Region:

Region:

City, Province:

6. Small and Medium Business - is the Recipient a Small and Medium Business:

Yes/No:

7. Company providing IRB (Donor):

Company:

Address:

Contact:

Tel:

Fax:

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8. Company Receiving IRB (Recipient):

Company:

Address:

Contact:

Tel:

Fax:

E-mail:

9. Industrial Sector, Technology and Expertise of the IRB Recipient:

Industrial Sector:

Federal Supply Class (FSC) – If known:

Enhanced Priority Technology List (EPTL): Yes / No

If YES:

EPTL Version:

Sector:

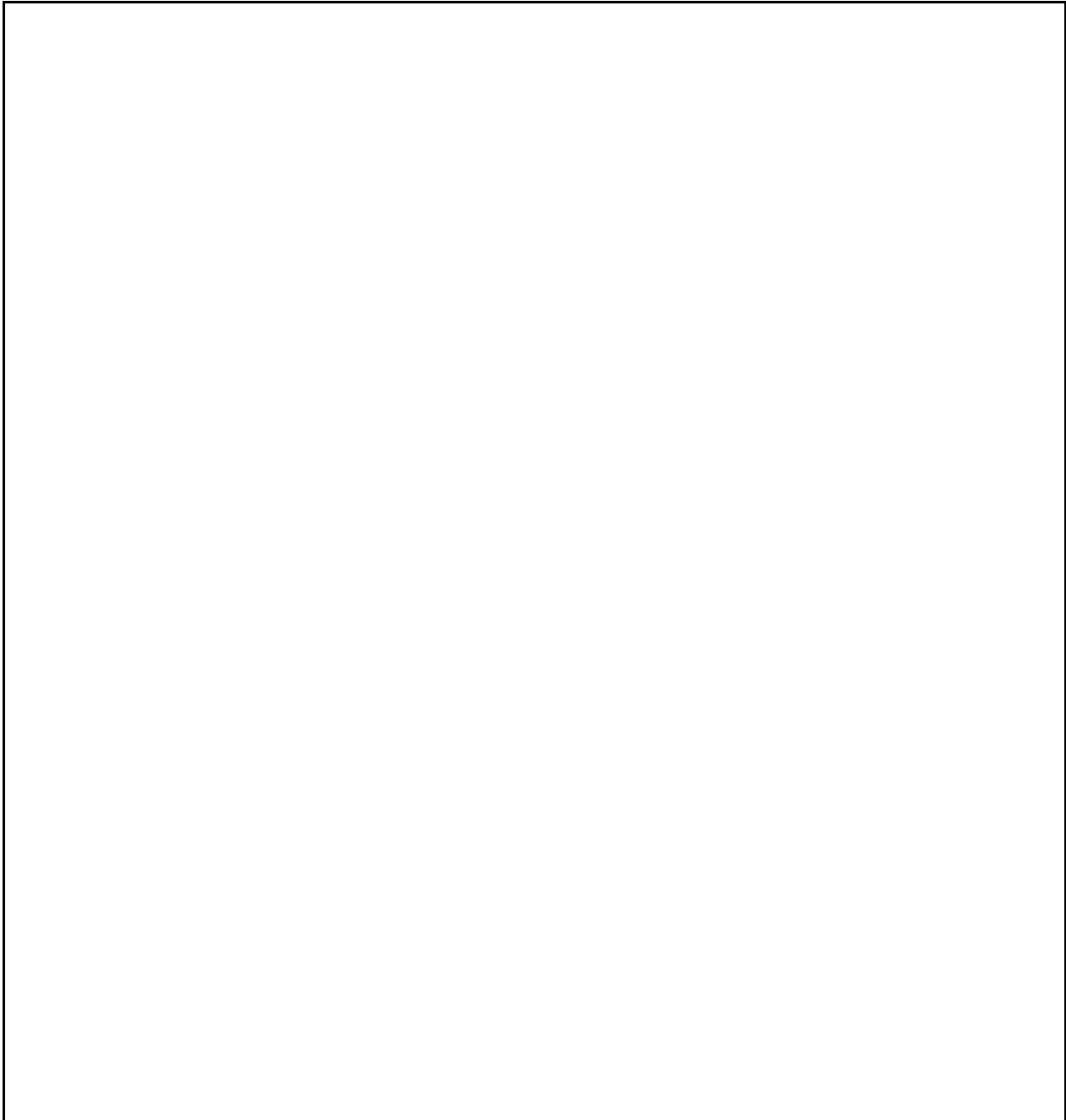
Category:

Describe and document the activity's relevance to the EPTL List Version 1.0 and its unique and/or transformational nature to existing global product offerings:

Description of the expertise of the IRB Recipient:

10. Description of the IRB Transaction and Canadian Recipient for the IRB Transaction:

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11. Quality of IRB:

Provide description of the quality of the individual Transaction. For example, increases in employment, increased marketability of recipient company, international exposure, experience with new technology, etc.

12. Provide and show justification for eligibility as a valid IRB Transaction (causality, timing, incrementality, eligible party and CCV):

13. Canadian Government Assistance:

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Does this apply? If so, provide a description of other Canadian Government assistance:

14. Time Phasing of IRB Transaction:

Total Contract Value of the Transaction		Total CCV		CCV %		Liquidated Damages: 10%			
\$		\$		%					
Period	Pre-Contract	1	2	3	4	5	6	7	Total
Region									
Atlantic									
Quebec									
Ontario									
N. Ontario									
Western									
Unallocated									
Total CCV									
Foreign									
Total									

15. Any other comment related to the Transaction:

16. Federal Supplier Classification (FSC) code.

Appendix BA4

Enhanced Priority Technology List – Version 1.0

Sector	Category	Description
Ships	Defence	Detection capabilities and decision aids
	Signature Management	Detectability reduction
Cyber	Network Monitoring	Detection and tracking of anomalous behaviours that threaten network defence capabilities
	Network Defence	Tools to support dynamic responses to isolate, monitor and defeat cyber intrusions
Aerospace	Arctic and Maritime Domain Awareness	Affordable aerospace-based surveillance and monitoring systems
	Vulnerability Reduction	Precision navigation and timing capabilities that reduce vulnerabilities in current systems such as GPS
Soldier Systems	Power and Energy	Lightweight high-energy portable power sources
	Full Spectrum Protection	Blast and ballistic omni-directional shielding
	Garment Platforms	Integrated multi-function electro-textiles
	Tunable Weapons Systems	Weapons systems which deliver effects across non-lethal and lethal environments
	Situation Awareness	Integrated, portable, lightweight, multifunction, wireless and secure C3 systems

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Appendix BA5

IRB CDRLs

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Module B Volume 2 Appendix BA5			B. Contract / RFP Number W4x-09ISSP/A																									
C. SOW Identifier		D. Data Category		E. Contractor																								
1. Item Number IRB-001		2. Title IRB Annual Report		3. Subtitle																								
4. Data Item Number IRB-001 IRB Annual Report		5. Reference IRB Terms and Conditions – Module B Volume 2, Clauses 2.2 and 3		6. Technical Office Industry Canada IRB Authority																								
7. Inspection N/A		8. Approval Code A		9. Review Period																								
10. Frequency ANNLY																												
11. As of Date Contract Award		12. Date of First Submission 14 MACA		13. Date of Subsequent Submission ANNLY																								
14. Remarks The IRB Annual Report will be reviewed by Industry Canada		15. Distribution <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2" style="text-align: left; padding: 5px;">Addressee</th> <th colspan="2" style="text-align: center; padding: 5px;">Draft</th> <th colspan="2" style="text-align: center; padding: 5px;">FINAL</th> </tr> <tr> <th style="text-align: center; padding: 5px;">Hard Copy</th> <th style="text-align: center; padding: 5px;">Soft Copy</th> <th style="text-align: center; padding: 5px;">Hard Copy</th> <th style="text-align: center; padding: 5px;">Soft Copy</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">PWGSC CA</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">1</td> </tr> <tr> <td style="padding: 5px;">IC IRB Auth</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">1</td> </tr> <tr> <td style="padding: 5px;">TOTAL</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">2</td> </tr> </tbody> </table>			Addressee	Draft		FINAL		Hard Copy	Soft Copy	Hard Copy	Soft Copy	PWGSC CA	0	0	0	1	IC IRB Auth	0	0	0	1	TOTAL	0	0	0	2
Addressee	Draft		FINAL																									
	Hard Copy	Soft Copy	Hard Copy	Soft Copy																								
PWGSC CA	0	0	0	1																								
IC IRB Auth	0	0	0	1																								
TOTAL	0	0	0	2																								
16. Prepared By Industry Canada		17. Preparation Date 2012 January 20		18. Approved By Industry Canada																								
		19. Approval Date 2012 January 20																										

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CONTRACT DATA REQUIREMENTS LIST																																		
A. Annex Description Module B Volume 2 Appendix BA5			B. Contract / RFP Number W4x-09ISSP/A																															
C. SOW Identifier		D. Data Category		E. Contractor																														
1. Item Number IRB-002		2. Title Tranche 2 IRB Transactions		3. Subtitle																														
4. Data Item Number IRB-002 Tranche 2 of proposed IRB Transactions		5. Reference IRB Terms and Conditions – Module B Volume 2, Clause 2.1.9		6. Technical Office Industry Canada IRB Authority																														
7. Inspection N/A		8. Approval Code A		9. Review Period 12 months																														
				10. Frequency One																														
11. As of Date 12 MACA		12. Date of First Submission		13. Date of Subsequent Submission																														
14. Remarks Review period by IC – 12 months		15. Distribution																																
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A. Annex Description Module B Volume 2 Appendix BA5			B. Contract / RFP Number W4x-09ISSP/A																														
C. SOW Identifier		D. Data Category		E. Contractor																													
1. Item Number IRB-003		2. Title Tranche 3 IRB Transactions		3. Subtitle																													
4. Data Item Number IRB-003 Tranche 3 of proposed IRB Transactions		5. Reference IRB Terms and Conditions – Module B Volume 2, Clause 2.1.10		6. Technical Office Industry Canada IRB Authority																													
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Appendix BA6

IRB DIDs

DATA ITEM DESCRIPTION – DESCRIPTION DE DONNÉES

1. TITLE – TITRE Industrial and Regional Benefits (IRB) Annual Report		2. IDENTIFICATION NUMBER – NUMÉRO D'IDENTIFICATION IRB-001	
3. DESCRIPTION / PURPOSE – DESCRIPTION / OBJET The IRB Report reports IRB achievements against Contract commitments.			
4. APPROVAL DATE DATE D'APPROBATION 2012 January 20	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) Industry Canada IRB Authority		6. GIDEP APPLICABLE – PROGRAMME D'ÉCHANGE DE DONNÉES PERTINENT
7. APPLICATION / INTERRELATIONSHIP – APPLICATION / INTERDÉPENDANCE Reference: IRB Terms and Conditions (Module B Volume 3, clauses 2.2 and 3			
8. ORIGINATOR – AUTEUR IRB Authority, Industry Canada		9. APPLICABLE FORMS – FORMULES PERTINENTS	
10. PREPARATION INSTRUCTIONS – INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES 10.1 The Contractor must submit to the IRB Authority, through the PWGSC Contracting Authority (CA), annual IRB Reports based on the performance achieved during the IRB Reporting Periods noted in this Contract. These reports must be submitted 60 calendar days after the end of the annual IRB Reporting Period. Each annual IRB Report shall consist of four parts. 			

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Part C. for each IRB Transaction being reported, a description of the achievements, activities, delays and/or problems. A plan of action to resolve any difficulties.

Part D. A summary that shall include:

- i. the total amount of progress payments or invoices submitted by the Contractor for work completed since the Effective Date of the Contract;
- ii. a forecast of IRB achievements;
- iii. a description of Small and Medium Size Business development activities undertaken during the reporting period;
- iv. an explanation of any IRB shortfall in achievement evident from the data in Part A, and a plan of action to resolve the problem;
- v. a list of the IRB Transactions, which had been approved by the IRB Authority, which have since been cancelled, terminated, added or substantially altered during the reporting period, the details of any requested changes, their status vis-à-vis Contract amendment, and the reasons thereof;
- vi. a brief narrative describing, on an exception basis, any noteworthy developments with respect to Regional Small Business marketing considerations; and
- vii. a description and explanation of any proposed changes to the IRB Management Plan.

10.3 Additional Information

As evidence of the Contractor's achievement of IRB Commitments, the Contractor shall provide, appended to the IRB Annual Reports, a Certificate of Compliance, signed off by the senior company Comptroller, in respect of each IRB Transaction for which there was activity in that Reporting Period. The Certificate of Compliance also covers those IRB achievements of the Contractor's Eligible Parties and sub-contractors.

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DATA ITEM DESCRIPTION – DESCRIPTION DE DONNÉES

1. TITLE – TITRE Tranche 2 of proposed IRB Transactions		2. IDENTIFICATION NUMBER – NUMÉRO D'IDENTIFICATION IRB-002	
3. DESCRIPTION / PURPOSE – DESCRIPTION / OBJET The Contractor shall submit to the IRB Authority, at 12 months after contract award (MACA), acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 60% of the contract value, measured in CCV.			
4. APPROVAL DATE DATE D'APPROBATION 2012 January 20	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) IRB Authority, Industry Canada		6. GIDEP APPLICABLE – PROGRAMME D'ÉCHANGE DE DONNÉES PERTINENT
7. APPLICATION / INTERRELATIONSHIP – APPLICATION / INTERDÉPENDANCE Reference: IRB Terms and Conditions (Module B Volume 3, clauses 2.1.9)			
8. ORIGINATOR – AUTEUR IRB Authority, Industry Canada		9. APPLICABLE FORMS – FORMULES PERTINENTS	
10. PREPARATION INSTRUCTIONS – INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES Contractor shall submit to the IRB Authority, at 12 MACA, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 60% of the contract value, measured in CCV. For each IRB Transaction, the information submitted must be in the same format as that which was used for the IRB Proposal submitted at bid closing.			

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DATA ITEM DESCRIPTION – DESCRIPTION DE DONNÉES

1. TITLE – TITRE Tranche 3 of proposed IRB Transactions		2. IDENTIFICATION NUMBER – NUMÉRO D'IDENTIFICATION IRB-003	
3. DESCRIPTION / PURPOSE – DESCRIPTION / OBJET The Contractor shall submit to the IRB Authority, at 36 months after contract award (MACA), acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV.			
4. APPROVAL DATE DATE D'APPROBATION 2012 January 20	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) IRB Authority, Industry Canada		6. GIDEP APPLICABLE – PROGRAMME D'ÉCHANGE DE DONNÉES PERTINENT
7. APPLICATION / INTERRELATIONSHIP – APPLICATION / INTERDÉPENDANCE Reference: IRB Terms and Conditions (Module B Volume 3, clauses 2.1.10)			
8. ORIGINATOR – AUTEUR IRB Authority, Industry Canada		9. APPLICABLE FORMS – FORMULES PERTINENTS	
10. PREPARATION INSTRUCTIONS – INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES Contractor shall submit to the IRB Authority, at 36 MACA, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV. For each IRB Transaction, the information submitted must be in the same format as that which was used for the IRB Proposal submitted at bid closing.			

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MODULE C

TO

VOLUME 2

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Volume 2, Annex CA

ANNEX CA TO VOLUME 2

STATEMENT OF WORK

FOR THE

ACQUISITION

OF THE

INTEGRATED SOLDIER SYSTEM (ISS)

14 MARCH 2013

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1	1 Introduction
1.1	1.1 Scope
1.1.0-1	The Contractor must deliver an Integrated Soldier System (ISS) solution in accordance with (IAW) this Statement of Work (SOW) and the specifications that are attached.
1.2	1.2 Background
1.2.1	1.2.1 Project Summary
1.2.1.0-1	The ISS will be procured and supported via the use of two different contracts: the Acquisition Contract, Contract number Wxxxx-09ISSP/001/RA, for the integration, qualification and acquisition of the ISS, and the Optimised Weapon System Support (OWSS) Contract, Contract number Wxxxx-09ISSP/002/RA, for the long term support, and evolution of the ISS.
1.2.1.0-2	The ISS is being procured during the execution of the Acquisition contract, composed of two phases: a “System Qualification” phase and a “Production” phase.
1.2.1.0-3	During the “System Qualification” phase execution, the Contractor must provide objective evidence that the proposed ISS Suite (ISS-S) and enabling systems meet the technical requirements, demonstrate the fitness for use of the ISS, and provide the evidence that the ISS Integrated Logistic Support (ILS) solution proposed will sustain the ISS for the duration of the OWSS.
1.2.1.0-4	During the “Production” phase, the Contractor must produce and deliver the requisite ISS equipment, assist in fielding the system, and conduct the training, as stated in Annex CF.
1.2.1.0-5	The Contractor must setup the ISS support enabling systems and services necessary to sustain the ISS during the execution of the OWSS contract.
1.2.2	1.2.2 The Acquisition Contract phased objectives
1.2.2.0-1	Canada chose to take a phased approach for the acquisition of the ISS, consisting of a System Qualification Phase, followed by a Production Phase. The following paragraphs describe each phase objective in order for the acquisition to be successful.
1.2.2.1	1.2.2.1 System Qualification Phase objectives
1.2.2.1.0-1	The Contractor must deliver an ISS-S, a System Executive and Planning (SEP) Suite and Battle Management System (BMS) Software on a Canadian Forces (CF) Laptop, that satisfy the Technical Performance Specifications (TPS) and the User Acceptance

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	Performance Specifications (UAPS) documented in Annex CB of this Contract.
1.2.2.1.0-2	The Contractor must setup and implement services that must support other SOW activities documented at Annex CB.
1.2.2.1.0-3	Through the conduct of verification, qualification and test program IAW Figure 2, ISS System Qualification Life Cycle, the Contractor must qualify system elements and their interfaces.
1.2.2.1.0-4	The Contractor must produce and deliver the ISS-S models and required enabling systems, to support conduct of the System Acceptance Test (SAT).
1.2.2.1.0-5	The Contractor must provide Canada with objective evidence, such as data items and records, demonstrating the ISS meets its technical requirements.
1.2.2.1.0-6	The Contractor must demonstrate the system level performance and functionality of the ISS with the successful verification and conduct of SAT.
1.2.2.1.0-7	The Contractor must provide objective evidence, such as data items and records, demonstrating that the ILS solution must support the sustainment of the ISS for the duration of the OWSS Contract.
1.2.2.2	1.2.2.2 Production Phase objectives
1.2.2.2.0-1	The Contractor must provide objective evidence that his production and fabrication capacity is capable to produce and deliver the required number of ISS deliverables, IAW Figure 3, ISS Equipment Deliverables Illustration.
1.2.2.2.0-2	The Contractor must deliver the required number of ISS, compliant to their specifications, and IAW Annex CF.
1.2.2.2.0-3	The Contractor must produce and deliver the required number of ISS system elements and enabling systems, compliant to their specifications, and IAW Annex CF and Figure 3.
1.2.2.2.0-4	The Contractor must setup and implement the enabling systems and services necessary to sustain the ISS. These must be transitioned to OWSS to support in-service support.
1.2.2.2.0-5	The Contractor must provide the required technical publications and data items that must enable Canada to operate and maintain the ISS and its enabling systems.
1.2.2.2.0-6	The Contractor must successfully transition to OWSS and close the Acquisition Contract.
1.3	1.3 System Summary Description
1.3.0-1	The ISS is a weapon system which consists of the hardware, software, operating instructions and services structured as per section 3.3.1.1 of this SOW.

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1.4	1.4 DND Provided Facilities
1.4.0-1	Canada will provide facilities at a designated Main Operating Base (MOB) for use by the Contractor to perform the System Acceptance Testing.
1.5	1.5 The SOW Structure
1.5.0-1	The SOW documentation is structured in a series of annexes and supporting appendices. Figure 1 illustrates the Annexes and Appendices level of the SOW breakdown.
1.5.0-2	<p style="text-align: center;">Figure 1 - Volume 2 Module C Acquisition - Structure Diagram</p>
1.5.1	1.5.1 Annexes and Appendices
1.5.1.0-1	Annex CA is the Main Body of the SOW. Detailed content outline is provided at paragraph 1.5.2. Annex CA is supported by the following appendices:
1.5.1.0-1.0-1	○ Appendix 1 - Technical Reviews;
1.5.1.0-1.0-2	○ Appendix 2 - Support Concept;
1.5.1.0-1.0-3	○ Appendix 3 - Government Furnished Equipment List.
1.5.1.0-1.0-4	○ Appendix 4 - Personnel Requirements.
1.5.1.0-2	Annex CB contains the ISS Specifications. Annex CB is supported by the following

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	appendices:
1.5.1.0-2.0-1	○ Appendix 1 - Technical Performance Specification;
1.5.1.0-2.0-2	○ Appendix 2 - User Acceptance Performance Specification;
1.5.1.0-2.0-3	○ Appendix 3 - Mission Profile and Operational Mode Summary;
1.5.1.0-2.0-4	○ Appendix 4 - Failure Definition and scoring criteria;
1.5.1.0-2.0-5	○ Appendix 5 - Audio Display Test Procedure.
1.5.1.0-2.0-6	○ Appendix 6 - System Acceptance Test Scenario Instructions
1.5.1.0-2.0-7	○ Appendix 7 - MLCS Platform TDP Manufacturing Data
1.5.1.0-2.0-8	○ Appendix 8 - ISS Generic Pouches TDP Manufacturing Data
1.5.1.0-2.0-9	○ Appendix 9 - Conceptual Load
1.5.1.0-2.0-10	○ Appendix 10 - Miscellaneous Test Data and Test Procedure Requirements.
1.5.1.0-2.0-11	○ Appendix 11 - Power Consumption Test Procedure Requirements.
1.5.1.0-2.0-12	○ Appendix 12 - MLCS Verification and Quality Control Requirements.
1.5.1.0-3	Annex CC Specifies the Contract Data Requirements List (CDRL) and accompanying Data Item Descriptions (DID). This annex is supported by the following appendices:
1.5.1.0-3.0-1	○ Appendix 1 - CDRLs;
1.5.1.0-3.0-2	○ Appendix 2 - DIDs.
1.5.1.0-4	Annex CD specifies the Terms and Conditions of Loan Agreements.
1.5.1.0-5	Annex CE provides a list of References, Acronyms and a Glossary.
1.5.1.0-6	Annex CF contains the ISS Contract Deliverables List.
1.5.2	1.5.2 Annex CA Structure - SOW Main Body
1.5.2.0-1	The Acquisition SOW main body (Annex CA) is structured as follows:
1.5.2.0-1.0-1	○ Section 1 Introductory material is for information and provides insight into the project context, the system and the SOW structure.
1.5.2.0-1.0-2	○ Section 2 provides administrative direction for glossary, acronyms and applicable

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	documents, and Government Property associated with the SOW.
1.5.2.0-1.0-3	<ul style="list-style-type: none"> ○ Section 3 defines the work requirements, the project phase dependent work requirements, and points to the detailed work requirements in subsequent sections. This section provides the timeline upon which the disciplinary streams of work (documented in sections 4 to 8) will deliver work products.
1.5.2.0-1.0-4	<ul style="list-style-type: none"> ○ Section 4 specifies the Project Management functions and additional requirements.
1.5.2.0-1.0-5	<ul style="list-style-type: none"> ○ Section 5 specifies the Engineering functions and additional requirements.
1.5.2.0-1.0-6	<ul style="list-style-type: none"> ○ Section 6 specifies the ILS functions and additional requirements.
1.5.2.0-1.0-7	<ul style="list-style-type: none"> ○ Section 7 specifies the Configuration Management (CM) and Data Management (DM) functions and additional requirements.
1.5.2.0-1.0-8	<ul style="list-style-type: none"> ○ Section 8 specifies the Quality Assurance (QA) Program functions and additional requirements.
1.5.2.0-1.0-9	<ul style="list-style-type: none"> ○ Section 9 defines the Infrastructure Support Services work to be provided to Canada by the Contractor in support of the project during the Acquisition Contract.
2	2 Administration
2.1	2.1 Glossary and Acronyms
2.1.0-1	The Glossary of Terms and Acronyms used in this SOW are defined in Annex CE.
2.1.0-2	First use of an Acronym will follow (in parenthesis) the first use of the term it represents.
2.2	2.2 Applicable Documents
2.2.1	2.2.1 Applicability
2.2.1.0-1	The documents identified in Annex CE support this SOW and must be considered as supplemental information if not specifically identified in the text of this SOW. The standards, specifications and publications identified in Annex CE are applicable to the extent specified in this SOW.
2.2.1.0-2	In the event of a conflict between the text of this SOW and the references cited herein, the text of this SOW must take precedence.
2.2.1.0-3	In the event of inconsistency within the SOW, the Technical Authority (TA) must be contacted for clarification.
2.3	2.3 Standards, Specifications and Publications

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2.3.0-1	International, National and industry standards; guidelines; specifications; and publications, which are readily available publicly and commercially, will not be provided by Canada.
3	3 General Work Requirements
3.1	3.1 General
3.1.0-1	The Acquisition Contract covers the System Qualification and Production Phases of the ISS Project (ISSP). The Contractor is to draw from its organizational capability to establish programs specific to the work requirements of this SOW. The Contractor must manage the work IAW the accepted plans required by Canada, and support the work with the Infrastructure Support Services identified at section 9.
3.1.0-2	Section 3.1 specifies general work requirements which are not phase specific.
3.1.0-3	Section 3.2 specifies work for the Qualification Phase.
3.1.0-4	Section 3.3 specifies the work specific to the Production Phase.
3.1.1	3.1.1 Establish project capabilities and services
3.1.1.0-1	The Contractor must establish, implement and maintain the following capabilities:
3.1.1.0-1.0-1	○ A Project Management capability that encompasses the ISS Project Processes IAW the work requirements of section 4 of this SOW.
3.1.1.0-1.0-2	○ An Engineering capability that encompasses the ISS Technical Processes and Software Specific Processes IAW the work requirements of section 5 of this SOW.
3.1.1.0-1.0-3	○ An ILS capability IAW the work requirements of section 6 of this SOW.
3.1.1.0-1.0-4	○ A CM capability IAW the work requirements of section 7 of this SOW.
3.1.1.0-1.0-5	○ A QA capability IAW the work requirements of section 8 of this SOW.
3.1.1.0-1.0-6	○ The Contractor must provide the Infrastructure Support Services IAW the work requirements of section 9 of this SOW.
3.1.2	3.1.2 Plan the project
3.1.2.0-1	The Contractor must deliver a Project Management Plan (PMP) IAW CDRL PM-001 .
3.1.2.0-2	The Contractor must deliver a System Engineering Management Plan (SEMP) with CDRL SE-001 .

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3.1.2.0-3	The Contractor must deliver a Configuration Management Plan (CMP) in accordance CDRL CM-001 .
3.1.2.0-4	The Contractor must deliver a Quality Assurance Plan (QAP) IAW CDRL PM-002 .
3.1.2.0-5	The Contractor must deliver an Integrated Logistics Support Plan (ILSP) IAW CDRL LS-001 .
3.1.2.0-6	The Contractor must deliver a Master Project Schedule (MPS) and Work Breakdown Structure (WBS) IAW CDRL PM-003 .
3.1.3	3.1.3 Acquisition Contract Phases
3.1.3.0-1	The Contractor must plan and perform the work in two phases.
3.1.3.0-2	The Contractor must perform System Qualification Phase work IAW section 3.2 of this SOW.
3.1.3.0-3	Upon successful completion of the System Qualification Phase work, and after a Contract Amendment authorizing Production Phase, the Contractor must perform Production Phase work IAW section 3.3 of this SOW.
3.1.4	3.1.4 Concurrent Work
3.1.4.0-1	The Contractor must be capable of performing the Production Phase work concurrently and in parallel with work associated with the OWSS Contract.
3.1.4.0-2	In the event that the Contractor is tasked to support the ISS under the OWSS Contract, the Contractor must assure the transition and interfaces between the work products of the Acquisition Contract, with that of the OWSS Contract, IAW the activities specified at section 4 of this SOW and the accepted PMP (CDRL PM-001).
3.1.5	3.1.5 Configuration Management
3.1.5.0-1	The Contractor must manage the configuration of the work products during both phases IAW the activities specified at section 7 of this SOW and the accepted CMP (CDRL CM-001).
3.1.5.1	3.1.5.1 Configuration Control
3.1.5.1.0-1	In the event that the TA provides an Engineering Change Request (ECR), the Contractor must perform the work IAW configuration control process as documented in the CMP (CDRL CM-001) in order to deliver an Engineering Change Proposal (ECP) (CDRL CM-002).

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3.1.5.1.0-2	The Contractor must comply with the ECP process description at section 7 of this SOW.
3.1.5.1.0-3	The Contractor must follow the ECP process when responding to the TA initiated ECR.
3.1.5.2	3.1.5.2 Task Authorization
3.1.5.2.0-1	The Task Authorisation process will be followed to authorise any TA initiated:
3.1.5.2.0-1.0-1	○ Technical Investigation and evaluation service (TIES) requests, or
3.1.5.2.0-1.0-2	○ ECRs.
3.1.5.2.0-2	The Contractor must perform the task IAW the approved Task Authorisation process.
3.1.5.3	3.1.5.3 Contract Change Proposal
3.1.5.3.0-1	In the event that a TA initiated ECR or Contractor initiated ECP requires a contract change, the Contract Change Proposal process must be followed.
3.1.6	3.1.6 Quality Assurance
3.1.6.0-1	The Contractor must assure the quality of the process and product, IAW the accepted QAP (CDRL PM-002).
3.1.7	3.1.7 Infrastructure Support Services.
3.1.7.1	3.1.7.1 Electronic Information Environment (EIE) Services
3.1.7.1.0-1	The Contractor must establish the EIE services specified at section 9 of this SOW, in time to provide the information items and data, called for in this SOW, and as specified at Annex CC.
3.1.7.1.0-2	The Contractor must operate and maintain the EIE services for the duration of the System Qualification phase of the Acquisition Contract.
3.1.7.1.0-3	The Contractor must maintain the integrity and availability of information items, data and records placed on the EIE, for the duration of the System Qualification phase of the Acquisition Contract.
3.1.7.2	3.1.7.2 Engineering Support Services
3.1.7.2.0-1	The Contractor must establish and maintain the Engineering Support Services specified at section 9.3 of this SOW within 1 Month After Contract Award (MACA).
3.2	3.2 System Qualification phase Work

3.2.1

3.2.1 System Qualification Life Cycle

3.2.1.0-1

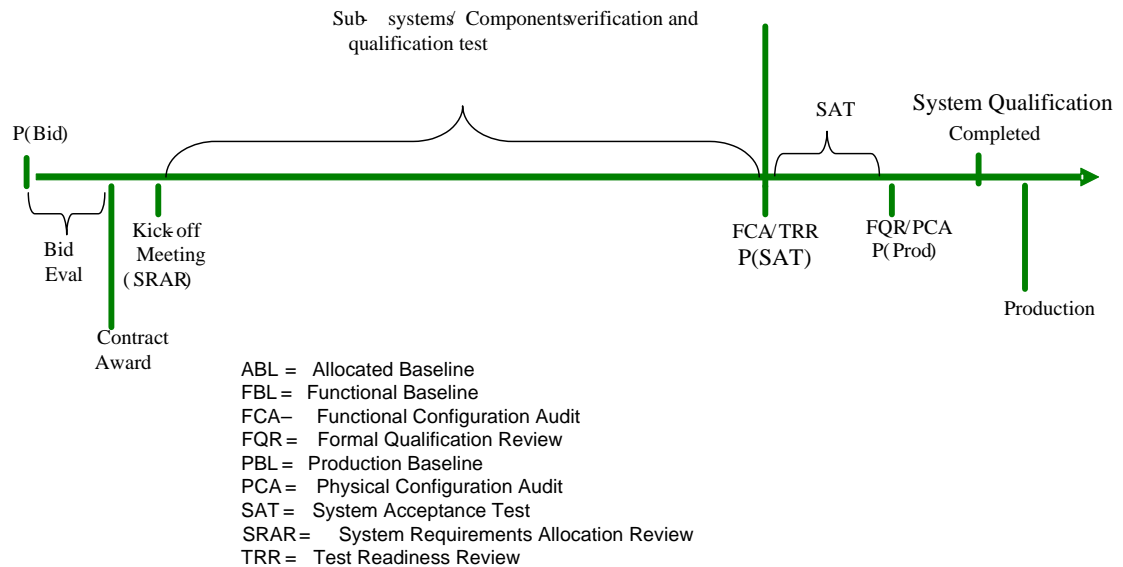


Figure 2 - ISS System Qualification Life Cycle

3.2.1.0-2

As illustrated at figure 2, during the System Qualification Phase, the Contractor will evolve the ISS configuration from the P(Bid) state to the P(Prod) state. The ISS P(Bid) state is the configuration of the system presented to Canada at Bid Time. The P(SAT) state of the system is the configuration of the system after having successfully completed the TRR. The P(Prod) state of the system is the configuration of the system after having successfully completed the FQR/PCA. Because Canada does not expect many design changes from the P(Bid) to the P(SAT) configuration, no specific design review have been imposed by Canada. It is expected that any changes to the design will be handled through the ECP process.

3.2.1.0-3

For any changes to the system configuration, proposed by either the Contractor or TA, the Contractor must follow the ECP process specified in section 7 of this SOW, and IAW the accepted CMP (**CDRL CM-001**).

3.2.1.0-4

The Contractor must perform the System Qualification Phase work within a nine (9) month duration.

3.2.2

3.2.2 Manage System Qualification work

3.2.2.0-1

The Contractor must initiate, plan and estimate, execute and control, measure, review and evaluate, close and deliver work and work products IAW the accepted PMP (**CDRL PM-**

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	001) and subordinate plans.
3.2.2.0-2	The Contractor must track the progress of the work using the MPS and WBS (CDRL PM-003).
3.2.2.0-3	The Contractor must maintain the MPS and WBS current such that it reflects the actual work in progress.
3.2.2.0-4	The Contractor must prepare and deliver Monthly Progress Reports IAW CDRL PM-004 .
3.2.2.1	3.2.2.1 Progress Review Meetings (PRM)
3.2.2.1.0-1	The Contractor must perform quarterly Progress Review Meetings (PRMs) IAW the accepted PMP (CDRL PM-001).
3.2.2.1.0-2	The Contractor must prepare and deliver a PRM Meeting agenda IAW CDRL PM-005 .
3.2.2.1.0-3	The Contractor must prepare and deliver PRM Meeting minutes IAW CDRL PM-006 .
3.2.2.1.0-4	The Contractor must prepare and deliver the Issue- Action Item Log (IAIL) IAW CDRL PM-007 .
3.2.2.1.1	3.2.2.1.1 Kick-off meeting
3.2.2.1.1.0-1	The first PRM must be a combined Acquisition Contract and System Qualification Phase kick-off meeting.
3.2.2.1.1.0-2	The Contractor must conduct the Acquisition Contract and System Qualification Phase kick-off meeting within 2 weeks after Contract Award.
3.2.2.1.2	3.2.2.1.2 Other Meeting Travel considerations
3.2.2.1.2.0-1	The Contractor must conduct other meetings IAW the accepted PMP (CDRL PM-001).
3.2.2.1.2.0-2	In the event that other meetings are required, the Contractor must make every effort to minimise Canada's travel costs by ensuring that the meetings are scheduled to coincide with other events requiring Canada's personnel presence at the meeting site.
3.2.3	3.2.3 ISS-S
3.2.3.1	3.2.3.1 Modular Load Carriage System (MLCS)
3.2.3.1.0-1	The MLCS is a Canada provided design (Module C, Annex CB, Appendices 7 and 8) and consists of the vest Platform, Combat pouches and ISS Pouches. The Contractor, in their proposal, may have modified, or augmented the MLCS Platform or ISS Pouch designs in order to provide an optimal solution.

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3.2.3.1.0-2	In the event that the Contractor's solution requires modifications to the MLCS design, the Contractor must prepare and deliver an ECP IAW CDRL CM-002 for approval by the TA.
3.2.3.1.0-3	The Contractor must include with the MLCS ECP a Notice of Revision (NOR) prepared and delivered IAW CDRL CM-003 for all changes to MLCS design information documented in the MLCS Technical Data Package (TDP) (Volume 2, Annex CB, Appendix 7 and Appendix 8).
3.2.3.1.0-4	The Contractor must produce the P(SAT) MLCS IAW the TPS (Volume 2 Annex CB Appendix 1) and the revised and approved MLCS TDPs (Volume 2 Annex CB Appendix 7 and Appendix 8) .
3.2.3.1.0-5	The Contractor must produce the P(SAT) MLCS in sufficient sizes and quantities such that the conduct of SAT is supported.
3.2.3.1.0-6	The Contractor must plan for the Production Phase requirements for delivering to Canada the requisite numbers of systems as specified in Annex CF to this Contract.
3.2.3.2	3.2.3.2 ISS Interface Descriptions
3.2.3.2.0-1	The Contractor must prepare and deliver an Interface Control Document (ICD), IAW CDRL SE-002 , for the following:
3.2.3.2.0-1.0-1	<ul style="list-style-type: none"> ○ Hardware, software and data interfaces between ISS-Electronics Suite (ISS-ES) physical devices hosting ISS functionality.
3.2.3.2.0-1.0-2	<ul style="list-style-type: none"> ○ Hardware, software and data interfaces between ISS-S and the SEP-Suite.
3.2.3.2.0-1.0-3	<ul style="list-style-type: none"> ○ Hardware, software and data interfaces between ISS-S and the BMS function on CF Laptop.
3.2.3.2.0-1.0-4	<ul style="list-style-type: none"> ○ Hardware, software and data interfaces between ISS-S and the following external systems:
3.2.3.2.0-1.0-4.0-1	<ul style="list-style-type: none"> • Coral-CR-C
3.2.3.2.0-1.0-4.0-2	<ul style="list-style-type: none"> • Defence Advanced GPS Receiver (DAGR)
3.2.3.2.0-1.0-4.0-3	<ul style="list-style-type: none"> • PRC 152 Radio
3.2.3.2.0-1.0-4.0-4	<ul style="list-style-type: none"> • PRC 148 Radio.
3.2.3.2.0-1.0-4.0-5	<ul style="list-style-type: none"> • PRC 117 Radio.
3.2.3.2.0-2	The Contractor must deliver the ICDs (CDRL SE-002) in either a single document or

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	multiple documents in order to address all the requirements of this SOW.
3.2.3.3	3.2.3.3 BMS on a CF Laptop
3.2.3.3.0-1	The BMS on a CF Laptop is an ISS-S enabling system which provides an operator with the ability to perform operational preparation functions. The BMS on a CF Laptop consists of Contractor provided software hosted on a CF Laptop, and the Contractor provided information-data transfer mechanism between the ISS-S and the BMS on a CF Laptop.
3.2.3.3.0-1.0-1	The Contractor must design, realise, integrate and test the BMS on a CF Laptop software IAW the accepted SEMP (CRDL SE-001).
3.2.3.4	3.2.3.4 SEP-Suite
3.2.3.4.0-1	The SEP-Suite is an ISS-S enabling system which provides an operator with the ability to perform System Management Functions and signals mission planning. The SEP-Suite consists of Contractor provided software hosted on a CF-Laptop, and a Contractor provided information-data transfer mechanism between the ISS-S and the SEP-Suite.
3.2.3.4.0-2	The Contractor must design, develop, integrate and test the SEP-Suite software IAW the accepted SEMP (CDRL SE-001).
3.2.4	3.2.4 Battery System
3.2.4.0-1	The Contractor must perform a risk assessment on ISS Batteries and ISS-ES Internal Batteries (if provided). This risk assessment is to be based on probable damages through operational effects such as crushing, perforation, overheating, charging or any other similar situations. The risk assessment is to consider impacts due to probable damages resulting in the release of hazardous materials.
3.2.4.0-2	The Contractor must report the Battery risk assessment findings in the Environmental Health and Safety Assessment (EHSA) and submit IAW CDRL PM-008 .
3.2.4.0-3	Canada intends to reduce the numbers and types of power supplies and rechargers to be deployed during Land Force operations. In order to specify and acquire a multifunction recharger, Canada requires information concerning the battery technology proposed by the Contractor.
3.2.4.0-4	The Contractor must prepare and deliver a Battery System Description document IAW CDRL SE-003 for acceptance by the TA.
3.2.5	3.2.5 ISS P(SAT)
3.2.5.0-1	The Contractor must design, fabricate, acquire and produce ISS system elements, in sufficient quantities and configurations, in order to support the System Qualification

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	activities IAW the Verification and Qualification Plan (VQP) CDRL SE-004 .
3.2.5.0-2	The Contractor must produce MLCS Platform and ISS Pouches pre-production prototypes compliant to MLCS Platform TDP (Annex CB Appendix 7 and Appendix 8).
3.2.5.0-3	The Contractor must prepare and deliver an SEP-Suite ICD IAW CDRL SE-002 .
3.2.5.0-4	The Contractor must produce and configure the number of MLCS pre-production prototypes which are necessary to conduct the Verification and Qualification (VQ) program and the SAT program of this SOW.
3.2.6	3.2.6 ILS
3.2.6.0-1	The Contractor must deliver the ISS-S and support its deployment IAW the ILS requirements specified at Section 6 of this SOW.
3.2.7	3.2.7 Infrastructure Support Systems and Services
3.2.7.1	3.2.7.1 EIE
3.2.7.1.0-1	The Contractor must establish EIE services IAW the EIE requirements stated at section 9 of this SOW.
3.2.7.2	3.2.7.2 Requirements Traceability Verification Matrix (RTVM) - DOORS
3.2.7.2.0-1	The Contractor must complete and maintain current the RTVM view of the TPS DOORS module. The TPS is in Annex CB Appendix 1 to this Contract.
3.2.7.2.0-2	The Contractor must provide the RTVM support stated at section 9 of this SOW.
3.2.8	3.2.8 ISS Verification and Qualification
3.2.8.0-1	The TPS and UAPS (Annex CB) specify the verification method and criteria for each requirement.
3.2.8.0-2	The Contractor must verify the system IAW the Verification Method and Verification Criteria specified in the TPS and UAPS.
3.2.8.0-3	The Contractor must conduct VQ activities IAW the VQP (CDRL SE-004).
3.2.8.1	3.2.8.1 ISS Verification and Qualification activities
3.2.8.1.0-1	The Contractor must prepare and deliver a VQP IAW CDRL SE-004 for approval by the TA.
3.2.8.1.0-2	The RTVM completed by the Contractor identifies the traceability of the ISS

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	requirements to the Contractor's ISS Design.
3.2.8.1.0-3	The RTVM, completed by the Contractor, identifies the traceability of the ISS requirements to the Contractor's VQP and applicable Qualification and Test Description and Procedures (QTDPs).
3.2.8.1.0-4	The Contractor must qualify the ISS-S software on its respective target environment IAW the approved VQP.
3.2.8.1.0-5	The Contractor must qualify the BMS Software on the CF Laptop target environment IAW the approved VQP.
3.2.8.1.0-6	The Contractor must prepare and deliver the QTDP IAW CDRL SE-005 for approval by the TA.
3.2.8.1.0-7	The Contractor must submit as many QTDP documents as required to cover all of the verification requirements and as documented in the approved VQP.
3.2.8.1.0-8	The Contractor must verify and qualify each requirement specified in the TPS and UAPS, in accordance to the Verification Method and Verification Criteria identified.
3.2.8.1.0-9	The Contractor must qualify the SEP-Suite on the CF Laptop target environment IAW the approved VQP.
3.2.8.1.0-10	The Contractor must perform the Qualification Tests IAW the approved QTDP (CDRL SE-005).
3.2.8.1.0-11	The Contractor must maintain the RTVM IAW the approved VQP CDRL SE-004 .
3.2.8.1.0-12	The Contractor must place under CM all outcomes resulting from the VQ activities IAW the accepted CMP CDRL CM-001 .
3.2.8.1.0-13	The Contractor must record and report VQ Test Results IAW the Verification Qualification Test Report CDRL SE-006 for approval by the TA.
3.2.8.1.0-14	The Contractor must make available the VQ results through the EIE services.
3.2.8.2	3.2.8.2 Support to Canada for RADHAZ verification
3.2.8.2.0-1	The Contractor must provide five (5) working days of systems engineering support to Canada in order for Canada to conduct Radio Frequency Radiation Hazard (RADHAZ) and Hazard of Electromagnetic Radiation to Ordnance (HERO) verification.
3.2.8.2.0-2	The Contractor must make available to the TA a minimum of quantity two ISS-S for a minimum of two weeks, during the qualification of the system elements, to allow Canada to conduct HERO and RADHAZ testing.

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3.2.8.2.0-3	As tasked by the TA, through a task authorization mechanism (DND 626 process), the Contractor must provide additional support to the TA for the preparation and conduct of the HERO and RADHAZ testing.
3.2.8.2.0-4	HERO and RADHAZ test schedule will be agreed between the Contractor and the TA.
3.2.8.2.0-5	RADHAZ testing will be conducted and completed before SAT.
3.2.8.2.0-6	HERO testing, as required, will be conducted and completed before SAT.
3.2.9	3.2.9 ISS System Acceptance Test (SAT)
3.2.9.0-1	Qualification of the overall ISS-S includes successful completion of SAT. SAT will be comprehensive tests conducted at the ISS-S level in field conditions.
3.2.9.0-2	Successful completion of SAT will be determined at a Formal Qualification Review (FQR) following a review of the SAT Report from the SAT executed based on the TA approved SAT Plan (SATP) and SAT Descriptions and Procedures (SATDP). FQR must be conducted as per section 3.3 of Appendix 1 to this SOW.
3.2.9.1	3.2.9.1 SAT Plan
3.2.9.1.0-1	The Contractor must prepare and deliver a SATP IAW CDRL SE-007 for approval by the TA.
3.2.9.1.0-2	The Contractor must maintain the SATP.
3.2.9.1.0-3	For planning purposes the Contractor must plan for the SAT to be conducted at CF Base (CFB) Petawawa. The final location for SAT will be confirmed no later than at the Acquisition Contract and System Qualification kick-off meeting.
3.2.9.1.0-4	It is important to note that the availability of Government Furnished Facilities is constrained by operational priorities. As such, any changes or modifications considered by the Contractor to the SAT schedule must be reported immediately.
3.2.9.2	3.2.9.2 Manage the SAT
3.2.9.2.0-1	The Contractor must conduct SAT IAW the approved SATP and the approved SATDP.
3.2.9.2.0-2	In the event that the Contractor holds SAT Meetings, the Contractor must:
3.2.9.2.0-2.0-1	○ prepare and deliver a SAT Meeting agenda IAW CDRL PM-005 ;
3.2.9.2.0-2.0-2	○ conduct SAT Meetings IAW the PMP (CDRL PM-001);
3.2.9.2.0-2.0-3	○ prepare and deliver the SAT Meeting Minutes IAW CDRL PM-006 ; and

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3.2.9.2.0-2.0-4	○ prepare and deliver the SAT IAIL IAW CDRL PM-007 .
3.2.9.2.0-2.0-5	○ The Contractor must track SAT issues and Action Items (AIs) to closure.
3.2.9.3	3.2.9.3 SAT Descriptions and procedures
3.2.9.3.0-1	The Contractor must prepare and deliver test cases, descriptions and procedures IAW the SATDP CDRL SE-008 for approval by the TA.
3.2.9.3.0-2	The Contractor must perform SAT IAW the approved SATDP CDRL SE-008 .
3.2.9.3.1	3.2.9.3.1 Scenarios
3.2.9.3.1.0-1	The SATDP (CDRL SE-008) must be based on, built from and comply with the SAT Scenario Instruction provided at Annex CB, Appendix 6.
3.2.10	3.2.10 Produce ISS P(SAT) systems
3.2.10.0-1	The Contractor must manufacture 32 ISS-S P(SAT) to satisfy the SAT requirements.
3.2.10.0-2	The Contractor must manufacture sufficient ISS Interface Cable sets to satisfy the SAT requirements.
3.2.10.0-3	The Contractor must ensure that the ISS-S P (SAT) configured systems satisfy the SAT requirements of the TPS and UAPS.
3.2.10.0-4	The Contractor must take into consideration the requirement to prepare and deliver ISS P(SAT) prototypes during Production Phase as per section 3.3.4 of this SOW.
3.2.10.0-5	The Contractor must create a version of the ISS SEP-Suite which enables the ISS-S P(SAT) to be loaded with the information, records and data required to conduct SAT.
3.2.10.1	3.2.10.1 Perform SAT
3.2.10.1.0-1	Upon successful completion of the Test Readiness Review (TRR), the Contractor must conduct SAT, IAW the approved SATP (CDRL SE-007) and SATDP (CDRL SE-008), to obtain TA acceptance of the System.
3.2.10.1.0-2	SAT must be performed by the Contractor and will be witnessed by Canada.
3.2.10.2	3.2.10.2 Review and Evaluation of SAT
3.2.10.2.0-1	The Contractor must review and evaluate SAT results.
3.2.10.2.0-2	The Contractor must record and report SAT results IAW the SAT Report (CDRL SE-009) for approval by the TA.

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3.2.10.2.0-3	The Contractor must record and report problems using the problem reporting mechanism identified in section 9 of this SOW.
3.2.10.2.0-4	The Contractor must track SAT problems to closure and advise the TA when SAT problems are closed.
3.2.11	3.2.11 Formal Technical Reviews
3.2.11.0-1	As illustrated in Figure 2, the Contractor must incorporate in the ISS System Qualification Life Cycle the following decision gates, or Technical Reviews:
3.2.11.0-1.0-1	○ A System Requirements Allocation Review (SRAR);
3.2.11.0-1.0-2	○ A TRR;
3.2.11.0-1.0-3	○ A FQR.
3.2.11.0-2	These technical reviews are necessary in order to provide the TA with the information items, data and records, which are the objective evidence of achieving work objectives associated with different states of the system.
3.2.11.1	3.2.11.1 Plan for Formal Technical Reviews
3.2.11.1.0-1	The Contractor must document the Formal Technical Review process in the SEMP (CDRL SE-001).
3.2.11.1.0-2	The Contractor must incorporate the Formal Technical Reviews requirements specified at Appendix 1 of this SOW, which identifies the information items and data expected to be reviewed and the resulting state of the system baseline once successful completion of the review is achieved.
3.2.11.2	3.2.11.2 ISS States
3.2.11.2.0-1	Given the evolutionary nature of the system and the production of prototypes for bid and during System Qualification Phase, the ISS undergoes several state changes.
3.2.11.2.0-2	Upon completion of each Formal Technical Review the Contractor must place all information items, data and records associated with the ISS under Configuration Management.
3.2.11.2.0-3	○ P(Bid) is the ISS Equipment Breakdown Structure (EBS), evaluation prototypes and configuration information after successfully completing SRAR.
3.2.11.2.0-4	○ P(SAT) is the ISS EBS and configuration information after successfully completing TRR.

3.2.11.2.0-5 ○ P(Prod) is the ISS EBS and configuration information after successfully completing FQR.

3.2.11.3 Audits during System Qualification Phase

3.2.11.3.0-1 The Contractor must perform Functional Configuration Audit (FCA) and a Physical Configuration Audit (PCA) IAW the accepted CMP (**CDRL CM-001**).

3.3 Production Phase Work

3.3.0-1 During the Production Phase, the Contractor will fabricate, manufacture, procure, inspect, assemble, test, package and deliver the ISS P(Prod) system elements as illustrated in figure 3.

3.3.1 ISS Deliverables

3.3.1.0-1

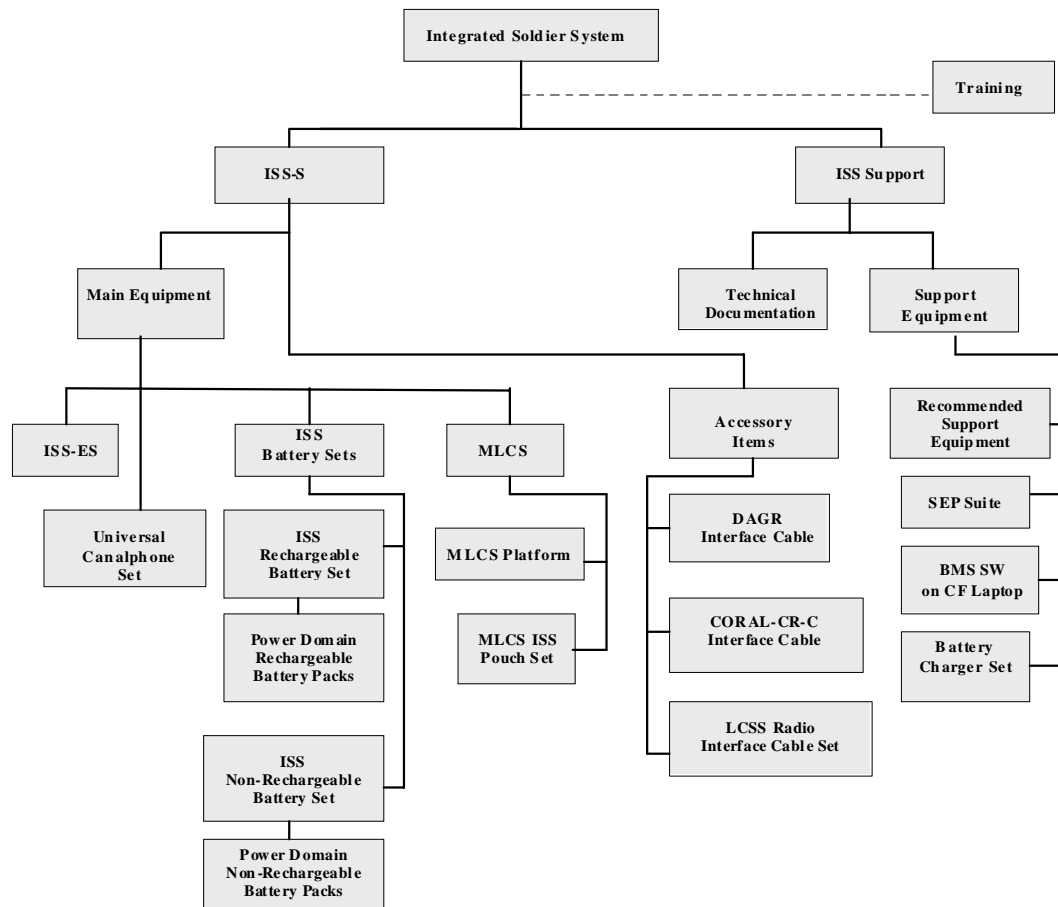


Figure 3 - ISS Equipment Deliverables Illustration

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3.3.1.1	3.3.1.1 ISS Deliverables Definitions
3.3.1.1.0-1	The following provides definitions in support of the Annex CF Deliverables List and Annex AB, ISS-A Price proposal presentation sheet. Figure 3 does not infer a system breakdown and does not constrain the Contractors' solution. It is shown only to provide a context for the definitions and for what is called upon at Annex CF and Annex AB.
3.3.1.1.0-2	It is recognised that, the ISS solution requires that the Contractor integrate ISS system elements which are provided by Canada. This section of the SOW however, focuses only on the system elements and equipment which are to be delivered to Canada, by the Contractor, resulting from ISSP Production phase work. Figure 3 does not include the Canada provided system elements.
3.3.1.1.0-3	ISS: includes all equipment acquired by Canada under this SOW.
3.3.1.1.0-4	Training: Training, as identified in Figure 3 includes all training deliverables as listed in Annex CF.
3.3.1.1.0-5	ISS-S: All equipment that the soldier wears and carries with him/her in any shape or form, including the software, electronic equipment, cables, MLCS, batteries and any other component required to meet the ISSP TPS.
3.3.1.1.0-6	Main Equipment: All ISS-S equipment except the Accessory Items, as defined in this section.
3.3.1.1.0-6.0-1	ISS-ES: All physical electronics devices and all cabling that is worn by the soldier as part of the ISS-S Main Equipment, including all software and firmware running on the soldier-worn equipment. Excludes Battery Sets, MLCS and Universal Canaphone Set.
3.3.1.1.0-6.0-2	Canalphones: The disposable piece of an earphone affixed to the ISS-S Audio Display and inserted directly into the ear canal. Canalphones also act as earplugs to block out environmental noise. There are two main types of canalphones: universal and custom. Universal canalphones provide one or more stock sleeve size(s) to fit various ear canals, which are commonly made out of silicone rubber, elastomer, or foam, for noise isolation. Custom canalphones are fitted to the ears of each individual. Castings of the ear canals are made and the manufacturer uses the castings to create custom-moulded silicone rubber or elastomer plugs that provide added comfort and noise isolation.
3.3.1.1.0-6.0-3	Universal Canaphone Set: Set of Universal Canalphones to be used with the ISS-S Audio Display, one set includes two canalphones, one for each ear. If more than one size of Universal Canalphones is provided, then a set includes a pair of Universal Canalphones for each available size.
3.3.1.1.0-6.0-4	Power Domain and Battery Packs. The following definitions apply to the concept of Power Domain and Battery Packs and are meant to support Annex AB, "ISS-A Price

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	proposal presentation sheet".
3.3.1.1.0-6.0-4.0-1	Power Domain: The interconnection of a Battery Pack and one or more devices through cables and connectors for the purpose of supplying power.
3.3.1.1.0-6.0-4.0-2	Power Domain Non-Rechargeable Battery Pack: All the Non-Rechargeable Batteries of the same type required to operate a power domain at any one time. The Power Domain Battery Pack must also include any Battery Loading/Storage Devices required to meet the ISS requirements.
3.3.1.1.0-6.0-4.0-3	Quantity of Power Domain Non-Rechargeable Battery Pack: This is the number of Non-Rechargeable Battery packs required for the system to <u>operate</u> a full Battlefield Day (BD), by power domain, as determined by the analysis required by Appendix 11 to Annex CB - Power Consumption Test Procedure Requirements. A BD is defined in Appendix 3 to Annex CB - Mission Profile and Operational Mode Summary.
3.3.1.1.0-6.0-4.0-4	Power Domain Rechargeable Battery Pack: The Rechargeable Batteries of the same type within the pack per power domain. The Power Domain Battery Pack must also include any ISS Battery Loading/Storage Devices required to meet the ISS requirements.
3.3.1.1.0-6.0-4.0-5	Quantity of Power Domain Rechargeable Battery Pack: This is the number of Rechargeable battery Pack(s) required for the system to operate a full BD without having to recharge any batteries, by power domain, as determined by the analysis required by Appendix 11 to Annex CB to Volume 2 - Power Consumption Test Procedure Requirements.
3.3.1.1.0-6.0-5	ISS Battery Set: The full complement of Battery Pack (s) required to operate one ISS-S for a full BD.
3.3.1.1.0-6.0-5.0-1	ISS Non-Rechargeable Battery Set: The full complement of Power Domain Non-Rechargeable Battery Pack(s) as expressed in Quantity of Power Domain Non-Rechargeable Battery Packs for each power domain of the ISS-S required to operate one ISS-S for a full BD.
3.3.1.1.0-6.0-5.0-2	ISS Rechargeable Battery Set: The full complement of Power Domain Rechargeable Battery Pack(s) as expressed in Quantity of Power Domain Rechargeable Battery Packs for each Power Domain of the ISS-S required to operate one ISS-S for a full BD.
3.3.1.1.0-6.0-6	Battery Loading/Storage Device: A sleeve/cradle used to hold a group of batteries within a Power Domain. It must be provided if required to meet the ISS-S requirements.
3.3.1.1.0-6.0-7	MLCS: All clothing that is provided as part of the ISS-S, including the ISS MLCS

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	Platform and ISS pouches, to allow the soldier to carry the ISS-ES and all Power Domain (Rechargeable or Non-Rechargeable) Battery Packs.
3.3.1.1.0-6.0-7.0-1	MLCS Platform: The vest worn by the soldier, upon which the MLCS ISS Pouches are attached and the MLCS Combat Pouches (provided by Canada) are attached. The MLCS Platform consists of an MLCS Chest Rig Front and an MLCS Chest Rig Back. The MLCS Chest Rig Front is further identified by size requirements, in that there is a MLCS Chest Rig Front Small and an MLCS Chest Rig Front Medium. The MLCS Chest Rig Back size comes in one size.
3.3.1.1.0-6.0-7.0-2	MLCS ISS Pouch Set: Set of ISS pouches that attach to the MLCS Carrier, used to hold all Power Domain Battery Packs and the complete ISS-ES. The Contractor will define the numbers and types of ISS Pouches (which constitutes the ISS Pouch Set) required to carry the ISS-ES, batteries and Accessory Items as required to meet the TPS requirements.
3.3.1.1.0-7	Accessory Items: Interface cables required for the ISS-ES to operate with the Government Furnished Equipment (GFE).
3.3.1.1.0-7.0-1	DAGR Interface Cable: Provides the cabling and connection between the appropriate ISS-ES system element and the DAGR to meet the Military mode Global Positioning System (GPS) requirements of the TPS. (Volume 2, Annex CB, Appendix 1).
3.3.1.1.0-7.0-2	Coral-CR-C Interface Cable: Provides the cabling and connection between the appropriate ISS-ES system element and the Coral-CR-C sensor to meet the sensor requirements of the TPS. (Volume 2, Annex CB, Appendix 1).
3.3.1.1.0-7.0-3	Land Command Support System (LCSS) Radio Interface Cable Set. The LCSS Radio Interface Cable Set provides the cabling and connections between the appropriate ISS-ES system element and the LCSS PRC-152 Radio, PRC-148 Radio and PRC-117 Radio to meet the TPS (Appendix 1 to Annex CB) requirements associated with those LCSS Radios. If the same cable can be used to interface with all 3 radios, then the “LCSS Radio Interface Cable set” should only be a single cable. If different cables are required to interface with each LCSS radios, then the “ISS-S to LCSS Radio Interface Cable set” should include the 3 different cables.
3.3.1.1.0-8	ISS Support: All software, hardware and documentation required to support the ISS software and hardware operation and maintenance while deployed or in garrison.
3.3.1.1.0-8.0-1	Technical Documentation: The User Manual, Technical Manual and Quick Reference Guide (QRG) that support the operation of the ISS.
3.3.1.1.0-8.0-2	Support Equipment: All software and hardware equipment required to sustain the ISS-S.
3.3.1.1.0-8.0-2.0-1	Recommended Support Equipment: All software and hardware equipment that is

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	recommended by the Contractor to maintain the ISS-S in order to meet the requirement of this SOW.
3.3.1.1.0-8.0-2.0-2	SEP-Suite: Software running on a CF laptop, used to perform security management, network planning and management and other pre-mission tasks in support of system configuration.
3.3.1.1.0-8.0-2.0-3	ISS BMS software on CF Laptop: Subset of the ISS-ES software, running on a CF laptop, used by commanders to perform static non-tactical tasks, like mission planning for example.
3.3.1.1.0-8.0-2.0-4	Battery Charger Set: All the charging equipment required to recharge an ISS Rechargeable Battery Set as defined in TPS.
3.3.2	3.3.2 Production Phase Planning
3.3.2.0-1	Production Phase Work must start when the Contractor receives a Contract Amendment authorizing the Production Phase to proceed.
3.3.2.0-2	The Contractor must prepare and deliver a Production Plan IAW CDRL SE-010 for acceptance by the TA.
3.3.2.0-3	The Contractor must incorporate the Production Readiness Review (PRR) requirements specified at Appendix 1 of this SOW in the Production Plan (CDRL SE-010).
3.3.2.0-4	The Contractor must revise and resubmit, or confirm, the following project plans:
3.3.2.0-4.0-1	○ PMP (CDRL PM-001).
3.3.2.0-4.0-2	○ CMP (CDRL CM-001).
3.3.2.0-4.0-3	○ QAP (CDRL PM-002).
3.3.2.0-4.0-4	○ ILSP (CDRL LS-001).
3.3.2.0-4.0-5	○ MPS and WBS (CDRL PM-003).
3.3.3	3.3.3 Manage Production Work
3.3.3.0-1	The Contractor must continue to initiate, plan and estimate, execute and control, review and evaluate, close and deliver the work IAW the accepted PMP (CDRL PM-001).
3.3.3.0-2	The Contractor must continue to assure the quality of the process and products IAW the accepted QAP CDRL PM-002 .
3.3.3.0-3	The Contractor must continue to manage configuration information IAW the accepted

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	CMP (CDRL CM-001).
3.3.3.0-4	The first Production phase Progress Report must be delivered at Production Phase kick-off meeting. The Contractor must prepare and deliver a monthly progress report IAW CDRL PM-004 .
3.3.3.0-5	The Contractor must manage the production of the ISS-S IAW the accepted Production Plan (CDRL SE-010).
3.3.3.1	3.3.3.1 PRMs
3.3.3.1.0-1	The Contractor must conduct a Production Phase kickoff meeting within 2 weeks of commencement of the Production Phase.
3.3.3.1.0-2	The Contractor must conduct quarterly PRMs as specified in section 4 of this SOW and IAW the accepted PMP (CDRL PM-001).
3.3.3.2	3.3.3.2 Production Readiness Review
3.3.3.2.0-1	The Contractor must conduct a PRR within one month after a Contract Amendment authorizing the Production Phase.
3.3.3.2.0-2	The Contractor must prepare and deliver a PRR Checklist IAW the accepted Production Plan (CDRL SE-010).
3.3.4	3.3.4 ISS P(SAT) Systems
3.3.4.0-1	The Contractor must refurbish, assemble, test, package and deliver the specified numbers of ISS P(SAT) Systems IAW Annex CF- ISS Contract Deliverables List.
3.3.4.0-2	The Contractor must configure the P(SAT) systems with the P(Prod) software load prior to conducting acceptance testing of the P(SAT) system.
3.3.4.0-3	The Contractor must assure the quality of the ISS-S P(SAT) systems IAW the accepted QAP (CDRL PM-002).
3.3.5	3.3.5 Production of ISS P(Prod) system elements
3.3.5.0-1	Upon successful completion of PRR, the Contractor must produce the ISS IAW the accepted Production Plan.
3.3.5.0-2	The Contractor must produce the requisite numbers of the ISS system elements specified in Volume 2 Annex CF.
3.3.5.0-3	The Contractor must assemble the ISS product into identifiable lots, batches or production intervals, in support of the QAP acceptance process.

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3.3.5.0-4	The Contractor must assure the quality of the production and production process, IAW the accepted QAP.
3.3.5.0-5	The Contractor must package, handle and deliver the ISS IAW the ILS requirements stated at section 6 of this SOW.
3.3.5.1	3.3.5.1 MLCS Production
3.3.5.1.0-1	The MLCS is a Canada provided design. The Contractor must produce the MLCS platform and ISS Pouches IAW the revised (approved) TDP specifications Volume 2, Annex CB, Appendices 7 and 8 respectively.
3.3.5.1.0-2	The Contractor must produce the MLCS in the sizes and numbers specified in Volume 2, Annex CF.
3.3.5.2	3.3.5.2 ISS-ES Production
3.3.5.2.0-1	The Contractor must produce, acquire and assemble the ISS-ES equipment IAW the P(Prod) baseline configuration information.
3.3.5.2.0-2	The Contractor must load the P(Prod) Software baseline onto the ISS-ES equipment prior to performing the ISS-ES integrated system acceptance sampling inspection.
3.3.6	3.3.6 Production Acceptance
3.3.6.1	3.3.6.1 General
3.3.6.1.0-1	Canada anticipates that the ISS will, for the most part, consist of equipment already in production. The only elements which may necessitate a new production line are the MLCS and the ISS cables. These items will likely require a first article inspection mechanism such that the quality of the production process has been assured.
3.3.6.1.0-2	The Contractor must ensure that all products and supplies submitted to Canada for acceptance conform to all requirements of the contract.
3.3.6.2	3.3.6.2 Quality System for Production
3.3.6.2-1	The Contractor's Quality System, including manufacturing processes and quality control measures, must be established and operated to consistently produce the ISS elements which meet all ISS requirements.
3.3.6.2-2	The Contractor must tailor his Quality Control System to the maturity of the system and components production line.
3.3.6.2-3	For ISS System components that will be produced for the first time as part of this Contract or are unique to this Contract, the Contractor must propose a comprehensive pre-

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	production and production Quality Control System, including First Article Inspection (FAI) and sampling method to ensure the produced items conform to the requirements.
3.3.6.2-4	For ISS System components that are already in production or have been produced in the past, the Contractor may propose a tailored Quality Control approach which is based on the existing production process of those components.
3.3.6.2-5	The Contractor must perform component level, including cables, sampling inspection during pre-production and production as part of his Quality Control process.
3.3.6.2-6	The Contractor must perform ISS-S level sampling inspection during pre-production and production as part of his Quality Control process. The purpose of the ISS-S sampling inspection during pre-production and production is to ensure that the ISS-S when assembled with an ISS software load as per P(Prod) configuration information, operates as specified.
3.3.6.2-7	The MLCS Platform pre-production samples and its components must comply with the "MLCS Platform Pre-Production Phase Quality Control Requirements" defined in Section 4 of Annex CB, Appendix 12 - MLCS Verification and Quality Control Requirements.
3.3.6.2-8	The ISS Pouches pre-production samples and its components must comply with the "ISS Generic Pouches Pre-Production Phase Quality Control Requirements" defined in Section 5 of Annex CB, Appendix 12 - MLCS Verification and Quality Control Requirements.
3.3.6.2-9	The production MLCS Platform and ISS Pouches must meet the same quality standard as the approved pre-production samples.
3.3.6.2-10	The Contractor must document the pre-production and production acceptance method and procedures, including the FAI plan, the procedures and sampling inspection plan and the procedures at component and system level in the QAP (CDRL PM-002).
3.3.6.2-11	The Contractor must provide the TA and Department of National Defence (DND) Quality Assurance Representative (QAR) access to and give copies of all the ISS pre-production and production FAI results/reports and sampling inspection test results/reports.
3.3.6.2-12	The TA or DND QAR reserves the right to perform any sampling inspection and testing during the pre-production and production phase.
3.3.7	3.3.7 ISS Software Production
3.3.7.0-1	The Contractor must replicate, produce package and deliver the ISS Software IAW the applicable Software Version Description Document (SVDD) (CDRL CM-004).
3.3.8	3.3.8 Production of Support Equipment and Spares
3.3.8.0-1	The Contractor must install the equipment plates and markings IAW the provisions of

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	section 6.7.1 of this SOW.
3.3.8.0-2	The Contractor must produce the ISS Support Equipment in the numbers specified in the accepted Recommended Support Equipment Requirements List (RSERL) (CDRL LS-002).
3.3.8.0-3	The Contractor must produce the Training Support Equipment in the numbers specified in the accepted RSERL (CDRL LS-002).
3.3.8.0-4	The Contractor must produce the requisite numbers of spares IAW the accepted Recommended Spare Parts List (RSPL) (CDRL LS-003).
3.3.9	3.3.9 Deliver the system
3.3.9.0-1	The Contractor must package, identify and label, handle, store and transport the equipment IAW the provisions of this SOW.
3.3.10	3.3.10 Training
3.3.10.1	3.3.10.1 Conduct Training
3.3.10.1.0-1	The Contractor must perform the Initial Cadre Training (ICT) as specified in section 6 of this SOW and IAW the accepted Training Program Plan (CDRL LS-004).
3.3.10.1.0-2	The Contractor must conduct the specified numbers of training serials as specified in Volume 2, Annex CF.
3.3.10.2	3.3.10.2 Deliver Training Material
3.3.10.2.0-1	The Contractor must produce and deliver the Training Material, including the Training Support Equipment IAW CDRL LS-008 .
4	4 Project Management
4.1	4.1 Capability and Organisation
4.1.1	4.1.1 Project Management Capability
4.1.1.0-1	The Contractor must provide a Project Management capability to manage the project scope, schedule, risks, and quality, to provide data and to administer the requirements of all phases of the contract.
4.1.2	4.1.2 Project Manager
4.1.2.0-1	The Contractor must designate an individual as its Program Manager (PGM) with sufficient authority within the Contractor's organization to manage all work required

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	under all phases of the contract, to interface and co-ordinate with Canada, and to plan and control the work of Subcontractors as required. The Contractor's PGM for the Contract must be the primary point of contact between the Contractor and the TA for all issues related to the SOW.
4.1.2.0-2	It is recognized that personnel changes may occur. The Contractor must inform the TA of any change in personnel filling the PGM position.
4.2	4.2 Project Management Plan
4.2.0-1	The Contractor must prepare and deliver a PMP IAW CDRL PM-001 .
4.2.0-2	The Contractor must implement and manage the work IAW the PMP and subordinate plans.
4.2.0-3	The Contractor must maintain the PMP for the duration of the Contract.
4.2.1	4.2.1 Master Project Schedule and Work Breakdown Structure
4.2.1.0-1	The Contractor must prepare and deliver an MPS and WBS IAW CDRL PM-003 .
4.2.1.0-2	With the TA's approval, the Contractor must baseline the schedule at the kick-off meeting of each Contract Phase and thereafter manage, track and report actual progress against the baseline.
4.2.1.0-3	The Contractor must obtain written approval from the TA for proposed changes before revising the baseline schedule.
4.2.1.0-4	Changes to the schedule must not preclude compliance with the requirements of CDRL PM-003 .
4.3	4.3 Project Monitoring and Control
4.3.1	4.3.1 Meetings
4.3.1.1	4.3.1.1 General
4.3.1.1.0-1	Meetings will be convened at the Contractor's facility, unless stated otherwise in the SOW, or at an alternate location as agreed to by the Contractor and the Contracting Authority.
4.3.1.1.0-2	The Contractor must provide a facility of a size sufficient to accommodate the attendees.
4.3.1.1.0-3	The meetings will be co-chaired by the Canada and the Contractor, unless specified otherwise.

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4.3.1.1.0-4	The Contractor or Canada, by mutual agreement, can convene video or telephone conferences in lieu of face-to-face meetings.
4.3.1.1.0-5	Site visits and meetings must be combined whenever possible.
4.3.1.1.0-6	The Contractor must ensure that specific personnel responsible for work under discussion are physically present at the meetings (face-to-face, video or teleconference), including sub-contractors as required.
4.3.1.1.0-7	The Contractor must prepare and deliver a Meeting Agenda IAW CDRL PM-005 , for all meetings and make them available through the EIE.
4.3.1.1.0-8	The Contractor must prepare and deliver the Meeting Minutes IAW CDRL PM-006 , for all meetings, and make them available through the EIE.
4.3.1.1.0-9	The Contractor must prepare and deliver the IAIL entries for all meetings in accordance CDRL PM-007 , and make the IAIL available through the EIE.
4.3.1.2	4.3.1.2 Kick-Off Meeting
4.3.1.2.0-1	There will be two Kick-Off meetings: one at the start of the System Qualification Phase and one at the start of the Production Phase.
4.3.1.2.0-2	The Contractor must include, as a minimum, the following in the agenda for each kick-off meeting:
4.3.1.2.0-2.0-1	○ Contractor briefing on the company and how it will be organized to manage the contract;
4.3.1.2.0-2.0-2	○ Roles and responsibilities of key personnel and points of contact;
4.3.1.2.0-2.0-3	○ Key contract terms and project objectives;
4.3.1.2.0-2.0-4	○ Timelines;
4.3.1.2.0-2.0-5	○ Deliverables;
4.3.1.2.0-2.0-6	○ Communications - Procedures for monitoring and reporting progress;
4.3.1.2.0-2.0-7	○ Procedures for managing risks and issues;
4.3.1.2.0-2.0-8	○ Contract administration and contract change procedures;
4.3.1.2.0-2.0-9	○ Canada debrief on the results of the Performance Evaluation portion of the Bid Evaluation (Qualification Phase only);

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4.3.1.2.0-2.0-10	○ Review of all draft plans submitted with bid; and
4.3.1.2.0-2.0-11	○ Plant tour, if possible and deemed necessary by Canada.
4.3.1.3	4.3.1.3 Progress Review Meetings
4.3.1.3.0-1	The Contractor must schedule, plan and conduct PRMs to formally report project progress to the TA.
4.3.1.3.0-2	The Contractor must coordinate with the Contracting Authority (CA) for all arrangements related to PRMs.
4.3.1.3.0-3	PRM must occur quarterly at minimum, unless otherwise mutually agreed.
4.3.1.3.0-4	Each PRM must address, as a minimum, the following items:
4.3.1.3.0-4.0-1	○ Project Progress;
4.3.1.3.0-4.0-2	○ Master Project Schedule - status of milestones and data item completion;
4.3.1.3.0-4.0-3	○ Project Risks and associated mitigation;
4.3.1.3.0-4.0-4	○ Issues - AIs arising from previous PRMs, other meetings and correspondence;
4.3.1.3.0-4.0-5	○ Engineering and Technical Issues;
4.3.1.3.0-4.0-6	○ ILS Issues;
4.3.1.3.0-4.0-7	○ Contractual Issues; and
4.3.1.3.0-4.0-8	○ Financial Issues.
4.3.1.4	4.3.1.4 Other Meetings and Reviews
4.3.1.4.0-1	The Contractor must convene weekly meetings to report progress on immediate issues, address technical challenges, raise questions and seek clarification. These meetings will be conducted by teleconference, videoconference or as mutually agreed between the Contractor and Canada.
4.3.1.4.0-2	The Contractor and/or the TA may schedule reviews, such as conferences, briefings and technical meetings, including those specifically required in the SOW, to help in achieving the requirements of the contract.
4.3.2	4.3.2 Issue - Action Items
4.3.2.0-1	The Contractor must record action items arising from meetings, reviews, working groups,

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	technical interchange meetings, and correspondence between Canada and the Contractor.
4.3.2.0-2	The Contractor must maintain an IAIL (CDRL PM-007).
4.3.2.0-3	The Contractor must take action to address and complete the AIs that are assigned to the Contractor, by the agreed on date.
4.3.2.0-4	Both the TA and the Contractor must agree that the action has been fulfilled before it may be annotated as 'completed' and 'closed'.
4.3.2.1	4.3.2.1 Progress Reports
4.3.2.1.0-1	The Contractor must prepare and deliver Progress Reports IAW CDRL PM-004 .
4.3.3	4.3.3 Risk and Issue Management
4.3.3.0-1	The Contractor must input and manage all risks identified by the Contractor and Canada, and mutually agreed, throughout all phases of the Contract IAW the Contractor's risk management process documented in the accepted PMP (CDRL PM-001).
4.4	4.4 Intellectual Property
4.4.0-1	The Contractor must prepare and deliver the Intellectual Property List identifying the intellectual property used by and developed under the Contract IAW CDRL PM-009 . The Intellectual Property List must identify the background and foreground intellectual property used and developed by the Contractor in carrying out the Contract.
4.5	4.5 Environmental Health and Safety (EHS) Management
4.5.1	4.5.1 General
4.5.1.0-1	The Contractor must consider, incorporate and document EHS into the decision making process for the work during all phases of the contract.
4.5.1.0-2	The Contractor must not increase the hazard risk, or the number of controlled substances in any changes to the existing configuration without a measureable increase in equipment performance that is authorized by the Technical Authority. For any proposed changes, the Contractor must review the Canadian Forces Supply System (CFSS) material listing for an existing suitable product before recommending introduction of a new product into the CFSS inventory.
4.5.1.0-3	New or amended support documentation, such as Canadian Forces Technical Orders (CFTOs) must be incorporated with appropriate EHS warnings and instructions in direct relation to the EHS risks presented in the contents.
4.5.1.0-4	EHS documentation must be maintained within the project file throughout the life of this

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	Contract. The Contractor must provide for and allow DND inspection and monitoring of EHS documentation throughout the life of the contract.
4.5.1.0-5	The Contractor must comply with Department of National Defence (DND) policies, orders, directives, instructions and best practices when accessing DND owned or controlled lands, buildings or equipment.
4.5.1.0-6	The Contractor shall be held liable for any damages caused by the Contractor's improper packaging, labelling or carriage of goods/products.
4.5.1.0-7	The Contractor must ensure that specifications, standards, support documents and test programs are reviewed for EHS compliance, and appropriate warning included.
4.5.1.0-8	Upon request by the TA, the Contractor must implement design changes, or changes to processes or other equipment, that TA identifies to reduce environmental impact and hazards. The Contractor may propose additional measures.
4.5.1.0-9	The TA may request that the Contractor incorporate changes to the equipment or program equipment and services in response to the promulgation of new or amended EHS legislation, DND policies or directives.
4.5.2	4.5.2 Compliance
4.5.2.0-1	The Contractor must comply in all respects with Environmental, Health and Safety legislations, such as the Canadian Environmental Protection Act, Canadian Environmental Assessment Act, Hazardous Products Act, Transportation of Dangerous Goods Act, Canada Labour Code, and their regulations, in force in relation to the provision of Services. Where the provisions of any such legislation are implemented by the use of voluntary agreements or codes of practice, the Contractor must comply with such agreements or codes of practices as if they were incorporated into Canada law subject to those voluntary agreements being cited in tender documentation. The Contractor must comply with laws applicable to the performance of the Contract, regardless of them being identified, or not, within the tender. The Contractor must provide evidence of compliance with such laws to Canada at such times as Canada may reasonably request.
4.5.2.0-2	The Contractor must ensure that the provision of the goods and services are fully compliant with Canadian Legislation or regulations. When non-compliance occurs the Contractor must advise DND.
4.5.3	4.5.3 Hazardous Products
4.5.3.0-1	Canada Labour Code, Part II dictates that the least hazardous materials should be used at the workplace. Therefore, the Contractor is to strive to use the least hazardous product that meets the requisite performance requirements.
4.5.3.0-2	The Contractor must include within the Environmental, Health and Safety Assessment

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	(EHSA) Material Safety Data Sheets (MSDS) for all products/materials, which are used in the operation and maintenance of the Work, that fall under the Hazardous Products Act, R.S.C. 1985, c. H-3 and regulation(s) there under in accordance with the said Act and regulation(s).
4.5.4	4.5.4 Controlled Products
4.5.4.0-1	Controlled products are defined as products containing substances:
4.5.4.0-1.0-1	Regulated and proposed to be regulated under the Canadian Environmental Protection Act (CEPA);
4.5.4.0-1.0-2	Listed in Schedule I, Toxic Substances List under the CEPA;
4.5.4.0-1.0-3	Targeted chemicals subject to the National Pollutant Release Inventory;
4.5.4.0-1.0-4	Targeted by the Chemicals Management Plan - List of Challenge Substances; and/or
4.5.4.0-1.0-5	Targeted under the Accelerated Reduction/Elimination of Toxic Substances Program.
4.5.4.0-2	The use of any controlled products, as part of the Work under this Contract, must be submitted for review and approval through the Technical Authority before use. The use of controlled products must be reviewed in consultation with Technical Authority, to determine whether replacement by other less hazardous products (IAW the Canada Labour Code, Part II) that meet performance requirements can be utilised, and if so, to replace these controlled products with products of less hazard. It is DND policy to restrict or eliminate the use of controlled products. The promulgation of new or amended legislations, regulations, policies or directives throughout this Contract period may necessitate changes to support processes and activities. These changes must be incorporated as required to ensure compliance throughout the contract period.
4.5.4.0-3	Controlled Products Listing. As part of any subcontract/sublet requirement raised by the Contractor in support of the Work, the subcontract/sublet must include a clause for the use of the least hazardous Controlled Product necessary, while maintaining operation effectiveness. Controlled Products that are banned must not be used. When a Controlled Product must be used, the Contractor must provide justification for its use and obtain TA approval prior to use. The Contractor must supply the Technical Authority with the respective Material Safety Data Sheets for all hazardous material products listed.
4.5.4.0-4	The Contractor must submit a request to the Technical Authority for approval for the use of any controlled products. The use of controlled products must be reviewed in consultation with Technical Authority, to determine whether replacement by other less hazardous products (IAW the Canada Labour Code, Part II) that meet performance requirements can be utilised, and if so, to replace these controlled products with products of less hazard. It is DND policy to restrict or eliminate the use of controlled products.

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4.5.4.0-5	The Contractor must avoid the use of any controlled products/substances, as part of the Work under this Contract, where feasible and as dictated by regulatory requirements.
4.5.4.0-6	Controlled Products Instructions: The Contractor must ensure that appropriate instructions regarding the handling, use, transportation, storage and disposal of Controlled Products are contained in the EHS documentation.
4.5.5	4.5.5 Hazardous Materials Restrictions
4.5.5.0-1	The following specified hazardous substances are restricted in the following manner:
4.5.5.0-1.0-1	The Contractor must not utilize a halocarbon identified within Schedule 1, items 1 to 9, 11, and 12 of the Federal Halocarbon Regulations.
4.5.5.0-1.0-2	Halocarbons as identified within the Ozone-Depleting Substances Regulations must not be incorporated into the design, operation or maintenance of equipment, products, or support services;
4.5.5.0-1.0-3	Asbestos and Polychlorinated Biphenyls (PCBs) must not be incorporated into the design, operation or maintenance of equipment, products, or support services;
4.5.5.0-1.0-4	Mercury as follows:
4.5.5.0-1.0-4.0-1	The Contractor must comply with all Mercury Regulations in effect throughout the conduct of the Work.
4.5.5.0-1.0-4.0-2	Products containing mercury must comply with mercury content limit as identified in the promulgated Mercury Regulations. Source Environment Canada: http://www.gazette.gc.ca/rp-pr/p1/2011/2011-02-26/html/reg4-eng.html
4.5.5.0-1.0-4.0-3	Where the equipment utilizes mercury, in any shape or form, contained or used within the design, operation and maintenance of equipment, support tooling, products or materials used or consumed, they must be identified and associated with their physical location within or on the Work provided. The Contractor shall provide the following for each occurrence of mercury in tabular format to the Technical Authority (TA):
4.5.5.0-1.0-4.0-3.0-1	Equipment NSN (for equipment containing mercury);
4.5.5.0-1.0-4.0-3.0-2	Equipment Description;
4.5.5.0-1.0-4.0-3.0-3	NSN or Defence Resource Management Information Systems (DRMIS) unique identifier of the item containing Mercury (if it

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	exists);
4.5.5.0-1.0-4.0-3.0-4	Manufacturer of the mercury-containing item;
4.5.5.0-1.0-4.0-3.0-5	Date of manufacture of the mercury-containing item;
4.5.5.0-1.0-4.0-3.0-6	Manufacturer part number of the mercury-containing item;
4.5.5.0-1.0-4.0-3.0-7	NATO Supply Code for Manufacturers (NSCM) of the mercury-containing item/Commercial and Government Entity (CAGE) Code;
4.5.5.0-1.0-4.0-3.0-8	Description of the mercury-containing item;
4.5.5.0-1.0-4.0-3.0-9	The form of mercury (e.g. liquid, vapour, amalgam, metal halide);
4.5.5.0-1.0-4.0-3.0-10	Quantity of mercury (kg mass);
4.5.5.0-1.0-4.0-3.0-11	Volume of mercury (L) and its concentration in ppm [provided either mass or volume/concentration of mercury, but not both];
4.5.5.0-1.0-4.0-3.0-12	The location of the mercury-containing item(s);
4.5.5.0-1.0-4.0-3.0-13	Quantity of mercury-containing item per reported equipment;
4.5.5.0-1.0-4.0-3.0-14	Total Quantity of mercury within the reported equipment (for kg mass and volume/concentration); and
4.5.5.0-1.0-4.0-3.0-15	Material Safety Data Sheet, where possible.
4.5.5.0-1.0-4.0-4	The Contractor must ensure that consumable products and equipment containing mercury are labelled in a readily visible location. The information must be in characters that are at least 3 mm in height, legible and indelible and that are impressed, embossed or in a colour that contrasts with the label's background or the colour of the product as applicable. The label must be enclosed by a borderline and easily distinguishable from other graphic material on the product or its package. The label must be bilingual and include the following:
4.5.5.0-1.0-4.0-4.0-1	a statement "CAUTION/MISE EN GARDE" in characters that are at least 4 mm in height;
4.5.5.0-1.0-4.0-4.0-2	a statement that the product contains mercury and the content of mercury in the product in milligrams or, in the case of a product found in the 'Substances Contained in Certain Products' Table from the Mercury Regulation source in Para 4.5.5.0-1.0-4.0-2, a statement that the quantity of the toxic substance is less than or equal to the

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	Maximum Quantity listed in the table;
4.5.5.0-1.0-4.0-4.0-3	information on the action to be taken in case of accidental breakage and a description of the risks associated with the use of the product, the address of a website that contains the information, or contact information for a person who can provide that information;
4.5.5.0-1.0-4.0-4.0-4	information on the options available for proper disposal and recycling in accordance with the laws of jurisdiction where the disposal or recycling to take place, the address of a website that contains the information, or contact information for a person who can provide that information;
4.5.5.0-1.0-4.0-4.0-5	a warning that the product is to be managed in accordance with the applicable disposal or recycling laws; and
4.5.5.0-1.0-4.0-4.0-6	the “Hg” symbol encircled by a line on a readily visible location on the product where the characters are at least 3 mm in height which are impressed, embossed or in a colour that contrasts with the label’s background or the colour of the product as applicable. Note: Hg symbol stands for mercury.
4.5.5.0-1.0-4.0-5	If the product is not large enough to accommodate the information, the information must be:
4.5.5.0-1.0-4.0-5.0-1	in a readily visible location on the package in which the product is sold or offered for sale; or
4.5.5.0-1.0-4.0-5.0-2	in a notice attached to the product or in a manual that accompanies the product, if there is no package, or if the package is not large enough to accommodate the information; and
4.5.5.0-1.0-4.0-5.0-3	in both official languages.
4.5.5.0-1.0-4.0-6	Technical documentation must include warnings for equipment containing mercury and shall identify work procedures for safe handling of mercury including PPE, spill clean up and disposal.
4.5.6	4.5.6 Occupational Health and Safety
4.5.6.0-1	The design, engineering, procurement, installation, operation, and maintenance of equipment and installations must be compliant with the provisions contained in standards, legislation and best practices, specifically Canada Labour Code, Part II, the Canada Occupational Health and Safety Regulations, and any referenced standard. Where there is a known standard (i.e. international) that is more stringent; then it must be considered as the minimum requirement to ensure all health and safety considerations are incorporated

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	and conformance to regulations.
4.5.6.0-2	The contractor must have an Occupational Health and Safety Management System (OHSMS), which is consistent with the principles presented in OHSAS 18001.
4.5.6.0-3	It is DND / CF policy to maintain a program of General Safety, which ensures that safety considerations are incorporated into every aspect of departmental operations including training and support activities.
4.5.6.0-4	The Contractor must comply with the requirements of the general safety program in the development, maintenance and provision of the project. Where work is performed at government owned facilities, the contractor must implement a general safety program for OWSS activities of the project that must conform to the following publications, which contain the major occupational health and safety regulatory instruments that have been approved for application throughout DND and the CF:
4.5.6.0-4.0-1	<ul style="list-style-type: none"> ○ A-GG-040-004/AG-001 - General Safety Program - Volume 1, Policy and Program;
4.5.6.0-4.0-2	<ul style="list-style-type: none"> ○ C-02-040-007/TS-001- General Safety Precautions;
4.5.6.0-4.0-3	<ul style="list-style-type: none"> ○ C-02-040-009/AG-001 – General Safety Program - General Safety Standards and
4.5.6.0-4.0-4	<ul style="list-style-type: none"> ○ Canada Labour Code, Part II.
4.5.7.	4.5.7 Environmental Health and Safety Management System (EHSMS)
4.5.7.0-1	The Contractor must have a management system in place to control environmental, health and safety impacts resulting from their activities, products or services. ISO 14001 - Environmental Management Systems; Specification with Guidance for Use - is a benchmark for an effective environmental management system (EMS) applicable to all types and sizes of organizations. Certification to this standard is preferred but not necessary. The Contractor must, however, have a formalized set of procedures and control measures in place to achieve conformance with the requirements of this Work, while ensuring environmental, health and safety protection and pollution prevention. The EMS requirement is applicable to the Contractor. The Technical Authority must have the right to make examinations and audits of the Work and control processes/procedures and infrastructure with respect to the environmental, health and safety management system as they may think fit.
4.5.7.0-2	The EMS requirement is applicable to the Contractor, and all subcontractors that may provide support to the Contract requirements. The Contractor must make reasonable effort to monitor that all subcontractors are in compliance with applicable environmental laws and regulations.
4.5.7.0-3	The Contractor must keep accurate and complete EHS records, which must, upon request,

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	be made available to the Technical or Inspection Authority, who may only view such documents. During the performance of the Contract and for any period of time thereafter provided in the Contract, request for copies of any document will be made formally to the Contractor.
4.5.8	4.5.8 Environmental Health and Safety aspects in Design
4.5.8.0-1	The ECMA International Standard ECMA-341, "Environmental design considerations for ICT and CE products" (<< http://www.ecma-international.org/publications/files/ECMA-ST/ECMA-341.pdf >>)) must be incorporated where feasible, and not in conflict with other requirements identified within the Work requirement, to reduce the environmental impact of the product and to facilitate end of life disposal.
4.5.8.0-2	The Contractor must comply with the Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 KHZ to 300 GHZ - Safety Code 6.
4.5.8.0-3	CFTO C-55-040-001/TS-001, Radio Frequency Safety Program ("CFAO 34-51, Radio Frequency Radiation Safety" refers). Canada will perform all applicable tests and analysis, as indicated in 5.3.5.4.0-1. The Contractor must assist Canada in performing all applicable tests and analysis requirements found in Part 11 of the CFTO, including the RF survey.
4.5.9	4.5.9 Environmental Health Safety Assessment (EHSA)
4.5.9.0-1	The Contractor must prepare and deliver an EHSA for Technical Authority approval IAW CDRL PM-008 detailing the EHS impact of the equipment and all subcomponents during all life cycle phases such as design, engineering and manufacturing, test and evaluation, production and delivery, operation and maintenance, and demilitarization and disposal. The EHSA must include a Material Safety Data Sheet (MSDS) for each hazardous material (HAZMAT) contained in the deliverables.
4.6	4.6 Data Management Requirements
4.6.0-1	The Contractor must deliver a Technical Data Management Plan (TDMP) which delineates the policies, procedures, and responsible personnel that will be employed to ensure that the DM process for the ISS is properly maintained and documented. Preparation and delivery must be IAW CDRL DM-001 .
4.6.1	4.6.1 EIE Description
4.6.1.0-1	The EIE is a Contractor owned and operated ISSP enabling system that is to support the timely, accurate and controlled dissemination of the project and technical information items, data and records resulting from the execution of the work of this SOW.
4.6.2	4.6.2 Deliverable Data

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4.6.2.0-1	The Contractor must prepare and deliver all data specified in the CDRL IAW instructions contained therein and in each DID. The descriptions and field contents of the CDRL and DIDs are contained in Annex CC.
4.6.2.0-2	The Contractor must maintain and revise all data items as necessary to reflect approved changes to the Contract.
4.6.2.0-3	Canada will use various Contractor data items, deliverables, meetings, reviews, etc. to conduct its activities, including preparing for design reviews, technical reviews and Progress Review Meetings. In the event that the Contractor fails to deliver associated deliverables IAW the CDRL, or fails to conduct associated precursor activities, Canada may insist on its full review periods which could delay the subsequent review or PRMs. Any such delay will be at the Contractor's own risk.
4.6.3	4.6.3 Delivery of Data
4.6.3.0-1	Canada will notify the Contractor within 15 working days of the effective date of the acquisition contract, the points of delivery for the data deliverables. Such notice will include the name, organization, job title, postal and e-mail addresses, telephone and facsimile numbers. Canada may, by notice, change these delivery addresses at any time.
4.6.3.0-2	The Contractor must notify the CA within 15 working days of the effective date of the acquisition contract, the points of delivery for Canada's responses. Such notice must include the name, organization, job title, postal and e-mail addresses, telephone and facsimile numbers. The Contractor may, by notice, change these delivery addresses at any time.
4.6.3.0-3	The Contractor must make available to Canada any or all Contractor policies and procedures, or other data that are referred to in this SOW or in the Contractor's data items, whenever a request is received from Canada. The Contractor must make data requested available through EIE within five working days of receiving a request.
4.6.3.0-4	The Contractor must produce and deliver data items in a format compatible with MS Office 2003 for documents, and MS Project 2003 for schedules.
4.6.4	4.6.4 Delivery of Data via EIE
4.6.4.0-1	Data items must be delivered via the EIE. The purpose of the EIE system is to ensure timely delivery and access to required up-to-date information.
4.6.4.0-2	The Contractor must notify the CA that the data deliverable is available on the EIE for review, approval, or information as applicable. The Contractor must include the following information in its notification:
4.6.4.0-2.0-1	<ul style="list-style-type: none"> ○ CDRL Item number;

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4.6.4.0-2.0-2	○ Document revision number and date;
4.6.4.0-2.0-3	○ Title of the document; and
4.6.4.0-2.0-4	○ Contract number.
4.6.4.0-3	The Contractor must notify the CA whenever a data item cannot be delivered via the EIE and propose an alternative interim means of delivery. Use of an alternate means of delivery must not preclude compliance with the delivery date for the respective data item. The Contractor must post the data item on the EIE when it is possible.
4.6.5	4.6.5 Management of EIE data
4.6.5.0-1	The Contractor must manage ISSP data deliverables and other related data within the EIE.
4.6.5.0-2	The Contractor must manage the Government Furnished Information (GFI) which resides in the EIE repository, IAW the EIE requirements of section 9.2.
4.6.5.0-3	The Contractor's Data Manager must review with the DND Configuration Manager, on a mutually agreed frequency, the status of CDRL items, and the CDRL Item register, as specified in the EIE specification, for completeness, accuracy and clarity, and perform the required amendments.
4.7	4.7 Quality Management
4.7.1	4.7.1 Quality Management System
4.7.1.0-1	The Contractor must document, in the PMP (CDRL PM-001) and associated QAP (CDRL PM-002), the elements of the Contractor's Quality Management System that will be applied to the work of this SOW.
4.7.1.0-2	The Quality Management System should conform to ISO 9001:2008.
4.7.1.0-3	The Contractor must provide the DND QAR with access to the Quality Management System, within 48 hours of receiving a visit request, to ensure the operations performed by the Contractor are IAW the processes and procedures detailed in the PMP and subordinate plans.
4.7.1.0-4	The Contractor must provide corrective measures to any observed deficiencies from the prescribed or documented procedures, or instances of poor practices, which might have an adverse effect upon the quality of the ISS.
4.8	4.8 Government Property Management
4.8.0-1	Canada will make available to the Contractor, GFE, as per Table 1 to 3 of Appendix 3 to this SOW, and GFI, as per the list at Annex CE, to be used to support the work of the

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4.8.0-2	The Contractor must prepare and deliver a Government Property Report IAW CDRL PM-010 , and is to make the report available on the EIE.
4.8.0-3	The Contractor must assist Canada in conducting physical audits of all Government property selected for use by the Contractor.
5	5 Engineering
5.1	5.1 General
5.1.1	5.1.1 Overview
5.1.1.0-1	This section describes the requirements for Engineering work that the Contractor will carry out. As Design Authority, the Contractor has the responsibility for complete system design, engineering and integration of the System to ensure that all sub-systems, when assembled and operating as a complete system, meet the overall requirements of the ISS-S, including the accessories, and ancillary systems, based on the TPS and the UAPS.
5.2	5.2 Engineering Management
5.2.1	5.2.1 Senior Engineering Manager
5.2.1.0-1	The Contractor must designate an individual as its Senior Engineering Manager.
5.2.1.0-2	The Senior Engineering Manager must have the requisite authority within the Contractor's organization for all Engineering Program matters related to the engineering work of the SOW.
5.2.1.0-3	Canada recognizes that personnel changes may occur. The Contractor must advise Canada of any changes in personnel filling the Senior Engineering Manager position.
5.2.2	5.2.2 System Engineering Management Plan
5.2.2.0-1	The SEMP and its subordinate plans, describe the Engineering Program to be implemented by the Contractor in the performance of the Engineering work of this Contract.
5.2.2.0-2	The Contractor must prepare, deliver, implement and maintain the SEMP IAW CDRL SE-001 .
5.2.2.0-3	The SEMP is a subordinate plan to the PMP.
5.2.2.1	5.2.2.1 Tailoring

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5.2.2.1.0-1	The Contractor must perform the necessary tailoring of System Life Cycle activities and tasks specified in ISO/IEC/IEEE 15288:2008 clause 6, in order to adapt the processes to the particular work requirements of this SOW.
5.2.2.1.0-2	The Contractor must perform the Tailoring process IAW ISO/IEC/IEEE 15288:2008 Annex A, and document the ISS System Engineering Process in the SEMP.
5.2.2.1.0-3	The Contractor must perform the necessary tailoring of Software Engineering Life Cycle activities and tasks specified in ISO/IEC/IEEE 12207:2008 clauses 6 and 7, in order to adapt the processes to the particular work requirements of this SOW.
5.2.2.1.0-4	The Contractor must perform the tailoring process IAW ISO/IEC/IEEE 12207:2008 Annex A, and document the ISS Software Engineering Process in the SEMP.
5.2.3	5.2.3 Verification and Qualification Plan
5.2.3.0-1	The Contractor must prepare, deliver, implement and maintain a VQP IAW CDRL SE-004 for approval by the TA.
5.2.3.0-2	The VQP is a subordinate plan of the SEMP.
5.2.4	5.2.4 System Acceptance Test Plan
5.2.4.0-1	The Contractor must prepare, deliver, implement and maintain a SATP IAW CDRL SE-007 for approval by the TA.
5.2.4.0-2	The SATP is a subordinate plan of the SEMP.
5.2.4.0-3	The Contractor must acquire, re-use, prepare, review, distribute, and release all documentation, resulting from performing the engineering work of this SOW, IAW the accepted TDMP (CDRL DM-001).
5.2.5	5.2.5 Technical Review Meetings (TRM)
5.2.5.0-1	A TRM provides a working level forum to discuss technical issues and means of resolution between the TA and the Contractor. TRMs occur between the engineering teams of the Contractor and the TA as required by either party.
5.2.5.0-2	In the event that a TRM is to be held, the Contractor must perform the TRM IAW the SEMP.
5.2.5.0-3	The Contractor must prepare and deliver the TRM Agenda IAW CDRL PM-005 .
5.2.5.0-4	The Contractor must conduct the meeting IAW the PMP (CDRL PM-001).

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5.2.5.0-5	The Contractor must prepare and deliver the TRM Minutes IAW CDRL PM-006 .
5.2.5.0-6	The Contractor must prepare and deliver the TRM IAIL entries IAW CDRL PM-007 .
5.2.5.0-7	The Contractor must make the above information available to Canada through the EIE services.
5.3	5.3 Engineering Program
5.3.0-1	The Contractor must establish, implement and maintain an Engineering Program consistent with the work requirements of this Contract.
5.3.0-2	The Engineering Program must include the resources, processes and policies necessary to ensure the Engineering effort is properly controlled and documented for the duration of the contract.
5.3.1	5.3.1 System Engineering
5.3.1.0-1	The Contractor must perform System Engineering in order to produce and deliver the System.
5.3.1.0-2	The Contractor must perform Systems Engineering work, IAW the accepted SEMP (CDRL SE-001).
5.3.2	5.3.2 Software Engineering
5.3.2.0-1	The Contractor must perform Software Engineering in order to produce the System.
5.3.2.0-2	The Contractor must perform Software Engineering Work, IAW the accepted SEMP (CDRL SE-001).
5.3.3	5.3.3 Hardware Engineering
5.3.3.0-1	Hardware Engineering consists of electrical, electronic and mechanical engineering activities performed on the System or System Elements, System interfaces, and on the platforms upon which they are installed.
5.3.3.0-2	The Contractor must perform Hardware Engineering work IAW the accepted SEMP (CDRL SE-001).
5.3.4	5.3.4 Human Factors Engineering (HFE)
5.3.4.0-1	The Contractor must establish a HFE program as part of the overall Engineering Program.
5.3.4.0-2	The Contractor must provide HFE analysis and design services for ISS system elements.

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5.3.4.0-3	The services must, as a minimum, encompass the following aspects IAW MIL-HDBK-46855B/MIL-STD-1472F (Notice 1, 2 &3)/MIL-HDBK-454A:
5.3.4.0-3.0-1	○ Human Factors Analysis;
5.3.4.0-3.0-2	○ Safety Analysis; and
5.3.4.0-3.0-3	○ Task analysis/Man Machine Interface.
5.3.4.0-4	The Contractor must describe the HFE Program in the SEMP (CDRL SE-001).
5.3.4.0-5	The Contractor must perform HFE IAW the accepted SEMP.
5.3.5	5.3.5 Domain and Speciality Engineering
5.3.5.0-1	The Contractor must perform Speciality Engineering work as follows:
5.3.5.0-1.0-1	○ Security Engineering;
5.3.5.0-1.0-2	○ Reliability, Availability and Maintainability (RAM);
5.3.5.0-1.0-3	○ Electromagnetic Environmental Effects (E3);
5.3.5.0-1.0-4	○ RADHAZ Test Support;
5.3.5.0-1.0-5	○ Polychlorinated Biphenyls (PCB) and Cadmium restrictions; and
5.3.5.0-1.0-6	○ Mercury restrictions.
5.3.5.0-2	Domain and Speciality Engineering disciplines are those associated with quality characteristics (ISO 9126) of the System, for system quality and for quality-in-use. Speciality Engineering is generally performed within the context of Systems Engineering, Software Engineering and Hardware Engineering life cycle activities, using many of the respective techniques and practices.
5.3.5.0-3	The Contractor must perform Speciality Engineering IAW the accepted SEMP (CDRL SE-001).
5.3.5.1	5.3.5.1 Security Engineering
5.3.5.1.0-1	The Contractor must establish, implement and maintain a Security Engineering program as part of the overall Engineering Program.
5.3.5.1.0-2	The Contractor must document the Security Engineering processes in the SEMP (CDRL SE-001).

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5.3.5.1.0-3	The Contractor's Security Engineering program must be capable of providing the following services, as requested by the TA:
5.3.5.1.0-3.0-1	<ul style="list-style-type: none"> ○ Assess all engineering change requests associated with ISS integration or connectivity with a Secret System High and Type 1 cryptographic environment to determine TEMPEST impact;
5.3.5.1.0-3.0-2	<ul style="list-style-type: none"> ○ Review all engineering change requests/proposals associated with ISS integration with a Secret System High and Type 1 cryptographic environment to determine impact on Information System Security (INFOSEC) Boundaries and propose solutions to identified issues;
5.3.5.1.0-3.0-3	<ul style="list-style-type: none"> ○ Perform technical investigations and work to integrate or interface the ISS with a Secret System High environment while ensuring the implementation meets security requirements;
5.3.5.1.0-3.0-4	<ul style="list-style-type: none"> ○ Conduct equipment and subsystem security testing including TEMPEST acceptance testing and product integration testing;
5.3.5.1.0-3.0-5	<ul style="list-style-type: none"> ○ Prepare and review test plans, procedures and reports;
5.3.5.1.0-3.0-6	<ul style="list-style-type: none"> ○ Develop and maintain formal, information security control requirements for the ISS;
5.3.5.1.0-3.0-7	<ul style="list-style-type: none"> ○ Manage the ISS development using a development life cycle methodology that includes information security considerations;
5.3.5.1.0-3.0-8	<ul style="list-style-type: none"> ○ Provide and maintain system and product level functional and technical specifications for all ISS technical security safeguards; and,
5.3.5.1.0-3.0-9	<ul style="list-style-type: none"> ○ Participate and support the Departmental certification and accreditation process of the ISS solution.
5.3.5.2	5.3.5.2 Reliability, Availability and Maintainability
5.3.5.2.0-1	The Contractor must establish, implement and maintain a RAM Program IAW SAE JA1000, SAE JA1010 and SAEJA1002, or other equivalent standards, such as ANSI/GEIA-STD-0009-2008.
5.3.5.2.0-2	The Contractor's RAM Program must encompass all of the activities necessary to achieve the system Reliability, Maintainability, Built in Tests (BITs) and Service Life performance required by the Technical Performance Specification of Annex CB. This includes all hardware, software and firmware that comprise the ISS-S system. This must include the activities necessary to verify the level of RAM performance achieved, and to produce all deliverable RAM data required under this Contract.

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5.3.5.2.0-3	The SEMP will act as the RAM Program Plan. The Contractor must document the RAM Program in the SEMP (CDRL SE-001).
5.3.5.2.0-4	The Contractor must perform RAM work IAW the accepted SEMP (CDRL SE-001).
5.3.5.3	5.3.5.3 Electromagnetic (EM) Environmental Effects
5.3.5.3.0-1	The Contractor must maintain an EM engineering capability to control, investigate and improve the system Electromagnetic Compatibility (EMC) and to qualify new hardware to the system EMC requirements.
5.3.5.3.0-2	The Contractor must ensure that the ISS continues to satisfy the E3 requirements specified in the TPS and UAPS Annex CB.
5.3.5.4	5.3.5.4 Radiation Hazard Test Support
5.3.5.4.0-1	RADHAZ tests conducted IAW CFTO C-55-040-001/TS-001 will be conducted by government personnel. The Contractor must provide technical and logistical support of RADHAZ tests.
5.3.5.5	5.3.5.5 Polychlorinated Biphenyls and Cadmium
5.3.5.5.0-1	PCBs, halocarbons and asbestos must not be used by the contractor for the design, operation and maintenance of the equipment, products or support services.
5.3.5.5.0-2	The Contractor must not use Cadmium plating and devices using cadmium, unless specifically approved by the TA.
5.3.5.6	5.3.5.6 Mercury Restrictions
5.3.5.6.0-1	Mercury is a restricted hazardous substance as per Canadian Environmental Protection Act 1999 (CEPA) Schedule 1 List of Toxic substances.
5.3.5.6.0-2	The following laws, regulations, policies, directives and guidelines apply:
5.3.5.6.0-2.0-1	○ Canadian Environmental Protection Act, 1999 (CEPA), Schedule 1 (List of Toxic Substances);
5.3.5.6.0-2.0-2	○ Risk Management Strategy for Mercury-Containing Products, Environment Canada, Dec., 2006;
5.3.5.6.0-2.0-3	○ Notice Requiring the Preparation and Implementation of Pollution Prevention Plans in Respect of Mercury Releases from Mercury Switches in End-of-Life Vehicles Processed by Steel Mills, 29 Dec, 2007, Canada Gazette Vol. 141. No. 52;
5.3.5.6.0-2.0-4	○ List of Accelerated Reduction/Elimination of Toxics (ARET);

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5.3.5.6.0-2.0-5	○ National Pollutant Release Inventory (NPRI) 2008, Canada Gazette Part 1, 16 Feb 2008;
5.3.5.6.0-2.0-6	○ Canada-Wide Standard for Mercury-Containing Lamps;
5.3.5.6.0-2.0-7	○ Canada Labour Code Part II;
5.3.5.6.0-2.0-8	○ DND policy: Defence Administrative Order and Direction (DAOD) 4003-1 Hazardous Materials Management;
5.3.5.6.0-2.0-9	○ Environmental Emergency Regulations, SOR/2003-307.
5.3.5.6.0-3	The Contractor must comply with all Mercury Regulations in effect throughout the conduct of the work.
5.3.5.6.0-4	New equipment must not contain mercury, where possible and feasible.
5.3.5.6.0-5	For each case where a mercury containing product is utilised, the Contractor must submit a statement explaining why it is not technically possible or feasible to use a mercury-free product in its place.
5.3.5.6.0-6	Products containing mercury must comply with mercury content limit as per identified the promulgated Mercury Regulations.
5.3.5.6.0-7	Where the equipment utilizes mercury, in any shape or form, contained or used within the design, operation and maintenance of equipment, support tooling, products or materials used or consumed, must be identified and associated with their physical location within or on the work provided.
5.3.5.6.0-8	The contractor must provide the following for each occurrence of mercury in tabular format to the TA:
5.3.5.6.0-8.0-1	○ Equipment NATO Stock Number (NSN) (for equipment containing mercury);
5.3.5.6.0-8.0-2	○ Equipment Description;
5.3.5.6.0-8.0-3	○ NSN or unique identifier in Defence Resource Management Information System (DRMIS) of the item mercury-containing mercury item (if it exists);
5.3.5.6.0-8.0-4	○ Manufacturer of the mercury-containing item;
5.3.5.6.0-8.0-5	○ Date of manufacture of the mercury-containing item;
5.3.5.6.0-8.0-6	○ Manufacturer part number of the mercury-containing item;
5.3.5.6.0-8.0-7	○ National Supply Code for Manufacturers of items containing mercury

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	(NSCM)/Commercial and Government Entity (CAGE) Code;
5.3.5.6.0-8.0-8	○ Description of the mercury-containing item;
5.3.5.6.0-8.0-9	○ The form of mercury (e.g. liquid, vapour, amalgam, metal halide);
5.3.5.6.0-8.0-10	○ Quantity of mercury (kg mass);
5.3.5.6.0-8.0-11	○ Volume of mercury (L) and its concentration in ppm [provided either mass or volume/concentration of mercury, but not both];
5.3.5.6.0-8.0-12	○ The location of the mercury- containing item(s);
5.3.5.6.0-8.0-13	○ Quantity of mercury- containing item per reported equipment;
5.3.5.6.0-8.0-14	○ Total Quantity of mercury within the reported equipment (for kg mass and volume/concentration); and
5.3.5.6.0-8.0-15	○ Material Safety Data Sheet (MSDS), where possible.
5.3.5.6.0-9	The Contractor is responsible to ensure that consumable products and equipment containing mercury are labelled in a readily visible location. The information must be in characters that are at least 3 mm in height, legible and indelible and that are impressed, embossed or in a colour that contrasts with the label's background or the colour of the product as applicable The label must be enclosed by a borderline and easily distinguishable from other graphic material on the product or its package. The label must be bilingual and shall include the following:
5.3.5.6.0-9.0-1	○ A statement "CAUTION/MISE EN GARDE" in characters that are at least 4 mm in height;
5.3.5.6.0-9.0-2	○ A statement that the product contains mercury and the content of mercury in the product in milligrams;
5.3.5.6.0-9.0-3	○ Information on the action to be taken in case of accidental breakage and a description of the risks associated with the use of the product, the address of a website that contains the information, or contact information for a person who can provide that information;
5.3.5.6.0-9.0-4	○ Information on the options available for proper disposal and recycling IAW the laws of jurisdiction where the disposal or recycling to take place, the address of a website that contains the information, or contact information for a person who can provide that information;
5.3.5.6.0-9.0-5	○ A warning that the product is to be managed IAW the applicable disposal or recycling laws;

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5.3.5.6.0-9.0-6	<ul style="list-style-type: none"> ○ The “Hg” symbol encircled by a line on a readily visible location on the product where the characters are at least 3 mm in height which are impressed, embossed or in a colour that contrasts with the label’s background or the colour of the product as applicable. Note: Hg symbol stands for mercury.
5.3.5.6.0-10	If the product is not large enough to accommodate the information, the information must be:
5.3.5.6.0-10.0-1	<ul style="list-style-type: none"> ○ In a readily visible location on the package in which the product is sold or offered for sale; or
5.3.5.6.0-10.0-2	<ul style="list-style-type: none"> ○ In a notice attached to the product or in a manual that accompanies the product, if there is no package, or if the package is not large enough to accommodate the information.
5.3.5.6.0-10.0-3	<ul style="list-style-type: none"> ○ In both official languages.
5.3.5.6.0-11	Technical documentation must contain:
5.3.5.6.0-11.0-1	<ul style="list-style-type: none"> ○ Warnings that the equipment contains mercury and shall reflect the requirements of the mercury regulation and this plan. The technical document shall also include information on part numbers containing mercury, location, type of mercury, manufacturer’s information, mercury content, and MSDS information (included in CDRL PM-008).
5.3.5.6.0-12	A written work procedure for processes involving the safe handling of mercury-containing equipment, components and materials, must be included. It must identify procedures for mercury spills cleanups and disposal procedures. The work procedure shall identify proper Personal Protective Equipment (PPE) in the case of a spill.
5.3.6	5.3.6 Verification and Qualification
5.3.6.0-1	The Contractor must establish, implement and manage a VQ program consistent with the work requirements of this SOW.
5.3.6.0-2	The Contractor must prepare and deliver a VQP IAW CDRL SE-004 .
5.3.6.0-3	The VQ program must include the resources, processes and policies necessary to ensure the VQ effort is properly controlled and documented for the duration of the Contract.
5.3.6.0-4	The VQ program must comply with the Verification Method and verification criteria requirements specified in the TPS module at Annex CB Appendix 1.
5.3.6.0-5	The Contractor must perform VQ IAW the approved VQP (CDRL SE-004).

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5.3.6.1	5.3.6.1 Verification Process
5.3.6.1.0-1	The Contractor must perform the analysis and inspection verification activities IAW the approved VQP.
5.3.6.1.0-2	The Contractor must prepare and deliver a Verification Qualification Test Report IAW CDRL SE-006 .
5.3.6.2	5.3.6.2 Qualification Test Process
5.3.6.2.0-1	The purpose of the Qualification Test Process is to ensure that ISS system elements have been implemented compliant to their respective allocated and derived requirements and that the integrated system is tested using the Verification Method specified in the TPS and UAPS.
5.3.6.2.0-2	For each ISS system element that requires qualification testing, the Contractor must qualify the system element and the integrated system IAW the approved VQP (CDRL SE-004).
5.3.6.2.0-3	The final ISS-S qualification will be achieved through the SAT as documented in section 3.2 of this SOW.
5.3.6.2.0-4	The Contractor must prepare and deliver the QTDPs IAW CDRL SE-005 .
5.4	5.4 Work Authorization Support Services
5.4.0-1	Canada may require the Contractor to perform work on an "if, as, and when requested" basis using the terms and conditions of the Contract. Canada will issue different types of work authorizations such as DND 626 Task Authorization and Contract Change Proposals to authorize the work to be performed. The work authorization process will require the Contractor to provide a response to a Canada initiated SOW. That response, in addition to determine the scope of the work and deliverable, will include a quote on the Level Of Effort (LOE) to complete the work. The range of Support Services to be covered by this Work Authorization Process includes:
5.4.0-1.0-1	○ Technical Investigations;
5.4.0-1.0-2	○ Development of hardware and software solutions;;
5.4.0-1.0-3	○ Design, fabrication, modelling and limited manufacture;
5.4.0-1.0-4	○ Testing; and
5.4.0-1.0-5	○ ILS, including

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5.4.0-1.0-5.0-1	<ul style="list-style-type: none"> • Publications amendments,
5.4.0-1.0-5.0-2	<ul style="list-style-type: none"> • Training, and
5.4.0-1.0-5.0-3	<ul style="list-style-type: none"> • Fielding support.
5.4.0-2	Available Personnel Resources. The Contractor must have available the labour categories identified in Appendix 4 to this Annex to perform the work covered by the requested Support Services.
6	6 Integrated Logistics Support
6.1	6.1 ILS Program
6.1.0-1	The Contractor must plan, produce and, when accepted, implement and conduct an ILS Program, IAW A-LM-505-001/AG-001 Guidance Manual ILS, that details how it will complete its assigned ILS responsibilities identified in this SOW.
6.1.0-2	A Support Concept for the ISS is provided at Volume 2, Annex CA, Appendix 2. The purpose of the Support Concept is to:
6.1.0-2.0-1	Provide the ISSP Contractor with a document to be used in the development of the ILS Program. It provides information regarding mission cycles, projected usage and DND's internal support processes and programs. It is not structured as a procedures guide, but rather, will form the basis for the Contractor and DND's development of complementary and supportive in-service processes for the ISS; and
6.1.0-2.0-2	Provide DND stakeholders with a consolidated view of how the ISSP will be used and supported through its lifecycle. During the in service life of the ISSP, the Support Concept will be used by the Equipment Maintenance Team (EMT) to develop DND support plans.
6.2	6.2 Integrated Logistics Support Plan (ILSP)
6.2.0-1	The Contractor must prepare and deliver an ILSP IAW CDRL LS-001 .
6.2.0-2	The Contractor must conduct the ILS Program IAW the approved ILSP. Any changes to the ILSP must be submitted to the TA for acceptance.
6.3	6.3 ILS Review Meetings
6.3.0-1	An ILS Review provides a working level forum to discuss ILS issues and means of resolution between Canada and the Contractor. ILS Reviews occur between the ILS teams of the Contractor and Canada as required by either party. When possible, ILS Reviews should be scheduled to coincide with PRMs.

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6.3.0-2	When an ILS Review is required, the Contractor must perform ILS Reviews IAW the ILSP (CDRL LS-001).
6.3.0-3	The Contractor must prepare and deliver an ILS Review Agenda IAW CDRL PM-005 .
6.3.0-4	The Contractor must conduct the meeting IAW the PMP (CDRL PM-001).
6.3.0-5	The Contractor must prepare and deliver the ILS Review Minutes in accordance CDRL PM-006 .
6.3.0-6	The Contractor must record and maintain all ILS Issues and AIs IAW the IAIL (CDRL PM-007).
6.3.0-7	The Contractor must track ILS Issues and AIs to closure.
6.3.0-8	The Contractor must make the above information available to Canada through the EIE service.
6.4	6.4 Maintenance Plan
6.4.0-1	The Contractor must prepare and deliver a Maintenance Plan IAW CDRL LS-005 .
6.4.0-2	The Contractor must identify all maintenance tasks and allocate these to either Operator Maintenance (an average of 15 minutes per day); First Line Maintenance for maintenance activities that can be accomplished on average in one (1) hour or less with no, or minimal, Special Tools and Test Equipment (STTE); or Second Line Maintenance for those that require minimal specialized support equipment and can be completed on average within two (2) hours.
6.4.0-3	Maintenance tasks that would otherwise meet the above requirements, but having durations in excess of two hours and/or require costly STTE will be performed under contracted Repair and Overhaul (R&O) services.
6.4.1	6.4.1 Software Maintenance Documentation
6.4.1.0-1	The Contractor must provide the documentation needed for software maintenance and support. The Contractor must prepare and deliver the Software Documentation IAW CDRL LS-006 .
6.5	6.5 Technical Publications
6.5.1	6.5.1 Publications Requirements
6.5.1.0-1	The Contractor must provide as a minimum all technical publications for operation, maintenance, quick reference, system management and parts lists of the deliverable end

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	items that constitute the ISS.
6.5.1.0-2	The Contractor must prepare and deliver the Technical Publications, including operation and maintenance manuals and QRG, IAW CDRL LS-007 .
6.5.1.0-3	The technical publications must incorporate appropriate EHS warnings and instructions in direct relation of the EHS risks presented in the contents.
6.5.1.0-4	The English and French language manuscripts will be required for the Pilot ICT courses.
6.5.1.0-5	The Contractor must deliver publications in both French and English.
6.5.2	6.5.2 Validation of Technical Publications
6.5.2.0-1	The Contractor must validate the Technical Publications IAW C-01-100-100/AG-006. The Contractor's submission of proof of previous validation will be acceptable for existing publications as long as they meet the requirements of C-01-100-100/AG-006.
6.5.3	6.5.3 Certificates
6.5.3.0-1	The Contractor must prepare and deliver the following Certificates to the TA IAW C-01-100-100/AG-006, Part 12, section 2:
6.5.3.0-1.0-1	○ Certificate of validation (DND590);
6.5.3.0-1.0-2	○ Certificate of Translation Accuracy Check (TAC);
6.5.3.0-1.0-3	○ Certificate of Reproducible Check (DND 642); and
6.5.3.0-1.0-4	○ Certificate of Compliance (DND591).
6.6	6.6 Training
6.6.1	6.6.1 Manage Training Program
6.6.1.0-1	The Contractor must establish and maintain a Training Program consistent with the Support Concept at Annex CA, Appendix 2.
6.6.1.0-1.0-1	The Contractor must conform to the training development requirements of Canadian Forces Individual Training Education System (CFITES).
6.6.1.0-2	The Contractor must prepare and deliver a Training Program Plan IAW CDRL LS-004 .
6.6.1.0-3	The Contractor must conduct the Training Program Plan IAW the accepted Training Program Plan (CDRL LS-004).

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6.6.2	6.6.2 Support for Training Courses
6.6.2.0-1	Pilot ICT courses. The Contractor must provide everything required to conduct all Pilot ICT courses. This includes, but is not limited to: training facilities, instructional staff, support personnel, course materials, consumables and equipment.
6.6.2.0-2	If the ISS-S used to support the Pilot ICT courses are scheduled for delivery to Canada, the Contractor must return these to "like new condition" and in the approved configuration upon completion of the training.
6.6.2.0-3	ICT Courses. For the approved ICT courses conducted at Canada's locations, the Contractor must provide the following: instructional staff, support personnel, Field Service representative (FSRs), instructional and student material required to conduct training.
6.6.2.0-4	Canada will provide on-site training facilities, ISS-S and support equipment for each ICT course.
6.6.3	6.6.3 ICT Course Size
6.6.3.0-1	The Contractor must plan and deliver the numbers of course serials specified in Volume 2, Annex CF for the numbers of students identified as follows:

6.6.3.0-2

Description	Number of Students
Pilot ICT Operator Instructors Course - English	Up to 12
Pilot ICT Operator Instructors Course - French	Up to 12
Pilot ICT System Manager Instructors Course - English	Up to 12
Pilot ICT System Manager Instructors Course – French	Up to 12
Pilot ICT Maintainer' Instructors Course – English	Up to 12
Pilot ICT Maintainer' Instructors Course – French	Up to 12
ICT Operator Course – English	Up to 24
ICT Operator Course – French	Up to 24
ICT System Managers Course – English	Up to 12
ICT System Managers Course – French	Up to 12
ICT Maintainers Course - English	Up to 6
ICT Maintainers Course - French	Up to 6

6.6.4

6.6.4 ICT Course Locations

6.6.4.0-1

The following locations are the most likely sites where the Contractor is expected to be called upon to deliver ICT courses:

6.6.4.0-1.0-1

- CFB Valcartier

6.6.4.0-1.0-2

- CFB Petawawa

6.6.4.0-1.0-3

- CFB Gagetown

6.6.4.0-1.0-4

- CFB Edmonton

6.6.4.0-1.0-5

- CFB Kingston

6.6.4.0-1.0-6

- CFB Borden

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6.6.4.0-1.0-7	○ Contractor provided facility
6.6.4.0-1.0-8	○ Other location as tasked by Canada.
6.6.5	6.6.5 Course Development
6.6.5.0-1	The Contractor must analyse training needs and requirements IAW CFITES A-P9-050-000/PT-002 and A-P9-050-000/PT-003.
6.6.5.0-2	The Contractor must design and develop the Training Course IAW CFITES A-P9-050-000/PT-004 and A-P9-050-000/PT-005.
6.6.5.0-3	The Contractor must develop and deliver Training Courses and material in Canadian English and French IAW CDRL LS-008 .
6.6.6	6.6.6 Training Support Equipment
6.6.6.0-1	The Contractor must identify the Training Support Equipment in the RSERL IAW CDRL LS-002 .
6.6.7	6.6.7 Conduct and Support ISS Training
6.6.7.0-1	The Contractor must conduct the Training IAW the accepted Training Program Plan (CDRL LS-004), and in the numbers and types of course serials specified in Annex CF.
6.6.7.0-2	The Contractor must conduct training IAW guidance of CFITES A-P9-050-000/PT-006.
6.6.8	6.6.8 Evaluation of students
6.6.8.0-1	The Contractor must verify the effectiveness of the Training Program IAW the accepted Training Program Plan (CDRL LS-004).
6.6.8.0-2	The Contractor must evaluate students IAW guidance of CFITES A-P9-050-000/PT-007.
6.6.9	6.6.9 ISS Training Validation support
6.6.9.0-1	The TA will validate the Pilot ICT courses IAW CDRL LS-008 . DND personnel selected to attend the Contractor delivered Pilot ICT Instructor courses will validate the training material and provide feedback to the contractor, which will lead to the approval of the Final version of the ICT courseware. The Contractor must support this validation process IAW CFITES A-P9-050-000/PT-008 and the validation plan articulated in CDRL LS-004 .
6.7	6.7 Supply Support
6.7.1	6.7.1 Equipment Identification Plate and Markings

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6.7.1.0-1	The Contractor must prepare and deliver an example of the Equipment Identification Plate Data IAW CDRL LS-009 .
6.7.1.0-2	Upon approval, the Contractor must provide and affix identification plates on the following types of equipment as applicable:
6.7.1.0-2.0-1	○ Prime equipment and electronic components;
6.7.1.0-2.0-2	○ Support equipment (excluding tools);
6.7.1.0-2.0-3	○ Training equipment; and
6.7.1.0-2.0-4	○ Automatic Test Equipment.
6.7.1.0-3	The Contractor must mark sub-systems and parts with appropriate hazard warning labels to identify (with symbols) any radioactive or hazardous materials.
6.7.2	6.7.2 Sparing
6.7.2.0-1	The Contractor must conduct a sparing analysis and prepare and deliver a Sparing Analysis Report IAW CDRL LS-010 .
6.7.2.0-2	The Contractor must prepare and deliver the RSPL IAW CDRL LS-003 .
6.7.2.0-3	The Contractor must prepare and deliver Supplementary Provisioning Technical Data (SPTD) IAW CDRL LS-011 .
6.7.2.0-4	The Contractor must prepare and deliver a Consumable and Bulk Items List (CBIL) IAW CDRL LS-012 .
6.7.2.0-5	The Contractor is not expected to host an Initial Provisioning Conference (IPC) at its facility but will be required to assist the TA with the identification and selection of the full range and depth of spares required to support the ISS.
6.7.2.0-6	All spares must be new and will reflect the latest approved configuration of ISS to be delivered to Canada.
6.7.3	6.7.3 Supply Management of Controlled Goods
6.7.3.0-1	Controlled Goods must be assigned a Demilitarization Code. The Contractor must provide the applicable Demilitarization Codes in their catalogues. For items not of US origin, but that meet the criteria described in the Canadian Export Control List Group 2, Group 6 and Article 5504, the Contractor must provide to Canada, through the Access to Technical Data Package requirements of the contract, the necessary source documents for Canada to initiate the process of assigning them a Demilitarization Code.

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6.7.4	6.7.4 Support Equipment
6.7.4.0-1	The Contractor must prepare and deliver a RSERL IAW CDRL LS-002 .
6.7.5	6.7.5 Packaging, Handling, Storage, and Transportation (PHST)
6.7.5.0-1	Canada's packaging policy on procurement of materiel is to accept commercial packaging, whenever possible. However, the exception is when there is a requirement for military packaging due to the fragility or complexity of the item. The Contractor must use best commercial packaging practices, unless otherwise directed by Canada to use military packaging.
6.7.5.0-2	The Contractor must prepare and deliver Packaging Data IAW CDRL LS-013 .
6.7.5.0-3	To identify packaging requirements for items, such as spare parts, bulk items, STTE and training equipment, that are to be shipped to or stored in a facility owned by Canada. The Contractor must prepare and deliver Packaging Data in electronic form suitable for entry into the DND's DRMIS, IAW accepted Packaging Data (CDRL LS-013).
6.7.5.0-4	The Contractor must provide the level of packaging for major sub-components IAW the provisions of CF Packaging Specification D-LM-008-001/SF-001.
6.7.5.0-5	The Contractor must provide all the required Packaging Instructions when packaging IAW CF Packaging Specification D-LM-008-001/SF-001.
6.7.5.1	6.7.5.1 Marking
6.7.5.1.0-1	The Contractor must mark items (and logistics containers if applicable) for shipment IAW D-LM-008-002/SF-001.
6.7.5.1.0-2	The Contractor must mark the items with the following information:
6.7.5.1.0-2.0-1	○ NSN
6.7.5.1.0-2.0-2	○ Nomenclature including size.
6.7.5.1.0-2.0-3	○ Quantity per box or package/ Unit of issue.
6.7.5.1.0-2.0-4	○ Contract Serial Number.
6.7.5.2	6.7.5.2 Bar Code
6.7.5.2.0-1	The Contractor must affix a permanent Bar Code to each uniquely identifiable procurable item and Maintenance Significant Item (MSI) within it using Bar Code symbologie 128, IAW D-LM-008-002/SF-001.

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6.7.5.2.0-2	The Contractor must affix a Bar Code to each shipping package/container to identify its contents.
6.7.5.3	6.7.5.3 Lithium batteries
6.7.5.3.0-1	If any Lithium or Lithium-polymer batteries are used, then the procedures in C-02-008-001/TS-000, General Safety Lithium Batteries Handling, Storage Preservation and Disposal Instructions must be used.
7	7 Configuration Management
7.0-1	The Contractor must conduct CM activities IAW this section.
7.0-2	The Contractor must implement a CM program tailored to meet the requirements of this contract IAW MIL-STD-973, 17 April 1992, Configuration Management, the National Consensus Standard for Configuration Management ANSI/EIA 649-A (Oct 2004), and the following DND Standards:
7.0-2.0-1	<ul style="list-style-type: none"> ○ D-01-002-007/SG-001: Requirements for the preparation of Configuration management Plans;
7.0-2.0-2	<ul style="list-style-type: none"> ○ D-01-002-007/SG-006: Criteria for the selection of Configuration Items;
7.0-2.0-3	<ul style="list-style-type: none"> ○ C-01-000-102/AG-000: National Defence Index of Documentation;
7.0-2.0-4	<ul style="list-style-type: none"> ○ D-01-300-100/SG-000: Specification Preparation;
7.0-2.0-5	<ul style="list-style-type: none"> ○ D-01-400-001/SG-000: Engineering Drawing Practices;
7.0-2.0-6	<ul style="list-style-type: none"> ○ D-02-002-001/SG-001: Identification Marking of Canadian Military Property;
7.0-2.0-7	<ul style="list-style-type: none"> ○ D-02-006-008/SG-001: The Design Change, Deviation & Waiver Procedure.
7.0-3	This CM Program must be in place during the entire period of performance of this contract. The CM program must not only cover the production of the ISS Suite, Ancillary and Accessories Items, but must ensure that the documentation reflects the final products.
7.0-4	The established configuration management program must address, as a minimum, the following areas:
7.0-4.0-1	<ul style="list-style-type: none"> ○ CMP;
7.0-4.0-2	<ul style="list-style-type: none"> ○ Configuration Identification;
7.0-4.0-3	<ul style="list-style-type: none"> ○ Configuration Control;

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7.0-4.0-4	○ Configuration Status Accounting (CSA);
7.0-4.0-5	○ Configuration Audits; and
7.0-4.0-6	○ Technical data.
7.1	7.1 Configuration Management Plan
7.1.0-1	The Contractor must prepare and deliver a CMP which delineates the policies, procedures, and responsible personnel that will be employed to ensure that the configuration of the ISS-S is properly controlled and documented. Delivery instructions, format and content will be IAW CDRL CM-001 .
7.2	7.2 Configuration Identification
7.2.0-1	The Contractor must select configuration items (CIs) and Computer Software Configuration Items (CSCIs) for the project. The CI/CSCI list must be approved by the Government. The Contractor must ensure these CIs/CSCIs are based on the proposed product and the maintenance concept that is foreseen for the life of the equipment. If required, The Contractor must propose amendments and updates to the CI/CSCI list to match the support concept developed through the ILS Program. The Contractor must add any new approved CIs/CSCIs to the list and must amend the CM elements and deliverables accordingly.
7.2.0-2	The Contractor must prepare, deliver and maintain the ISS-S EBS IAW CDRL CM-005 . The EBS must represent the system baseline configuration submitted in the Contractor's proposal (P(Bid)), and ISS Variant and Ancillary must be assembled IAW the EBS. If and when the system baseline configuration changes, then the Contractor must submit an updated EBS.
7.2.0-3	For new CI with no NSN, the Contractor must prepare and deliver SPTD IAW CDRL LS-011 .
7.3	7.3 Configuration Control
7.3.0-1	The Contractor must prepare and deliver, as required, ECPs IAW CDRL CM-002 to request authorization to make changes to the approved system baseline configuration or to a particular performance or design requirement of the contract, specification or document.
7.3.0-2	The Contractor must submit an impact analysis on cost, schedule, ILS, project deliverables, EHS with each ECP that changes any of the following characteristics: fit, form, function or specified performance limits. ECPs that do not change fit, form, function or specified performance limits do not need the TA's approval, but must be provided as info without the full impact analysis.

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7.3.0-3	The Contractor must prepare and deliver as required Requests for Deviation (RFD) and/or Requests for Waiver (RFW) IAW CDRL CM-006 . A RFD describes a requested departure from a Contract requirement for a specified period of time and/or a specified number of units. A RFW obtains authorization to deliver non-conforming material which may not meet prescribed documentation but is suitable for use as is or after repair and/or retrofit.
7.3.0-4	The Contractor must prepare and submit a Specification Change Notice (SCN) IAW CDRL CM-007 to describe changes to specification concurrently with the preparation of a related ECP, for each specification which would require revision if the ECP were to be approved. The SCN should only state the exact change proposed to the specification.
7.3.0-5	The Contractor must prepare and submit an NOR IAW CDRL CM-003 to describe the exact change(s) to be made to each drawing, associated list, or other affected document(s) when specified as a data requirement(s) in the contract. NOR are normally applicable where document(s) affected by an ECP are not controlled by the ECP preparing activity.
7.3.0-6	In the event that the TA considers an ECP has an impact on the ability of the System to satisfy the Performance Specification, and before ECP approval can be provided, Canada reserves the right to:
7.3.0-6.0-1	○ require that regression testing be performed; and
7.3.0-6.0-2	○ evaluate the System.
7.4	7.4 Configuration Status Accounting
7.4.0-1	The Contractor must provide CSA reports IAW CDRL CM-008 .
7.4.0-2	For software CIs, The Contractor must produce and process SVDD IAW CDRL CM-004 .
7.5	7.5 Configuration Audits
7.5.0-1	The Contractor must produce a Configuration Audit Plan for each FCA and PCA conducted. The plans must be delivered and written IAW CDRL CM-009 .
7.5.0-2	The Contractor must submit a Configuration Audit Report for TA approval IAW CDRL CM-010 following completion of each audit.
7.5.0-3	For each audit conducted and upon approval of the audit report, and closure of related AIs, the Contractor must prepare a certification for approval by the TA. The certification package will include:
7.5.0-3.0-1	○ proof of all AI closure;

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7.5.0-3.0-2	○ updated baseline; and
7.5.0-3.0-3	○ final certification sheet.
7.6	7.6 Technical Data
7.6.0-1	The Contractor must provide access to its technical data (engineering drawings, data list and reference documents) depicting the ISS-S product delivered, when requested by the TA for viewing.
8	8 Quality Assurance Program
8.1	8.1 General
8.1.0-1	The QA work requirements, specified below, are based on the Contractor having an acceptable quality system, and proven process controls on specific processes relevant to the products and services being procured under the Acquisition Contract.
8.1.0-2	The Contractor must establish and implement a product and process QA program in order to assure the quality of the work of this SOW and of the resulting ISS product and services.
8.1.0-3	The aim of the QA program must be to prevent rather than detect non-conformance, at all stages of the system life -cycle.
8.1.0-4	The QA Program must be consistent with the Contractor's Quality Management System
8.1.0-5	The QA Program must be consistent with the VQ requirements of this SOW, and includes the Verification Methods and Verification Criteria specified in the TPS (Volume 2, Annex CB, Appendix 1).
8.1.0-6	The Contractor must prepare and deliver a QAP IAW CDRL PM-002 for acceptance by the TA.
8.1.0-7	The Contractor must ensure that the products and the work supplied and performed by Subcontractors, suppliers and vendors are governed by the applicable elements of the accepted QAP.
8.1.0-8	The Contractor must perform QA IAW the accepted QAP.
8.2	8.2 System Qualification Phase QA.
8.3	8.3 Canada preferred method of product acceptance
8.3.0-1	The Contractor is to establish an Acceptance of Product Method IAW his accepted QAP (CDRL PM-002) which is compliant to the Quality System for production requirements

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	of this SOW.
8.4	8.4 DND QAR
8.4.0-1	The Contractor must provide the DND QAR with access to the ISS Information Items and Data, within 48 hours of receiving a visit request, to ensure the operations performed by the Contractor are IAW the processes and procedures detailed in the Contractor's plans.
8.4.0-2	The Contractor must provide corrective measures to the Quality System as requested by the TA. The measures must address any deficiencies from the prescribed or documented procedures or instances of poor practices which might have an adverse effect upon the quality of the ISS.
8.5	8.5 Integration Verification and Validation (IV&V) Agent
8.5.0-1	Canada may elect to acquire the services of an IV&V Agent to verify or validate elements of the ISS.
8.5.0-2	The Contractor must provide the IV&V Agent with access to the ISS Information Items and Data, within 48 hours of receiving a visit request.
9	9 Infrastructure Support Services
9.1	9.1 General
9.1.0-1	Canada requires the services specified below in order to support the project during the Acquisition Contract.
9.1.0-2	Many of these services will be transitioned to OWSS when tasked, in order to facilitate the work of the ISS LCMMs and Equipment Program Managers.
9.2	9.2 Electronic Information Environment Services
9.2.1	9.2.1 Approach
9.2.1.0-1	Canada has chosen a more dynamic and repository based approach to the management of project and technical information items, records and data, while still assuring Canada's ability of performing due diligence.
9.2.1.0-2	The approach takes advantage of the Contractor's and Canada's information management capabilities, in order to afford a more timely delivery, review and turnaround of review results. This will in turn reduce costs, effort and time in the performance of the Work.
9.2.2	9.2.2 General Features
9.2.2.0-1	The Contractor must establish and maintain an EIE service that satisfies the EIE

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	requirements listed below.
9.2.2.0-2	The Contractor must provide authorized users with access to required data to perform their activities in throughout the duration of the Contract.
9.2.2.0-3	From initiation of the contract, the EIE will evolve to provide increased capabilities.
9.2.2.0-4	The content (data) will initially be made available as specified in the acquisition SOW. The EIE must provide access to the product related data.
9.2.2.0-5	The EIE must provide remote bi-directional access, between Canada and the Contractor, to the Contract data items. The EIE capability requested by DND will not interface with DND's internal Material Acquisition and Support (MA&S) management systems such as DRMIS, NMDS and TACIS. Exchanges of information must comply with the Security Requirements Check List (SRCL) that can be found in Annex AG to this Contract.
9.2.2.0-6	The Contractor must advise the TA when any changes to content are made to the EIE
9.2.3	9.2.3 Web-browser Based Access
9.2.3.0-1	The EIE must provide users with access to data, through the use of DND's standard Internet browser application.
9.2.4	9.2.4 EIE Access
9.2.4.0-1	The Contractor must provide and maintain user account management services to establish and administer user accounts for the EIE.
9.2.4.0-2	Access to the EIE must be controlled via the use of passwords, which will be managed by the Contractor.
9.2.4.0-3	The EIE must be accessible to Canada authorised users 24 hours a day, 7 days a week, excluding Contractor planned down time.
9.2.4.0-4	The EIE must provide access to the latest released technical data.
9.2.4.0-5	The EIE must allow a user to electronically access, transfer, and post an electronic copy of the specified information items, data or records.
9.2.5	9.2.5 Modifiability
9.2.5.0-1	The EIE must be capable of evolving through the addition of extended functionality via the use of Task Authorisations.
9.3	9.3 Engineering Support Services

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9.3.1	9.3.1 Requirements Management support
9.3.1.0-1	The Contractor must maintain the Canada provided TPS-UAPS RTVM (Volume 2 Annex CB Appendix 1).
9.3.1.0-2	The Contractor must continuously update the Canada provided RTVM such that it continuously reflects the state of the ISS realisation, verification and qualification state of the system.
9.3.1.0-3	The RTVM is a DOORS module. The Contractor must ensure that the updated RTVM is able to be imported into DOORS and retain all cross-references to all other associated DOORS modules.
9.3.1.0-4	The Contractor must make the RTVM available through EIE Services as per section 9.2 of this SOW.
9.3.2	9.3.2 Problem Reporting and Support Services
9.3.2.1	9.3.2.1 Problem Reporting and resolution
9.3.2.1.0-1	The Contractor must provide a problem reporting mechanism for all services provided under section 9 of this SOW.
9.3.2.1.0-2	The Contractor must resolve and track all problems to closure.

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APPENDIX 1 TO ANNEX CA TO VOLUME 2

TECHNICAL REVIEWS FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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1	1 Formal Technical Reviews
1.1	1.1 Scope
1.1.0-1	This Appendix applies to the technical reviews to be conducted during both System Qualification and Production phases of the Integrated Soldier System (ISS) Acquisition.
1.2	1.2 Purpose
1.2.0-1	This Appendix amplifies the Technical Review work requirements of the Acquisition Statement of Work (SOW) providing guidance on the expected general conduct of technical reviews and direction on specific technical reviews.
2	2 General Review Process
2.0-1	This section provides guidance on the expected conduct of Formal Technical Reviews. It is to be used by the Contractor in the preparation of the System Engineering Management Plan (SEMP).
2.1	2.1 Review initiation
2.1.0-1	The review is initiated by the Contractor in accordance with the Master Project Schedule (MPS) and Work Breakdown Structure (WBS) (CDRL PM-003).
2.2	2.2 Review preparation
2.2.0-1	The Contractor must ensure that Canada has the necessary technical data for the review, at least 10 working days before the scheduled Technical Review Meeting (TRM) is to take place.
2.2.0-2	The Contractor must prepare the TRM agenda (CDRL PM-005) for each technical review and audit, and transmit it to Canada before the meeting.
2.2.0-3	Technical review teams must be composed of personnel competent to cover all areas to be reviewed.
2.2.0-4	Canada must be given sufficient time to review the planned agenda and data package before the meeting.
2.2.0-5	The team must consist of the minimum number of personnel required to adequately cover all areas of the review so that excessive time is not spent on discussion.
2.2.0-6	A list of Canada authorized attendees will be provided to the Contractor prior to the meeting.

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2.2.0-7	The Contractor must ensure that all information items required for the technical review are made available though the Electronic Information Environment (EIE).
2.3	2.3 Review Conduct
2.3.0-1	The Contractor must initiate, prepare, conduct and close technical reviews in accordance with the technical review process documented in the accepted SEMP (CDRL SE-001).
2.3.1	2.3.1 Review chair
2.3.1.0-1	The Technical Authority (TA) and Contractor Senior Systems Engineer must act as co-chairmen of the technical reviews.
2.3.1.0-2	Only the designated co-chairmen have decision-making responsibilities, so they must be thoroughly familiar with all aspects of the project before the review convenes.
2.3.2	2.3.2 Review results
2.3.2.0-1	Decisions, agreements, and approved action items must be recorded in the Issues-Action Item Log (IAIL) (CDRL PM-007).
2.3.2.0-2	Both Chairs are to review and sign off on the entries to the IAIL at the end of each day during which a review is being conducted.
2.3.2.0-3	The IAIL entries must be annotated such that the entry can identify the technical review it is associated with.
2.3.2.0-4	The Contractor is to assign each Action Item (AI) to an appropriate individual, with a stipulated closure date for resolution.
2.3.2.0-5	After each formal technical review, the Contractor must prepare and submit the minutes of that review (CDRL PM-006).
2.4	2.4 Review Closure
2.4.0-1	The TA will notify the Contractor of the recommendation that will be provided to the Contracting Authority (CA) resulting from the review.
2.4.0-2	There can only be one of three TA recommendations to CA for a Technical Review:
2.4.0-2.0-1	○ Approval. The TA approves the Technical Review results and recommends the closure of the review.
2.4.0-2.0-2	○ Contingent approval. The TA approves the Technical Review results contingent on identified AIs or Issues registered in the IAIL (CDRL PM-007) are tracked to closure. These items will be identified in the TAs recommendation.

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2.4.0-2.0-3	<ul style="list-style-type: none"> ○ Rejection. The TA rejects the Technical Review results, and rework will be necessary on the part of the Contractor to resolve the major issues identified during the review. The Technical Review must be re-scheduled once the issues and AIs are resolved.
2.4.0-3	These recommendations will impact continued progress and/or milestone payments.
2.5	2.5 Applicable Plans
2.5.0-1	The Contractor must perform the management and administration activities in support of Technical Review work In Accordance With (IAW) the SEMP (CDRL SE-001) and the Project Management Plan (PMP) (CDRL PM-001).
2.5.0-2	The Contractor must perform Configuration Management (CM) to ensure integrity and availability of information IAW the Configuration Management Plan (CMP) (CDRL CM-001)
2.5.0-3	The Contractor must assure the quality of Technical Review work products and process IAW the Quality Assurance Plan (QAP) (CDRL PM-002).
2.6	2.6 Review support
2.6.0-1	The Contractor must ensure that:
2.6.0-1.0-1	<ul style="list-style-type: none"> ○ Facilities, equipment and personnel for the review are provided;
2.6.0-1.0-2	<ul style="list-style-type: none"> ○ EIE services are provided to ensure transfer of information to the TA, and availability, display and recording of information items, records and data during the review.
3	3 Technical Review Checklists
3.0-1	Each Formal Technical Review has a specific series of conditions and a specific purpose.
3.1	3.1 System Requirements Allocation Review (SRAR)
3.1.1	3.1.1 Purpose
3.1.1.0-1	The main purpose of the SRAR is to ensure a clear understanding of the requirements documented in Technical Performance Specification (TPS) and associated verification criteria.
3.1.2	3.1.2 Entrance criteria
3.1.2.0-1	<ul style="list-style-type: none"> ● Kick-off meeting for the System Qualification Phase must have been conducted to the satisfaction of Canada.

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3.1.3	3.1.3 Inputs
3.1.3.0-1	<ul style="list-style-type: none"> SRAR Agenda (CDRL PM-005).
3.1.3.0-2	<ul style="list-style-type: none"> Annex CB and all appendices.
3.1.3.0-3	<ul style="list-style-type: none"> Requirements Traceability and Verification Matrix (RTVM) view of the TPS
3.1.3.0-4	<ul style="list-style-type: none"> Draft Verification and Qualification Plan (VQP) (CDRL SE-004).
3.1.3.0-5	<ul style="list-style-type: none"> TA accepted Equipment Breakdown Structure (EBS) (CDRL CM-005).
3.1.3.0-6	<ul style="list-style-type: none"> MPS and WBS (CDRL PM-003).
3.1.3.0-7	<ul style="list-style-type: none"> SRAR members must have studied the submitted documentation and prepared observations, questions and comments.
3.1.4	3.1.4 Activity
3.1.4.0-1	Perform general conduct of Technical Review as per section 2 of this appendix.
3.1.4.0-2	The SRAR is to:
3.1.4.0-2.0-1	<ul style="list-style-type: none"> Review completeness and accuracy of the required technical documentation;
3.1.4.0-2.0-2	<ul style="list-style-type: none"> Ensure traceability of requirements from the contract specification to the contractor's solution and verification method;
3.1.4.0-2.0-3	<ul style="list-style-type: none"> Confirm the contractor's understanding of system external interfaces;
3.1.4.0-2.0-4	<ul style="list-style-type: none"> Summarize technical issues and resolutions;
3.1.4.0-2.0-5	<ul style="list-style-type: none"> Assess technical risk management program and approach - identify current technical risks;
3.1.4.0-2.0-6	<ul style="list-style-type: none"> Review VQP (CDRL SE-004) and schedule;
3.1.4.0-2.0-7	<ul style="list-style-type: none"> Identify constraints to project (technical, resources, personnel etc.);
3.1.4.0-2.0-8	<ul style="list-style-type: none"> Formulate recommendations for continuing work.
3.1.5	3.1.5 Outputs
3.1.5.0-1	<ul style="list-style-type: none"> SRAR Meeting Minutes (CDRL PM-006).
3.1.5.0-2	<ul style="list-style-type: none"> SRAR annotated IAIL entries (CDRL PM-007).

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3.1.5.0-3	<ul style="list-style-type: none"> Revised RTVM.
3.1.5.0-4	<ul style="list-style-type: none"> Revised VQP (CDRL SE-004).
3.1.6	3.1.6 Exit criteria
3.1.6.0-1	In order to obtain TA SRAR recommendation to the CA for approval or contingent approval the Contractor must:
3.1.6.0-2	Obtain the acceptance of the TA on the following:
3.1.6.0-2.0-1	<ul style="list-style-type: none"> IAIL SRAR entries tracked to closure;
3.1.6.0-2.0-2	<ul style="list-style-type: none"> SRAR Minutes.
3.1.6.0-3	Obtain approval of:
3.1.6.0-3.0-1	<ul style="list-style-type: none"> Revised RTVM;
3.1.6.0-3.0-2	<ul style="list-style-type: none"> Revised VQP.
3.1.6.0-4	Obtain acceptance of:
3.1.6.0-4.0-1	<ul style="list-style-type: none"> Revised EBS
3.1.7	3.1.7 Outcome
3.1.7.0-1	<ul style="list-style-type: none"> Functional Baseline (FBL) is established by CM.
3.1.7.0-2	<ul style="list-style-type: none"> Allocated Baseline (ABL) is established by CM.
3.2	3.2 Test Readiness Review (TRR)
3.2.1	3.2.1 Purpose
3.2.1.0-1	Purpose of the TRR is to determine the readiness of the ISS and of the Contractor to perform the System Acceptance Test (SAT).
3.2.1.0-2	The Contractor must conduct a TRR prior to conducting SAT.
3.2.2	3.2.2 Entrance Criteria
3.2.2.0-1	<ul style="list-style-type: none"> The ISS and ISS system elements must have been qualified and verified IAW the approved VQP (CDRL SE-004) and their respective approved Qualification and Test Description and Procedures (QTDP)s (CDRL SE-005).

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3.2.2.0-2	<ul style="list-style-type: none"> The ISS must have passed Canada conducted Radio Frequency Radiation Hazard (RADHAZ) and Hazard of Electromagnetic Radiation to Ordnance (HERO) verification.
3.2.2.0-3	<ul style="list-style-type: none"> All SAT facilities, personnel, equipment and infrastructure must be ready.
3.2.2.0-4	<ul style="list-style-type: none"> ISS P(SAT) systems must be produced.
3.2.2.0-5	<ul style="list-style-type: none"> Approved SAT Plan (CDRL SE-007)
3.2.2.0-6	<ul style="list-style-type: none"> Approved SAT Descriptions and Procedures (SATDP) (CDRL SE-008).
3.2.3	3.2.3 Inputs
3.2.3.0-1	<ul style="list-style-type: none"> TA Approved Verification Qualification (VQ) Test Reports (CDRL SE-006).
3.2.3.0-2	<ul style="list-style-type: none"> TA Approved QTDPs (CDRL SE-005).
3.2.3.0-3	<ul style="list-style-type: none"> TA Approved SAT Plan (CDRL SE-007)
3.2.3.0-4	<ul style="list-style-type: none"> TA Approved SATDP (CDRL SE-008).
3.2.3.0-5	<ul style="list-style-type: none"> TA Approved Engineering Change Proposals (ECPs) (CDRL CM-002) since SRAR.
3.2.3.0-6	<ul style="list-style-type: none"> Contractor Configuration Status Accounting (CSA) Report (CDRL CM-008).
3.2.3.0-7	<ul style="list-style-type: none"> TA accepted EBS (CDRL CM-005).
3.2.3.0-8	<ul style="list-style-type: none"> IAIL (CDRL PM-007).
3.2.3.0-9	<ul style="list-style-type: none"> MPS and WBS (CDRL PM-003).
3.2.3.0-10	<ul style="list-style-type: none"> Quality Assurance (QA) certification of Contractor TRR readiness IAW the QAP (CDRL PM-002).
3.2.3.0-11	<ul style="list-style-type: none"> If available, Integration Verification and Validation (IV&V) Agent report and QAR report.
3.2.3.0-12	<ul style="list-style-type: none"> Revised RTVM View - Annex CB Appendix 1.
3.2.3.0-13	<ul style="list-style-type: none"> Approved VQP (CDRL SE-004).
3.2.3.0-14	<ul style="list-style-type: none"> SAT facility, equipment and infrastructure readiness status IAW the SAT Plan.
3.2.3.0-15	<ul style="list-style-type: none"> Results of Contractor SAT dry-run tests.

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3.2.3.0-16	<ul style="list-style-type: none"> Government Property Reports (CDRL PM-010).
3.2.3.0-17	<ul style="list-style-type: none"> TRR members must have studied the submitted documentation and prepared observations, questions and comments.
3.2.4	3.2.4 Activities
3.2.4.0-1	Perform general conduct of Technical Review as per section 2 of this appendix:
3.2.4.0-2	The TRR is to:
3.2.4.0-2.0-1	<ul style="list-style-type: none"> Review completeness and accuracy of the required technical documentation;
3.2.4.0-2.0-2	<ul style="list-style-type: none"> Ensure traceability of requirements from the contract specification to the allocated baseline specification(s) to the verification and qualification plans and QTDPs;
3.2.4.0-2.0-3	<ul style="list-style-type: none"> Summarize technical issues and resolutions of the IAIL;
3.2.4.0-2.0-4	<ul style="list-style-type: none"> Assess risk management program and approach - identify current technical risks;
3.2.4.0-2.0-5	<ul style="list-style-type: none"> Review VQP and schedule;
3.2.4.0-2.0-6	<ul style="list-style-type: none"> Review SAT Plan;
3.2.4.0-2.0-7	<ul style="list-style-type: none"> Review SATDP;
3.2.4.0-2.0-8	<ul style="list-style-type: none"> Identify constraints to SAT (technical, resources, personnel etc.).
3.2.5	3.2.5 Outputs
3.2.5.0-1	<ul style="list-style-type: none"> TRR Meeting Minutes (CDRL PM-006).
3.2.5.0-2	<ul style="list-style-type: none"> TRR annotated IAIL entries (CDRL PM-007).
3.2.5.0-3	<ul style="list-style-type: none"> Reviewed SAT Plan (CDRL SE-007)
3.2.5.0-4	<ul style="list-style-type: none"> Reviewed SATDP (CDRL SE-008).
3.2.5.0-5	<ul style="list-style-type: none"> QA Certification accepted.
3.2.6	3.2.6 Exit Criteria
3.2.6.0-1	In order to obtain TA TRR recommendation to the CA for approval or contingent approval the Contractor must:
3.2.6.0-2	Obtain approval of:

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3.2.6.0-2.0-1	○ Revised RTVM;
3.2.6.0-2.0-2	○ Revised SAT Plan (CDRL SE-007);
3.2.6.0-2.0-3	○ Revised SATDP (CDRL SE-008).
3.2.6.0-2.0-4	○ All VQ Test Reports (CDRL SE-006).
3.2.6.0-3	Obtain TA acceptance of the following:
3.2.6.0-3.0-1	○ Revised MPS and WBS (CDRL PM-003);
3.2.6.0-3.0-2	○ TRR Meeting Minutes (CDRL PM-006);
3.2.6.0-3.0-3	○ TRR annotated IAIL entries (CDRL PM-007);
3.2.6.0-3.0-4	○ Contractor SAT dry-run results;
3.2.6.0-3.0-5	○ QA Certification accepted.
3.3	3.3 Formal Qualification Review (FQR)
3.3.1	3.3.1 Purpose
3.3.1.0-1	FQR verifies that the ISS has completed the VQ activities to prove its full compliance with the TPS.
3.3.1.0-2	Upon completion of SAT the Contractor must conduct an FQR.
3.3.2	3.3.2 Entrance Criteria
3.3.2.0-1	● SAT completed.
3.3.2.0-2	● QA Certification that VQ program completed.
3.3.2.0-3	● Functional Configuration Audit (FCA) complete.
3.3.2.0-4	● QA Certification that FCA complete.
3.3.2.0-5	● Physical Configuration Audit (PCA) complete.
3.3.2.0-6	● Draft Environmental Health Safety Assessment (EHSA) (CDRL PM-008)
3.3.3	3.3.3 Inputs
3.3.3.0-1	● FQR Meeting Agenda (CDRL PM-005).

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3.3.3.0-2	<ul style="list-style-type: none"> SAT Report (CDRL SE-009).
3.3.3.0-3	<ul style="list-style-type: none"> Revised RTVM.
3.3.3.0-4	<ul style="list-style-type: none"> SAT IAIL entries (CDRL PM-007).
3.3.3.0-5	<ul style="list-style-type: none"> TA Accepted EBS (CDRL CM-005).
3.3.3.0-6	<ul style="list-style-type: none"> P(SAT) Configuration information.
3.3.3.0-7	<ul style="list-style-type: none"> P(SAT) ISS-S configured systems.
3.3.3.0-8	<ul style="list-style-type: none"> SAT Meeting Minutes (if conducted) (CDRL PM-006).
3.3.3.0-9	<ul style="list-style-type: none"> MPS and WBS (CDRL PM-003).
3.3.3.0-10	<ul style="list-style-type: none"> FCA Results (CDRL CM-010).
3.3.3.0-11	<ul style="list-style-type: none"> FCA Issues and IAIL entries (CDRL PM-007).
3.3.3.0-12	<ul style="list-style-type: none"> PCA results (CDRL CM-010).
3.3.3.0-13	<ul style="list-style-type: none"> PCA Issues and IAIL entries (CDRL PM-007).
3.3.4	3.3.4 Activities
3.3.4.0-1	Perform general conduct of Technical Review as per section 2 of this appendix.
3.3.4.0-2	Analyse and review:
3.3.4.0-2.0-1	<ul style="list-style-type: none"> VQ Test Reports (CDRL SE-006);
3.3.4.0-2.0-2	<ul style="list-style-type: none"> The SAT Reports (CDRL SE-009);
3.3.4.0-2.0-3	<ul style="list-style-type: none"> SAT IAIL entries (CDRL PM-007) and resolution;
3.3.4.0-2.0-4	<ul style="list-style-type: none"> TA Accepted EBS (CDRL CM-005);
3.3.4.0-2.0-5	<ul style="list-style-type: none"> FCA and PCA Configuration Audit Reports (CDRL CM-010).
3.3.5	3.3.5 Output
3.3.5.0-1	<ul style="list-style-type: none"> FQR Meeting minutes (CDRL PM-006).
3.3.5.0-2	<ul style="list-style-type: none"> FQR IAIL entries (CDRL PM-007).

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3.3.6	3.3.6 Exit Criteria
3.3.6.0-1	In order to obtain the TA recommendation to the CA for FQR approval or contingent approval, the Contractor must:
3.3.6.0-2	Obtain TA recommendation to CA accepted or conditional acceptance on the following:
3.3.6.0-2.0-1	○ Approved SAT Report (CDRL SE-009);
3.3.6.0-2.0-2	○ SAT IAIL entries (CDRL PM-007);
3.3.6.0-2.0-3	○ FCA and PCA Configuration Audit Report (CDRL CM-010).
3.3.6.0-3	The Contractor must complete tracked FQR IAIL entries to closure.
3.3.7	3.3.7 Outcome
3.3.7.0-1	The P(Prod) Product Baseline (PBL) and Production Information established by CM.
3.4	3.4 Production Readiness Review (PRR)
3.4.1	3.4.1 Purpose
3.4.1.0-1	This review examines the Production configuration information, plans and schedules from the standpoint of producibility of the system.
3.4.2	3.4.2 Entrance Criteria
3.4.2.0-1	● Kick-off meeting for the Production Phase completed.
3.4.2.0-2	● Production Configuration Information.
3.4.2.0-3	● Production Plan (CDRL SE-010)
3.4.2.0-4	● QAP (CDRL PM-002)
3.4.3	3.4.3 Inputs
3.4.3.0-1	● PRR Meeting Agenda. (CDRL PM-005).
3.4.3.0-2	● Production Plan (CDRL SE-010)
3.4.3.0-3	● QAP (CDRL PM-002)
3.4.3.0-4	● Approved Major Cat 1 ECPs (CDRL CM-002).

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3.4.3.0-5	<ul style="list-style-type: none"> • MPS and WBS (CDRL PM-003)
3.4.3.0-6	<ul style="list-style-type: none"> • IAIL (CDRL PM-007)
3.4.4	3.4.4 Activity
3.4.4.0-1	Perform general conduct of Technical Review as per section 2 of this appendix.
3.4.4.0-2	Examine the ISS production:
3.4.4.0-2.0-1	<ul style="list-style-type: none"> ○ planning documentation;
3.4.4.0-2.0-2	<ul style="list-style-type: none"> ○ existing and planned facilities;
3.4.4.0-2.0-3	<ul style="list-style-type: none"> ○ tooling and test equipment;
3.4.4.0-2.0-4	<ul style="list-style-type: none"> ○ manufacturing methods and controls;
3.4.4.0-2.0-5	<ul style="list-style-type: none"> ○ material and manpower resources;
3.4.4.0-2.0-6	<ul style="list-style-type: none"> ○ production engineering;
3.4.4.0-2.0-7	<ul style="list-style-type: none"> ○ quality control and assurance provisions - revision of the QAP (CDRL PM-002) to address Contractor proposed pre-production and production Quality Control Process.
3.4.4.0-2.0-8	<ul style="list-style-type: none"> ○ production management organization.
3.4.4.0-2.0-9	<ul style="list-style-type: none"> ○ controls over major subcontractors.
3.4.4.0-2.0-10	<ul style="list-style-type: none"> ○ completed PRR checklist.
3.4.5	3.4.5 Output
3.4.5.0-1	<ul style="list-style-type: none"> • PRR Minutes. (CDRL PM-006)
3.4.5.0-2	<ul style="list-style-type: none"> • PRR IAIL entries. (CDRL PM-007)
3.4.5.0-3	<ul style="list-style-type: none"> • Accepted Production Plan (CDRL SE-010)
3.4.5.0-4	<ul style="list-style-type: none"> • Revised QAP (CDRL PM-002)
3.4.6	3.4.6 Exit Criteria
3.4.6.0-1	In order to obtain TA PRR recommendation to the CA for approval or contingent approval the Contractor must:

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3.4.6.0-2	<ul style="list-style-type: none"> • Obtain TA recommendation of acceptance or conditional acceptance of the PRR
3.4.6.0-3	<ul style="list-style-type: none"> • Obtain TA Acceptance of:
3.4.6.0-3.0-1	<ul style="list-style-type: none"> <ul style="list-style-type: none"> ○ Production Plan (CDRL SE-010);
3.4.6.0-3.0-2	<ul style="list-style-type: none"> <ul style="list-style-type: none"> ○ QAP (CDRL PM-002).

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APPENDIX 2 TO ANNEX CA TO VOLUME 2

SUPPORT CONCEPT FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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1	1 INTRODUCTION
1.1	1.1 Purpose
1.1.0-1	This document describes the overall Support Concept for the Integrated Soldier System (ISS). The purpose of the Support Concept is to:
1.1.0-1.0-1	Provide the Contractor with a document to be used in the development of the Integrated Logistics Support (ILS) Program; and,
1.1.0-1.0-2	Provide Department of National Defence (DND) stakeholders with a consolidated view of how the ISS will be used and supported through its lifecycle. During the in service life of the ISS, the Support Concept will be used by the Equipment Management Team (EMT) to implement DND support plans.
1.2	1.2 Scope
1.2.0-1	This document is intended to describe the overall concept for fielding and supporting the ISS in service. It provides information regarding mission cycles, projected usage and DND's internal support processes and programs.
1.3	1.3 Deployable Weapons System
1.3.0-1	The ISS is designated as a Deployable Weapons System. A Deployable Weapons System is defined as a platform that is intended to be operated and maintained in a threat environment. A threat environment is defined as a location where there is <u>heightened</u> risk of injury or death to personnel due to enemy action. Therefore the support system is aimed at ensuring <u>maximum</u> operational availability.
1.3.0-2	To ensure maximum operational availability, DND will:
1.3.0-2.0-1	○ <u>maintain</u> an in-house maintenance and support capability;
1.3.0-2.0-2	○ <u>control</u> Supply support activities between Canada and theatre of operations;
1.3.0-2.0-3	○ <u>conduct</u> support activities required for Force Generation (i.e. support to pre-deployment training, operator and maintenance training);
1.3.0-2.0-4	○ <u>retain</u> Technical Authority (TA); (Design Authority will rest with the Prime Contractor);
1.3.0-2.0-5	○ <u>maintain</u> a stock of ready-use spares (operational and maintenance stocks);
1.3.0-2.0-6	○ <u>conduct</u> Operational training;

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1.3.0-2.0-7	○ <u>provide</u> Operational advice; and
1.3.0-2.0-8	○ <u>reserve</u> the right to conduct other activities for cause.
1.4	1.4 Initial Operational Capability (IOC)
1.4.0-1	A significant milestone for ISS is the declaration of Initial Operational Capability (IOC). This state will be achieved when the first Mission Specific TF (MSTF) equipped with ISS has been declared operationally ready for deployment.
1.4.0-2	IOC is the culmination of the fielding and training activities of the ISS and means the TF is ready for operational deployment. To achieve IOC, the designated Task Force (TF) will have completed both Individual and Collective Training, all ILS will have been delivered, and the in-service support system will be fully established in order to ensure the sustainment of the TF.
1.5	1.5 Mission Cycles
1.5.0-1	The following describes the projected mission cycle for ISS. A typical deployment will undergo a Pre-deployment Training Cycle of six (6) months. This would be followed by an operational mission totalling six (6) months of continuous operations i.e. “Battlefield Days (BDs)” while on a MSTF Deployment. This would be followed by a Reconstitution Cycle consisting of three (3) months reconstitution and three (3) months DND storage/limited use.
1.5.0-2	The Pre-deployment Training Cycle is divided into two three (3) month segments based on the level of intensity of the training. In the first Cycle, the level of intensity will be low, with the ISS primarily being used in a classroom and short training exercise settings. Typical system usage will be up to eight (8) operating hours per day, five (5) days per week. In the second Cycle, activity will increase from medium to high intensity training with system usage simulating that of the MSTF Deployment BD operating up to twenty four (24) hours per day, seven (7) days per week. The training exercises of this second segment can be expected to expose the ISS to all the environmental conditions and operating modes of a MSTF deployment.
1.5.0-3	The MSTF Deployment Cycle consists of one hundred and eighty (180) consecutive BDs. During this cycle the ISS will be employed world-wide across the North Atlantic Treaty Organization (NATO) defined climatic zones of C0 to C2, A1 to A3, B1 to B3 and M1 to M3 (as per NATO Standardization Agreement (STANAG) 2895 Edition 1) and operating environments of desert, jungle, mountain, tundra, arctic and high urban density terrain.
1.5.0-4	The Reconstitution cycle consists of two three (3) month segments, where the first segment includes the withdrawal of the ISS back from the MSTF (possibly directly from the Deployment theatre of operations), necessary repairs completed and return to DND Depot storage of the system. The second segment would include upkeep of the ISS and

preparation for reissue.

1.5.0-5

These Mission Cycles are summarized in Table 1 below.

1.5.0-6

Mission Cycle	Operational Intensity	Duration (months)	Usage	Total System Operating Time (hrs)	Relative Life Usage
Pre-deployment Training - Segment 1	Low/Medium	3	6 weeks Low 7 weeks Medium	400	7 %
Pre-deployment Training - Segment 2	Medium/High	3	7 weeks Medium 6 weeks High	1,204	22 %
MSTF Deployment	Medium/High	6	4 weeks Medium 22 weeks High	3,548	66 %
Reconstitution - Segment 1	Not Employed	3	None	0	0 %
Reconstitution - Segment 2	Low	3	13 weeks Low	260	5 %
Total Times		18		5,412	

Table 1 ISS Usage Profile by Mission Cycle

1.5.0-7

The ISS will be expected to perform five (5) of these combined cycles (Pre-deployment Training / MSTF Deployment / Reconstitution) in consecutive order throughout its life. Thus, the expected Service Life of the ISS will be will be 90 months (7.5 years) accumulating an expected 27,060 system operating hours.

1.6

1.6 Overall Support Concept

1.6.0-1

Since ISS is an operationally focused capability, the Concept of Support will aim to ensure maximum operational availability. Maximizing operational availability has guided the establishment of reliability parameters, which will influence the allocation of maintenance tasks, repair parts, and allocation of spares within the MSTF. The designation as a Deployable Weapons Systems will also guide the assignment of support tasks between the Canadian Forces (CF) and the Original Equipment Integrator (OEI)/Original Equipment Manufacturers (OEMs). Once fielded, overall Life Cycle management will be provided by Director General Land Equipment Program Management (DGLPEM)/Director Soldier Systems Program Management (DSSPM) at National Defence Headquarters (NDHQ). The OEI will support DSSPM by providing ongoing Optimized Weapons System Support (OWSS) throughout the life of the system. Support concepts will adhere to the fundamentals and levels of Combat Service Support (CSS) as detailed in the Land Force Sustainment doctrine and the principles of the EMT structure

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	of the Land Equipment Management System (LEMS).
2	2 FIELDING
2.1	2.1 Deployed MSTFs
2.1.0-1	Since ISS is intended to be used primarily by operationally deployable MSTFs, its introduction into service will be somewhat unique.
2.2	2.2 MSTF Based Distribution
2.2.0-1	ISS is intended to be used primarily by MSTF deployed outside Canada on Operations. As such, ISS will be issued to a MSTF only after it has been designated for operations or operational standby. It is not intended to be issued to the institutional Army. There will be a requirement to 'train up' to operational status before deployment. This is achieved through the Army Managed Readiness cycle.
2.3	2.3 Army Managed Readiness Cycle
2.3.0-1	The Army follows a formal structured process to ensure that units know they are selected well in advance as stand-by Forces (to be prepared for deployment) or for a known mission (Rotation). The introduction of ISS equipment will be based on the Army Managed Readiness Plan in place at the time of Project Implementation.
2.3.0-2	The Managed Readiness cycle has Army units undergo a three-phase cycle of readiness and employment every three years. The phases are: training, high readiness/operations, and reconstitution/support. It is expected that individual qualification training (initial training up to individual skill level on ISS) and collective training (collective training at the Team and Platoon level within a Company context) will take place during the training phase.
2.3.0-3	The initial fielding of ISS will enable the first designated MSTF to commence its 'pre-rotation' training cycle. As it becomes ready to deploy, the second MSTF will be issued ISS, and so on. As the current 'cycle' spans a six month period, ISS may take at least a year before becoming fully fielded.
2.4	2.4 MSTF Composition
2.4.0-1	A MSTF will be based on a Land Force Infantry unit, augmented by other Combat Arms, Combat Support and CSS. Total deployed systems will be 628 ISS per MSTF.
2.5	2.5 Centers of Excellence (CoE)
2.5.1	2.5.1 Operators
2.5.1.0-1	Since the major user of the ISS will be the Infantry, the Infantry School at the Combat

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	Training Center (CTC), CF (CF) Base Gagetown, has been designated as the Center of Excellence (CoE) for operational training. They will attend the Contractor delivered Pilot Initial Cadre Training (ICT) for the Operator Instructors and System Management Instructors.
2.5.2	2.5.2 Maintainers
2.5.2.0-1	Since technical support for Systems Management and electronic maintenance for the ISS will be provided by Signals Operators and Land Communications and Information Systems (LCIS) Technicians, the CF School of Communications and Electronics at CF Base (CFSCE) Kingston will be the primary CoE for support. They will attend the Contractor delivered Pilot ICT for the System Management Instructors and Maintenance Instructors.
2.6	2.6 Delivery of ISS
2.6.0-1	The delivery of production ISS will be by Batch Lots to the CF Supply Depot (CFSD). ISS systems, including all necessary support, will be issued from the Depot to the supporting Area/Base once a TF has been designated. The use of Batch Lots is aimed to ensure that all production components for a complete TF have been received by DND prior to a fielding decision. This will ensure the Army Managed Readiness Cycle commences only once all essential elements have been received.
2.7	2.7 Initial Training Batches
2.7.0-1	First deliveries will consist of the: Initial Training Batch (1) - the ISS systems designated for the CoEs at CTC Gagetown and CFSCE Kingston, and Initial Training Batch (2) - a quantity of operational and logistics spare systems. The issue of Training Batch systems to CoEs will be timed with the completion of ICT.
2.8	2.8 MSTF Batches
2.8.0-1	The next deliveries will be by TF Batches. The first MSTF Batch will enable the selection, through the Army Managed Readiness Plan, of the initial designated MSTF. Deliveries from the Depot will be timed with the completion of ICT.
2.9	2.9 Reconstitution
2.9.0-1	Once a MSTF has completed its operational deployment and enters its reconstitution phase, ISS will be withdrawn from the units and personnel involved. At this time, under the OWSS contract, the ISS would undergo serviceability verification, a resulting repair cycle, and be returned to DND storage until needed.
3	3 SUPPLY SUPPORT CONCEPT
3.1	3.1 Overall Concept

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3.1.0-1	As this is an operational system, the overall Supply Concept will be to support the ISS in operations and pre-deployment training through an assured inventory, effective response, and efficient inventory management of primary systems, Line Replaceable Units (LRU), and repair parts. The acquisition phase will acquire the essential contractor delivered data that will be used for the establishment of inventories, allocations, and controls based on the delivered Equipment Breakdown Structure (EBS), approved spares and repair parts, tools and test equipment and associated consumable items. This will be based on the initial data provided by the Contractor, with subsequent Project Activities such as the Logistics Support Analysis (LSA) and Initial Provisioning Conference (IPC).
3.1.0-2	A critical component will be sustainment. The project must ensure that all support required for the Army Managed Readiness Cycle initial training phase and follow-on deployment is in place in a timely manner. All equipment, spares, tools and test equipment must be in place to support fielding and on going in service support.
3.2	3.2 Cataloguing
3.2.0-1	The ISS will be catalogued into the Defence Management System, which will support the EMT and the Contractor's in service support processes. The final EBS, spares, repair parts and unique consumables, along with all necessary data that indicates accountability: grouping of systems/sub-systems, control/authorized access, allocations, Reparability (RPY) codes, safety data, and need to be recorded in the system.
3.3	3.3 IT Systems/Supply Accounting Systems
3.3.0-1	Within the Defense Management System, the CF Supply System (CFSS) controls and manages supply materiel for the DND. The CFSS application includes interfacing with other DND applications, reports, tools, objects, and supporting databases. Each application automates CF business transactions and eliminates manual management of CF supply materiel. The CFSS interfaces with:
3.3.0-1.0-1	○ Defence Resource Management Information System (DRMIS);
3.3.0-1.0-2	○ National Materiel Distribution System (NMDS); and
3.3.0-1.0-3	○ Tactical Asset Configuration Information System (TACIS).
3.4	3.4 CFSS Accountability
3.4.0-1	Within the CFSS, it will be necessary to establish an appropriate level of accountability for each item. This will be based on its initial acquisition cost, assigned RPY level (as determined by the repair analysis) and need for asset tracking (serial number control), and attractiveness. An initial rule is that an item is to be classified as accountable if the item is over \$1000; or is a critical repairable asset; or is considered to be an attractive item. Items that do not meet these requirements should be considered as consumables in

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	DRMIS/CFSS. This level of accountability will be established following completion of the maintenance and logistics supportability analysis phase.
3.5	3.5 Reparability (RPY) Codes
3.5.0-1	RPY codes will be assigned to each NATO Stock Number (NSN) during the cataloguing process. These are assigned based on what level of repair is assigned to each component. Example: RPY B (Third Line Only - Contractor) will likely be assigned to all major components.
3.6	3.6 DRMIS/CFSS Controls
3.6.0-1	All ISS catalogued NSNs will be coded in DRMIS/CFSS so that they can not be issued from the contractor or the depot without authorization from the Life Cycle Material Manager (LCMM) and/or Supply Manager. This is an internal control indicating that all inventory is under NDHQ control.
3.7	3.7 Inventory Tracking
3.7.0-1	ISS Inventories at Third Line (Depot/Contractor) and all CF Units will be tracked in the CFSS.
3.7.0-2	For Configuration Management (CM) of ISS, serial tracking of major components will be required. On operations, it is essential to ensure that the same version of ISS components and software are deployed and visible to the support system. This will be done through TACIS at all levels of maintenance. In the future, TACIS may be incorporated into DRMIS. Due to its operational importance, ISS may need an even higher level of tracking to manage operational stocks. In this case the ISS may be designated in the CFSS as a weapons system and become designated as a “Serial Tracked” system.
3.7.0-3	Bar coding for unique item identification and tracking is required In Accordance With (IAW) STANAG 2290 Edition 2. The addition of bar codes to ISS components will support inventory management and tracking at all levels of the supply chain.
3.8	3.8 Equipment Check Lists (ECL)
3.8.0-1	An ECL is an assemblage of related items of supply, which are brought together to permit them to be issued and accounted for under a single stock code. The ISS ECL will encompass specific primary components and where applicable some specialized components will be listed on the ECL but will be separately demandable.
3.9	3.9 DND Inventory
3.9.0-1	DND is required to hold in Canada an operational reserve of sufficient Weapons System spare parts to sustain at least 30 days of high-intensity operations. Minimum warehouse levels will be established to meet this requirement.

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3.9.0-2	It is expected that an additional 60 days spares will be held in theatre by the National Support Element (NSE). The mix of spare operational systems and Line Replaceable/Repairable units will depend on the operational posture adopted for dispersed operations and the repair policy adopted following the maintenance and logistics supportability analysis phase.
3.10	3.10 Centralized Holdings
3.10.0-1	Until a MSTF is designated for deployment the ISS will be held by either 25 CFSD Montreal and/or at 7 CFSD Edmonton. This will facilitate resupply of MSTF Units during pre-deployment and replenishment of MSTF Operational Stock in theatre. The ISS will only be issued to a MSTF upon direction of NDHQ.
3.11	3.11 Resupply to CF Units
3.11.0-1	During pre-deployment, ISS components which have been deemed Beyond Local Repair (BLR) will be returned to the Supply System for return to the Contactor for repair or disposal. Normal process will be to hold repairable items until an economical shipment level is reached.
3.11.0-2	While deployed, BLR items will be exchanged one for one at the NSE in Theatre from Operational stock holdings. Once minimum stock levels have been established, stocks will be automatically replenished through the CFSS from depot stock.
3.12	3.12 Contractor Accounts
3.12.0-1	An Repairable Material Request (RMA) is an account in the CFSS for the accounting of DND owned equipment that is issued / held by a Contractor, either as stock or for repair. DND will establish an RMA in the CFSS/DRMIS. This will enable the free flow of equipment and inventory tracking of repairable components between DND and the Contractor.
3.13	3.13 Repatriation of ISS
3.13.0-1	Once a MSTF has been withdrawn from operations, it is likely that all ISS will be turned in by TF personnel at an Intermediate Staging Base or Designated Rest Area. Given the high operational tempo, limited number of systems, and shipping time from a theatre, it may be necessary to ship bulk ISS directly to the Contractor to facilitate Repair and Overhaul (R&O) of systems.
4	4 MAINTENANCE SUPPORT CONCEPT
4.1	4.1 Support Principles
4.1.0-1	The concept of support will adhere to the fundamentals and levels of CSS as detailed in the Land Force Sustainment doctrine and IAW the principles of the LEMS. These will be

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	tailored as required to the sub-systems fielded and the approved Concept of Operations (CONOPS). Trained CSS personnel will be responsible to sustain the ISS for replenishment and maintenance during pre-deployment training and deployed operations.
4.1.0-2	The following principles apply to this maintenance concept:
4.1.0-2.0-1	<ul style="list-style-type: none"> Utilize engineering and maintenance design concepts to enable ISS to economically meet operational availability requirements by minimizing and simplifying maintenance without adversely impacting the required equipment reliability or operational capabilities. This will be accomplished by optimising the system availability through design (e.g. onboard diagnostics, redundancy, robust design, graceful degradation etc.);
4.1.0-2.0-2	<ul style="list-style-type: none"> Conduct maintenance activities, both by the operator and the maintainer, without the need for increasing the manpower establishment and minimized training;
4.1.0-2.0-3	<ul style="list-style-type: none"> Minimize the need to deploy additional special tools/support equipment, operational and support personnel and spares (systems, sub-systems (LRUs and repair parts (LoRUs); and
4.1.0-2.0-4	<ul style="list-style-type: none"> All major LRUs within the suites will be clearly identified for function and connectivity.
4.2	4.2 Support Guidelines
4.2.0-1	The maintenance concept is based upon the following elements:
4.2.0-1.0-1	<ul style="list-style-type: none"> While operators will be required to perform preliminary inspections and defined User Maintenance tasks (including authorized LRU removal and replacement), only skilled maintenance personnel will perform authorized repairs (LRU/LoRU);
4.2.0-1.0-2	<ul style="list-style-type: none"> At the MSTF level, First and Second Line maintenance of the ISS Command, Control, Communications, Computers and Intelligence (C4I) equipment and components and the system CM of the ISS will be conducted by the Signals Operations and Maintenance personnel. In addition to maintenance, this activity will include configuring the system, network management and other related System Management functions;
4.2.0-1.0-3	<ul style="list-style-type: none"> In principle, when repairs or reconfigurations are needed, they will be done as far forward in the maintenance chain as practicable;
4.2.0-1.0-4	<ul style="list-style-type: none"> LCIS and ISS Operators and System Managers will perform all assigned ISS Operators, First Line and Second Line maintenance functions. In view of the facts that the ISS is anticipated to have built in diagnostics and enhanced reliability, it is anticipated that no additional manpower resources or special skills will be required by the CF to support the ISS;

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4.2.0-1.0-5	<ul style="list-style-type: none"> ○ Material Technicians are responsible for the Load Carriage equipment;
4.2.0-1.0-6	<ul style="list-style-type: none"> ○ Notwithstanding the references to the traditional use of Three Lines of Maintenance used throughout, the Contractor's recommended preventive and corrective maintenance actions and servicing procedures, based on the Supportability Analysis will be used as the basis for maintenance activities and their assignment to the most appropriate Lines of Maintenance. In effect, the Contractor's Maintenance Plan may not require Second Line maintenance tasks. Note that the Contractor, as the OEI for the ISS System, will need to integrate the manufacturer's component maintenance requirements or plans into the ISS System Maintenance Plan. Once approved, the Contractor will develop the initial sparing plan for the lines of maintenance;
4.2.0-1.0-7	<ul style="list-style-type: none"> ○ The Corrective Maintenance Program is based on an economical Level of Repair Analysis (LORA), which places emphasis on "repair by replacement" and a sound preventive maintenance program. This will enable the completion of authorized repairs as rapidly and economically as possible. Maintenance induced failures should be minimized;
4.2.0-1.0-8	<ul style="list-style-type: none"> ○ Owing to the expected high level of integration of the components (Field Programmable Gated Arrays, Application Specific Integrated Circuits etc) and possible security issues, it is not expected that attempts will be made to change components on boards or within sealed units. Field Maintenance will consist of the removal and replacement of damaged, worn or otherwise unserviceable components (LRU replacement and authorized LoRU repair);
4.2.0-1.0-9	<ul style="list-style-type: none"> ○ For more complex items, such as radios and computer, LRU replacement "in-the-field" is the preferred approach with the equipment being sent directly to the Third Line support (Contractor) for repair; and
4.2.0-1.0-10	<ul style="list-style-type: none"> ○ Where practical, Third Line maintenance tasks and activities will be performed by the Contractor and managed through DSSPM. The Contractor will confirm faults found, particularly in the area of software and related hardware malfunctions (i.e. printed circuit boards) and performing Quality Assurance (QA) functions.
5	5 SUPPORT FOR OPERATIONS
5.1	5.1 Maintenance Types and Lines
5.1.0-1	The following sub-paragraphs identify the Maintenance Unit types as well as sample maintenance activities and the personnel responsible for performing these activities.
5.1.1	5.1.1 First Line Maintenance
5.1.1.0-1	The Operators and the Technicians, employed within the operational units, will perform

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	Operator and First Line maintenance activities respectively.
5.1.1.0-1.0-1	<u>Operator Maintenance</u> , which should take on average 15 minutes/day less power regeneration and includes the following activities:
5.1.1.0-1.0-1.0-1	<ul style="list-style-type: none"> Non technical pre-operational inspection and checks. System Managers will generate mission plans for download by the operator;
5.1.1.0-1.0-1.0-2	<ul style="list-style-type: none"> Scheduled Servicing, power regeneration, cleaning and preventative maintenance operations based on Contractor's instructions to ensure operational readiness of the equipment;
5.1.1.0-1.0-1.0-3	<ul style="list-style-type: none"> Performance of Built in Test (BIT) as required;
5.1.1.0-1.0-1.0-4	<ul style="list-style-type: none"> Remove and replace of LRU, Ancillary Equipment and batteries as authorized;
5.1.1.0-1.0-1.0-5	<ul style="list-style-type: none"> Reporting of system failures and usage information to maintenance personnel;
5.1.1.0-1.0-1.0-6	<ul style="list-style-type: none"> Additional activities as agreed to by the Contractor and DND.
5.1.1.0-1.0-2	<u>Technician Functions</u> - First Line Maintenance activities, as recommended by the Contractor and agreed to by DND, usually taking up to one (1) hour, will be performed by integral First Line Maintenance personnel. For example:
5.1.1.0-1.0-2.0-1	<ul style="list-style-type: none"> Maintaining stocks of spares and repair parts required for operation, servicing and maintenance;
5.1.1.0-1.0-2.0-2	<ul style="list-style-type: none"> Maintenance of power sub-systems (i.e. battery chargers);
5.1.1.0-1.0-2.0-3	<ul style="list-style-type: none"> Maintenance of Electro-optical sub-systems (i.e. Night Vision Goggles; micro-Unmanned Air Vehicles; acquired weapons sensors; and their interfaces);
5.1.1.0-1.0-2.0-4	<ul style="list-style-type: none"> Reconditioning/minor repair of textile components (i.e. vests, pouches);
5.1.1.0-1.0-2.0-5	<ul style="list-style-type: none"> Operation and maintenance of Special Tools and Test Equipment (STTE), such as BIT equipment, as required;
5.1.1.0-1.0-2.0-6	<ul style="list-style-type: none"> Confirming faults found by the operator and, for unidentified failures, finding and isolating faults;
5.1.1.0-1.0-2.0-7	<ul style="list-style-type: none"> Removal, replacement and repair of faulty LRU/LoRU, as authorized. Note: Technicians will require system management training to the level necessary to confirm repairs and network functionality;
5.1.1.0-1.0-2.0-8	<ul style="list-style-type: none"> Calibration of equipment and reprogramming software and firmware;

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5.1.1.0-1.0-2.0-9	○ Performance of limited repairs to LRU/LoRU, as authorized;
5.1.1.0-1.0-2.0-10	○ Reconditioning of spares, as authorized; and
5.1.1.0-1.0-2.0-11	○ Recording of maintenance data and real time use information.
5.1.1.0-1.0-3	Normal maintenance activity will be to back load the faulty equipment or LRU to a 2nd Line maintenance organization. Second Line Maintenance activities, as recommended by the Contractor and agreed to by DND, usually taking up to two (2) hours, will be performed by 2nd Line Maintenance personnel. If within the MSTF capability, all authorized repairs will be conducted as far forward as possible.
5.1.1.0-1.0-4	<u>Electronic fault diagnostics</u> - The fault diagnostics capability of the ISS may be facilitated by the use of BIT Equipment. Preferably, a system failure would indicate the faulty LRU on a display screen. In the event where this method is impractical or unaffordable, the system will be diagnosed to LRU level with the help of Trouble Shooting Aids/Diagrams and the use of common existing in-house test equipment; and
5.1.1.0-1.0-5	<u>Cable Repairs</u> - A high wear item, continuity checks on cables and integrity of connectors will be essential to mission success. Systems repair may involve replacement/repair of connectors; manufacture of new cables in theatre and/or repair of receptacles. Cable design, incorporating strain relief, will minimize the need for cable repair.
5.1.2	5.1.2 Second Line Repair Shop
5.1.2.0-1	The Contractors Maintenance Plan may not require Second line maintenance tasks. Faulty LRUs or LoRUs that are beyond the maintenance scope of the CF maintenance resources will be returned for repair or replacement to the Contractor as authorized.
5.1.2.0-2	At the Second Line Shop, for units without First Line capability, maintenance functions will be limited to the following:
5.1.2.0-2.0-1	○ Finding/isolating faults at LRU / LoRU level;
5.1.2.0-2.0-2	○ Replacement of faulty LRUs / LoRUs;
5.1.2.0-2.0-3	○ Repair faulty LRU / LoRU as authorized and;
5.1.2.0-2.0-4	○ Recording of maintenance information.
5.1.2.0-3	Repairable ISS components will be repaired or returned to the Contractor for assessment and repair under the R&O Contract. Repairs will be conducted by deployed workshops with access to the necessary hardstand, tools and test equipment.
5.1.2.0-3.0-1	○ Calibration of equipment, reprogramming software/firmware;

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5.1.2.0-3.0-2	○ Fault isolation and repair by replacement of assemblies, subassemblies and components;
5.1.2.0-3.0-3	○ Operation and maintenance of STTE;
5.1.2.0-3.0-4	○ Scheduled inspection/preventive maintenance of assemblies, sub-assemblies and components of items held in the CFSS; and
5.1.2.0-3.0-5	○ First and Second Line maintenance instructions will be based on the Contractor's recommended Maintenance Plan and approved by DND.
5.1.2.0-4	Technicians in the supporting maintenance organizations will perform defined First Line (for units without integral maintenance support) and assigned Second Line maintenance tasks, usually taking up to two (2) hours, as recommended by the Contractor and agreed to by DND.
5.1.3	5.1.3 Third Line Maintenance
5.1.3.0-1	It is expected that Contractor support may be sought for all other maintenance requirements. The Contractor may be tasked, on an as required basis, to provide verification of maintenance required and confirmation of services provided.
5.2	5.2 Tools & Test Equipment Distribution
5.2.0-1	Tools and test equipment required to perform First and Second Line maintenance activities are expected to be minimal. Existing in-house tools and test equipment will be used wherever possible. The relevant Contractor will identify all tools and test equipment required in support of the ISS. Required equipment not currently found in DND inventory may, based on a cost benefit analysis, be procured to support in-house maintenance responsibilities.
5.2.0-2	As a result, limited additional tools will be purchased and distributed to the applicable maintenance organizations as required.
5.3	5.3 Maintenance and Storage Facilities
5.3.0-1	<u>Maintenance Facilities</u> . Current DND facilities are considered to be adequate for the repair of the ISS at the maintenance lines identified.
5.3.0-2	<u>Storage Facilities</u> . Some ISS components may be controlled items under the Canadian Controlled Goods Regulations or other like regulations (e.g. International Traffic in Arms Regulations (ITAR)) and/or items identified IAW applicable policies and regulations, such as Hazardous Material (HAZMAT), Dangerous Goods and the Environmental Protection Act (EPA). As such, some items may be identified for controlled storage.
5.3.0-3	<u>Equipment Issue</u> . ISS will be issued to individual soldiers as part of their personal kit.

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	When not on operations, secure storage may be required in similar fashion to weapons. Storage must be done within existing facilities or security containers.
5.3.0-4	<u>Equipment Reconstitution</u> . Whenever possible, all ISS being returned from a theatre of operations will undergo thorough cleaning if mandated by Agriculture Canada. In addition, batteries will be removed and packed separately. All equipment will undergo a visual inspection, and equipment with damage will be noted and tagged or classified for serviceability prior to shipment to Canada or the Contractor.
5.4	5.4 Software Maintenance and Configuration Management
5.4.0-1	The ISS requires the dedicated management of System Release hardware, software and firmware.
5.4.0-2	It is anticipated that the software/firmware will be maintained by the Contractor, with required updates forwarded to NDHQ, through the Project Management Office (PMO) ISS Project (ISSP) ILS Manager (ILSM) or EMT ISS, as applicable. If required, updated data will be distributed electronically to each of the user units. Garrison access to a real-time, web-based application on the DND Wide Area Network (DWAN) is envisioned for the future. Updates to BIT Equipment will be distributed in the same manner.
5.5	5.5 Warranty
5.5.0-1	The PMO ISSP ILSM/TA, in conjunction with the Contractor, will determine the warranty validity for individual items of the ISS and will inform the ISSP of items/systems to be returned to the Contractor for repair under warranty. The ISSP PMO will act as coordinator for the return of all ISS items under warranty to the Contractor.
5.6	5.6 Post Warranty Unserviceable Items
5.6.0-1	Unserviceable ISS or parts thereof will be collected at the CFSD and the PMO ISSP/EMT notified. Depending on the urgency and economical repair quantity, the PMO/EMT will forward the equipment for repair or disposal under an OWSS contract.
5.7	5.7 Demilitarization and Disposal
5.7.0-1	Some components of the ISS may be designated as Controlled Goods under ITAR and the Canadian Controlled Goods Regulation and identified as such in the supply system with a Demilitarization Code (DMC) of "F". Inspection of items is to be performed by a Second Line Maintenance organization and the identified non-serviceable items are to be returned to the Contractor for repair, cannibalization or scrap. For the electronic components, it is planned to have all salvage returned to the Contractor for controlled disposal. Non-hazardous, non repairable components, that are not controlled goods or otherwise restricted for disposal within the theatre, may be disposed of on site. All disposal will be managed by DND/PMO ISSP ILSM or the EMT after transition.

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6	6 TRAINING SUPPORT CONCEPT
6.1	6.1 Overview of the Training Concept
6.1.0-1	The ISS is a Deployable Weapons Systems, issued only to MSTFs once they have been designated for operations or as standby/readiness for operations. It is not issued to the 'Institutional Army'. This fact guides the overall training requirements, which need to focus on meeting the high level of individual and collective combat readiness undertaken as a MSTF readies for combat. This will take place during the pre-deployment cycle established as part of the Army Managed Readiness Cycle once a MSTF has been designated.
6.1.0-2	A secondary objective is to support the introduction and use of the system at the School of Infantry, CTC, and the CFSCE for technical training. It should be noted that ISS will be withdrawn from MSTFs returning to Canada. Those units may not be re-selected for deployment for up to three years. As a result, operator and maintainer skill fade will occur between deployments.
6.2	6.2 Performance Oriented Training
6.2.0-1	ISS training should be performance based and must be developed IAW CF Individual Training and Education System (CFITES). Collective training should use Battle Tasks Standards. Operational performance requirements will be used as the baseline to assess both individual and collective training performance requirements.
6.3	6.3 Training Needs Analysis (TNA)
6.3.0-1	ISS training will be based upon a comprehensive TNA. A TNA is defined as the process necessary to analyse training needs to determine the outcomes of training after training has been prescribed as the solution to the performance deficiency. The TNA for the ISS will be completed by Director of Army Training (DAT) with the assistance and input of PMO ISSP and ISSP Training Development Officer. It will be used by the Project to guide the implementation of initial and follow-on training, including the transition between Project and steady-state operational training requirements.
6.4	6.4 Strategy -Train the Trainer
6.4.0-1	Approach. The "Train the Trainer" approach will be used for ISS training. In general, the Contractor will provide Pilot ICT to selected DND personnel. Pilot ICT is designed primarily to validate training.
6.4.0-2	The Contractor will then conduct ICT to MSTF representatives and conducted in three categories: Operator, System Management and Maintenance training.
6.4.0-3	Responsibility. Follow-up operator, system management and maintenance training will then become the responsibility of DND to conduct on a recurring basis. Sustainment

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	training for:
6.4.0-3.0-1	Operators and system management will be the responsibility of the CTC CoE.; and
6.4.0-3.0-2	Maintenance personnel will be the responsibility of the CFSCE.
6.4.0-4	These CoEs will provide input into all other courses that require knowledge of the operational or technical attributes of the ISS.
6.5	6.5 Individual and Collective Training
6.5.1	6.5.1 General
6.5.1-1	It is expected that ISS will ‘fundamentally affect the way the Canadian Soldier fights’. As a result, DND training needs to address both individual and collective training requirements as detailed in subsequent paragraphs in this section.
6.5.1-2	ICT will be at the individual level. As the ISS progresses and matures over time, collective training requirements will be developed and managed by CTC/CoE, including Tactics, Techniques and Procedures (TTP) development.
6.5.1-3	In addition, DND will need to ensure Lessons Learned are collected and used to influence future training requirements.
6.5.2	6.5.2 Individual Training
6.5.2.0-1	Individual Training comprises the instructional activities for individual members of the CF that provide the skills, knowledge and attitudes required in the performance of assigned duties, or upon which information can be correctly interpreted and sound judgment exercised. These activities result in a qualification being conferred upon the member.
6.5.3	6.5.3 Collective Training
6.5.3.0-1	Collective Training is the training, other than Individual Training and Education (IT&E), designed to prepare teams, units and other elements to perform military tasks IAW defined standards. Collective training includes procedural drill and the practical application of doctrines, plans and procedures to acquire and maintain tactical, operational and strategic capabilities between groups of soldiers. Collective training for ISS will involve the development by DAT/Directorate of Army Doctrine (DAD) of collective training standards to be incorporated into the second Cycle of Pre-Deployment training.
6.5.4	6.5.4 Target Population
6.5.4.0-1	ISS training faces the challenge of addressing training for a dynamic and wide-ranging target population. Variation in the characteristics of ISS trainees may be attributed to:

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6.5.4.0-1.0-1	<ul style="list-style-type: none"> ○ The need to be familiar with multiple configurations of equipment forming the ISS and their use at various levels of command;
6.5.4.0-1.0-2	<ul style="list-style-type: none"> ○ Different occupational and job experience backgrounds; and
6.5.4.0-1.0-3	<ul style="list-style-type: none"> ○ Skills fade due to non-continuous access to and use of similar technology.
6.6	6.6 Operator, System Management and Maintenance Training
6.6.0-1	The target population for the training to be developed will be required for the following classifications:
6.6.0-1.0-1	<ul style="list-style-type: none"> ○ <u>Operators</u> - The ISS will be utilized within a MSTF on deployed operations. Operators will be Combat Arms, and predominately Infantry and Combat Support. Some training on the ISS may be aimed at CSS trades assigned to operate within a MSTF on operations;
6.6.0-1.0-2	<ul style="list-style-type: none"> ○ <u>System Managers</u> - A special category of Operators and/or Maintainers will be tasked to perform the System Management functions related to Communications planning and system configuration; and
6.6.0-1.0-3	<ul style="list-style-type: none"> ○ <u>Maintainers</u> - Training will be focused on Land Communications Information System (LCIS) Technicians. Any training on new technology will be identified either through the Supportability Analysis process or as specified by the PMO ISSP ILSM. Training will be presented to Area technical personnel concurrently with the fielding of ISS equipment. Training will be conducted by CF ICT instructors. CF Technician training packages will be maintained by the CoE at CFSCE, (LCIS).
6.7	6.7 Pilot ICT and ICT Training
6.7.0-1	Designated CF Operational personnel must be capable of performing all tasks, for their respective Military Occupation Structure Identification (MOSID), to the assigned training standard.
6.7.0-2	<u>Pilot ICT Training.</u> DND personnel selected from the appropriate CoE as ISS CF Instructors, will attend the Contractor delivered Pilot ICT Operator Instructors Course, Pilot ICT Maintainer Instructors Course and Pilot ICT System Management Instructors Course.
6.7.0-3	<u>ICT Training.</u> The ISS CF Instructors will in turn train Subject Matter Experts (SMEs) capable of validating the ICT training materiel. The validation will take place following the Pilot ICT Instructors Course and lead to the approval of the final version of the ICT courseware.
6.7.0-4	<u>Pilot ICT Serials.</u> Pilot ICT is designed to validate initial training and will include training by the contractor to CF personnel who will be selected based on their SME background

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	and MOSID.
6.7.0-5	<u>ICT Serials.</u> ICT is designed to train a small group of soldiers who will then train the MSTF. To ensure that there is sufficient trained personnel at the Platoon and Company levels only a small complement of soldiers are required to be trained by the contractor.
6.8	6.8 Regenerative (Refresher) Training
6.8.0-1	There may be a requirement to obtain additional ICT courses from the Contractor. These would be required if the CoE training staff is not available to train the next rotation MSTF. In this case courses will be conducted at the CF Training Facility which may be a major Base or Area Training Center. In order to ensure the ICT training package is kept current, the Project may provide training updates to the Contractor on an as required basis. The requirement for additional courses will be articulated through the acquisition and in-service support contract(s) mechanisms in place.
6.9	6.9 Performance Standards
6.9.1	6.9.1 Performance Standards Overview
6.9.1.0-1	In order to meet both individual and operational capabilities, ISS training is to be based upon Performance Objectives (POs) and clearly defined standards. The design and development of the training is expected to be objective, measurable, and realistic with respect to the operational environment. The following sub-sections concern the training performance standards for ISS training.
6.10	6.10 Knowledge and Skill Acquisition
6.10.0-1	This sub-section outlines the knowledge and acquisition standards for the ISS. An eighty percent (80%) acquisition rate is required for ISS:
6.10.0-1.0-1	<ul style="list-style-type: none"> Operator trainers should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days;
6.10.0-1.0-2	<ul style="list-style-type: none"> Operators should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days;
6.10.0-1.0-3	<ul style="list-style-type: none"> Technician trainers should be able to acquire the required knowledge and skill levels within the time span of not more than ten (10) normal training days;
6.10.0-1.0-4	<ul style="list-style-type: none"> First Line maintainers should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days;
6.10.0-1.0-5	<ul style="list-style-type: none"> Second Line maintainers should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days;

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6.10.0-1.0-6	<ul style="list-style-type: none"> ○ System Manager trainers should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days; and
6.10.0-1.0-7	<ul style="list-style-type: none"> ○ System Managers should be able to acquire the required knowledge and skill levels within the time span of not more than five (5) normal training days.
6.11	6.11 Time for Knowledge and Skills Retention
6.11.0-1	All ISS operators, maintainers, and system managers who achieve the initial knowledge acquisition and skills levels should be able to maintain those levels without significant degradation, throughout a normal managed readiness schedule (approximately 18 months). The retention of training manuals, student guides or computer based training aids will greatly enhance retention of skills.
6.12	6.12 Management of Training
6.12.1	6.12.1 Scheduling
6.12.1.0-1	One of the key factors in the successful introduction of a system is the proper and timely training of operators, system managers and maintainers. This premise holds true at both the individual and collective level. Training will therefore be targeted at personnel shortly after joining the MSTF and during the individual training phase of the MSTF training program. The Contractor's Training Program plan will outline the scheduling of training.
6.12.1.0-2	IAW the Army Managed Readiness System, a MSTF starts to assemble its resources, required to conduct training, nine months before deployment. Therefore, it will be incumbent of the ISSP PMO ILSM to ensure the equipment and training means are planned to be available at the early stage of the MSTF mounting. Trainers will need to be identified early in this process to ensure their availability at the earliest stage of individual training as tasked by the MSTF.
6.12.2	6.12.2 Qualification
6.12.2.0-1	A unique CF qualification number, to record that a soldier has received training IAW with training standards and training plans, shall be assigned to an individual upon successful completion of ISS training. This would add credibility to training as it would mark training as being objective; quantifiable; traceable; and to formally record the use of CF resources for Human Resources (HR) and material resource management. Furthermore, this will provide the MSTF Commander with evidence and proof that soldiers are properly trained.
6.12.3	6.12.3 Certification
6.12.3.0-1	Upon completion of ISS training, certification shall be granted in order to identify when the training was received and for what period of time the training is valid in order to justify performance competency. ISS training is valid for 18 months after training has

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	been administered as per MSTF pre-deployment checklist.
6.12.4	6.12.4 Militia/Reserves Training
6.12.4.0-1	There will be no special training for Militia/Reserve personnel. Reserve personnel called out on operations, will receive training on ISS during pre-rotation certification training for the MSTF.
6.12.5	6.12.5 Feedback
6.12.5.0-1	Feedback will be collected at all stages of the analysis, design, development, conduct, evaluation, and validation of training by PMO ISSP. Suggestions from CoE personnel, operators, mentors, and supervisors are encouraged. Post Mission reports will be analysed for Lessons Learned and feedback provided to the appropriate authorities to improve TTPs and training delivery. Suggested areas for improvement to training should be forwarded to the ISSP Training Development Officer for consolidation and consideration for further action if required.
7	7 Optimized Weapon System Support (OWSS)
7.1	7.1 General
7.1.0-1	The ISS will be supported during its in service life through an OWSS program. The need for the OWSS program results from recognition that DND has to provide effective and efficient life cycle support for new weapons systems in partnership with industry, particularly in view of limited availability of funding and HR.
7.1.0-2	A vital key to achieving an optimized in service support system is to determine, during the definition phase of a new project, the most effective and efficient manner to support the weapon system throughout its Life Cycle, with the caveat that operational support must not be compromised. From this determination, support activities which would be best completed by the Contractor are identified and included in the support system requirements for the ISS.
7.1.0-3	Accordingly, DND will be looking to acquire a number of support services to provide elements of long term support which will not be carried out in-house. Since DND is not planning to procure the complete Technical Data Package or any maintenance information beyond assigned Second Line tasks, these Support Services will be required for the life of the system.
7.1.0-4	It is expected that the Contractor may be asked to augment DND in house capabilities in the following areas:
7.1.0-4.0-1	○ Core Services -
7.1.0-4.0-1.0-1	● DND access to ISS Technical Data Package via an Electronic Information

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	Environment (EIE);
7.1.0-4.0-1.0-2	<ul style="list-style-type: none"> • Supply Support;
7.1.0-4.0-1.0-3	<ul style="list-style-type: none"> • Re-provisioning;
7.1.0-4.0-1.0-4	<ul style="list-style-type: none"> • Obsolescence Management;
7.1.0-4.0-1.0-5	<ul style="list-style-type: none"> • R&O; and
7.1.0-4.0-1.0-6	<ul style="list-style-type: none"> • CM.
7.1.0-4.0-2	<ul style="list-style-type: none"> ○ Task Based Services -
7.1.0-4.0-2.0-1	<ul style="list-style-type: none"> • System Engineering Support, Technical Investigation and Engineering Support (TIES);
7.1.0-4.0-2.0-2	<ul style="list-style-type: none"> • ILS; and
7.1.0-4.0-2.0-3	<ul style="list-style-type: none"> • Field Service Representatives.
7.2	7.2 OWSS Management
7.2.0-1	<p>During the Acquisition Phase, OWSS will be managed by the PMO ISSP ILSM as part of the ILS component of the Contract Management program. During the In-service Phase, OWSS will be managed by the ILSM as the only remaining ILS component of the Contract Management program until transfer to a DND EMT. A similar transition of responsibilities within the Contractor's organization is expected and will have to be managed accordingly.</p>

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APPENDIX 3 TO ANNEX CA TO VOLUME 2

GOVERNMENT FURNISHED EQUIPMENT FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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HISTORY

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1 Table 1 Modular Load Carriage System Components

ITEM	NSN	DESCRIPTION	QTY	REMARKS
1	8465-20-xxx-xxxx	Chest Rig Front - Medium (Sealed Sample)	1	DSSPM 464-10
2	8465-20-xxx-xxxx	Chest Rig Back (Sealed Sample)	1	DSSPM 466-10
3	8465-20-005-5399	PRC 152 Light Assault Radio Pouch (for LCSS)	1	
4	8465-66-155-9075	90 Round Velcro Magazine Pouch	3	
5	8465-66-155-9105	Smoke/Night Vision Device Pouch	1	
6	8465-66-155-9125	40 x 2 Horizontal Pouch	2	
7	8465-66-155-9151	Utility Hydration Cover Pouch	1	
8	8465-66-158-4333	40 x 1 Pouch	2	
9	8465-66-158-4334	40 x 4 Vertical Pouch	1	
10	8465-66-158-4336	40 x 4 Horizontal Pouch	1	
11	8465-66-158-4337	Combat First Aide Medic Pouch	1	
12	8465-66-158-4344	DAGR Pouch - (5.56 60 Rd Mag Pouch)	1	
13	8465-66-158-4345	200 Round Ammunition Pouch	2	
14	8465-66-158-4356	Fragmentation Grenade x 1 Pouch	2	
15	8465-66-158-4388	Multi Tool Pouch	1	
16	8465-66-158-4411	PALS Combat Belt Medium	1	
17	8465-66-158-4547	Utility Large (FASTEX) Pouch	2	

2 Table 2 Communications Equipment

ITEM	NSN	DESCRIPTION	QTY	REMARKS
1	5820-01-554-7062	PRC/152 Radio	2	
2	5985-01-551-9607	PRC/152 Antenna	2	
3	5965-01-541-5801	PRC/152 Headset - Microphone	2	

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ITEM	NSN	DESCRIPTION	QTY	REMARKS
4	6130-01-548-7481	PRC-152 Battery Charger	1	
5	6140-01-548-7566	PRC/152 Battery, Storage, Rechargeable	2	
6	5820-01-507-3973	PRC/148 Radio	2	
7	5985-01-487-1134	PRC/148 Antenna	2	
8	5965-01-506-7576	PRC/148 Headset - Microphone	2	
9	6130-01-512-0183	PRC/148 Battery Charger	1	
10	6140-01-487-1153	PRC/148 Battery, Storage, Rechargeable	2	
11	5820-20-003-9649	PRC-117 Radio	2	
12	5985-01-424-6403	PRC-117 Antenna	2	
13	5965-00-069-8886	PRC-117 Handset	2	
14	6130-01-179-6624	PRC-117 Battery Charger	1	
15	6140-01-490-4317	PRC-117 Battery, Storage, Rechargeable	2	
16	8465-20-000-2774	PRC-117 Field Pack	2	

3 Table 3 Miscellaneous Equipment

ITEM	NSN	DESCRIPTION	QTY	REMARKS
1	5825-01-526-4783	DAGR-NAVIGATION SET,SATELLITE SIGNALS	1	
2	5855-20-004-6740	CORAL-CR-C, Sight, Thermal	1	
3	8145-20-004-6881	CORAL-CR-C, Shipping and Storage Container	1	
4	8465-20-004-6743	CORAL-CR-C, Field Pack	1	
5	6140-15-180-5984	CORAL-CR-C, Battery, Storage, Rechargeable	1	
6	6130-20-004-6756	CORAL-CR-C, Battery Charger	1	

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APPENDIX 4 TO ANNEX CA TO VOLUME 2

PERSONNEL REQUIREMENTS FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

THE PERSONNEL REQUIREMENTS APPENDIX IS HEREBY INCORPORATED IN THIS ANNEX CA BY REFERENCE AND HAS THE SAME FORCE AND EFFECT AS IF IT WERE ATTACHED HERETO.

THE COMPLETE DOCUMENT IS ATTACHED IN ITS ENTIRETY AS APPENDIX 2 TO ANNEX CA TO THE OPTIMISED WEAPON SYSTEM SUPPORT CONTRACT.

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ANNEX CB TO VOLUME 2

ISS PERFORMANCE SPECIFICATIONS

FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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1. SCOPE

This Performance Specification establishes the technical requirements that the Contractor's Integrated Soldier System (ISS) solution must meet and prove in order to comply with the ISSP Acquisition contract.

2. STRUCTURE OF THE ANNEX CB, PERFORMANCE SPECIFICATION

The Annex CB, Performance Specification is structured as described below.

2.1 Annex CB Main body

The main body of Annex CB provides the scope of the Performance Specification and its structure.

2.2 Appendix 1 - Technical Performance Specification (TPS)

The TPS establishes the functionality, performance, verification and acceptance requirements for the Integrated Soldier System-Suite (ISS-S), the System Executive Planning-Suite (SEP-Suite) and their enabling systems.

2.3 Appendix 2 - User Acceptance Performance Specification (UAPS)

The UAPS establishes the quality in-use requirements and Human Factors requirements for the ISS-S.

2.4 Appendix 3 - Mission Profiles and Operational Mode Summary

This Appendix provides information about the expected operational use of the ISS-S.

The ISS-S Mission Profiles are a time-phased descriptions of the operational events and environments that the ISS-S will be subjected to from the start to the end of specific missions. Activities, durations, operating conditions, and environmental conditions are identified for each mission.

The Operational Mode Summary provides a compilation of the missions, operating conditions and environments the ISS-S population will expect to see over its useful life cycle. It is described from the perspective of Mission Cycles / Life Expectancy, Environmental Profiles, Climatic Conditions and Mobility Modes and components usage.

2.5 Appendix 4 - Failure Definition and Scoring Criteria

This Appendix gives instructions to the Contractor on how to define the degraded and unacceptable performance that constitutes a failure in the ISS-S, or any of its sub-systems, and

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enables the categorization of these failures for the determination of the required Reliability and Maintainability (R&M) quantitative parameters.

2.6 Appendix 5 - Audio Display Test Procedures Requirements

This Appendix gives instructions to the Contractor on how Speech Intelligibility, Sound Localisation and Sound Identification are to be tested to verify that the ISS-S complies with the ISS-S Audio Display relevant TPS requirements.

2.7 Appendix 6 - System Acceptance Test Scenario Instructions

This Appendix describes the scope and approach that will be required for the ISS System Acceptance Test (SAT), and provides direction to the Contractor on how to implement the SAT in accordance with the ISS Performance specification.

2.8 Appendix 7 - MLCS Platform TDP

This Appendix defines the materials, design and construction requirements for the Modular Load Carriage System, comprising of a chest rig and a back yoke.

2.9 Appendix 8 - ISS Generic Pouches TDP

This Appendix defines the materials and construction requirements to manufacture a Pouch Attachment Ladder System (PALS) compatible pouch for ISSP electronic devices.

2.10 Appendix 9 - MLCS Conceptual Load

This Appendix describes the load carriage of close combat soldiers and establishes space claims on the MLCS for both ISS-S components and soldiers' combat equipment and consumables.

2.11 Appendix 10 - Miscellaneous Test Data and test Procedure Requirements

This Appendix provides the Contractor with test data and test procedures to be used to verify certain requirements.

2.12 Appendix 11 - Power Consumption Test Procedure Requirements

This Appendix gives instructions on how the ISS-S power consumption requirements are expected to be tested and subsequently analysed to prove that the ISS-S complies with the relevant TPS power requirements.

2.13 Appendix 12 – MLCS Verification and Quality Control Requirements

This Appendix describes to the Contractor the verification and Quality Control Requirements of the MLCS.

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APPENDIX 1 TO ANNEX CB TO VOLUME 2

TECHNICAL PERFORMANCE SPECIFICATIONS (TPS) FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

15 MARCH 2013

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Para	TPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
1	TPS-1	Introduction			
1.1	TPS-5	Scope			
1.1.0-1	TPS-5043	This Performance Specification (PS) establishes the functionality, performance, verification and acceptance requirements for the Canadian Forces (CF) Integrated Soldier System Suite (ISS-S) and the Canadian Forces (CF) System Executive Planning Suite (SEP-Suite).			
1.2	TPS-7	System Overview			
1.2.1	TPS-5070	ISS-S			
1.2.1.0-1	TPS-5363	The ISS-S is the soldier-worn suite being purchased by Canada.			
1.2.1.0-2	TPS-5071	The following capabilities are to be part of the ISS-S: <ul style="list-style-type: none"> • Communications Suite (Radio and Antenna); • Audio Display; • Wired Push-to-Talk (PTT) Switch; • Bearing Indicator and GPS; • SAASM GPS capability; • Battle Management Software and Computer; • External Data Storage Device; • Tactical User Interface; • System Management Software; • Security Features; • Power and Cabling; and • Modular Load Carriage System. 			
1.2.1.0-3	TPS-5362	Enhanced capabilities are requested to be part of the ISS-S: <ul style="list-style-type: none"> • Growth Potential Enablers; • Wireless Push-To-Talk (PTT) Switch; • Digital Imaging Capabilities; and • Various Capability and Performance 			

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Para	TPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
		Enhancements.			
1.2.2	TPS-5074	SEP-Suite			
1.2.2.0-1	TPS-5075	The SEP-Suite is an item purchased by Canada that is not part of the ISS-S but is required for the ISS-S to operate.			
1.2.2.0-2	TPS-5364	The SEP-Suite includes the following capabilities: • System Management Software; and • Security Features.			
1.2.3	TPS-5495	ISS BMS SW running on a CF Laptop			
1.2.3.0-1	TPS-5496	The Integrated Soldier System Battle Management Software on Canadian Forces Laptop is a subset of the ISS-ES software, running on a CF laptop, used by commanders to perform static non-tactical tasks, like mission planning for example.			
1.2.4	TPS-5498	Battery Charger Set			
1.2.4.0-1	TPS-5499	The Battery Charger Set includes all the charging equipment required to recharge an ISS Rechargeable Battery Set.			
1.2.5	TPS-5076	Fitted For			
1.2.5.0-1	TPS-5077	Fitted For refers to Government Furnished Equipment (GFE). This equipment is supplied to the Contractor by Canada and is to interoperate with the ISS-S to enhance the system's capability. Fitted For equipment includes: • LCSS Radios; and • CORAL-CR-C HHTI			
1.2.5.0-2	TPS-5365	Depending on how the Contractor provides the SAASM GPS capability, the ISS-S could interoperate with the in-service DAGR.			
1.3	TPS-5398	Concept of Employment			
1.3.0-1	TPS-5399	The separate elements of the ISS that are specified in this specification are to be used by the CF as follows: • The SEP-Suite is a software package running on			

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Para	TPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
		laptop which is to be used to plan the configuration of the ISS-S and to configure the ISS-S. • The ISS-S is the system worn and used to assist the dismounted infantry soldiers (i.e. the ISS-S Users) to accomplish their tasks. • The ISS Charging Capability is to be used to charge the ISS-S Rechargeable Batteries. • The ISS BMS SW On CF Laptop is a software package to be used by commanders to perform planning functions before the start a mission.			
2	TPS-3	Requirements			
2.1	TPS-73	System Level Requirements			
2.1.1	TPS-2369	General			
2.1.1.1	TPS-4784	Languages			
2.1.1.1.0-1	TPS-4785	The software interface to use the ISS-S BMS Software and ISS-S Configuration Application Software must fully support both official languages, French and English.	Demo	The Contractor must demonstrate that the software interface to use the ISS-S BMS Software and ISS-S Configuration Application Software fully supports both official languages, French and English.	No
2.1.1.1.0-2	TPS-5390	The software interface to use the ISS-S low-level tools, including but not limited to debugging, troubleshooting and BIT tools, must be in the English language.	Demo	The Contractor must demonstrate that the software interface to use the ISS-S low-level software tools, including debugging, troubleshooting and BIT software, is provided in English.	No
2.1.1.1.0-3	TPS-4977	The software interface to use the SEP-Suite must be in the English language.	Demo	The Contractor must demonstrate that the software interface to use the SEP-Suite software is provided in English.	No
2.1.1.2	TPS-4786	General Characteristics			
2.1.1.2.0-1	TPS-4787	The ISS-S audible noise emissions while being operated must meet MIL-STD-1474D, Requirement 2 Aural Nondetectability, Level II 100 metre nondetectability.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. The test must be based on MIL-STD-1474D, Requirement 2, Level II. The nondetectability distance must be 100 metres for all frequencies specified	No

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				in MIL-STD-1474D. For the measurement at each frequency, the Contractor must execute the following tasks: <ul style="list-style-type: none"> • Operate the ISS-S hardware controls, including but not limited to the Wired PTT, the Tactical UI touch-screen and all Tactical UI controls; • Perform an ISS Battery change; • Turn-off and turn-on all ISS-S physical devices; and • Load data on the ISS-S using the External Data Storage Device 	
2.1.1.2.0-2	TPS-2524	The ISS-S must have a way to prevent the devices that are part of the ISS-S from emitting visible light while allowing the User to perform voice communications using the ISS-CS and while the ISS-S still generates and transmits Blue PA information to the Blue PA COI.	Demo	The Contractor must demonstrate that the ISS-S can be configured to not emit any light. While not emitting any light, the Contractor must demonstrate that voice communications and Blue PA generation and transmission still function normally.	No
2.1.1.2.0-3	TPS-5123	All sound excluding mechanical noise generated by the ISS-S (excluding BMS Software running on the in-service CF-31 laptop) must be exclusively presented to the user via the ISS-S Audio Display.	Contractor's Choice	The Contractor must prove that all ISS-S generated sounds are presented exclusively to the ISS-S Audio Display.	No
2.1.1.2.0-4	TPS-5117	For every sound generated by the ISS-S, the ISS-S must provide the following capabilities: <ul style="list-style-type: none"> • a volume control to adjust audio output levels; • a volume control to turn off audio signals; and • a visual indication on the Tactical User Interface indicating that audio signals are turned off. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.1.1.2.0-5	TPS-2884	The exterior surfaces of all ISS-S electronic components and cables must be of one or more of the following colours or colour patterns: <ul style="list-style-type: none"> • Non-reflective flat green finish; • Non-reflective flat black finish; • Non-reflective flat brown finish; 	Inspection	The Contractor must show all ISS-S electronic components and cables to Canada. Canada will inspect the ISS-S electronic components and cables to confirm compliance with the requirement. The Contractor must show that the	No

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		<ul style="list-style-type: none"> Non-reflective flat gray finish; or Canadian Disruptive Pattern - Temperate Woodland (CADPAT TM TW). 		colours selected are non-reflective and flat.	
2.1.1.2.0-6	TPS-5106	The ISS-S must be fitted to the soldier without needing to be secured to any head borne equipment and without affecting the correct securing of the helmet.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.1.1.2.0-7	TPS-5338	The ISS-S must not include storage devices that make use of moving parts to store and retrieve data, including but not limited to magnetic disks and optical drives.	Contractor's Choice	The Contractor must prove that the ISS-S does not contain any storage devices that make use of moving parts to store and retrieve data.	No
2.1.1.2.0-8	TPS-5460	If any hardware is provided as part of the SEP-Suite, the hardware that is included as part of the SEP-Suite must meet all the mandatory requirements in the Environmental section TPS-78.	Test	The Contractor must prove via tests that the hardware that is provided as part of the SEP-Suite meets all the Environmental requirements from section TPS-78.	No
2.1.1.3	TPS-2914	Nameplates and Product Marking			
2.1.1.3.0-1	TPS-4983	The ISS-S physical devices and cables must include nameplates and product markings as defined in D-02-002-001/SG-001.	Inspection	The Contractor must show all ISS-S physical devices, components and cables to Canada. Canada will inspect the ISS-S physical devices, components and cables to confirm compliance with the requirement.	No
2.1.1.3.0-2	TPS-4984	If any hardware is provided as part of the SEP-Suite, the hardware that is included as part of the SEP-Suite must include nameplates and product markings as defined in D-02-002-001/SG-001.	Inspection	The Contractor must show all SEP-Suite hardware to Canada. Canada will inspect the SEP-Suite hardware to confirm compliance with the requirement.	No
2.1.1.4	TPS-3917	Weight			
2.1.1.4.0-1	TPS-3919	The ISS-S, including batteries to support a 24 hour mission as per Section 3.1 Battlefield Day (BD) Profile of Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary, should be as light as possible.	Test	The Contractor must perform a power consumption test and provide a power consumption test report and a results analysis as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements. The power	No

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				<p>consumption test report and analysis must provide the number of ISS Rechargeable Battery recharges and the number of ISS Non-Rechargeable Batteries required to complete a twenty-four (24) hour mission as per Section 3.1 Battlefield Day (BD) Profile of Volume 2, Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary.</p> <p>The weight test must be performed twice, once to measure the weight of the ISS-S with the ISS Rechargeable Batteries required to complete a twenty-four (24) hour mission, and once to measure the weight of the ISS-S with the ISS Non-Rechargeable Batteries required to complete a twenty-four (24) hour mission. The number of ISS Batteries included in each test must be as per the above power consumption test report and analysis. The average of the two weights must be the same or less than the average P(Bid) measured weight.</p> <p>In addition to the ISS Batteries, the measurements must include the ISS-ES, MLCS Platform, the MLCS ISS Pouches, all wired connectivity excluding cables to GFE, and any other equipment required to operate the ISS-S.</p>	
2.1.1.5	TPS-5332	Human Systems Integration			
2.1.1.5.0-1	TPS-3098	The following ISS-S control device(s) should be operable with one hand:	Demo	If the ISS-S configuration has not changed from P(Bid), no other	No

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		<ul style="list-style-type: none"> • Voice exchange using the Wired PTT; • Zoom-in and zoom-out of a map; • Generate and transmit a quick symbol; • Local zeroize; and • Adjust Tactical User Interface Display luminance. 		<p>demonstration is required.</p> <p>Otherwise:</p> <p>The Contractor demonstrate that each of the below functions are useable with one hand while holding a weapon in the other hand:</p> <ul style="list-style-type: none"> • Voice exchange using the Wired PTT; • Zoom-in and zoom-out of a map; • Generate and transmit a quick symbol; • Local zeroize; • Adjust Tactical User Interface Display luminance. 	
2.1.1.5.0-2	TPS-3239	The feedback provided by the ISS-S software should comply with the design criteria standards as prescribed in MIL-STD-1472F, section 5.14.5.2 Standby.	Demo	The Contractor must demonstrate that feedback is provided to the User when the Tactical User Interface is not able to be interacted with when the ISS-S is working or busy. The demonstration must show the criteria (time or other) used to generate the feedback that was claimed in the bid proposal.	No
2.1.1.5.0-3	TPS-3240	The feedback provided by the ISS-S software should comply with the design criteria standards as prescribed in MIL-STD-1472F, section 5.14.5.3 Process outcome.	Demo	The Contractor must demonstrate that the ISS-S indicates to the User that a control process sequence has been completed and that the ISS-S indicates to the User that a control process has been aborted. The demonstration must include the feedback provided when a control process is aborted by the User and when a process control process is aborted automatically by the ISS-S.	No
2.1.1.5.0-4	TPS-3261	The error management/data protection provided by the ISS-S software should comply with the design criteria standards as prescribed in MIL-	Demo	The Contractor must demonstrate how the ISS-S allows the User to make corrections to data entered without	No

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		STD-1472F, section 5.14.8.1 Error correction.		having to re-enter the complete information.	
2.1.1.6	TPS-5471	Quick Reference Guide			
2.1.1.6.0-1	TPS-5472	The ISS-S must have a function which allows the User to electronically view the Quick Reference Guide (QRG) contents on the Tactical User Interface display.	Demo	The Contractor must demonstrate that the ISS-S can display an electronic version of the QRG on the Tactical User Interface display and that the content of the electronic version of the QRG is the same as the content of the paper version of the QRG.	No
2.1.1.6.0-2	TPS-5473	The BMS Software running on an in-service CF-31 laptop must have a function which allows the User to electronically view the Quick Reference Guide (QRG) contents on the in-service CF-31 laptop display.	Demo	The Contractor must demonstrate that the BMS Software running on an in-service CF-31 laptop can display an electronic version of the QRG on the in-service CF-31 laptop display and that the content of the electronic version of the QRG is the same as the content of the paper version of the QRG.	No
2.1.1.6.0-3	TPS-5474	The SEP-Suite running on an in-service CF-31 laptop must have a function which allows the User to electronically view the Quick Reference Guide (QRG) contents on the in-service CF-31 laptop display.	Demo	The Contractor must demonstrate that the SEP-Suite running on an in-service CF-31 laptop can display an electronic version of the QRG on the in-service CF-31 laptop display and that the contents of the electronic version of the QRG is the same as the contents of the paper version of the QRG.	No
2.1.2	TPS-4045	Environment, Health & Safety (EHS)			
2.1.2.0-1	TPS-4048	The ISS-S, excluding the ISS Batteries and the ISS-ES Internal Batteries, must not present any environmental, health or system safety hazards of a Catastrophic or Critical mishap severity, as defined in Volume 2, Annex CE RAG.	Analysis	The analysis provided by the Contractor must clearly demonstrate to Canada that the ISS-S does not present any environmental, health or system safety hazards of a Catastrophic or Critical mishap severity. Catastrophic mishap and Critical mishap	No

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				are defined in the Glossary.	
2.1.2.0-2	TPS-4050	This ISS-S, excluding the ISS Batteries and the ISS-ES Internal Batteries, must not present a Catastrophic or Critical hazard to the operator and surrounding environment even when so damaged that it allows the ingress of water or egress of internal substances.	Analysis	The analysis provided by the Contractor must clearly demonstrate to Canada that the ISS-S does not present any environmental, health or system safety hazards of a Catastrophic or Critical mishap severity when so damaged that it allows the ingress of water or egress of internal substances. Catastrophic mishap and Critical mishap are defined in the Glossary.	No
2.1.2.0-3	TPS-4054	The ISS Rechargeable Batteries and the ISS-ES Internal Batteries if provided, must comply with the Cell Safety (para 3.5.3) and Battery Safety (para 3.16) requirements of MIL-PRF-32052(CR).	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-PRF-32052(CR) para 4.4.2.3 and 3.16, or equivalent. On completion of test, cells must meet the requirements of MIL-PRF-32052(CR) para 3.5.3 and batteries must meet the requirements of MIL-PRF-32052(CR) para 3.16.	No
2.1.2.0-4	TPS-4051	The maximum allowable ISS-S surface contact temperatures must be in accordance with MIL-STD-1472F section 5.13.4.6 Thermal contact hazards for prolonged contact.	Contractor's Choice	The Contractor must prove that the ISS-S meets the requirement.	No
2.1.2.0-5	TPS-4052	The ISS-S must meet the UL94 V-0 fire retardant rating, or equivalent, for all plastic components and parts, except for cables and wires.	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW UL94 V-0 fire retardant rating.	No
2.1.2.0-6	TPS-5505	The ISS-S cables and wires must meet the 60° flammability test of SAE AS81044A (MIL-W-81044B), or equivalent, with the following requirements: - 30 sec (max) after-flame; - 3.0 inches (max) flame travel; - No flaming of tissue paper.	Test	The Contractor must prove by testing that the ISS-S cables and wires meet the requirement. Test IAW SAE AS81044A flammability test.	No

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2.1.2.0-7	TPS-4055	The ISS-S must not discharge the CORAL-CR-C's laser range finder due to any fault or failure.	Analysis	The analysis provided by the Contractor must clearly demonstrate to Canada that the ISS-S will not cause a laser discharge of the CORAL-CR-C due to a fault or failure.	No
2.1.2.0-8	TPS-4057	The ISS-S must not contain any Polychlorinated Biphenyls (PCBs), halocarbons or asbestos.	Analysis	As part of submission with EHSIR, the Contractor must prove that the ISS-S does not contain any Polychlorinated Biphenyls (PCBs), halocarbons or asbestos.	No
2.1.3	TPS-78	Environmental			
2.1.3.1	TPS-291	Climatic / Natural Environments			
2.1.3.1.1	TPS-313	Operation - High Temperature			
2.1.3.1.1.0-1	TPS-317	The ISS-S must operate within normal performance limits at temperatures up to 49°C tested according to MIL-STD-810G, Method 501.5, Procedure II (using cycling as for the A1 Climatic category) or MIL-STD-810F, Method 501.4, Procedure II (using cycling as for the A1 Climatic category).	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 501.5, Procedure II (using cycling as for the A1 Climatic category, Table 501.5-III) or MIL-STD-810F, Method 501.4, Procedure II (using cycling as for the A1 Climatic category, Table 501.4-II). Operation at high temperature following diurnal cycles of the A1 climatic zone between 32°C to 49°C for at least three (3) cycles. Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use. Post-test: Test results must verify that the ISS-S still operates within normal performance limits at the rated temperature. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or	No

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				evidence of physical damage that would cause a malfunction.	
2.1.3.1.1.0-2	TPS-5155	When exposed to temperatures above 49°C and up to 60°C in an operating (power-on) state, the ISS-S should continue to operate within normal performance limits or exhibit only a temporary loss or degradation of function that is self-recovered upon returning to its rated temperature range. Tested according to MIL-STD-810G, Method 501.5, Procedure II or MIL-STD-810F, Method 501.4, Procedure II.	Test	<p>If the ISS-S configuration has not changed from P(Bid), no other test is required.</p> <p>Otherwise:</p> <p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 501.5, Procedure II or MIL-STD-810F, Method 501.4, Procedure II using constant temperature exposure. Operation at high temperatures above 49°C and up to 60°C in an operating (power-on) state. Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits at the rated temperature or if there is a degradation of function, self-recovery upon returning to its rated temperature range after the test with no lasting effects. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.</p>	No
2.1.3.1.2	TPS-315	Storage - High Temperature			
2.1.3.1.2.0-1	TPS-324	The ISS-S must operate within normal performance limits following storage at	Test	The Contractor must prove by testing that the ISS-S meets the requirement.	No

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		temperatures up to 70°C tested according to MIL-STD-810G, Method 501.5, Procedure I (using cycling as for the A1 Climatic category) or MIL-STD-810F, Method 501.4, Procedure I (using cycling as for the A1 Climatic category).		Test IAW MIL-STD-810G, Method 501.5, Procedure I (using cycling as for the A1 Climatic category, Table 501.5-III, to a maximum temperature of 70°C), or MIL-STD-810F, Method 501.4, Procedure I (using cycling as for the A1 Climatic category, Table 501.4-II, to a maximum temperature of 70°C). Non-operational storage at high temperature following the diurnal cycles of the A1 climatic zone between 33°C to a maximum of 70°C for at least seven (7) cycles. Test in storage or non-operational configuration. Post-test: Test results must verify that the ISS-S still operates within normal performance limits after the test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.	
2.1.3.1.3	TPS-314	Operation - Low Temperature			
2.1.3.1.3.0-1	TPS-323	The ISS-S must operate within normal performance limits at temperatures down to -30°C tested according to MIL-STD-810G, Method 502.5, Procedure II or MIL-STD-810F, Method 502.4, Procedure II.	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 502.5, Procedure II or MIL-STD-810F, Method 502.4, Procedure II. Operation at cold temperatures down to -30°C using constant low temperature of -30°C. Exposure time must be 24 hours. Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use. Post-test: Test results must verify that	No

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				the ISS-S still operates within normal performance limits at the rated temperature. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.	
2.1.3.1.3.0-2	TPS-2189	When exposed to temperatures below -30°C and down to -46°C in an operating (power-on) state, the ISS-S should continue to operate within normal performance limits or exhibit only a temporary loss or degradation of function that is self-recovered upon returning to its rated temperature range. Tested according to MIL-STD-810G, Method 502.5, Procedure II or MIL-STD-810F, Method 502.4, Procedure II.	Test	<p>If the ISS-S configuration has not changed from P(Bid), no other test is required.</p> <p>Otherwise:</p> <p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 502.5, Procedure II or MIL-STD-810F, Method 502.4, Procedure II. Operation at cold temperatures down to -46°C using constant low temperature of extreme rating. Exposure time must be 24 hours. Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits at the rated temperature or if there is a degradation of function, self-recovery upon returning to its rated temperature range after the test with no lasting effects. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical</p>	No

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				damage that would cause a malfunction.	
2.1.3.1.4	TPS-316	Storage - Low Temperature			
2.1.3.1.4.0-1	TPS-325	The ISS-S must operate within normal performance limits following storage at temperatures down to -30°C tested according to MIL-STD-810G, Method 502.5, Procedure I or MIL-STD-810F, Method 502.4, Procedure I.	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 502.5, Procedure I or MIL-STD-810F, Method 502.4, Procedure I. Non-operational storage at cold temperatures down to -30°C using constant low temperature of -30°C. Exposure time must be 24 hours. Test in storage or non-operational configuration. Post-test: Test results must verify that the ISS-S still operates within normal performance limits after the test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.	No
2.1.3.1.4.0-2	TPS-2192	The ISS-S should operate within normal performance limits following storage at temperatures down to -46°C. Tested according to MIL-STD-810G, Method 502.5, Procedure I or MIL-STD-810F, Method 502.4, Procedure I.	Test	If the ISS-S configuration has not changed from P(Bid), no other test is required. Otherwise: The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 502.5, Procedure I or MIL-STD-810F, Method 502.4, Procedure I. Non-operational storage at cold temperatures down to -46°C using constant low temperature of extreme rating. Exposure time must be 24 hours. Test in storage or non-operational	No

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				configuration. Post-test: Test results must verify that the ISS-S still operates within normal performance limits after the test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.	
2.1.3.1.5	TPS-299	Humidity			
2.1.3.1.5.0-1	TPS-332	The ISS-S must operate within normal performance limits when being used or stored in a warm, humid atmosphere tested according to MIL-STD-810G, Method 507.5 Procedure I, Cycle B1 or MIL-STD-810F, Method 507.4.	Test	<p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 507.5 Procedure I, Cycle B1. Constant temperature and humidity with operation at the Natural B1 cycle and non-operational storage at the Induced B1 cycle. Number of test cycles as per Table 507.5-II. As an alternative use MIL-STD-810G, Method 507.5 Procedure II (Aggravated Cycle) for ten (10) 24-hour cycles.</p> <p>Or test IAW MIL-STD-810F, Method 507.4 for five (5) 48-hour cycles.</p> <p>Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits during and following this exposure. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would</p>	No

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				cause a malfunction.	
2.1.3.1.6	TPS-999	Thermal Shock			
2.1.3.1.6.0-1	TPS-1020	The ISS-S must operate within normal performance limits during sudden changes in temperature (thermal shock) due to transitioning through temperature changes from 24°C to 49°C and 21°C to -30°C tested according to MIL-STD-810G, Method 503.5, Procedure I D (Shocks to or from controlled ambient temperature) or MIL-STD-810F, Method 503.4, Procedure I.	Test	<p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 503.5, Procedure I D (Shocks to or from controlled ambient temperature). Multi-cycle shocks from 49°C to 24°C and 21°C to -30°C while in an operational state (power-on). Minimum of three (3) shocks in each direction, allowing enough time between to allow temperature stabilization.</p> <p>Or test IAW MIL-STD-810F, Method 503.4, Procedure I. Minimum of three (3) shocks from 49°C to 24°C, allowing enough time between to allow temperature stabilization. Minimum of three (3) shocks from 21°C to -30°C, allowing enough time between to allow temperature stabilization.</p> <p>All tests to be done while in an operational state (power-on). Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits following each cycle. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a</p>	No

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				malfunction.	
2.1.3.1.7	TPS-297	Solar Radiation			
2.1.3.1.7.0-1	TPS-329	The ISS-S must operate within normal performance limits during extended sunlight exposure with an intensity of 1120 W/m ² and a temperature of 49°C.	Contractor's Choice	<p>Test or Analysis for Actinic effects.</p> <p>Test: The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 505.5 Procedure II (Steady State for actinic effects) or MIL-STD-810F, Method 505.4, Procedure II (Steady State for actinic effects). Follow the A1 profile, while in an operational (power-on) state, with a test duration of 56 24-hour cycles. Test in operational configuration at System or Device Level.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits following each cycle. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.</p> <p>OR</p> <p>Analysis: The Contractor must prove by analysis that the ISS-S meets the requirement. The materials analysis must prove that the ISS-S meets the requirement.</p>	No
2.1.3.1.8	TPS-298	Blowing Rain			
2.1.3.1.8.0-1	TPS-331	The ISS-S must operate within normal	Test	The Contractor must prove by testing	No

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		performance limits during rainfall exposure of a minimum 1.8 mm/min and a wind velocity of a minimum 18 m/s tested according to MIL-STD-810G, Method 506.5, Procedure I or MIL-STD-810F, Method 506.4, Procedure I.		that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 506.5, Procedure I (Rain and Blowing Rain) or MIL-STD-810F, Method 506.4, Procedure I (Rain and Blowing Rain). Rainfall exposure of a minimum 1.8 mm/min and a wind velocity of a minimum 18 m/s while in an operational state (power-on). Test at standard ambient temperatures, exposing all surfaces for a minimum 30 minutes duration. Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use. Post-test: Test results must verify that the ISS-S still operates within normal performance limits during each exposure and following test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.	
2.1.3.1.9	TPS-302	Sand and Dust			
2.1.3.1.9.0-1	TPS-2201	The ISS-S must operate within normal performance limits in a sand and dust environment as follows: Dust particles smaller than 150 µm at a wind speed of 8.9 m/s, and Sand particles between 150 µm to 850 µm in size at wind speeds up to 29 m/s. Test according to MIL-STD-810G, Method 510.5 (or MIL-STD-810F, Method 510.4) Procedure I for	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 510.5 (or MIL-STD-810F, Method 510.4) Procedure I for Dust and Procedure II for Sand. Dust particles smaller than 150 µm at a wind speed of 8.9 m/s. Sand particles between 150 µm to 850 µm in size at wind speeds ranging from 18 to	No

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		Dust and Procedure II for Sand, both at an ambient temperature of 49°C.		<p>29 m/s. Both at an ambient temperature of 49°C while in an operational state (power-on). For Procedure II (Sand) expose each vulnerable face at 90 minute intervals.</p> <p>Test in operational configuration at System or Device Level. During the test, all ISS-S devices and controls must be exercised as per their intended use.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits during exposure and following each test procedure. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.</p>	
2.1.3.1.10	TPS-301	Salt Fog			
2.1.3.1.10.0-1	TPS-1010	The ISS-S must operate within normal performance limits under or following exposure to salt fog conditions using four alternating 24-hour periods of salt fog exposure and drying conditions.	Contractor's Choice	<p>Test or Analysis for Salt Fog effects.</p> <p>Test: The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 509.5 or MIL-STD-810F, Method 509.4. Exposure to salt atmosphere using four alternating 24-hour periods of salt fog exposure and drying conditions. Use standard test temperature of 35°C. Test in operational configuration at System Level. During the test, all ISS-S devices and controls must be exercised as per their intended use.</p> <p>Post-test: Test results must verify that</p>	No

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				<p>the ISS-S still operates within normal performance limits following the test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.</p> <p>OR</p> <p>Analysis: The Contractor must prove by analysis that the ISS-S meets the requirement. The materials analysis must prove that the ISS-S meets the requirement.</p>	
2.1.3.1.11	TPS-300	Fungus			
2.1.3.1.11.0-1	TPS-333	The ISS-S must not contain materials that support fungus growth.	Contractor's Choice	<p>Test or Analysis.</p> <p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 508.6. Exposure to either US or European fungi IAW MIL-STD-810G, Method 508.6 Tables 508.6-I or XXIII, for at least the minimum test duration. Or Test IAW MIL-STD-810F, Method 508.5. Exposure to either US or European fungi IAW Table 508.5-I, for at least the minimum test duration. Test in operational configuration at System or Device Level. Post-test: Test results must verify that the ISS-S still operates within normal performance limits following the test and that the ISS-S is devoid of microbial</p>	No

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				growth (MIL-STD-810G, Method 508.6 or MIL-STD-810F, Method 508.5 rating of 0). OR Analysis: The Contractor must prove by analysis that the ISS-S meets the requirement. The materials analysis must prove that the ISS-S meets the requirement.	
2.1.3.2	TPS-2210	Induced Environments			
2.1.3.2.1	TPS-305	Shock			
2.1.3.2.1.0-1	TPS-2218	The ISS-S must operate within normal performance limits following the shocks associated with dismounted soldier operations while in an operational mode tested according to MIL-STD-810G, Method 516.6 Procedure I or MIL-STD-810F, Method 516.5 Procedure I.	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 516.6 Procedure I (Functional Shock) or MIL-STD-810F, Method 516.5 Procedure I (Functional Shock). Use shock equivalence to MIL-STD-810G, Figure 516.6-8 for Functional Test - Ground Equipment (MIL-STD-810F, Figure 516.5-8 for Functional Test - Ground Equipment), half sine pulse at 20g's for 11ms, or terminal peak sawtooth pulse at 40 g's for 15 - 23ms. Device in an operational state (power-on). Test in operational configuration at Device Level. Post-test: Test results must verify that the ISS-S still operates within normal performance limits following each exposure. Visual inspection of ISS-S post-test must not show any obvious	No

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				changes in materiel characteristics or evidence of physical damage that would cause a malfunction.	
2.1.3.2.1.0-2	TPS-2219	The ISS-S must operate within normal performance limits following a 1.22 metre drop tested according to MIL-STD-810G, Method 516.6 Procedure IV or MIL-STD-810F, Method 516.5 Procedure IV.	Test	<p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 516.6 Procedure IV (Transit Drop) or MIL-STD-810F, Method 516.5 Procedure IV (Transit Drop). As per MIL-STD-810G Table 516.6-VI (MIL-STD-810F Table 516.5-VI), 1.22 metre drop height in an operational configuration (no packaging) and non-operating state (power-off). Test at Device Level.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits following drops. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.</p> <p>For headset: a. no more than a ± 4 db variation in frequency response from initial reading at any frequency; and b. no more than 1 ohm or $\pm 5\%$ variation, whichever is greater, from initial impedance reading at 1000 Hz.</p>	No
2.1.3.2.2	TPS-2216	Transport Vibration			
2.1.3.2.2.0-1	TPS-2217	The ISS-S must operate within normal performance limits following exposure to the vibrations associated with transport in Ground Vehicles while in a non-operating (power-off) state. Tested according to MIL-STD-810G, Method 514.6	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 514.6 Procedure I, Category 4 using the Two-wheeled Trailer vibration exposures	No

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		Procedure I, Category 4 (or MIL-STD-810F, Method 514.5 Procedure I, Category 4) using the Two-wheeled Trailer vibration exposure profile.		shown in Figure 514.6C-2 and Table 514.6C-IV for the specified 32 minutes per axis. Or IAW MIL-STD-810F, Method 514.5 Procedure I, Category 4 using the Two-wheeled Trailer vibration exposures shown in Figure 514.5C-2 for the specified 32 minutes per axis. Tested in an operational strapped down configuration (no packaging) in a power-off state. Test in operational configuration at System or Device Level. Post-test: Test results must verify that the ISS-S still operates within normal performance limits following test. Visual inspection of ISS-S post-test does not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.	
2.1.3.2.3	TPS-303	Immersion			
2.1.3.2.3.0-1	TPS-2205	The ISS-S, excluding the ISS-S Audio Display canalphones and any other Audio Display component that is part of the headset, must operate within normal performance limits after immersion in fresh water in an operational state (power on), without preparation, for a period of 30 minutes at a depth of 1 metre tested according to MIL-STD-810G, Method 512.5 Procedure I (Immersion) or MIL-STD-810F, Method 512.4 Procedure I (Immersion).	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 512.5 Procedure I (Immersion) or MIL-STD-810F, Method 512.4 Procedure I (Immersion). 30 minutes at a depth of 1 metre in fresh water while powered on. Water temperature at 15°C and the ISS-S at 27°C above the water temperature. Test in operational configuration at System Level. Post-test: Test results must verify that the ISS-S still operates within normal	No

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				performance limits following test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.	
2.1.3.2.4	TPS-2206	Reduced Pressure			
2.1.3.2.4.0-1	TPS-2207	The ISS-S must operate within normal performance limits at an atmospheric pressure of 57.2 kPa (corresponding to a standard altitude of 4,572 metre) tested according to MIL-STD-810G, Method 500.5 Procedure II (Operation) or MIL-STD-810F, Method 500.4 Procedure II (Operation).	Test	<p>The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 500.5 Procedure II (Operation) or MIL-STD-810F, Method 500.4 Procedure II (Operation). ISS-S in an operational mode (power-on) at an atmospheric pressure of 57.2 kPa (corresponding to a standard altitude of 4,572 metre) for a minimum of one (1) hour at -15°C. Test in operational configuration at System or Device Level. During the test, all ISS-S devices and controls must be exercised as per their intended use.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits during and following test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.</p>	No
2.1.3.2.5	TPS-2211	Explosive Atmosphere			
2.1.3.2.5.0-1	TPS-2212	The ISS-S must not constitute a hazard in an explosive environment.	Contractor's Choice	<p>Test or Analysis.</p> <p>Test: The Contractor must prove by testing that the ISS-S meets the requirement.</p>	No

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				<p>Test IAW MIL-STD-810G, Method 511.5 Procedure I or MIL-STD-810F, Method 511.4. Make and break electrical contacts frequently.</p> <p>Test in operational configuration at System or Device Level.</p> <p>Post-test: Test results must verify that the ISS-S can operate in fuel-air explosive atmospheres without causing ignition.</p> <p>OR</p> <p>Analysis: The Contractor must prove by analysis that the ISS-S meets the requirement. The analysis must determine susceptibility to electrostatic build-up and ESD and prove that the ISS-S can operate in an explosive environment without causing ignition.</p>	
2.1.3.2.6	TPS-2220	Contamination by Fluids			
2.1.3.2.6.0-1	TPS-2221	<p>The ISS-S must withstand, within normal performance limits, contamination by the following fluids:</p> <ul style="list-style-type: none"> • Insect repellent (NSN 6840-01-284-3982, Crème, approx 32% Deet); • Degreasing Solvent (MIL-PRF-680B); • Weapon cleaning solvents (MIL-PRF-372D); • Lubricating oil, general purpose (MIL-PRF-32033); • Camouflage cream; • Reactive Skin Decontaminant Lotion (RSDL); • Salt water (real or simulated); • Unleaded gasoline (CAN/CGSB 3.5); 	Contractor's Choice	<p>Test or Analysis.</p> <p>Test: The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL-STD-810G, Method 504.1 Procedure II. Contamination fluid must be splashed on the equipment. Fluid exposure duration is as per the MIL-STD-810G defined 8 hours. Or test IAW MIL-STD-810F, Method 504. Use intermittent contamination procedures and times. Soak temperature</p>	No

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		<ul style="list-style-type: none"> • Hydraulic fluid (Mineral oil / petroleum based NATO H-520/NATO H-515); • Kerosene (Commercial fuel CAN/CGSB 3.3); • Automatic Transmission fluid (Dexron III or Allison TES 228); • Lubricant, semi-fluid, automatic weapons (MIL-L-46000); • Lubricating oil, weapons, low temperature (MIL-PRF-14107); • Anti-freeze (A-A-52624A Type I ethylene glycol-based and Type II propylene glycol-based); • Engine oil (MIL-PRF-2104H, 15W40); and • Diesel fuel (On-road CAN/CGSB 3.517). 		<p>to be 49 degrees Celsius for 8 hours.</p> <p>Ambient and contamination fluid temperature for test must be between 15 degrees and 25 degrees Celsius. Test at Device Level.</p> <p>Post-test: Test results must verify that the ISS-S still operates within normal performance limits following the test. Visual inspection of ISS-S post-test must not show any obvious changes in materiel characteristics or evidence of physical damage that would cause a malfunction.</p> <p>Analysis: The Contractor must prove by analysis that the ISS-S meets the requirement. The materials analysis must prove that the ISS-S meets the requirement.</p>	
2.1.3.3	TPS-312	Electromagnetic Environmental Effects (E3)			
2.1.3.3.0-1	TPS-5195	A quantity of ten (10) ISS-CS must operate concurrently, while using voice and data services, in a three (3) metre by three (3) metre space without damaging any of the ISS-CS devices.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to use ten (10) radios.	Yes
2.1.3.3.0-2	TPS-666	The ISS-S must not exhibit degradation of performance due to electromagnetic interference when ten (10) operational ISS-S nodes collocated in a room of size 3 metres by 3 metres, are performing voice exchanges, Blue PA exchanges and data exchanges as per section TPS-246 of this specification.	Analysis - and - Test	<p>Using an analysis and a test, the Contractor must prove that the performance of the ISS-S is not degraded by the presence of other ISS-S operating in close proximity.</p> <p>Analysis: The Contractor must provide an analysis</p>	No

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				<p>that proves that the ISS-S design characteristics allow the ISS-S to meet this requirement. The analysis must show that the radio out-of-band rejection, signal selectivity and out-of-band or in-band noise levels do not create an electromagnetic incompatibility that results in degradation of performance when multiple radios are operating in close proximity.</p> <p>Test: The test must be performed using at least ten (10) ISS-S nodes collocated in a room of size 3 metres by 3 metres. Each ISS-S must be able to perform voice exchanges, Blue PA exchanges and data exchanges as per section TPS-246 of this specification. The ISS-S must operate within normal performance limits during the test.</p>	
2.1.3.3.0-3	TPS-5486	The ISS Communications Suite (ISS-CS) receiver selectivity and out-of-band rejection must be sufficient to permit two ISS-CS radios separated by a distance of five (5) metres operating on adjacent frequency channels (1 channel width away), to perform voice, data and Blue PA exchanges with other ISS-CS radios located at a distance of five hundred (500) metres.	Analysis - and - Test	<p>Using an analysis and a test, the Contractor must prove that the performance of the ISS-CS is not degraded by the presence of other ISS-CS operating in close proximity on an adjacent frequency channel.</p> <p>Analysis: The Contractor must provide an analysis that proves that the ISS-S design characteristics allow the ISS-S to meet this requirement. The analysis must show that the radio out-of-band rejection, signal selectivity and out-of-band or in-</p>	No

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				<p>band noise levels do not create an electromagnetic incompatibility when two or more radio networks are operating in adjacent radio channels.</p> <p>Test: The test must be performed using at least four (4) ISS-S nodes where two (2) ISS-S nodes use one frequency channel (f1) and the other two (2) ISS-S nodes use an adjacent frequency channel (f2). The nodes that operation on frequency channel f1 must be five hundred (500) metres apart and the node operating on frequency channel f2 must also be five hundred (500) metres apart. One (1) ISS-S node on frequency channel f1 must be five (five) metres apart or less from one (1) ISS-S node on frequency channel f2. The two (2) ISS-S nodes using frequency channel f1 must perform voice, data and Blue PA exchanges while the two (2) ISS-S nodes using frequency channel f2 are also performing voice, data and Blue PA exchanges. The test must be performed while the four (4) ISS-CS radios are operating using the primary transmitted output power mode defined in TPS-5163.</p> <p>Testing may be performed in Lab environment with sufficient attenuators to simulate range (equivalent to path loss).</p>	
2.1.3.3.1	TPS-918	EMI / EMC			
2.1.3.3.1.0-1	TPS-353	The ISS-S must meet the EMCON requirement	Test	The Contractor must prove by testing	No

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		from section 5.13 of MIL-STD-464A. Frequencies tested are outside of 225-450MHz frequency range.		that the ISS-S meets the requirement. If a Wireless PTT is provided, the Wireless PTT can be disabled or turned-off for this test. The test must be performed using calibrated equipment, and it is recommended that the test be performed by an accredited EMC facility.	
2.1.3.3.1.0-2	TPS-356	The ISS-S must operate within Normal Performance Limits (as defined in Vol 2, Annex CE, References Acronyms and Glossary) when exposed to an electric field of 50V/m at frequencies of 2MHz to 18GHz.	Test	The Contractor must prove by testing that the ISS-S operates within Normal Performance Limits (as defined in Vol 2, Annex CE, References Acronyms and Glossary) when exposed to an electric field of 50V/m at frequencies of 2MHz to 18GHz. The tests must be performed using calibrated equipment, and it is recommended that the test be performed by an accredited EMC facility.	No
2.1.3.3.2	TPS-919	RADHAZ			
2.1.3.3.2.0-1	TPS-920	The ISS-S must meet the requirements of Health Canada Safety Code 6 and Canadian Forces Technical Order (CFTO) C-55-040-001/TS-001.	Analysis - and - Test	ISS-S hardware will be subject to RF safety testing in the form of an RF Safety Survey or a Specific Absorption Rate (SAR) test in accordance with CFTO C-55-040-001/TS-001 by DND SME. Compliance with this requirement will be indicated by a certification from the DND SME that the ISS-S is compliant with CFTO C-55-040-001/TS-001.	No
2.1.3.3.3	TPS-925	Electrostatic Discharge			
2.1.3.3.3.0-1	TPS-926	The ISS-S must meet all requirements from MIL STD 1686C, 5.2.2.1, Direct Contact, Non-Operating Assembly, 2000V Body/Finger or Hand/Metal HBM test; or IEC 61000-4-2 requirements for Level 1, Non-Operating, Direct Contact Discharges on connectors and interfaces.	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL STD 1686C, 5.2.2.1, Direct Contact, Non-Operating Assembly, 2000V Body/Finger or Hand/Metal HBM test; or IEC 61000-4-2	No

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				<p>requirements for Level 1, Non-Operating, Direct Contact Discharges on connectors and interfaces, as per the requirement. Test must be performed by an accredited EMC or ESD Facility. Test must be performed on a minimum of eight points on each component of the ISS-S.</p> <p>Accreditation from any of the following institutions or, if applicable, their European or international equivalents, is acceptable: International Standards Organization (ISO) Federal Communications Commission (FCC) Industry Canada (IC) American Association for Lab Accreditation (AALA) Canadian Standards Association (CSA) Underwriter Laboratory (UL) National Institute of Standards in Technology (NIST) National Association of Radio and Telecommunications Engineers (NARTE)</p> <p>Other accreditations can be considered when submitted by the Contractor.</p>	
2.1.3.3.3.0-2	TPS-1031	The ISS-S must meet all requirements from MIL STD 1686C, 5.2.2.2, Direct Contact, Operating Equipment, 4000V Hand/Metal HBM test; or IEC 61000-4-2 requirements for Level 2, Operating, Direct Contact Discharges on the component	Test	The Contractor must prove by testing that the ISS-S meets the requirement. Test IAW MIL STD 1686C, 5.2.2.2, Direct Contact, Operating Equipment, 4000V Hand/Metal HBM test; or IEC	No

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		surface.		<p>61000-4-2 requirements for Level 2, Operating, Direct Contact Discharges on the component surface, as per the requirement. Test must be performed by an accredited EMC or ESD Facility. Test must be performed on a minimum of eight points on each component of the ISS-S.</p> <p>Accreditation from any of the following institutions or, if applicable, their European or international equivalents, is acceptable: International Standards Organization (ISO) Federal Communications Commission (FCC) Industry Canada (IC) American Association for Lab Accreditation (AALA) Canadian Standards Association (CSA) Underwriter Laboratory (UL) National Institute of Standards in Technology (NIST) National Association of Radio and Telecommunications Engineers (NARTE)</p> <p>Other accreditations can be considered when submitted by the Contractor.</p>	
2.1.3.3.4	TPS-1032	Grounding			
2.1.3.3.4.0-1	TPS-1034	To maximise likelihood of compliance with Electromagnetic Environmental Effects requirements of section TPS-312, the maximum	Test	If the ISS-S configuration has not changed from P(Bid), no test is required.	No

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		DC resistance from every ISS-S physical device to every other ISS-S physical device should be 25 milliohms or less.		Otherwise: The Contractor must prove by testing that the ISS-S meets the requirement. The Contractor must provide a test report that provides DC resistance measurements from every ISS-S physical device to every ISS-S physical device. Measurements must be taken with a calibrated milliohm meter.	
2.1.3.3.4.0-2	TPS-1035	To maximise likelihood of compliance with Electromagnetic Environmental Effects requirements of section TPS-312, the maximum DC resistance across all connectors and interfaces on any ISS-S physical device should be 2.5 milliohms or less.	Test	If the ISS-S configuration has not changed from P(Bid), no test is required. Otherwise: The Contractor must prove by testing that the ISS-S meets the requirement. The Contractor must provide a test report that provides DC resistance measurements for every ISS-S physical device. The DC resistance from an ISS-S physical device across all connectors and interfaces must be provided in the test report. Measurements must be taken with a calibrated milliohm meter.	No
2.1.4	TPS-79	Functional Security			
2.1.4.0-1	TPS-927	Digital data consists of all digitized data stored, used and exchanged, including but not limited to digitized voice, control data and user data.			
2.1.4.1	TPS-981	Access Controls			
2.1.4.1.0-1	TPS-1467	The ISS-S should provide an access control mechanism to prevent unauthorised access.	Demo	The Contractor must demonstrate that the access control mechanism provided as part of the ISS-S does prevent unauthorized access to the system.	No

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2.1.4.1.0-2	TPS-5170	The ISS-S access control should not require multiple logins.	Demo	The Contractor must demonstrate that the access control mechanism provided as part of the ISS-S only requires a single login for access.	No
2.1.4.1.0-3	TPS-982	Only authorized users should have access to digital data stored on the Main Data Storage and on the External Data Storage Device, and digital data transmitted, received and processed by the ISS-S.	Demo	The Contractor must demonstrate that the access control mechanism controls access to digital data stored on the Main Data Storage and on the External Data Storage Device, and controls access to digital data transmitted, received and processed by the ISS-S.	No
2.1.4.1.0-4	TPS-5171	Activation of a specific ISS-S "User Profile" should be performed using a single user identification/password combination.	Demo	The Contractor must demonstrate that the access control mechanism employed to activate a user profile can be done using a simple user identification password combination.	No
2.1.4.2	TPS-964	Identification and Authentication (I&A)			
2.1.4.2.0-1	TPS-968	The ISS-S should provide an I&A function to authenticate ISS-S Users.	Demo	The Contractor must demonstrate that the I&A mechanism can be used to authenticate an ISS-S User	No
2.1.4.2.0-2	TPS-970	The ISS-S should provide an I&A function to authenticate a Wireless PTT that connects to it which does not require complex user intervention.	Demo	The Contractor must demonstrate that an authentication mechanism can be used to authenticate subsystem devices/equipment that connect wirelessly. The demonstration must show that the authentication process does not require user intervention through the BMS such as selection of wireless networks or devices, or entering of identification or password. The demonstration must be performed with more than one collocated ISS-S and Wireless PTTs being authenticated at the same time.	No

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2.1.4.2.0-3	TPS-973	The ISS-S I&A function for ISS-S User authentication should implement a user identification and password authentication technique (one factor) to access the ISS-S, with the following characteristics: <ul style="list-style-type: none"> • An authentication procedure is required to access the ISS-S computer, the data stored on the Main Data Storage and the data stored on the External Data Storage Device; • An authentication procedure is not required to provide ISS-S radio network voice and data services; and • If an Operating System inactivity timer is implemented, allow for the ISS-S User to be able to disable the ISS-S Operating System inactivity timer. 	Demo	The Contractor must demonstrate that the I&A mechanism must be used to authenticate the ISS-S User in order to access the ISS-S computer or stored (local or external) data, but that no I&A is required to access the radio network. If an Operating System inactivity timer is implemented, the Contractor must demonstrate that the I&A mechanism inactivity timer can be disabled by the ISS-S User.	No
2.1.4.2.0-4	TPS-5145	The ISS-S User password based authentication function should provide a settable number of consecutive unsuccessful entries before ISS-S lock-out that is settable from a minimum of 3 up to 15.	Demo	The Contractor must demonstrate that the I&A mechanism provides a means to set the number of allowable number of consecutive failed (unsuccessful) attempts anywhere from 3 and up to 15.	No
2.1.4.2.0-5	TPS-5146	The ISS-S User password based authentication function should provide a "lock-out time delay" that is settable from 30 seconds or less to 10 minutes or more in increments of 30 seconds or less.	Demo	The Contractor must demonstrate that the I&A mechanism allows the lock-out time delay to be set anywhere from 30 seconds or less to 10 minutes or more in increments of 30 seconds or less.	No
2.1.4.2.0-6	TPS-4082	The ISS-S should provide an ISS-S Operating System settable inactivity timer with the following characteristics: <ul style="list-style-type: none"> • When the ISS-S Operating System inactivity timer has elapsed, the ISS-S User is prevented access the ISS-S BMS software functions; • The ISS-S Operating System needs to be reactivated via User Identification and Authentication to give the ISS-S User access to 	Demo	The Contractor must demonstrate that the I&A mechanism integrates an inactivity timer for the ISS-S Operating System as per the requirement.	No

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		the ISS-S BMS software functions; and • The ISS-S voice exchanges, data reception and automated data transmission are not affected in any way by the ISS-S Operating System inactivity timer.			
2.1.4.2.0-7	TPS-4084	The ISS-S Operating System inactivity timer should be settable by the ISS-S User and be in a range from 30 seconds or less to 10 hours or more in increments of 30 seconds or less.	Demo	The Contractor must demonstrate that the I&A mechanism inactivity timer should be settable in a range from 30 seconds or less to 10 hours or more in increments of 30 seconds or less.	No
2.1.4.2.0-8	TPS-976	The ISS-S password size should be settable from a minimum of 4 characters and accept passwords of up to 16 characters or more.	Demo	The Contractor must demonstrate that the I&A mechanism minimum password size can be set from a minimum of 4 characters to up to 16 or more characters.	No
2.1.4.3	TPS-929	Data At Rest (DAR)			
2.1.4.3.1	TPS-5353	General			
2.1.4.3.1.0-1	TPS-930	Stored digital data should be secured when stored in Main Data Storage as part of the ISS-S, and when carried on External Data Storage Devices.	Demo	The Contractor must demonstrate that the Data At Rest (DAR) functionality provided as part of the ISS-S secures digital data when stored either locally or on an External Data Storage Device.	No
2.1.4.3.1.0-2	TPS-931	Stored digital data should be secured using both cryptographic encryption and integrity protection.	Demo	The Contractor must demonstrate that the Data At Rest (DAR) functionality provided as part of the ISS-S secures stored digital data using cryptographic encryption and integrity protection.	No
2.1.4.3.1.0-3	TPS-933	The encryption mechanism should provide a minimum of 128 bits of security (see NIST SP 800-57 part 1, Table 2).	Analysis - and - Demo	The Contractor must provide a detailed description of how the requirement is met. The description must clearly show how the proposed solution meets the requirement. The Contractor must also demonstrate	No

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				that the confidentiality component of the Data At Rest (DAR) functionality uses a cryptographic encryption technique that provides a minimum of 128 bits of security.	
2.1.4.3.1.0-4	TPS-934	The encryption mechanism used to secure stored data should be AES (FIPS 197).	Test	The test must consist of the Contractor providing Canada with a valid Cryptographic Algorithm Validation Program (CAVP) certificate for its AES implementation used to provide the confidentiality component of the DAR functionality of ISS-S. The test will have to have been performed by one of the third-party laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).	No
2.1.4.3.1.0-5	TPS-935	The encryption mechanism should use one of the following block cipher modes of operations: CBC (NIST SP-800-38A), CTR (NIST SP-800-38A), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D).	Test	<p>If the ISS-S configuration has not changed from P(Bid), no other test is required.</p> <p>Otherwise:</p> <p>The test must consist of the Contractor providing Canada with a valid Cryptographic Algorithm Validation Program (CAVP) certificate for its AES implementation used to provide the confidentiality component of the DAR functionality of ISS-S and implements one of the following cryptographic modes of operations: CBC, CTR, CCM or GCM. The test will have to have been performed by one of the third-party</p>	No

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				laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).	
2.1.4.3.1.0-6	TPS-936	The integrity mechanism used to protect stored data should provide an equivalent strength factor of at least 80 bits.	Test	The Contractor must demonstrate that the integrity component of the Data At Rest (DAR) functionality provided as part of the ISS-S secures the integrity of stored digital data using a mechanism providing at least 80 bits of strength.	No
2.1.4.3.1.0-7	TPS-937	The integrity of stored data should be provided using one of the following techniques: a) AES 128 bits encryption (FIPS 197) in CMAC (NIST SP-800-38B), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D) mode; b) AES 256 bits encryption (FIPS 197) in CMAC (NIST SP-800-38B), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D) mode; or c) Keyed-Hash Message Authentication Code (HMAC) as per FIPS 198-1 using one of the NIST approved hash functions (FIPS 180-3).	Test	If the ISS-S configuration has not changed from P(Bid), no other test is required. Otherwise: The test must consist of the Contractor providing Canada with a valid Cryptographic Algorithm Validation Program (CAVP) certificate for its cryptographic integrity mechanism implementation used for the DAR functionality on ISS-S and implements one of the following cryptographic modes of operations: AES-128-CMAC, AES-128-CCM, AES-128-GCM, AES-256-CMAC, AES-256-CCM, AES-256-GCM or a FIPS 198-1 approved HMAC functions. The test will have to have been performed by one of the third-party laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).	No
2.1.4.3.1.0-8	TPS-938	The encryption and integrity mechanisms	Test	If the ISS-S configuration has not	No

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		implemented for securing (confidentiality and integrity) stored data should be validated to a minimum of FIPS 140-2 Level 2 or equivalent.		changed from P(Bid), no other test is required. Otherwise: The test must consist of the Contractor providing Canada with a NIST issued FIPS 140-2 Level II validation certificate or equivalent for the cryptographic module implementing the DAR function (confidentiality and integrity) provided as part of the ISS-S	
2.1.4.3.2	TPS-129	Zeroizing			
2.1.4.3.2.0-1	TPS-954	The ISS-S must provide a zeroize function with the following characteristics: - A means to zeroize the ISS-S such that the information stored in the BMS becomes inaccessible and unusable and the ISS-CS becomes unusable in the ISS Network; and - The ISS-S needs to be able to be re-configured after zeroization	Test	The Contractor must prove, using a test, that the ISS-S User can perform a local zeroize such that the information stored in the BMS becomes inaccessible and unusable and the ISS-CS becomes unusable in the ISS Network. The Contractor must also prove, using a test, that the ISS-S can be re-configured after zeroization.	No
2.1.4.3.2.0-2	TPS-955	The means to zeroize the stored digital data may be provided by securely deleting the storage key used for securing encrypted and integrity protected digital data.			
2.1.4.3.2.0-3	TPS-956	The digital data zeroization function must use a dual activation mechanism such that the User performs two separate actions to perform the zeroization.	Demo	The Contractor must demonstrate that the local zeroize function is available to all ISS-S Users and requires a User to perform two separate actions to perform the zeroization.	No
2.1.4.3.2.0-4	TPS-957	When an ISS-S User initiates a local zeroization of the digital data, the ISS-S should send a message on the Blue PA COI indicating that the ISS-S User	Demo	The Contractor must demonstrate that when an ISS-S User initiates a local zeroization of the digital data, the ISS-S	No

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		has initiated a local zeroization, including his last known position, such that the ISS-S Users that are members of the Blue PA COI can identify the zeroized ISS-S.		sends a message on the Blue PA COI indicating that the ISS-S User has initiated a local zeroization, including his last known position, such that the ISS-S Users that are members of the Blue PA COI can identify the zeroized ISS-S.	
2.1.4.3.3	TPS-958	Over The Air Zeroizing (OTAZ)			
2.1.4.3.3.0-1	TPS-959	The ISS-S should provide a zeroize function with the following characteristics: - A means to remotely zeroize the ISS-S such that the information stored in the BMS becomes inaccessible and unusable and the ISS-CS becomes unusable in the ISS Network; and - The ISS-S needs to be able to be re-configured after remote zeroization	Demo	The Contractor must demonstrate that an ISS-S can be remotely zeroized. The Contractor must also demonstrate that the ISS-S can be re-configured after zeroization.	Yes
2.1.4.3.3.0-2	TPS-960	The ISS-S remote digital data zeroization function should require a minimum of two (2) ISS-S Users operating two (2) distinct ISS-S, to be effected on a third ISS-S.	Demo	If the ISS-S configuration has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate that an ISS-S being operated by a user that is a member of a larger group of users can be remotely zeroized by a minimum of 2 other ISS-S users (also members of the same group) while each employing their own instances of the ISS-S.	Yes
2.1.4.3.3.0-3	TPS-961	The ISS-S remote digital data zeroization function should be available to all Users.	Demo	The Contractor must demonstrate that the remote zeroize function is available to all ISS-S User.	No
2.1.4.3.3.0-4	TPS-962	The ISS-S remote digital data zeroization function should require the Users performing it to provide confirmation of the deletion request.	Demo	If the ISS-S configuration has not changed from P(Bid), no other demonstration is required.	No

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				Otherwise: The Contractor must demonstrate that the remote zeroize function is available to all ISS-S User and requires a user confirmation of his/her action before being effected.	
2.1.4.4	TPS-988	EMCON			
2.1.4.4.1	TPS-4989	Normal and Electronic Silence			
2.1.4.4.1.0-1	TPS-1481	The ISS-S must support the following emanation control (EMCON) conditions as defined by CFTO B-GL-334-001/FP-001, Standing Operating Procedures for Land Operations: • EMCON 1-electronic silence; • EMCON 4-no restrictions.	Demo	The Contractor must demonstrate how all ISS-S electronic functionality can be shutdown by the user in a simple and timely manner.	No
2.1.4.4.2	TPS-4990	Radio Silence			
2.1.4.4.2.0-1	TPS-4991	The ISS-S must support the EMCON 2-radio silence condition as defined by CFTO B-GL-334-001/FP-001, Standing Operating Procedures for Land Operations, by shutting down all radio transmissions including ISS-CS transmissions and any other wireless transmissions.	Demo	The Contractor must demonstrate compliance with this requirement by the shutdown of the RF communications including all "stay alive" protocol transmissions that may be required for ISS-CS normal operation. Canada may wish to monitor the spectrum to ensure compliance with the full RF shutdown.	No
2.1.4.4.2.0-2	TPS-2677	The ISS-S should support the EMCON 2-radio silence condition as defined by CFTO B-GL-334-001/FP-001, Standing Operating Procedures for Land Operations, by shutting down all radio transmissions including ISS-CS transmissions and any other wireless transmissions, while still receiving voice messages from another ISS-S node which breaks EMCON 2 condition.	Test	Compliance with this requirement must be indicated by test results from an accredited EMC test facility that certifies the ISS-S meets the electric field emanation levels of MIL-STD-464A, Section 5.13 or MIL-STD-461F, Section 5.17 - RE102 when in EMCON 2 condition. Since there is no transmitter, there is no fundamental frequency applicable for this test, which means that	No

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				<p>the ISS-S must meet MIL-STD-461F, Section 5.17 - RE102 throughout the complete RF spectrum. Test must show that while in EMCON 2 condition voice messages can still be received. Test must be performed by an accredited EMC Facility.</p> <p>Accreditation from any of the following institutions or, if applicable, their European or international equivalents, is acceptable: International Standards Organization (ISO) Federal Communications Commission (FCC) Industry Canada (IC) American Association for Lab Accreditation (AALA) Canadian Standards Association (CSA) Underwriter Laboratory (UL) National Institute of Standards in Technology (NIST) National Association of Radio and Telecommunications Engineers (NARTE)</p> <p>Other accreditations can be considered when submitted by the Contractor.</p>	
2.1.4.4.2.0-3	TPS-2678	While EMCON 2 Conditions are imposed on the ISS-S, the following ISS-S functionality must remain active and accessible: a. Position generation and display functions (but not position reporting functions); b. Navigation functions; and	Demo	The Contractor must demonstrate compliance with this requirement by demonstrating that the following functions remain active during EMCON 2 conditions: a. Position generation and display	No

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		c. Non-networked Battle Management System functions; and d. Non-networked System Management functions; and e. Target Acquisition functions using the CORAL-CR-C.		functions (but not position reporting functions); b. Navigation function; c. Non-networked Battle Management System functions; d. Non-networked System Management functions; e. Non-networked Target Acquisition functions using the CORAL-CR-C.	
2.1.4.5	TPS-939	Data In Transit (DIT)			
2.1.4.5.0-1	TPS-940	When digital data is transmitted from one ISS-S to another it must be secured using cryptographic encryption and provide data integrity measures.	Contractor's Choice	The Contractor must prove that the requirement is met.	No
2.1.4.5.0-2	TPS-944	The encryption mechanism must provide a minimum of 128 bits of security (see NIST SP 800-57 part 1, Table 2).	Contractor's Choice	The Contractor must prove that the encryption mechanism provides at least 128 bits of security.	No
2.1.4.5.0-3	TPS-945	The encryption mechanism used to secure transmitted data must be AES (FIPS 197).	Test	The test must consist of the Contractor providing Canada with a valid Cryptographic Algorithm Validation Program (CAVP) certificate for its AES implementation used for used to provide the confidentiality component of the DIT functionality of ISS-S. The test will have to have been performed by one of the third-party laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).	No
2.1.4.5.0-4	TPS-946	The encryption mechanism must use one of the following block cipher modes of operations: OFB (NIST SP-800-38A), CFB (NIST SP-800-38A), CTR (NIST SP-800-38A), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D).	Test	The test must consist of the Contractor providing Canada with a valid Cryptographic Algorithm Validation Program (CAVP) certificate for its AES implementation used to provide the confidentiality component of the DIT	No

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				functionality of ISS-S and implements one of the following cryptographic modes of operations: OFB, CFB, CTR, CCM or GCM. The test will have to have been performed by one of the third-party laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).	
2.1.4.5.0-5	TPS-947	The integrity mechanism used to protect transmitted data must provide an equivalent strength factor of at least 16 bits.	Contractor's Choice	The Contractor must prove that the requirement is met.	No
2.1.4.5.0-6	TPS-948	The integrity of transmitted data should be provided using one of the following techniques: a) AES 128 bits encryption (FIPS 197) in CMAC (NIST SP-800-38B), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D) mode; b) AES 256 bits encryption (FIPS 197) in CMAC (NIST SP-800-38B), CCM (NIST SP-800-38C) or GCM (NIST SP-800-38D) mode; c) Keyed-Hash Message Authentication Code (HMAC) as per FIPS 198-1 using one of the NIST approved hash functions (FIPS 180-3); or d) using a Cyclic-Redundancy-Checksum (CRC) of at least 16 bit calculated over the plain text data and encrypted along with the plain text data using the cryptographic encryption algorithm.	Test	If the ISS-S configuration has not changed from P(Bid), no other test is required. Otherwise: The test must consist of the Contractor providing Canada with a valid Cryptographic Algorithm Validation Program (CAVP) certificate for its cryptographic integrity mechanism implementation used for the DIT functionality on ISS-S as per the requirement. The test will have to have been performed by one of the third-party laboratories accredited as Cryptographic and Security Testing (CST) Laboratories by the National Voluntary Laboratory Accreditation Program (NVLAP).	No
2.1.4.5.0-7	TPS-949	The encryption and integrity mechanisms implemented for securing data in transit should be validated to a minimum of FIPS 140-2 Level 2 or equivalent.	Test	If the ISS-S configuration has not changed from P(Bid), no other test is required.	No

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				Otherwise: The test must consist of the Contractor providing Canada with a NIST issued FIPS 140-2 Level II validation certificate or equivalent for the cryptographic module implementing the DIT function (confidentiality and integrity) provided as part of the ISS-S	
2.1.4.6	TPS-4087	TRANSEC			
2.1.4.6.0-1	TPS-4089	As per CNSSI 4009, TRANSEC is defined as: "Component of COMSEC resulting from the application of measures designed to protect transmissions from interception and exploitation by means other than cryptanalysis."			
2.1.4.6.0-2	TPS-4088	The ISS-S should provide TRANSEC functionality using one of the following techniques: • Spread Spectrum; • Frequency Hopping; or • Spread Spectrum and Frequency Hopping	Contractor's Choice	The Contractor must provide a detailed description of how the requirement is met. The description must clearly show how the proposed solution meets the requirement. The Contractor must also demonstrate that the TRANSEC functionality provided as part of the ISS-S provides a set of measures designed to protect transmissions from interception and exploitation by means other than cryptanalysis.	No
2.1.4.6.0-3	TPS-5335	The TRANSEC functionality described in TPS-4088 should be available on all the ISS-S provided frequency bands.	Contractor's Choice	The Contractor must provide a detailed description of how the requirement is met. The description must clearly show how the proposed solution meets the requirement. The Contractor must also demonstrate	No

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				that the TRANSEC functionality provided as part of the ISS-S provides a set of measures designed to protect transmissions from interception and exploitation by means other than cryptanalysis.	
2.1.4.7	TPS-987	Key Management			
2.1.4.7.0-1	TPS-5148	Key management is the ensemble of processes, techniques, procedures, hardware and software used to manage the life cycle of cryptographic keying material. Key management includes "Key Ordering", "Key Generation", "Key Production", "Key Storage/Archiving", "Key Distribution", "Key Usage", "Key Destruction" and "Key Accounting". The key management functionality has to be designed to provide the cryptographic keying material "Confidentiality" and "Integrity" throughout its life cycle.			
2.1.4.7.0-2	TPS-5149	At a minimum, the ISS-S security services will comprise the mandatory Data In Transit (DIT) security service. Other likely security services are: Data At Rest (DAR) and TRANSEC. All of these security services will require cryptographic keying material for their operations.			
2.1.4.7.0-3	TPS-5150	An ISS Key Management function, which includes "Key Generation", "Key Production" and "Key Distribution", must be provided through a Key Management Planning (KMP) tool, to manage the keying material used by any of the ISS-S security services.	Demo	The Contractor must demonstrate that the ISS solution includes a KMP tool with a Key Management function, including demonstrating the following functions: "Key Generation", "Key Production" and "Key Distribution".	No
2.1.4.7.0-4	TPS-1482	The ISS Key Management function must provide a minimum strength of 128 bits of security (see NIST SP 800-57 part 1, Table 2) to protect the confidentiality of the cryptographic keying material used by the ISS-S security services throughout	Contractor's Choice	The Contractor must prove that the Key Management function provides at least 128 bits of security to protect the confidentiality of the cryptographic keying materiel.	No

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		their life cycle (generation, production, storage, distribution, usage and destruction).			
2.1.4.7.0-5	TPS-5151	The ISS Key Management function must provide a minimum of 32 bits of integrity to protect cryptographic keying material used by the ISS-S security services throughout their life cycle (generation, production, storage, distribution, usage and destruction).	Contractor's Choice	The Contractor must prove that the Key Management function provides at least 32 bits of integrity to protect the confidentiality of the cryptographic keying material.	No
2.1.4.7.0-6	TPS-1497	The Key Management Planning (KMP) tool must be integrated with the System Executive and Planning Suite (SEP-Suite).	Demo	The Contractor must demonstrate that the ISS KMP tool is integrated to the SEP-Suite.	No
2.1.4.7.1	TPS-4992	Key Generation & Production			
2.1.4.7.1.0-1	TPS-5152	Key Generation is the process of randomly generating a key with an appropriate number of bits. The random number generation technique used to produce the key has to be designed to provide at least as much entropy as the size of the keying material it is required to produce. For example, to produce a 128 bit key requires a random number generator capable of producing at least 128 bits of entropy will be needed. Key Production is the process of transforming a random key into a key that can be consumed by an end cryptographic device. Typical steps in the production would be the addition of attributes indicating the type of usage for the key (i.e. Traffic Encryption Key -TEK- or Key Encryption Key -KEK - or others), the level of security a key can be used to protect, integrity checks on the key and possibly encrypting the key (i.e. wrapping the key using another key - KEK) to secure its transfer to another destination or for local storage.			
2.1.4.7.1.0-2	TPS-1492	The ISS Key Management function must use a random number generation technique that provides a minimum of 128 bits of entropy for the	Contractor's Choice	The Contractor must prove that the Key Management function uses a random number generation technique that	No

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		generation of ISS-S cryptographic keying material.		provides a minimum of 128 bits of entropy.	
2.1.4.7.1.0-3	TPS-4090	The ISS key generation and production function should be implemented with the help of a FIPS 140-2 Level 2 or equivalent validated cryptographic module providing a random number generator with a minimum of 128 bits of entropy and the necessary cryptographic services to generate and produce keying material with a minimum of 128 bits of confidentiality and 32 bits of integrity.	Test	If the ISS-S configuration has not changed from P(Bid), no other test is required. Otherwise: The test must consist of the Contractor providing Canada with a NIST issued FIPS 140-2 Level II validation certificate or equivalent for the cryptographic module implementing the key generation and production function provided as part of the ISS Key Management function.	No
2.1.4.7.2	TPS-4993	Key Distribution			
2.1.4.7.2.0-1	TPS-5153	Key Distribution is the process of transporting a key that has been securely generated and produced to its final destination into an end cryptographic unit (ECU) for its usage and ultimate destruction. In the context of this procurement, the ECU is the ISS-S. The distribution process may involve the storage of the key in external system during transport and might also require transformation of the key (such as unwrapping it and wrapping it again) before it reaches its final destination. The confidentiality and the integrity of the key are to be maintained at all times during the key distribution process.			
2.1.4.7.2.0-2	TPS-4994	The ISS Key Management function must provide a means to distribute cryptographic keying material from one working instance of an ISS KMP tool to the destination ISS-S for usage while ensuring their confidentiality and integrity.	Demo	The Contractor must demonstrate that the ISS Key Management function provides a means to distribute cryptographic keying material from an ISS KMP tool to a destination ISS-S while ensuring their confidentiality and	Yes

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				integrity.	
2.1.4.7.2.0-3	TPS-4995	The ISS Key Management function should provide a means to distribute cryptographic keying material from one working instance of an ISS KMP tool to another while ensuring their confidentiality and integrity.	Demo	The Contractor must demonstrate that the ISS Key Management function provides a means to distribute cryptographic keying material from one instance of a KMP tool to another instance of a KMP tool while ensuring their confidentiality and integrity.	No
2.1.4.7.2.0-4	TPS-1488	The ISS Key Management function should provide an Over-The-Air-Rekey (OTAR) function.	Demo	The Contractor must demonstrate that the ISS Key Management function provided as part of the ISS provides a means to perform the rekeying of an ISS-S over the air.	Yes
2.1.4.7.2.0-5	TPS-4093	The key distribution function, including any key distribution device, should be implemented with the help of a FIPS 140-2 Level 2 or equivalent, validated cryptographic module providing the necessary cryptographic services to distribute keying material with a minimum of 128 bits of confidentiality and 32 bits of integrity.	Test	If the ISS-S configuration has not changed from P(Bid), no other test is required. Otherwise: The test must consist of the Contractor providing Canada with a NIST issued FIPS 140-2 Level II validation certificate or equivalent for the cryptographic module implementing the key distribution function provided as part of the ISS Key Management function.	No
2.1.4.8	TPS-4266	EMSEC			
2.1.4.8.0-1	TPS-4267	The ISS-S Audio Display, when connected to both the ISS-S radio and an LCSS GFE radio, must provide at least 40dB of isolation between the two security domains.	Test	The Contractor must provide a certificate of compliance from an accredited facility that indicates that the ISS-S Audio Display provides at least 40 dB of channel isolation between the two security domains.	No
2.1.4.8.0-2	TPS-4268	The ISS-S Audio Display, when connected to both	Contractor's	The Contractor must prove that this	No

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		the ISS-S radio and an LCSS GFE radio, should not enable a direct conductive path between the LCSS GFE radio and the ISS-S while the ISS-S radio is transmitting.	Choice	requirement is met by analysing the absence of any direct electrical link between connection channels on the audio display. Alternatively, any electrical link between the channels that passes through an electrical device must be analysed to show that the channel has insufficient bandwidth to support a covert data channel for unintended signals.	
2.1.5	TPS-80	Reliability, Availability and Maintainability			
2.1.5.0-1	TPS-2036	The ISS-S and all its subsystems are to be capable of operation without loss of function throughout its expected service life across the full spectrum of environments and operating conditions specified above and defined in Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary.			
2.1.5.1	TPS-2039	Reliability			
2.1.5.1.1	TPS-2043	Mission Reliability			
2.1.5.1.1.0-1	TPS-2044	The ISS-S must have a Mean Time Between Critical Failures (MTBCF) of at least 750 hours (minimum acceptable value), when used as per Volume 2, Annex CB, Appendix 3 Mission Profile and Operation Mode Summary. A critical failure is an event that results in the loss or degradation below normal performance limits of a Critical Function, as defined in Volume 2, Annex CB, Appendix 4 - Failure Definition and Scoring Criteria.	Analysis - and - Test	The Contractor must provide the final system MTBCF value with quantitative evidence that the actual system MTBCF is not less than that specified in the requirement. The MTBCF must be verified by system / LRU level test and analysis, including cables and connectors, based on the usage profile of Volume 2, Annex CB, Appendix 3 Mission Profile and Operation Mode Summary, and failure determination as per Volume 2, Annex CB, Appendix 4 - Failure Definition and Scoring Criteria. The reliability assessment of the MTBCF	No

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				<p>must identify any limitations of the assessment, their effects on the MTBCF estimate, and any inferences on the requirement compliance. The confidence interval of the estimate must be provided. Any potential RAM related problem areas or issues associated with the Contractor's solution, such as cabling and connector durability under realistic field use, must be identified, its impact on the MTBCF assessed, and failure mitigation solutions and corrective action plans described.</p> <p>The above requirements apply equally for any Non-developmental or COTS/MOTS products making up part or all of the system.</p>	
2.1.5.1.2	TPS-2048	Basic Reliability			
2.1.5.1.2.0-1	TPS-2049	The ISS-S must have a Mean Time Between Failure (MTBF) of at least 500 hours (minimum acceptable value), when used as per Volume 2, Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary. A failure is defined as the inability of the ISS-S to perform within previously specified limits or an intended function. In the determination of the MTBF it includes Critical Function Failures, Essential Function Failures and Non-Essential Function Failures as defined in Volume 2, Annex CB, Appendix 4 - Failure Definition and Scoring Criteria.	Analysis - and - Test	<p>The Contractor must provide the final system MTBF value with quantitative evidence that the actual system MTBF is not less than that specified in the requirement. The MTBF must be verified by system / LRU level test and analyses, including cables and connectors, based on the usage profile of Volume 2, Annex CB, Appendix 3 Mission Profile and Operation Mode Summary, and failure determination as per Volume 2, Annex CB, Appendix 4 - Failure Definition and Scoring Criteria.</p> <p>The reliability assessment of this MTBF must identify any limitations of the</p>	No

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				assessment, their effects on the MTBF estimate, and any inferences on the requirement compliance. The confidence interval of the estimate must also be provided. Any potential RAM related problem areas or issues associated with the Contractor's solution, such as cabling and connector durability under realistic field use, must be identified, its impact on the MTBF assessed, and failure mitigation solutions and corrective action plans described. The above requirements apply equally for any Non-developmental or COTS/MOTS products making up part or all of the system.	
2.1.5.2	TPS-2055	Maintainability			
2.1.5.2.1	TPS-2056	Maintenance Concept			
2.1.5.2.1.0-1	TPS-2057	To maximise the Operational Availability of the ISS-S, repairs are to be conducted as far forward as possible. To achieve this, the maintenance concept is based on the ability to detect and isolate faults (using BIT or other method), and the replacement of subsystems and modules (LRUs - Line Replaceable Units) rather than repair. Refer to Annex CA Appendix 2 Support Concept for details on the overall Maintenance Concept.			
2.1.5.2.1.0-2	TPS-2058	The ISS-S must be designed so that the User can detect, isolate and remove a faulty LRU and replace, configure and check-out the new LRU.	Contractor's Choice	The Contractor must prove that the design supports User detection and isolation of faulty LRUs, and replacement, configuration and check-out of new LRUs.	No
2.1.5.2.2	TPS-2059	Maintainability General Requirements			

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2.1.5.2.2.0-1	TPS-4199	If tools are required to perform ISS-S Operator Maintenance, make emergency repairs or remove and replace an LRU, there must be only one multifunction tool to perform all of the above tasks.	Demo	The Contractor must prove that the multifunction tool is the only tool required by the ISS-S User to make emergency repairs or remove and replace an LRU.	No
2.1.5.2.2.0-2	TPS-2066	The failure of any ISS-S LRU must not induce or cause damage in another ISS-S LRU.	Contractor's Choice	The Contractor must provide adequate assurances of this requirement through such methods as a FMEA/FMECA or other applicable analyses.	No
2.1.5.2.3	TPS-2069	ISS-S User Maintenance			
2.1.5.2.3.0-1	TPS-2071	ISS-S User maintenance must be limited to system checks, inspections, cleaning and replacement of faulty LRUs.	Contractor's Choice	The Contractor must prove that the ISS-S meets the requirement.	No
2.1.5.2.3.0-2	TPS-2070	ISS-S User maintenance, excluding replacement of faulty LRUs, must not exceed a mean time of 15 minutes per Battlefield Day.	Contractor's Choice	The Contractor must prove that the ISS-S meets the requirement.	No
2.1.5.2.3.0-3	TPS-2072	The ISS-S must not need to be dismantled to conduct system checks and inspection.	Contractor's Choice	The Contractor must prove that the ISS-S meets the requirement.	No
2.1.5.2.3.0-4	TPS-2073	The ISS-S must withstand normal daily cleaning with mild detergent and water without any degradation in operation or reliability.	Contractor's Choice	The Contractor must prove that the ISS-S will withstand daily cleaning with mild detergent and water.	No
2.1.5.2.4	TPS-2076	Mission Service Restoration			
2.1.5.2.4.0-1	TPS-2077	The Maximum Mission Time to Restore System (MaxMTTRSys) by the User must not be greater than 15 minutes at the 90th percentile (based on a log-normal distribution). This includes fault detection and isolation, replacement of the faulty LRU, and confirming repair.	Test	The Contractor must prove that the MaxMTTRSys is not greater than that specified through a Maintainability Demonstration test. Guidance on applicable tests is provided in MIL-HDBK-470A Appendix B.	No
2.1.5.2.4.0-2	TPS-2078	The Maximum Mission Time to Restore Service (MaxMTTRSvc) must not be greater than 30 minutes at the 90th percentile (based on a log-normal distribution). This includes fault detection and isolation, replacement and reconfiguration of the faulty LRU, adjustment, calibration, and checks. Service is considered restored when the	Test	The Contractor must prove that the MaxMTTRSvc is not greater than that specified through a Maintainability Demonstration test. Guidance on applicable tests is provided in MIL-HDBK-470A Appendix B.	No

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		ISS-S node is fully operational and has full data and voice access to the ISS-S network.			
2.1.5.2.5	TPS-2082	Preventive Maintenance			
2.1.5.2.5.0-1	TPS-2083	The ISS-S should not require any preventive maintenance beyond the daily operator checks, inspection and cleaning, and ISS-S Audio Display canalphone replacement.	Analysis	If the ISS-S configuration and preventive maintenance tasks have not changed from P(Bid), no other information is required. Otherwise: The Contractor must describe the required daily operator checks, inspection and cleaning, and Audio Display in-ear standard insert replacement frequency.	No
2.1.5.2.5.0-2	TPS-2084	The ISS-S must not exceed a mean time of 1.5 hours of preventive maintenance per 154 operating hours (weekly) beyond daily operator checks, inspection and cleaning, and ISS-S Audio Display Canalphone replacement.	Analysis	The Contractor must provide a description of the proposed preventive maintenance tasks, their frequency and times for completion.	No
2.1.5.3	TPS-2085	Built In Test (BIT) and Fault Detection			
2.1.5.3.0-1	TPS-2087	The ISS-S should incorporate embedded Built In Test (BIT) functionality to detect, diagnose and isolate system faults and failures as per Volume 2, Annex CB, Appendix 4 - Failure Definition and Scoring Criteria, and when used as per Volume 2, Annex CB, Appendix 3 Mission Profile and Operation Mode Summary.	Analysis - and - Demo	Analysis - If the ISS-S configuration has not changed from P(Bid), no other analysis is required. Otherwise: The Contractor must update the analysis provided at bid time. In addition to the analysis, the Contractor must provide a demonstration. Demo - The Contractor must demonstrate the BIT coverage, initiation,	No

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				obtrusiveness, reporting, suppression and logging capabilities, and prove that they function as described in the analysis and in the design documentation. The demonstration must prove that the ISS-S's Built In Test (BIT) functionality can detect, diagnose and isolate system faults and failures as per Annex CB, Appendix 4 - Failure Definition and Scoring Criteria, when used as per Annex CB, Appendix 3 Mission Profile and Operation Mode Summary.	
2.1.5.4	TPS-2377	Software Fault Recovery			
2.1.5.4.0-1	TPS-2378	The ISS-S should monitor software application operations for faults and failures.	Contractor's Choice	The Contractor must provide evidence that the ISS-S software can detect software failures.	No
2.1.5.4.0-2	TPS-2380	The ISS-S should allow the user to restart applications.	Demo	The Contractor must demonstrate that the ISS-S software applications can be restarted.	No
2.1.5.5	TPS-2117	Service Life			
2.1.5.5.0-1	TPS-2119	The operation, reliability and maintainability of the ISS-S, excluding ISS Batteries and ISS-ES Internal Batteries, must not be degraded as a result of being transported by land, sea or air, or by storage for up to 8 years under the Basic climatic conditions defined in Volume 2, Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary.	Contractor's Choice	The Contractor must prove that the operation, reliability and maintainability of the ISS-S, excluding ISS Batteries and ISS-ES Internal Batteries, will not be degraded as a result of being transported by land, sea or air, or by storage for up to 8 years under the Basic climatic conditions defined in Volume 2, Annex CB, Appendix 3 ISS-S Mission Profile and Operation Mode Summary.	No
2.2	TPS-74	Subsystem Functional Requirements			
2.2.1	TPS-5341	Modular Load Carriage System			
2.2.1.1	TPS-5343	ISS MLCS Platform			

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2.2.1.1.0-1	TPS-5373	The ISS MLCS Platform, including any augmentation required to allow for the ISS-ES installation and cable/wire routing, must be designed and built in accordance with Annex CB, Appendix 7, MLCS Platform TDP.	Inspection	The Contractor must design and build the ISS MLCS Platform in accordance with Annex CB, Appendix 7, MLCS Platform TDP. Compliance to this requirement will be verified by DND in accordance with the instructions and procedures defined in Section 2 of Annex CB, Appendix 12 - MLCS Verification and QC Requirements.	No
2.2.1.1.0-2	TPS-5380	The ISS MLCS Platform must be provided in two different sizes; medium and small, as per the TDP found in Annex CB, Appendix 7, MLCS Platform TDP.	Inspection	The Contractor must show that the ISS MLCS Platform is provided in both medium and small sizes, as per Annex CB, Appendix 7, MLCS Platform TDP.	No
2.2.1.2	TPS-3471	ISS MLCS Pouches			
2.2.1.2.0-1	TPS-5381	The ISS MLCS Pouches must be designed and built in accordance with Annex CB, Appendix 8, ISS Generic Pouches TDP.	Inspection	The Contractor must design and build the ISS MLCS Pouches in accordance with Annex CB, Appendix 8, MLCS Generic Pouches TDP. Compliance to this requirement will be verified by DND in accordance with the instructions and procedures defined in Section 3 of Annex CB, Appendix 12 - MLCS Verification and QC Requirements.	No
2.2.1.3	TPS-5441	ISS MLCS Load and Fit			
2.2.1.3.0-1	TPS-5430	An ISS MLCS Pouch must be provided with every ISS-S physical device that is not secured directly on the ISS MLCS Platform.	Contractor's Choice	The Contractor must prove that every ISS-S physical device that is not secured directly to the ISS MLCS Platform is accompanied with an ISS MLCS Pouch.	No
2.2.1.3.0-2	TPS-5431	Every ISS-S physical device must be secured on the User in one of the following ways: Secured directly within or upon the ISS MLCS Platform; or • Inserted in an ISS MLCS Pouch which is secured	Demo	The Contractor must prove that the ISS-S physical devices are secured to the ISS MLCS Platform as per the requirement.	No

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		on the ISS MLCS Platform; or <ul style="list-style-type: none"> • Inserted in an ISS MLCS Pouch which is secured on a Combat Pouch with PALS exterior; or • Inserted in an ISS MLCS Pouch which is secured under a Combat Pouch; or • Inserted in an ISS MLCS Pouch which is secured on another ISS MLCS Pouch with PALS exterior. 			
2.2.1.3.0-3	TPS-5432	For all four (4) roles defined in Annex CB, Appendix 9 - Conceptual Load, once the Combat Pouches for the role and the complete ISS-S is secured on the ISS MLCS Platform, the User must have access to the contents of all the Combat Pouches without having to move or remove any pouch or physical device.	Demo	The Contractor must demonstrate that for all roles identified in Appendix 9 - Conceptual Load, the User has access to the contents of all the Combat Pouches, as per the requirement.	No
2.2.1.3.0-4	TPS-5433	For all four (4) roles defined in Annex CB, Appendix 9 - Conceptual Load, once the Combat Pouches for the role and the complete ISS-S is secured on the ISS MLCS Platform, one shoulder of the MLCS Platform must remain clear for weapon butt placement.	Demo	The Contractor must demonstrate that for all roles identified in Appendix 9 - Conceptual Load, one shoulder of the MLCS Platform remains clear for weapon butt placement.	No
2.2.1.3.0-5	TPS-5435	All Combat Ammunition Pouches should remain on the waistline, as per Volume 2, Annex CB, Appendix 9 - Conceptual Load.	Demo	The Contractor must demonstrate that for all roles identified in Volume 2, Annex CB, Appendix 9 - Conceptual Load, every Combat Ammunition Pouch remains on the waistline when wearing the ISS-S.	No
2.2.1.3.0-6	TPS-5434	The Combat Frag Grenade Pouches and Smoke Grenade Pouches should remain on the waistline, as per Volume 2, Annex CB, Appendix 9 - Conceptual Load.	Demo	The Contractor must demonstrate that for all roles identified in Volume 2, Annex CB, Appendix 9 - Conceptual Load, the Combat Frag Grenade Pouches and Smoke Grenade Pouches remain on the waistline when wearing the ISS-S.	No
2.2.1.3.0-7	TPS-5436	The two (2) Combat 200 Round Ammunition Pouches worn by the C9 Gunner must remain on the waistline, at the position shown in Annex CB,	Demo	The Contractor must demonstrate that for the C9 Gunner role identified in Appendix 9 - Conceptual Load, the two	No

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		Appendix 9 - Conceptual Load.		(2) Combat 200 Round Ammunition Pouches remain on the waistline when wearing the ISS-S.	
2.2.1.3.0-8	TPS-5437	The Utility Hydration Cover must remain at the position shown in Annex CB, Appendix 9 - Conceptual Load.	Demo	The Contractor must demonstrate that for all roles identified in Appendix 9 - Conceptual Load, the Utility Hydration Cover remains at the position shown in the Appendix.	No
2.2.1.3.0-9	TPS-5439	ISS MLCS Pouches and ISS physical devices must not be secured to the Combat First Aid Medic pouch.	Demo	The Contractor must demonstrate that there are no ISS MLCS Pouches or ISS physical devices secured to the Combat First Aid Medic Pouch.	No
2.2.1.3.0-10	TPS-5440	The AN/PRC-152 Radio Pouch must be attached at chest height or higher, on the front or on the back of the ISS MLCS Platform.	Demo	The Contractor must demonstrate that the AN/PRC-152 radio can operate as intended with the ISS-S, while the AN/PRC-152 Radio Pouch is attached as per the requirement.	No
2.2.1.3.0-11	TPS-5366	All ISS-S requirements within this specification must be met while the ISS-S is secured to the small MLCS Platform worn by the soldier and while the ISS-S is secured to the medium MLCS Platform worn by the soldier, for all four (4) roles described in Annex CB, Appendix 9 - Conceptual Load.	Contractor's Choice	The Contractor must prove that all requirements found in this TPS are met, as per the MLCS Platform sizes and the roles found in Annex CB, Appendix 9 - Conceptual Load, as per the requirement.	No
2.2.2	TPS-87	Battle Management System			
2.2.2.0-1	TPS-4792	The Battle Management System Performance Specifications include all the hardware specifications related to the data storage, processing unit and displays included in the ISS-S. These specifications also include all the Battle Management software capabilities.			
2.2.2.1	TPS-2478	Tactical User Interface			
2.2.2.1.1	TPS-5354	General			
2.2.2.1.1.0-1	TPS-2483	The ISS-S must include a Tactical User Interface.	Inspection	The Contractor must show that a Tactical	No

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				User Interface is included as part of its ISS-S solution.	
2.2.2.1.1.0-2	TPS-2482	The Tactical User Interface must not be head or helmet mounted.	Inspection	The Contractor must show where the Tactical User Interface is to be worn and demonstrate that it is not to be worn on the head or helmet.	No
2.2.2.1.1.0-3	TPS-2507	The Tactical User Interface must have a control to turn off the display without shutting down the ISS-S.	Demo	If the ISS-S Tactical User Interface has not changed from P(Bid), no other inspection is required. Otherwise: The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.1.0-4	TPS-5218	The Tactical User Interface must allow the control and display of all supported Battle Management Software functions included in section TPS-5125.	Contractor's Choice	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.2	TPS-2480	Resolution			
2.2.2.1.2.0-1	TPS-2488	The Tactical User Interface display must support a minimum resolution of 100 pixels per inch (PPI), both horizontally and vertically.	Contractor's Choice	The Contractor must provide proof that he meets this requirement.	No
2.2.2.1.2.0-2	TPS-2489	The Tactical User Interface display should support a resolution of more than 100 pixels per inch (PPI), both horizontally and vertically.	Contractor's Choice	The Contractor must provide proof that he meets this requirement as proposed at bid time.	No
2.2.2.1.3	TPS-465	Luminance			
2.2.2.1.3.0-1	TPS-5347	The Tactical User Interface display maximum luminance level must be at least 300 cd/m2.	Contractor's Choice	The Contractor must prove that the Tactical UI display can operate with a luminance of at least 300cd/m2.	No
2.2.2.1.3.0-2	TPS-5405	The Tactical User Interface display minimum luminance level must be 1 cd/m2 or less.	Contractor's Choice	The Contractor must prove that the Tactical UI display can operate with a luminance of 1cd/m2 or less.	No
2.2.2.1.3.0-3	TPS-5385	The ISS-S User should have the ability to limit the Tactical User Interface display luminance output to the spectral range of 450 to 525 nm for night	Contractor's Choice	The Contractor must prove that the ISS-S User has the ability to limit the Tactical User Interface display luminance output	No

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		operations.		to the spectral range of 450 to 525 nm.	
2.2.2.1.3.0-4	TPS-517	The Tactical User Interface display luminance must be adjustable by the User using a variable control, over the full range of supported luminance levels (i.e. dimmest to brightest), with one of the following control characteristics: • A control that provides at least five (5) discrete steps; or • An infinitely variable control.	Demo	The Contractor must demonstrate that the ISS-S Tactical User Interface display luminance can be adjusted by the User as per the requirement.	No
2.2.2.1.3.0-5	TPS-5348	The Tactical User Interface display should provide a low-luminance setting control that is variable by the User across the luminance range of 1 cd/m2 to the full off position.	Contractor's Choice	The Contractor must prove that the Tactical User Interface display luminance can be adjusted from 1 cd/m2 to the full off position.	No
2.2.2.1.3.0-6	TPS-5219	The Tactical User Interface display luminance should adjust to ambient lighting conditions without human intervention, which is to be overridable by the manual variable control described in TPS-517.	Demo	The Contractor must demonstrate that the ISS-S Tactical User Interface display luminance can adjust automatically. The demonstration must also show that the ISS-S Tactical User Interface display luminance control can be switched between "manual" mode and "automatic" mode.	No
2.2.2.1.4	TPS-2545	Text Entry Capability			
2.2.2.1.4.0-1	TPS-5252	A hard keyboard or a software keyboard are both acceptable solutions for the Text Entry Capability.			
2.2.2.1.4.0-2	TPS-2546	The Tactical User Interface must include a Text Entry capability.	Demo	If the ISS-S Text Entry capability has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate the method used for text entry.	No
2.2.2.1.4.0-3	TPS-4099	If a hard keyboard solution is provided for the Text Entry capability, it must be integrated in the same	Inspection	If a hard keyboard is still used, the Contractor must show that the hard	No

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		casing as the display.		keyboard is integrated in the same casing as the display.	
2.2.2.1.4.0-4	TPS-2551	The Text Entry capability must allow text input to the Battle Management Software.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.4.0-5	TPS-2547	The Text Entry capability should respect the QWERTY layout.	Inspection	The Contractor must show that the keyboard has a QWERTY layout.	No
2.2.2.1.4.0-6	TPS-2548	The Text Entry capability should include all 94 ASCII printable characters, where all lowercase alphanumeric characters are accessible using a single keystroke.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.4.0-7	TPS-4104	The Text Entry capability must provide feedback to the ISS-S User each time a character is selected.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.5	TPS-471	Touch Screen Interface			
2.2.2.1.5.0-1	TPS-3930	The Tactical User Interface must include a Touch Screen interface.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.5.0-2	TPS-565	The Touch Screen must allow the ISS-S User to interact with the Battle Management Software.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.5.0-3	TPS-2393	The Touch Screen must allow the ISS-S User to interact with entities, menu items and locations on the map by pointing and selecting them.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.5.0-4	TPS-3110	The Touch Screen should comply with the design criteria standards as prescribed in MIL-STD-1472F, section 5.4.6.3 Positive indication.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.5.0-5	TPS-1462	When displaying the map, the Touch Screen must allow the ISS-S User to select a point on the ground and generate a Military Grid Reference System (MGRS) 10 figure grid reference with UTM map reference sheet for this point.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.5.0-6	TPS-1919	The Touch Screen must be used for any software function that requires the ISS-S User to provide input or create entities on the map.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.1.5.0-7	TPS-2542	If the Tactical User Interface is accessible using a stylus pen, it must also be useable without the provided stylus.	Demo	The Contractor must demonstrate that the ISS-S Touch Screen can be operated without a provided stylus.	No

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2.2.2.2	TPS-448	Main Processing Unit			
2.2.2.2.0-1	TPS-752	With a specified set of ISS-S functions executed, CPU histograms of utilization averaged over a 10 minute period must not exceed 50% of the total possible utilization.	Test	The Contractor must prove via a test that the ISS-S meets this requirement. The test report must show that the average CPU utilization over a 10 minute period does not exceed 50% of total possible utilization. Events to be integrated in the test must include: <ul style="list-style-type: none"> • 5 voice transmissions of 10 seconds each, 10 voice receptions of 10 seconds each; • Blue PA (5 second report rate within a 30 node network); • transmission and reception of 500 KB of data; and • Load a map, load a hand drawing with at least 5 elements, load a route with at least 5 waypoints, and add a waypoint. 	No
2.2.2.2.0-2	TPS-5221	With a specified set of ISS-S functions executed, volatile memory histograms of utilization averaged over a 10 minute period must not exceed 50% of the total possible utilization.	Test	The Contractor must prove via a test that the ISS-S meets this requirement. The test report must show that the average volatile memory utilization over a 10 minute period does not exceed 50% of total possible utilization. Events to be integrated in the test must include: <ul style="list-style-type: none"> • 5 voice transmissions of 10 seconds each, 10 voice receptions of 10 seconds each; • Blue PA (5 second report rate within a 30 node network); • transmission and reception of 500 KB of data; and • Load a map, load a hand drawing with at least 5 elements, load a route with at least 5 waypoints, and add a waypoint. 	No

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2.2.2.2.0-3	TPS-4804	With a specified set of ISS-S functions executed, CPU histograms of utilization averaged over a 10 minute period should use as little CPU resources as possible.	Test	The Contractor must prove via a test that the ISS-S meets this requirement. The test report must show that the average CPU utilization over a 10 minute period does not exceed the utilization claimed at bid. Events to be integrated in the test must include: <ul style="list-style-type: none"> • 5 voice transmissions of 10 seconds each, 10 voice receptions of 10 seconds each; • Blue PA (5 second report rate within a 30 node network); • transmission and reception of 500 KB of data; and Load a map, load a hand drawing with at least 5 elements, load a route with at least 5 waypoints, and add a waypoint.	No
2.2.2.2.0-4	TPS-5222	With a specified set of ISS-S functions executed, volatile memory histograms of utilization averaged over a 10 minute period should use as little memory resources as possible.	Test	The Contractor must prove via a test that the ISS-S meets this requirement. The test report must show that the average volatile memory utilization over a 10 minute period does not exceed the volatile memory utilization claimed at bid. Events to be integrated in the test must include: <ul style="list-style-type: none"> • 5 voice transmissions of 10 seconds each, 10 voice receptions of 10 seconds each; • Blue PA (5 second report rate within a 30 node network); • transmission and reception of 500 KB of data; and Load a map, load a hand drawing with at least 5 elements, load a route with at least 5 waypoints, and add a waypoint.	No

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2.2.2.2.0-5	TPS-2523	The ISS-S computer hosting the BMS application must go from a completely turned off state to a state where BMS applications can be accessed (cold start) in 120 seconds or less, excluding the time required by the User to enter his log-in information.	Test	The Contractor must perform a test that proves that the ISS-S computer hosting the BMS application goes from a completely turned-off state to a normal operational state. The test starts when the ISS-S computer hosting the BMS application is turned on, and the test ends when the User is able to load a map and interact with the map. The time for the User to log-in to the ISS-S computer is excluded from the test.	No
2.2.2.3	TPS-454	Main Data Storage			
2.2.2.3.0-1	TPS-5504	It is recognized that the Main Data Storage does not have to be fixed or embedded. It can be augmented with a secondary storage unit.			
2.2.2.3.0-2	TPS-1466	The ISS-S must have a Main Data Storage where data at rest and applications are stored to be accessible for use.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.3.0-3	TPS-2511	The ISS-S Main Data Storage must have enough data storage to retain 8 GB of data. The storage used for applications is excluded.	Contractor's Choice	The Contractor must provide proof that the ISS-S Main data storage has 8 GB of data storage available excluding storage used for applications. The proof must include the size of the storage device used and the actual storage space required for all the ISS-S software applications.	No
2.2.2.3.0-4	TPS-2512	The ISS-S Main Data Storage should have enough data storage to retain more than 8 GB of data, storage used for applications excluded.	Contractor's Choice	The Contractor must provide proof that the ISS-S Main data storage has the available data storage claimed at bid, excluding storage used for applications. The proof must include the size of the storage device used and the actual storage space required for all the ISS-S software applications.	No

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2.2.2.3.0-5	TPS-2691	Any unstructured data must be saved in separate files that the ISS-S User can select, open, delete and exchange.	Demo	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.3.0-6	TPS-675	The ISS-S User must be able to save any amount of files and entities, of all types supported by the ISS-S, on the ISS-S Main Data Storage as long as there is storage space available.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.4	TPS-453	External Data Storage Device			
2.2.2.4.0-1	TPS-1351	The ISS-S must have an External Data Storage Device that can be removed from the ISS-S and connected to other ISS-S. The External Data Storage Device is not required to meet the following requirements: <ul style="list-style-type: none"> - All requirements of section TPS-78 Environmental; - TPS-4983; - TPS-2884; and - TPS-4052. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.4.0-2	TPS-5223	The ISS-S must have an External Data Storage Device that can be removed from the ISS-S and connected to an in-service CF-31 laptop.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.4.0-3	TPS-5463	Once configured, the ISS-S must operate normally when the External Data Storage Device is not connected to the ISS-S.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.4.0-4	TPS-574	The ISS-S User must be able to transfer the following data between the Main Data Storage and External Data Storage Device: <ul style="list-style-type: none"> • TPS-1921 Map Formats; • TPS-399 Routes; and • TPS-1721 Hand Drawings. 	Demo	The Contractor must demonstrate how the ISS-S meets this requirement by transferring a least two maps, two routes and two hand drawings inclusively between the Main data storage and External Data Storage Device. Each item can be transferred separately.	No
2.2.2.4.0-5	TPS-4935	The SEP should have the capability to transfer Maps between the SEP-Suite and External Data	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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		Storage Devices.			
2.2.2.4.0-6	TPS-2504	The External Data Storage Device must be commercially available.	Contractor's Choice	The Contractor must prove that the External Data Storage Device can be purchased from at least 3 different independent manufacturers.	No
2.2.2.4.0-7	TPS-758	The External Data Storage Device must have enough data storage to retain 4 GB of information.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.4.0-8	TPS-760	The External Data Storage Device should have enough data storage to retain more than 4 GB of information.	Contractor's Choice	The Contractor must prove that the External Data Storage Device is of the claimed size.	No
2.2.2.4.0-9	TPS-1353	The ISS-S should display download percentage completion status when transferring data between the Main Data Storage and the External Data Storage Device.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.4.0-10	TPS-2503	The External Data Storage Device must be a different device than the Main Data Storage.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.5	TPS-5125	Battle Management Software			
2.2.2.5.1	TPS-5355	General			
2.2.2.5.1.0-1	TPS-1350	The ISS-S Battle Management Software must run on the ISS-S computer and use an Operating System that is commercially available.	Contractor's Choice	The Contractor must prove that the Operating System is not be a unique solution for ISS-S and is used in at least 3 other systems provided by different solution providers.	No
2.2.2.5.1.0-2	TPS-5224	It is recognized that some functions of the BMS Software are not going to be available as per the nature of CF-31 laptops (e.g. Comms, Navigation, Touch Screen, CORAL-CR-C interfaces, etc...).			
2.2.2.5.1.0-3	TPS-5126	The ISS-S Battle Management Software must function on an in-service CF-31 laptop, when operating with Windows XP and when operating with Windows 7, and support all Mandatory requirements below and all Rated requirements below that are provided on the ISS-S BMS: - TPS-427 Maps;	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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		<ul style="list-style-type: none"> - TPS-2947 Coordinate Reference Systems; - TPS-401 Bearing; - TPS-402 Distance Measurement; - TPS-399 Routes; - TPS-1721 Hand Drawing; - TPS-4819 Quick Symbols; - TPS-1990 Enemy, Friendly, Unknown, Neutral Symbols; - TPS-2012 Tactical Graphics; - TPS-366 Intervisibility; - TPS-2395 Time Appreciation tool; and - TPS-2530 Overlays; and with the following exceptions: <ul style="list-style-type: none"> - capabilities that require over-the-air data exchange are excluded; - capabilities that require a GPS receiver or a bearing indicator are excluded; and - references to ISS-S Main Data Storage is to be interpreted as the CF-31 hard drive. 			
2.2.2.5.1.0-4	TPS-5127	The ISS-S must support information exchange of all ISS-S data between an in-service CF-31 laptop and an ISS-S computer using the External Data Storage Device.	Demo	The Contractor must demonstrate that the following data types can be exchanged between the ISS-S computer and the CF-31 laptop: <ul style="list-style-type: none"> • Routes; • Hand Drawing; • Quick Symbols; • Enemy, Friendly, Unknown and Neutral entities (if provided); • Tactical Graphics (if provided); • Graphical Plans (if provided); • Time Appreciation Tables (if provided); • Imagery (if provided); and • Text Documents (if provided). 	No
2.2.2.5.2	TPS-427	Maps			
2.2.2.5.2.1	TPS-5356	General			

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2.2.2.5.2.1.0-1	TPS-2440	The ISS-S must have a Map display capability.	Demo	The Contractor must demonstrate that a Map Display capability is present.	No
2.2.2.5.2.1.0-2	TPS-3936	The ISS-S must support map geo-referencing.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.2.1.0-3	TPS-4109	The Map display capability must support the display of grid lines.	Demo	The Contractor must demonstrate that grid lines are displayed whenever maps are displayed using the Tactical User Interface.	No
2.2.2.5.2.1.0-4	TPS-5400	The ISS-S Map display capability must support the details included in the supported map formats specified in TPS-1921 either by: <ul style="list-style-type: none"> • simultaneously displaying, as map overlays, combinations of raster maps, vector maps and DTED elevation models of an area of interest; or • tailoring a custom map with the SEP-Suite using combinations of raster maps, vector maps and DTED elevation models of an area of interest as described in TPS-5466 and displaying the resulting map. 	Demo	The Contractor must demonstrate that the ISS-S User is able to display simultaneously all the elements included in variations of the map formats specified in TPS-1921. The Contractor will do so using one of the following scenarios: <ul style="list-style-type: none"> - by loading on the ISS-S Map Display a raster map, a vector map and a DTED elevation model of a given area and displaying the maps; or - by using the SEP-Suite to tailor a map using a raster map, a vector map and a DTED elevation model of a given area and the resulting map is to be distributed to an ISS-S and displayed by the ISS-S Map Display. In both cases, the Contractor must demonstrate that the level of details of the original maps are retained when displaying the map.	No
2.2.2.5.2.1.0-5	TPS-1343	Based on the calculation to meet requirement TPS-582, the ISS-S User must be able to display an indicator showing the True North whenever the map is displayed.	Contractor's Choice	The Contractor must demonstrate that an indicator showing the true north can be shown whenever a map is displayed. The ISS-S must offer the option of activating or deactivating the indicator. True north indicator is required as opposed to magnetic north.	No

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				The Contractor must prove that the indicator meets the required performance from TPS-582.	
2.2.2.5.2.2	TPS-1921	Formats			
2.2.2.5.2.2.0-1	TPS-731	The Map display capability must support and display, Compressed ARC Digitized Raster Graphics (CADRG), GeoTIFF and GeoPDF, either by: <ul style="list-style-type: none"> • Supporting and Display the above map formats in their native format; or • Supporting and Displaying a custom map that includes the information from the above formats as described in TPS-5466. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.2.2.0-2	TPS-4813	The Map Display capability should support and display National Imagery Transmission Format (NITF, MIL-STD-2500B) and NATO Secondary Image Format (NSIF, STANAG 4545) either by: <ul style="list-style-type: none"> • Supporting and Display the above map formats in their native format; or • Supporting and Displaying a custom map that includes the information from the above formats as described in TPS-5466. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.2.2.0-3	TPS-732	The Map Display capability must support and display Esri Shapefiles and Vector Product Format (VPF) either by: <ul style="list-style-type: none"> • Supporting and Display the above map formats in their native format; or • Supporting and Displaying a custom map that includes the information from the above formats as described in TPS-5466. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.2.2.0-4	TPS-733	The Map Display capability must support the Digital Terrain Elevation Data (DTED) level 0, 1 and 2 model for terrain elevation either by:	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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		<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. 			
2.2.2.5.2.3	TPS-432	Maps functions			
2.2.2.5.2.3.1	TPS-433	Zoom			
2.2.2.5.2.3.1.0-1	TPS-1713	The Map display capability must allow zooming in and out on the map.	Demo	The Contractor must demonstrate that a zooming function, in and out, can be performed while using any supported map formats.	No
2.2.2.5.2.3.1.0-2	TPS-553	The zooming functionality must provide sufficient zooming such that an area of 10000 square meters or less makes maximum use of the map display.	Demo	The Contractor must demonstrate that an area of 10000 square meters or less can be shown making maximum use of the map display using the zooming functionality.	No
2.2.2.5.2.3.1.0-3	TPS-4794	The zooming functionality must allow an ISS-S User to clearly distinguish a minimum of eight (8) entities distributed within a square area of 10000 square metres.	Demo	The Contractor must demonstrate that 8 entities loaded within an area of 10000 square meters are clearly distinguishable.	No
2.2.2.5.2.3.1.0-4	TPS-2692	The zooming functionality must provide sufficient zooming out so that it is possible to display a map area of at least 225 square kilometres.	Demo	<p>If the ISS-S configuration has not changed from P(Bid), no other demonstration is required.</p> <p>Otherwise:</p> <p>The Contractor must demonstrate that the zooming out functionality can display an area of at least 225 square kilometres.</p>	No
2.2.2.5.2.3.1.0-5	TPS-1714	The ISS-S User must be able to display a Graphic Scale on the map that adjusts itself based on the level of zoom.	Demo	The Contractor must demonstrate that the scale is present and adjusts itself any area size displayed.	No

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2.2.2.5.2.3.1.0-6	TPS-747	When zooming in and out, the Map display functionality should switch automatically between maps of different ratios, when they are available, according to the zoom being displayed.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.5.2.3.2	TPS-434	Map orientation			
2.2.2.5.2.3.2.0-1	TPS-1463	By default, the Map display functionality must display maps oriented with the North facing up on the screen.	Demo	The Contractor must demonstrate by loading 3 different maps and showing that the maps are oriented with the North facing up on the screen.	No
2.2.2.5.2.3.2.0-2	TPS-748	As a navigation default setting, the Map display functionality must keep the user icon centered with respect to the map display, with the option to change the setting such that the map is fixed and the user icon moves with respect to the map display.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.2.3.2.0-3	TPS-1464	When using the Map display functionality, the ISS-S User should be able to orient the map in any direction.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.2.3.2.0-4	TPS-608	The Map display functionality should include a user selected option to have the map orientation continuously adjust itself to have the bearing of the user facing up on the display, with the following characteristics: <ul style="list-style-type: none"> • The rotation of the map is made by steps of 10 degrees or less; • The bearing is calculated using the direction of travel of the User when he is travelling; • The bearing is calculated using the facing direction of the User when he is not travelling. 	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.5.2.3.3	TPS-435	Pan			
2.2.2.5.2.3.3.0-1	TPS-750	The map display functionality must have a Pan capability.	Demo	The Contractor must demonstrate that the User can use the pan function to change the map area being displayed.	No
2.2.2.5.3	TPS-365	Navigation			

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2.2.2.5.3.1	TPS-5464	General			
2.2.2.5.3.1.0-1	TPS-5465	The ISS-S User must be able to activate a route in order to navigate along that route.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.1.0-2	TPS-2949	When a User is navigating along an active route, the ISS-S User should be able to display the Estimated Time of Arrival to the last waypoint of the route.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.1.0-3	TPS-5112	The ISS-S should provide a bread crumbs feature, that can be toggle on/off, displaying the real path travelled by the ISS-S node.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.1.0-4	TPS-3046	The symbol indicating the User's own position should also indicate the direction of travel when the user is travelling and the facing direction when the user is standing still.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.1.0-5	TPS-1909	When an ISS-S User is navigating along an active route and deviates more than a determined distance from the route, the ISS-S User should be notified by means of an Advisory signal as described in TPS-5482.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.2	TPS-2947	Coordinate Reference Systems			
2.2.2.5.3.2.0-1	TPS-2948	The ISS-S User must be able to display the MGRS 10 figure grid reference with UTM map reference of any selected waypoints, entities or points on the map.	Demo	If the ISS-S configuration has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate that waypoints, entities (Blue PA, Quick Symbols, Enemy Symbols, etc...) and any points on the map are associated with a MGRS 10 figure grid of the UTM map coordinate system whenever these items are displayed on a map.	No
2.2.2.5.3.2.0-2	TPS-4788	The ISS-S User should be able to display	Demo	The Contractor must demonstrate that	No

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		positional information using either MGRS 10 figure grid reference with UTM map reference or latitude/longitude, in degrees, minutes and seconds map reference system.		the ISS-S meets this requirement.	
2.2.2.5.3.3	TPS-401	Bearing			
2.2.2.5.3.3.0-1	TPS-1338	The ISS-S User must be able to calculate the bearing between two points on a map.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.3.0-2	TPS-2364	The ISS-S User must be able to display the bearing of his/her direction of travel and his/her direction faced while standing still.	Demo	The Contractor must demonstrate that the ISS-S displays the bearing information faced by the User for both when he/she is standing still and when he/she is travelling, including transitions between standing still and moving.	No
2.2.2.5.3.3.0-3	TPS-1339	The ISS-S User must be able to display the following information on the map: 1) The bearing between two points selected by the User; 2) The bearing currently faced by the User; 3) When the User is travelling along a predefined route, the bearing from the User to the next waypoint; 4) When the User is travelling along a predefined route, the bearing to any waypoint the User selects.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.3.0-4	TPS-1340	The ISS-S User must be able to display bearing information either in degrees or mils.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.3.0-5	TPS-5110	The ISS-S User should be able to display bearing information in degrees and in mils.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.4	TPS-1342	On-screen Compass			
2.2.2.5.3.4.0-1	TPS-5379	The ISS-S must include an integrated electronic compass.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.5	TPS-402	Distance Measurement			
2.2.2.5.3.5.0-1	TPS-715	The ISS-S must include a Distance Measurement function.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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2.2.2.5.3.5.0-2	TPS-716	Using the Distance Measurement function, the ISS-S User must be able to measure and display the distance along a straight line: 1) between two points selected on the map; 2) between the User's location and a selected point on the map; and 3) between the User's location and a selected entity.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.5.0-3	TPS-717	The Distance Measurement function must be available to the User whenever the map is displayed.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.5.0-4	TPS-718	The Distance Measurement function should measure and display automatically the following information: 1) the distance of a Route inputted by the ISS-S User; 2) the distance remaining to the final waypoint of a Route; and 3) the distance travelled along the Route.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.5.0-5	TPS-719	The ISS-S must display distance information using the International System of units (SI).	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.3.5.0-6	TPS-5111	The ISS-S User should be able to display distance information in one of the following systems: 1) International System of units (SI); and 2) Imperial.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.4	TPS-421	GUI			
2.2.2.5.4.1	TPS-5357	General			
2.2.2.5.4.1.0-1	TPS-5415	In this section, entities include waypoints, Blue PA data, items on overlays, quick symbols, items of hand drawings, etc... which must be loaded and accessible on the Tactical User Interface. Active entities do not include any files (routes, overlays, etc...) saved on the Main or External Data storage and not opened.			

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2.2.2.5.4.2	TPS-2360	Colours			
2.2.2.5.4.2.0-1	TPS-1744	The ISS-S GUI must present a minimum of 256 colour graphics.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.5.5	TPS-4818	Graphical Data Types			
2.2.2.5.5.1	TPS-2539	Blue PA			
2.2.2.5.5.1.0-1	TPS-2585	The ISS-S must have a Blue PA generation functionality that generates a MGRS 10 figure grid reference with UTM map reference indicating the ISS-S own position.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.5.1.0-2	TPS-2596	The ISS-S own position must be based on the information generated by the navigation and positioning functions specified in TPS-96.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-3	TPS-2587	The Blue PA generation functionality must generate a Blue PA message after a configured time interval has passed since the last Blue PA message, without requiring intervention from the User.	Test	The Contractor must prove through testing that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-4	TPS-4820	In addition to the Blue PA messages generated as part of TPS-2587, the Blue PA generation 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.	Test	The Contractor must prove through testing that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-5	TPS-4836	Blue PA messages must be exchanged over-the-air using the Blue PA rule described in TPS-4182	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-6	TPS-4100	The ISS-S must indicate to the User when Blue PA is unreliable. Information is treated as unreliable if any of the following conditions are met: a) no Blue PA message was received for a predetermined period of time; and b) when the originating node is operating in a GPS-denied or GPS-degraded environment as described in TPS-4101.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	Yes
2.2.2.5.5.1.0-7	TPS-2721	ISS-S nodes for which Blue PA is unreliable, as	Demo	The Contractor must demonstrate that	No

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		defined by TPS-4100, must be distinguishable from other nodes and be visibly unique from all other entities shown on the display.		the ISS-S meets this requirement.	
2.2.2.5.5.1.0-8	TPS-4101	When the ISS-S detects GPS-denied or a GPS-degraded environment, as defined in TPS-4207 and TPS-5408, an indication must be sent to all nodes on the Blue PA COI.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-9	TPS-2717	By default, the ISS-S must display all ISS-S nodes within the ISS-S Network (via the Blue PA COI).	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.5.1.0-10	TPS-3045	The symbol indicating the User's own position must be different than all other nodes.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-11	TPS-4122	The ISS-S should offer an automatic aggregation mode which automatically displays either Commanders or centre of mass of section and platoon depending on the level of zoom.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-12	TPS-2019	The ISS-S User should be able to view only the Blue PA from ISS-S nodes registered to selected COIs.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-13	TPS-2023	The ISS-S User should be able to display different COIs according to one of three positional information display modes: centered on the Commander, centre of mass (aggregated), or individual soldier positions.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.1.0-14	TPS-5462	The ISS-S must mutually exchange Blue PA between ten (10) ISS-S within 30 seconds from initiation of the Blue PA function at each ISS-S.	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes. The 30 seconds time interval includes the time	No

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				to launch any Blue PA viewer.	
2.2.2.5.5.2	TPS-399	Routes			
2.2.2.5.5.2.0-1	TPS-704	In the following subsection, a Route refers to a series of waypoints linked together, indicating to the user a path he is to follow.			
2.2.2.5.5.2.0-2	TPS-641	The ISS-S User must have the capability to generate and select waypoints on the map.	Demo	The Contractor must demonstrate that the waypoints can be created by selecting points on the map using the Tactical User Interface.	No
2.2.2.5.5.2.0-3	TPS-1691	The ISS-S must include a Route Planning function that allows the ISS-S User to create routes by inputting and linking waypoints together.	Demo	The Contractor must demonstrate that Routes can be created by linking several waypoints using the Tactical User Interface.	No
2.2.2.5.5.2.0-4	TPS-5091	The Route planning function must support Routes of at least 200 waypoints.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.2.0-5	TPS-707	When using the Route planning function, the ISS-S User must be able to modify Routes by deleting or adding waypoints at the end of the Route.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.2.0-6	TPS-1973	When using the Route planning function, the ISS-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.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.2.0-7	TPS-1692	The ISS-S User must be able to save multiple Routes on the Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S can save at least 10 Routes on the Main Data Storage.	No
2.2.2.5.5.2.0-8	TPS-4155	The ISS-S User must be able to display multiple Routes at the same time.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.2.0-9	TPS-706	When multiple Routes are displayed, the ISS-S User should be able to toggle selected Routes on and off.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.2.0-10	TPS-5113	When multiple Routes are displayed, they must be visually distinguishable from one another.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.2.0-11	TPS-4837	Routes must be exchanged over-the-air using the	Demo	The Contractor must demonstrate that	No

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		Manual rule described in TPS-2565		the ISS-S meets this requirement.	
2.2.2.5.5.2.0-12	TPS-4838	When a Route is exchanged between two ISS-S, the receiving ISS-S User should be able to make modifications to the received Route.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.2.0-13	TPS-4842	When a Route is exchanged between two ISS-S, the receiving ISS-S User should be able to make a copy of the received Route.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3	TPS-1721	Hand Drawing			
2.2.2.5.5.3.0-1	TPS-2708	The ISS-S must support Hand Drawing Graphical data types by allowing the ISS-S User to draft tactical sketches, as per Section 4 of Annex CB, Appendix 10, whenever the map is displayed.	Demo	If the ISS-S Hand Drawing capability has not changed from P(Bid), no other demonstration is required. Otherwise: The Contractor must demonstrate that a Hand Drawing function is present. The Contractor must produce the two hand drawings provided in Section 4 of Annex CB, Appendix 10.	Yes
2.2.2.5.5.3.0-2	TPS-5114	The Hand Drawing capability should support multiple colours.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement and must specify how many colors the ISS-S Hand Drawing capability is supporting.	No
2.2.2.5.5.3.0-3	TPS-1726	The Hand Drawings must be geo-referenced and associated to the map on which they are drawn.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3.0-4	TPS-5502	The ISS-S User must be able to make modifications to a Hand Drawing when creating it and when displaying it.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3.0-5	TPS-5503	The ISS-S User must be able to delete Hand Drawings.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3.0-6	TPS-2610	The ISS-S User must be able to save multiple Hand Drawings on the Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3.0-7	TPS-4160	The ISS-S User must be able to select which Hand Drawings to display from the ones saved on	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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		his/her ISS-S.			
2.2.2.5.5.3.0-8	TPS-4161	The ISS-S User must be able to display multiple Hand Drawings at the same time.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3.0-9	TPS-4843	Hand Drawings, as per Section 4 of Annex CB, Appendix 10, must be exchanged over-the-air using the Manual rule described in TPS-2565.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement by producing the two hand drawings provided in Section 4 of Annex CB, Appendix 10 and having two ISS-S nodes exchange the hand drawings over-the-air.	Yes
2.2.2.5.5.3.0-10	TPS-4844	When a Hand Drawing is exchanged between two ISS-S, the receiving ISS-S User should be able to make modifications to the received Hand Drawing.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3.0-11	TPS-4845	When a Hand Drawing is exchanged between two ISS-S, the receiving ISS-S User should be able to make copies of the received Hand Drawing.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.3.0-12	TPS-4878	When multiple Hand Drawings are displayed, the ISS-S User should be able to toggle selected Hand Drawings on and off.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.4	TPS-4819	Quick Symbols			
2.2.2.5.5.4.0-1	TPS-4822	The ISS-S must support Quick Symbols Graphical data types by allowing the ISS-S User to generate, display and manage the following Quick Symbols: • Yellow Circle; • Green Square; • Red Diamond; • Black Triangle. • Blue Rectangle	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.4.0-2	TPS-5409	The ISS-S Quick Symbols must be geo-referenced.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.4.0-3	TPS-4847	Quick Symbols must be exchanged over-the-air using the Automatic rule described in TPS-2562.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.5	TPS-1990	Enemy, Friendly, Unknown and Neutral Symbols			

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2.2.2.5.5.0-1	TPS-5425	It is expected that the ISS-S User will be able to manually create, display and manage Friendly symbols for those friendly forces not equipped with an ISS-S.			
2.2.2.5.5.0-2	TPS-4905	The ISS-S should support Enemy, Friendly, Unknown and Neutral data types by allowing the ISS-S User to create, display and manage the following symbols described in B-GL-334-001/FP-001 whenever the map is displayed: <ul style="list-style-type: none"> • TAM 105.03 UNIT ICONS, section 2 (Unit Icons) • TAM 105.04 EQUIPMENT ICONS, section 2 (Equipment Icons), and • TAM 105.06 IRREGULAR WARFARE 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.0-3	TPS-5410	The ISS-S Enemy, Friendly, Unknown and Neutral symbols should be geo-referenced.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.0-4	TPS-4113	For presentation purpose, when displaying the symbols specified in TPS-4905, except TAM 105.06 IRREGULAR WARFARE, the ISS-S should use the Friend, Hostile, Unknown and Neutral affiliation symbols used for Land Units, Land Equipment and Land Installations, presented in B-GL-334-001/FP-001 TAM 105.02, Figure 2.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.0-5	TPS-2003	When the ISS-S User selects an Enemy, Friendly, Unknown and Neutral symbol on the Map Display, the following fields indicated in B-GL-334-001/FP-001 TAM 105.02, Table 1 "Symbol Modifier Fields" should be accessible and modifiable when required by the ISS-S User: <ol style="list-style-type: none"> 1) A - Symbol Indicator 2) B - Size Indicator 3) D - Task Force Indicator 4) F - Reinforced or Detached 5) M - Higher Formation 6) S - HQ Indicator / Location Offset Indicator 7) T - Unique Designation 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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2.2.2.5.5.5.0-6	TPS-4866	Symbols should include a free text field accessible and modifiable when required by the ISS-S User in the same way as the fields specified in TPS-2003	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.5.0-7	TPS-4867	When a User modifies a field indicated in TPS-2003, the ISS-S should modify the graphical representation of the icon according to the placement of modifiers indicated in B-GL-334-001/FP-001 TAM 105.02, Figure 4 "Unit Size Indicators" and Figure 5 "Symbol Modifier Field Positions for Units, Installations and Equipment"	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.5.0-8	TPS-4110	The ISS-S User should be able to query symbols for additional information by selecting a symbol to bring up an information box next to it.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.5.0-9	TPS-1993	The ISS-S User should be able to link pictures, images or other files to any Enemy, Friendly, Neutral and Unknown symbol on the map.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.5.0-10	TPS-1994	The ISS-S User should be able to change an Enemy, Friendly, Neutral and Unknown symbol into another one amongst those four categories by selecting a symbol and making modifications to its parameters.	Demo	The Contractor must demonstrate how to change the status of an entity (e.g. from neutral to enemy) and modify its parameters.	No
2.2.2.5.5.5.0-11	TPS-3904	All Enemy, Friendly, Neutral and Unknown symbols should include the time it was created and time of modifications.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.5.0-12	TPS-4875	The ISS-S should exchange Enemy, Friendly, Neutral and Unknown symbols over-the-air using the Automatic rule described in TPS-2562.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.5.0-13	TPS-1998	When the ISS-S User wants to add an Enemy, Friendly, Neutral and Unknown symbol on the map, the ISS-S User should be able to select it from a list that includes every Enemy, Friendly, Neutral and Unknown symbols.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.5.0-14	TPS-2572	Symbols should be grouped by categories in the list of selectable symbols to ease user selection.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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2.2.2.5.5.6	TPS-2012	Tactical Graphics			
2.2.2.5.5.6.0-1	TPS-2600	<p>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:</p> <ul style="list-style-type: none"> • Advance to contact (page TAM 102-2) • Ambush (page TAM 102-2) • Attack (page TAM 102-2) • Attack by fire (page TAM 102-2) • Block (page TAM 102-2) • Breach (page TAM 102-2) • Bypass (page TAM 102-2) • Canalize (page TAM 102-2) • Capture (page TAM 102-2) • Clear (page TAM 102-3) • Cover (page TAM 102-3) • Disrupt (page TAM 102-4) • Delay (page TAM 102-4) • Deny (page TAM 102-4) • Destroy (page TAM 102-4) • Fix (page TAM 102-6) • Interdict (page TAM 102-6) • Isolate (page TAM 102-6) • Neutralize (page TAM 102-7) • Occupy (page TAM 102-7) • Penetrate (page TAM 102-7) • Relief in Place (page TAM 102-7) • Retain (page TAM 102-7) • Secure (page TAM 102-8) • Seize (page TAM 102-8) • Support by Fire (page TAM 102-8) • Suppress (page TAM 102-8) • Withdraw (page TAM 102-9) • General or Unspecified Command and Control Point (page TAM 105-21) 	Demo	The Contractor must demonstrate that the ISS-S supports Tactical Graphics data types by accessing, creating and displaying Tactical Graphics.	No

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		<ul style="list-style-type: none"> • Coordination point (page TAM 105-21) • Friendly Presence (page TAM 105-22) • Friendly Planned or On Order (page TAM 105-22) • Enemy Known (page TAM 105-22) • Enemy Suspected or Templated (page TAM 105-22) • Observation post (OP) / Outpost (page TAM 105-26) • Friendly Ground Axis of Supporting attack (page TAM 105-29) • Friendly Ground Axis of Main Attack (page TAM 105-29) • Enemy Confirmed (page TAM 105-29) • Obstacle Line (page TAM 105-30) • Anti-tank ditch (page TAM 105-30) • Abatis (page TAM 105-30) • AT minefield (page TAM 105-31) • AP minefield (page TAM 105-31) • Trip wire (page TAM 105-32) • Bridge or gap (page TAM 105-33) • Double apron fence (page TAM 105-34) • Low wire fence (page TAM 105-34) • High wire fence (page TAM 105-34) • Single concertina (page TAM 105-34) • Double strand concertina (page TAM 105-34) • Point/Single Target (page TAM 105-37) 			
2.2.2.5.5.6.0-2	TPS-5411	The ISS-S Tactical Graphics should be geo-referenced.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.6.0-3	TPS-1944	When displaying the map, the ISS-S User should be able to add text annotation to a point on a map.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.5.6.0-4	TPS-4942	The ISS-S should exchange Tactical Graphics and text annotation over-the-air using the Automatic rule described in TPS-2562	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.6	TPS-366	Intervisibility			

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2.2.2.5.6.0-1	TPS-720	In this subsection, the term Intervisibility refers to the capability to determine and display a full 360 degrees Line Of Sight assessment from a selected point or series of points on a map.			
2.2.2.5.6.0-2	TPS-721	When displaying the map, the ISS-S should include an Intervisibility function which uses DTED level 2 elevation when calculating Line Of Sight.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.6.0-3	TPS-722	When using the Intervisibility function, the ISS-S User should be able to select a point on the map and have the Intervisibility displayed on the map for this point.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.6.0-4	TPS-724	When using the Intervisibility function, the ISS-S User should be able to select multiple points on the map and have the Intervisibility simultaneously displayed on the map for all points.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.7	TPS-3946	Time, clock, daily alarms			
2.2.2.5.7.0-1	TPS-3947	The ISS-S User must be able to display the time from multiple time zones.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.7.0-2	TPS-3949	The ISS-S User must be able to set the local time, date and time zone.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.7.0-3	TPS-3950	The ISS-S must provide a stop watch, count down timer and daily alarms.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.8	TPS-2528	Mission Planning Tools			
2.2.2.5.8.1	TPS-2395	Time Appreciation Tool			
2.2.2.5.8.1.0-1	TPS-2398	The ISS-S should include a Time Appreciation Tool which allows the ISS-S User to create, save, load, delete and modify Time Appreciation Tables.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.8.1.0-2	TPS-2399	The Time Appreciation Tables should be based on the format presented in B-GL-332-008/FP-001, section 807.01, Figure 8-1 "Example of a time estimate for a platoon attack".	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.8.1.0-3	TPS-2400	The Time Appreciation Tables should include columns for activity names, time required for the activity and end time for the activity.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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2.2.2.5.8.1.0-4	TPS-2401	The Time Appreciation Tables should present the User with the current time.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.8.1.0-5	TPS-2402	The Time Appreciation Tool should automatically calculate the end time of each activity and the total time based on the amount of time required for each activities entered by the ISS-S User.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.8.1.0-6	TPS-2404	The Time Appreciation Tool should allow the User to save Time Appreciation Tables in a printable text format.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9	TPS-379	Reports & Returns			
2.2.2.5.9.1	TPS-5397	General			
2.2.2.5.9.1.0-1	TPS-4858	Reports & Returns must be exchanged over-the-air using the Manual rule described in TPS-2565.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9.1.0-2	TPS-1309	The ISS-S should automatically populate all known information to the appropriate field of the Report & Return being generated with the option to change the information entered into a data field by using 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).	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9.2	TPS-387	Fire Mission			
2.2.2.5.9.2.0-1	TPS-1325	The ISS-S User must be able to receive, generate, display and manage the pre-formatted Fire Mission including all fields specified in B-GL-334-001/FP-001 SOP 704.08 plus an "Adjustments" and "Altitude" field.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.9.2.0-2	TPS-1326	When a Fire Mission is sent over the air, the ISS-S should provide a way to send updates to the "Adjustments" field to the Fire Mission over the air.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9.2.0-3	TPS-1327	The Battle Management System must use the	Demo	The Contractor must demonstrate that	No

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		information provided by the CORAL-CR-C to complete the Fire Mission Report and Return fields whenever the CORAL-CR-C is used to acquire a target.		the ISS-S meets this requirement.	
2.2.2.5.9.2.0-4	TPS-1328	The ISS-S User must be able to fill the Fire Mission Report "Direction" and "Target Location" fields automatically by selecting a point or an entity on the map.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9.2.0-5	TPS-1329	If the Map display has DTED elevation data for the target location, the ISS-S User should be able to fill the "Altitude" field automatically by selecting a point or an entity on the map.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9.3	TPS-5393	Contact Report			
2.2.2.5.9.3.0-1	TPS-5394	The ISS-S User must be able to receive, generate, display and manage the pre-formatted Contact Report specified in B-GL-334-001/FP-001 SOP 703.04.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9.3.0-2	TPS-2664	The ISS-S must generate a Contact Report when the ISS-S User adds an Enemy symbol on his Tactical User Interface.	Demo	The Contractor must generate a Contact Report by adding an Enemy entity on the map using the Tactical User Interface. The Contact Report should be received by all members of the configured COI.	No
2.2.2.5.9.3.0-3	TPS-2665	The ISS-S must display the appropriate Enemy symbol when receiving a Contact Report, based on the contents of this Contact Report.	Demo	The Contractor must demonstrate that the Enemy entity specified in a Contact Report appears on the map display of all ISS-S Users who received the Contact Report.	No
2.2.2.5.9.4	TPS-2554	Other Supported Reports & Returns			
2.2.2.5.9.4.0-1	TPS-5494	The ISS-S User must be able to receive, generate, display and manage the following pre-formatted, structured Reports & Returns specified in B-GL-334-001/FP-001: CASEVACREQ (702.02) and Situation Report (704.33).	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.9.4.0-2	TPS-1305	The ISS-S User should be able to receive,	Demo	The Contractor must demonstrate that	No

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		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).		the ISS-S meets this requirement.	
2.2.2.5.9.4.0-3	TPS-5395	The ISS-S User should be able to receive, generate, display and manage the following pre-formatted, structured Reports & Returns specified in B-GL-334-001/FP-001: PERSREP (SOP 702.03), COMCAREP (SOP 703.01), INTREP (703.02), PRETECHREP (SOP 703.05), BARREP (SOP 704.10), OBSREP (SOP 704.11), SCATMINORD/WARN/REP (SOP 704.13), PTLREP (SOP 704.15), EWJAMREP (SOP 704.16), MIJIWARNREP (SOP 704.17), SCATMINREQ (SOP 704.21), DMLORD (SOP 704.23), RTERECCEORD/REP (SOP 704.24), RBTRECCEORD/REP (SOP 704.25), GAPRECCEORD/REP (SOP 704.26), BRDMLRECCEORD/REP (SOP 704.27), MINLAYRECCEORD/MINLAYRECCEREP (SOP 704.28), MINLAYORD/MINLAYREP (SOP 704.28), METREP (SOP 704.32).	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.9.4.0-4	TPS-5396	The ISS-S User should be able to receive, generate, display and manage the following pre-formatted, structured Reports & Returns specified in B-GL-334-001/FP-001: ARRESREP (SOP 702.01), RFTDEM [PERS] (SOP 702.04), PWPERSREC (702.05), INTSUM (SOP 703.06), Conventional Minefield Intention to Lay (SOP	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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		704.12).			
2.2.2.5.9.4.1	TPS-388	ADREP			
2.2.2.5.9.4.1.0-1	TPS-2662	The ISS-S User should be able to receive, generate, and manage ADREP Reports & Returns with the following fields: 1) Title (ADREP); 2) Time of delivery; 3) Pickup location; 4) Ammo; 5) POL; 6) Rations; 7) Water; 8) Misc.	Demo	The Contractor must generate and send an ADREP. The Contractor must demonstrate that the received ADREP is saved.	No
2.2.2.5.10	TPS-417	Imagery			
2.2.2.5.10.0-1	TPS-483	The ISS-S should display images with a resolution of 3968x2976 and lower, encoded in the JPEG format.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement. The Contractor must confirm the minimal resolution the ISS-S can display.	Yes
2.2.2.5.10.0-2	TPS-4124	The ISS-S User should be able to import and display images encoded in a NITF format	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.10.0-3	TPS-3942	The ISS-S User should be able to zoom in and out on a displayed image.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.10.0-4	TPS-3944	The ISS-S User should be able to pan on a displayed image.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.10.0-5	TPS-3943	The ISS-S should scale images such that it can be displayed entirely on the display without the User having to pan to see the full picture.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.10.0-6	TPS-2675	The ISS-S User should be able to save images on the Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.10.0-7	TPS-486	The ISS-S User should be able to annotate pictures and save the annotated pictures.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.10.0-8	TPS-4859	The ISS-S should exchange Images over-the-air using the Manual rule described in TPS-2565	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.10.0-9	TPS-5306	If TPS-4795 is provided, the ISS-S User should be	Demo	The Contractor must demonstrate that	No

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		able to display and save the still imagery from the digital camera(s).		the ISS-S can display the still imagery formats provided by the digital camera, at least one format per supported commercial camera or at least one format from the integrated camera.	
2.2.2.5.11	TPS-406	Text Messaging			
2.2.2.5.11.0-1	TPS-2420	The ISS-S should have a Text Messaging capability that allows the ISS-S User to type free text messages and send them to one or more other Users.	Demo	The Contractor must create a short text message, select at least three ISS-S Users and send the Text Message. The three ISS-S receiving the text message must confirm the reception of the text message.	Yes
2.2.2.5.11.0-2	TPS-2422	The ISS-S should have the capability to receive and display Text messages.	Demo	The Contractor must demonstrate that the ISS-S Users who are selected as recipients can receive and display text messages.	Yes
2.2.2.5.11.0-3	TPS-1520	When receiving a new Text Message, the ISS-S User should be notified by means of an Advisory Signal as described in TPS-5482.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.11.0-4	TPS-2683	All Text Messages sent or received by the ISS-S should be saved on the Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.11.0-5	TPS-2427	The ISS-S User should be able to delete the sent and received Text Messages.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.11.0-6	TPS-5339	When using the Text Messaging capability, the ISS-S User should be able to attach files to text messages, and to detach files from messages and save them in the Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.11.0-7	TPS-4862	The ISS-S should exchange Text Messages over-the-air using the Manual rule described in TPS-2565	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.12	TPS-2657	Text Documents			
2.2.2.5.12.0-1	TPS-2684	The ISS-S should read and display Text Documents written in the following formats: a) Plain Text,	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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		b) RTF (Rich Text Format), c) Portable Document Format (PDF).			
2.2.2.5.12.0-2	TPS-2685	The ISS-S User should be able to generate Text Documents in RTF.	Demo	The Contractor must generate a text document and save it to the Main data storage.	No
2.2.2.5.12.0-3	TPS-2689	The ISS-S User should be able to write Orders, Warning Orders, and Frag Orders using Text Documents.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.12.0-4	TPS-2688	The ISS-S User should be able to create, modify and reuse templates when writing Orders, Warning Orders, and Frag Orders.	Demo	The Contractor must load a template or an old version of an Orders document, modify it and save it on the Main data storage.	No
2.2.2.5.12.0-5	TPS-4863	The ISS-S User should be able to save Text Documents on the Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.12.0-6	TPS-4864	The ISS-S should exchange Text Documents over-the-air using the Manual rule described in TPS-2565.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13	TPS-2530	Overlays			
2.2.2.5.13.0-1	TPS-613	The ISS-S Overlays should allow the ISS-S User to display on the map as overlay separation all the Graphical Data types defined in TPS-4818.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.13.0-2	TPS-5412	The ISS-S Overlays should be geo-referenced.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-3	TPS-2715	The ISS-S Overlays should present and supporting Enemy, Friendly, Unknown and Neutral Symbols and Blue PA using the following Overlay separation: • Enemy; • Friendly and Blue PA; and • Neutral and Unknown.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-4	TPS-4879	Different Hand Drawings and Routes should be presented as different ISS-S Overlays.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-5	TPS-2695	The ISS-S User should be able to toggle on or off any ISS-S Overlay.	Demo	The Contractor must load on the display at least four different Graphical data	No

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				types and display them and hide them in different combinations (1 overlay active with 3 hidden, 2 overlays active with 2 hidden, etc...).	
2.2.2.5.13.0-6	TPS-4040	When an Overlay is turned on by the ISS-S User, the ISS-S should display all data entities associated to the Overlay.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-7	TPS-4041	When an Overlay is turned off by the User, the ISS-S should not display any data entity associated to the Overlay.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-8	TPS-2696	The ISS-S User should be able to view all available ISS-S Overlays at the same time.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-9	TPS-5488	The ISS-S User should be able to save multiple Overlays on the Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-10	TPS-5489	The ISS-S User should be able to select which Overlays to display from the ones saved on his/her ISS-S.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-11	TPS-5490	The ISS-S should exchange Overlays over-the-air using the Manual rule described in TPS-2565	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-12	TPS-5491	When an Overlay is exchanged between two ISS-S, the receiving ISS-S User should be able to make modifications to the received Overlay.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.13.0-13	TPS-5492	When an Overlay is exchanged between two ISS-S, the receiving ISS-S User should be able to make copies of the received Overlay.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14	TPS-361	Alarms and Alerts			
2.2.2.5.14.0-1	TPS-4918	Definitions: Warning - A signal that indicates the existence of a hazardous condition requiring immediate action to prevent loss of life, equipment damage, or a service interruption. Caution - A signal that indicates the existence of a condition requiring attention but not immediate			

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		action. Advisory - A signal that indicates a safe or normal configuration, condition of performance, or operation of essential equipment or attracts attention and imparts information for routine action purposes.			
2.2.2.5.14.0-2	TPS-5479	The ISS-S should have an Alarms and Alerts capability that allows the ISS-S User to notify and be notified of the existence of conditions requiring different degrees of attention.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.0-3	TPS-4922	Audio alarms for Warning and Caution signals should be readily distinguishable.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.0-4	TPS-3145	The ISS-S should not present more than seven different non-verbal audio signals to the user.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.0-5	TPS-5480	For every Warning signals, the ISS-S should provide the following characteristics and capabilities: - 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.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.0-6	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.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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2.2.2.5.14.0-7	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.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1	TPS-3966	Emergency Alerts			
2.2.2.5.14.1.0-1	TPS-3968	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.	Demo	The Contractor must generate an Emergency Alert for the four types of Alert specified in this requirement.	No
2.2.2.5.14.1.0-2	TPS-4829	When receiving an Emergency Alert message, the ISS-S User should be notified by means of a Warning signal as described in TPS-5480.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.0-3	TPS-3969	When generating a Friendly nuclear strike Alert, the ISS-S User should have the option of inputting graphically: • Location of the strike, • Date-time of the strike, • A circle centred on the entity indicating the Minimum safe distance One, as defined in STANAG 2104, • A circle centred on the entity indicating the Minimum safe distance Two, as defined in STANAG 2104.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.0-4	TPS-3973	When generating a Friendly nuclear strike Alert, the ISS-S User should have the option of attaching text to the Alert.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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2.2.2.5.14.1.0-5	TPS-3971	When generating a Biological or Chemical attack Alert, the ISS-S User should have the option of inputting graphically: <ul style="list-style-type: none"> • The location of the entity, • Date-Time of the attack, • The contour of an area indicating the contaminated zone, • The downwind direction. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.0-6	TPS-3974	When generating a Biological or Chemical attack Alert, the ISS-S User should have the option of attaching text to the Alert.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.0-7	TPS-3970	The Imminent Air Attack Alert should consist of a structured message with the following fields: <ul style="list-style-type: none"> • Date-time of enemy sighting, • Location of observer, • Direction of the enemy, • Free text. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.0-8	TPS-3975	When the ISS-S User generates an Imminent Air Attack Alert, the Date-time of enemy sighting and location of observer fields should be automatically generated by the ISS-S.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.1	TPS-3977	Generation of Emergency Alerts			
2.2.2.5.14.1.1.0-1	TPS-3978	The ISS-S should automatically generate an Alert Message upon creation of any Emergency Alert listed in TPS-3968.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.1.0-2	TPS-3980	All Emergency Alert Messages should be broadcasted automatically to all nodes on the ISS-S Network and take precedence over any other data communications.	Demo	The Contractor must demonstrate that all Nodes of the ISS-S Network are receiving the Emergency Alerts.	No
2.2.2.5.14.1.2	TPS-3982	Reception of Emergency Alerts			
2.2.2.5.14.1.2.0-1	TPS-3983	When receiving an Emergency Alert Message, the ISS-S should generate a dedicated audio Alarm and visual Alert.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.14.1.2.0-	TPS-3984	The ISS-S should not allow the ISS-S User to	Demo	The Contractor must demonstrate that	No

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2		disable the audio alarm and visual alert associated with an Emergency Alert Message.		the ISS-S meets this requirement.	
2.2.2.5.14.1.2.0-3	TPS-3987	Reception of an All clear Emergency Alert should remove all Visual Alerts and clear Audio Alarms.	Demo	The Contractor must send an Emergency Alert other than the All Clear Alert. Then, the Contractor must send an All Clear Emergency Alert. The Contractor must demonstrate that ISS-S of the receiving Nodes will generate associated visual alerts and audio alarms that will be removed automatically once the All Clear Emergency Alert is received.	No
2.2.2.5.15	TPS-4835	Data Exchange Capabilities			
2.2.2.5.15.0-1	TPS-4180	The ISS-S must have the capability to send any information associated to the Automatic rule using the Manual rule instead when the ISS-S User decides to resend the information.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.0-2	TPS-4117	The ISS-S should time-stamp every message being exchanged.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.0-3	TPS-4118	The ISS-S User should be able to display the message time-stamp.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.1	TPS-2561	Rules			
2.2.2.5.15.1.0-1	TPS-2726	The ISS-S must support the following Rules: • Automatic; • Blue PA; • Manual.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.1.1	TPS-2562	Automatic			
2.2.2.5.15.1.1.0-1	TPS-2727	When an ISS-S User sends information based on the "Automatic" Rule, the information must be sent to the configured COI(s) as soon as the information entry is completed and confirmed.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.1.2	TPS-4182	Blue PA			
2.2.2.5.15.1.2.0-1	TPS-4181	Blue PA must be sent automatically to the Blue PA COI.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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2.2.2.5.15.1.3	TPS-2565	Manual			
2.2.2.5.15.1.3.0-1	TPS-1685	When an ISS-S User sends information based on the "Manual" Rule, the system must present to him the possible COIs and recipients list so that the User can select one or more recipients from the lists.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.1.3.0-2	TPS-5487	When an ISS-S User receives information from another ISS-S User, the ISS-S User must be able to forward the information to members of a COI or to one or more ISS-S Users.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.1.3.0-3	TPS-2736	The information must be sent to all Users selected recipients list.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.2	TPS-1890	Address Lists			
2.2.2.5.15.2.0-1	TPS-1891	The ISS-S should have an Address List functionality that provides a list of all ISS-S Users with their ORBAT positions.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.2.0-2	TPS-1893	The Address List should include only the Nodes detected by the Presence service specified in TPS-2939.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.2.0-3	TPS-2943	The Address list should present the ORBAT Position of the detected nodes.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.2.0-4	TPS-2944	The Address list should group ORBAT positions by platoon, section and detachments.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.2.0-5	TPS-1894	When the ISS-S User sends a message, file or information other than Blue PA, the Address List functionality should allow him/her to select the individual Users or group of Users to whom the message is to be sent.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.2.5.15.2.1	TPS-2939	Presence service			
2.2.2.5.15.2.1.0-1	TPS-5142	The Presence Service gives the opportunity to the ISS-S User to determine, when required, if a certain node has joined the network or not for a particular COI. This service tells the ISS-User which node can receive information or not at a			

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		given time.			
2.2.2.5.15.2.1.0-2	TPS-2940	The ISS-S should have a Presence Service that detects which nodes are reachable through the ISS-S network.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.2.5.15.2.1.0-3	TPS-2941	The Presence service should automatically update the list of connected nodes every two (2) minutes or faster.	Test	The Contractor must prove through testing that the ISS-S meets this requirement.	No
2.2.3	TPS-94	Audio Display			
2.2.3.0-1	TPS-4271	The ISS-S Audio Display function supports the presentation of voice communications coming from the ISS-CS via integrated speakers and the generation of voice communications to the ISS-CS via one or more microphones. The ISS-S Audio display function also provides hearing protection for the soldiers while allowing them to still hear and distinguish all environmental sounds and noises.			
2.2.3.1	TPS-4270	General Description			
2.2.3.1.1	TPS-5358	General			
2.2.3.1.1.0-1	TPS-4272	An ISS-S Audio Display must be provided as a function of the ISS-S.	Inspection	If the ISS-S configuration has not changed from P(Bid), no other inspection is required. Otherwise: The Contractor must show the ISS-S Audio Display to Canada. Canada will inspect the ISS-S Audio Display to confirm that all the ISS-S Audio Display components required in this TPS are present.	No
2.2.3.1.1.0-2	TPS-4299	The ISS-S Audio Display must include: • a Headset that includes two canalphones that emit the audio signal to the ear, microphone(s)	Contractor's Choice	If the ISS-S configuration has not changed from P(Bid), no other verification is required.	No

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		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;		Otherwise: The Contractor must prove that all the items required in the requirement are present in the proposed ISS-S Audio Display.	
2.2.3.1.1.0-3	TPS-3170	The ISS-S Audio Display must be provided to both ears.	Contractor's Choice	If the ISS-S configuration has not changed from P(Bid), no other verification is required. Otherwise: The Contractor must prove that the ISS-S Audio Display is provided to both ears.	No
2.2.3.1.1.0-4	TPS-5137	Using the ISS-S Audio Display and the ISS-S radio, the ISS-S User must be able to perform sequential voice transmissions to two voice COIs on the ISS-S radio.	Demo	The Contractor must demonstrate how the ISS-S Audio Display can perform sequential voice transmissions on two voice nets while using the ISS-S radio.	No
2.2.3.1.1.0-5	TPS-3171	Using the ISS-S Audio Display, the ISS-S radio and one of the LCSS GFE radios, the ISS-S User must be able to perform sequential voice transmissions on two voice COIs, where one voice COI is associated with the ISS-S radio and the other voice COI is associated with the LCSS GFE radio; both radios are simultaneously used.	Demo	The Contractor must demonstrate how the ISS-S Audio Display can perform sequential voice transmissions on two voice nets, where one voice net is associated with the ISS-S radio and the other voice net is associated with an LCSS GFE radio.	No
2.2.3.1.1.0-6	TPS-3173	Using the ISS-S Audio Display and the ISS-S radio, the ISS-S User must be able to listen to two voice COIs simultaneously, with one net to each ear.	Demo	The Contractor must demonstrate how the ISS-S Audio Display can listen to two voice nets, a voice net to each ear, while using the ISS-S radio.	No
2.2.3.1.1.0-7	TPS-5374	Using the ISS-S Audio Display, the ISS-S radio	Demo	The Contractor must demonstrate how	Yes

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		and one of the LCSS GFE radios, the ISS-S User must be able to listen to two voice COIs simultaneously, one voice COI per radio, with one net to each ear.		the ISS-S Audio Display can listen to two voice nets simultaneously, the voice net associated with the ISS-S radio to one ear and the voice net associated with a LCSS GFE radio to the other ear.	
2.2.3.1.1.0-8	TPS-3174	The ISS-S Audio Display should display the same or different information to the right and left ear based on ISS-S User preference.	Demo	The Contractor must demonstrate all functions that were claimed to be met at bid time and prove that all claimed functions are supported as per the requirement.	No
2.2.3.1.2	TPS-4291	Interface Requirements			
2.2.3.1.2.0-1	TPS-4292	The ISS-S Audio Display must be worn, used and operated with the following list of radios: a) ISS-S radio; b) LCSS GFE radio for dismounted forces, as identified below: i) AN/PRC-148 MBITR; ii) AN/PRC-152; iii) AN/PRC-117F.	Demo	The Contractor must demonstrate that the ISS-S Audio Display can be worn, used and operated using the ISS-S radio and a LCSS GFE radio simultaneously. All the radios in the list of LCSS GFE radios must be demonstrated: AN/PRC-148 MBITR, AN/PRC-152 and AN/PRC-117F.	No
2.2.3.1.2.0-2	TPS-4293	The ISS-S Audio Display must connect to, operate with and meet the interface specifications of all the LCSS GFE Radios listed in TPS-4292.	Contractor's Choice	The Contractor must prove that the ISS-S Audio Display can operate with and meets the interface specifications of the LCSS-S GFE Radios: AN/PRC-148 MBITR, AN/PRC-152 and AN/PRC-117F.	No
2.2.3.1.3	TPS-4413	Headset and Canalphones			
2.2.3.1.3.0-1	TPS-4415	All cables connecting to the ISS-S Audio Display headset must be protected by strain relief.	Contractor's Choice	The Contractor must prove that the ISS-S Audio Display headset is protected by a strain relief.	No
2.2.3.1.3.0-2	TPS-5169	The canalphones must be replaceable and be available in the following two variations: 1) As universal canalphones; and 2) As custom canalphones.	Contractor's Choice	The Contractor must prove that the ISS-S Audio Display can be fitted to the ISS-S User when using universal canalphones and when using custom canalphones which are customized to fit	No

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				the ISS-S User's ears.	
2.2.3.1.4	TPS-4340	Talk-Through Circuit (TTC)			
2.2.3.1.4.0-1	TPS-4343	The ISS-S Audio Display TTC must have a switch to enable and disable the TTC function.	Demo	If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required. Otherwise: The Contractor must demonstrate that the TTC function can be turned ON and turned OFF.	No
2.2.3.1.4.0-2	TPS-4341	The TTC must allow the ambient sound to be transmitted to the wearer's ear when the ISS-S Audio Display mode selector switch is set to the Talk-Through Circuit mode.	Demo	If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required. Otherwise: The Contractor must demonstrate that the TTC function allows ambient sounds to reach the User's ears.	No
2.2.3.1.4.0-3	TPS-3163	The ISS-S Audio Display TTC should allow the ISS-S User to selectively enhance hearing by 3 dB.	Contractor's Choice	The Contractor must prove that the TTC function can enhance hearing by at least 3 dB.	No
2.2.3.1.5	TPS-4310	Noise Reduction System			
2.2.3.1.5.0-1	TPS-4998	In the 125Hz to 1kHz frequency range, the ISS-S Audio Display must provide at least 20dB of attenuation at the ear when the external environmental noise is at a level above 107dBA.	Test	The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	No
2.2.3.1.5.0-2	TPS-4999	In the 125Hz to 1kHz frequency range, the ISS-S Audio Display should provide more than 20dB of attenuation at the ear when the external environmental noise is at a level above 107dBA.	Test	If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required. Otherwise:	No

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				The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	
2.2.3.1.5.0-3	TPS-5000	In the 125Hz to 1kHz frequency range, the ISS-S Audio Display must keep the audio level at the ear below 87dBA when the environmental noise level is between 87dBA and 107dBA.	Test	The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	No
2.2.3.1.5.0-4	TPS-5001	In the 1kHz to 4kHz frequency range, the ISS-S Audio Display must provide at least 30dB of attenuation at the ear when the external environmental noise is at a level above 117dBA.	Test	The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	No
2.2.3.1.5.0-5	TPS-5002	In the 1kHz to 4kHz frequency range, the ISS-S Audio Display should provide more than 30dB of attenuation at the ear when the external environmental noise is at a level above 117dBA.	Test	If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required. Otherwise: The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	No
2.2.3.1.5.0-6	TPS-5003	In the 1kHz to 4kHz frequency range, the ISS-S Audio Display must keep the audio level at the ear below 87dBA when the environmental noise level is between 87dBA and 117dBA.	Test	The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	No
2.2.3.1.5.0-7	TPS-5004	While the TTC is ON, the ISS-S Audio Display must not provide any attenuation when the environmental noise is at a level less than 80dBA.	Test	The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	No
2.2.3.1.5.0-8	TPS-3161	The ISS-S Audio Display must provide protection from impulse noise above 140dB(C) peak.	Test	The Contractor must provide a 3rd party test report proving that the ISS-S Audio Display meets the requirement.	No
2.2.3.1.5.0-9	TPS-5204	If ISS-S Audio Display makes use of Active Noise Cancellation techniques, the ISS-S User must be able to disable that ISS-S Audio Display's Active Noise Cancellation function.	Demo	The Contractor must demonstrate how the ISS-S meets the requirement.	No

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2.2.3.1.6	TPS-4345	Voice Microphone			
2.2.3.1.6.0-1	TPS-4347	The ISS-S Audio Display must not make use of throat microphones.	Contractor's Choice	If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required. Otherwise: The Contractor must prove that the ISS-S Audio Display does not make use of throat microphones.	No
2.2.3.2	TPS-5333	Human Systems Integration			
2.2.3.2.0-1	TPS-3156	When operating the ISS-CS and the ISS-S Audio Display, the end-to-end over-the-air speech intelligibility of the ISS-S must meet a minimum Modified Rhyme Test score of 91% (after correction for guessing factored-in), when tested in accordance with section 3 - Speech Intelligibility, of Volume 2, Annex CB, Appendix 5 - Audio Display Test Procedure Requirements.	Test	The Contractor must prove that the ISS-S meets the requirement by executing a test in accordance with the Speech Intelligibility test procedure found in section 3 - Speech Intelligibility of Volume 2, Annex CB, Appendix 5 - Audio Display Test Procedure Requirements.	No
2.2.3.2.0-2	TPS-3157	The ISS-S User's ability to identify sounds while wearing an operational ISS-S Audio Display must not be reduced by more than five (5) percent compared to when not wearing an audio display. Sound identification must be tested in accordance with the test plan in section 5 - Sound Identification, of Volume 2, Annex CB, Appendix 5 - Audio Display Test Procedure Requirements.	Test	The Contractor must prove that the ISS-S Audio Display meets the requirement by executing a test in accordance with the Sound Identification test procedure found in section 5 - Sound Identification, of Volume 2, Annex CB, Appendix 5 - Audio Display Test Procedure Requirements.	No
2.2.3.2.0-3	TPS-3158	The ISS-S User's ability to localize sound to within plus or minus 45 degrees in the horizontal plane while wearing an operational ISS-S Audio Display must not be reduced by more than fifteen (15) percent compared to when not wearing an audio display. Sound localization must be tested in accordance with the test plan in section 4 - Sound Localization, of Volume 2, Annex CB, Appendix 5 -	Test	The Contractor must prove that the ISS-S Audio Display meets the requirement by running a test in accordance with the Sound Localization test procedure found in section 4 - Sound Localization, of Volume 2, Annex CB, Appendix 5 - Audio Display Test Procedure Requirements.	No

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		Audio Display Test Procedure Requirements.			
2.2.3.3	TPS-5165	Audio Display Control Circuitry			
2.2.3.3.0-1	TPS-5167	The ISS-S Audio Display Control Circuitry must provide EMSEC separation between security domains for voice communications, as specified in section TPS-4266.	Contractor's Choice	The Contractor must prove that the ISS-S Audio Display Control Circuitry provides EMSEC separation as per the requirement.	No
2.2.3.4	TPS-4400	Wired Push-To-Talk (PTT) Switch			
2.2.3.4.0-1	TPS-4401	The ISS-S Wired PTT Switch must have two (2) PTT switches, one per enabled voice COI.	Contractor's Choice	If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required. Otherwise: The Contractor must prove that each PTT switch can be used to transmit voice on a radio voice COI.	No
2.2.3.4.0-2	TPS-4403	Using a single ISS-S radio, the ISS-S Wired PTT Switch must allow sequential voice transmission to two (2) voice COIs.	Contractor's Choice	If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required. Otherwise: The Contractor must prove that a PTT switch is used to transmit on one voice COI and the other PTT switch is used to transmit on the other voice COI.	No
2.2.3.4.0-3	TPS-4404	Using an ISS-S radio and a LCSS GFE radio, the ISS-S Wired PTT Switch must allow sequential voice transmission to two (2) voice COIs of different security domains, one voice COI per radio.	Contractor's Choice	The Contractor must prove that a PTT switch is used to transmit on a voice COI on the ISS-S radio and the other PTT switch is used to transmit on a voice COI on an LCSS GFE radio. The proof must include all the LCSS GFE radios: AN/PRC-148 MBITR, AN/PRC-152 and AN/PRC-117F.	No

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2.2.3.5	TPS-5027	Wireless Push-To-Talk (PTT) Switch			
2.2.3.5.0-1	TPS-4276	<p>The ISS-S Audio Display should include a Wireless Push-To-Talk (PTT) to enable transmission of voice communications on two voice COIs (on one or two radios) sequentially, with the following considerations:</p> <ul style="list-style-type: none"> ○ If the Wireless PTT battery can provide power lasting at least the 18 months cycle of the MISSION PROFILES AND OPERATIONAL MODE SUMMARY as per table 11 of Volume 2, Annex CB, Appendix 3, then the Wireless PTT battery is not considered a Power Domain; ○ If the Wireless PTT battery can't provide power lasting at least the 18 months cycle of the MISSION PROFILES AND OPERATIONAL MODE SUMMARY as per table 11 of Volume 2, Annex CB, Appendix 3, an extra Power Domain has to be considered, however the requirements in section TPS-5443 ISS Batteries become less restrictive; it is acceptable that the ISS Batteries be either rechargeable "OR" non rechargeable. 	Contractor's Choice	<p>If the ISS-S configuration has not changed from P(Bid), no other verification is required.</p> <p>Otherwise:</p> <p>The Contractor must prove that all the items required in the requirement are present in the proposed ISS-S Audio Display.</p>	No
2.2.3.5.0-2	TPS-5028	The ISS-S Wireless PTT Switch should consist of a wireless PTT switch with a mounting system that allows it to be attached to the weapon.	Demo	<p>If the ISS-S Audio Display Wireless PTT configuration has not changed from P(Bid), no other inspection is required.</p> <p>Otherwise:</p> <p>The Contractor must demonstrate how the ISS-S Wireless PTT is to be attached to the weapon.</p>	No
2.2.3.5.0-3	TPS-5029	The ISS-S Wireless PTT Switch should have two (2) PTT switches, one per enabled voice COI.	Contractor's Choice	If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required.	No

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				Otherwise: The Contractor must prove that each PTT switch can be used to transmit voice on a radio voice COI.	
2.2.3.5.0-4	TPS-5030	Using a single ISS-S radio, the ISS-S Wireless PTT Switch should allow sequential voice transmission to two (2) voice COIs..	Contractor's Choice	If the ISS-S Audio Display configuration has not changed from P(Bid), no other test is required. Otherwise: The Contractor must prove that while using the ISS-S radio, a PTT switch is used to transmit on one voice COI and the other PTT switch is used to transmit on the other voice COI.	No
2.2.3.5.0-5	TPS-5031	Using an ISS-S radio and a LCSS GFE radio, the ISS-S Wireless PTT Switch should allow sequential voice transmission to two (2) voice COIs of different security domains, one voice COI per radio.	Contractor's Choice	The Contractor must prove that a PTT switch is used to transmit on a voice COI on the ISS-S radio and the other PTT switch is used to transmit on a voice COI on an LCSS GFE radio. The proof must include all the LCSS GFE radios: AN/PRC-148 MBITR, AN/PRC-152 and AN/PRC-117F.	No
2.2.4	TPS-96	Position Generation and Navigation			
2.2.4.0-1	TPS-4203	It is expected that dismounted soldiers use GPS for reporting the location of individuals, sections and platoons. Navigation sensor may also provide help for fire support missions.			
2.2.4.0-2	TPS-4204	The ISS-S must be fitted with an integrated Global Positioning System receiver.	Contractor's Choice	If the type of Global Positioning System receiver and its associated integration has not changed from P(bid), no other verification required.	No

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				Otherwise: The Contractor must provide a detailed description of the Global Positioning System receiver components and the integration details into the ISS-S. This includes but is not limited to GPS make and model, specification, integration location, antenna type and a description of all physical interfaces.	
2.2.4.0-3	TPS-4207	The ISS-S must provide the User with a warning indication that he operates in a GPS-degraded or GPS-denied environment under any of the following conditions: <ul style="list-style-type: none"> • GPS receiver's fix is invalid or estimated for 10 seconds; • GPS receiver has access to less than 4 satellites for 10 seconds; and • The average C/No is less than 30 dB-Hz for 10 seconds 	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes. Test must include normal, degraded and denied GPS environment, including transition from one to the other. Testing should include the use of a GPS simulator to trigger the events and the fading environment. Testing to include the below conditions: <ul style="list-style-type: none"> - GPS receiver's fix is invalid or estimated for 10 seconds; - GPS receiver has access to less than 4 satellites for 10 seconds; and - The average C/No is less than 30 dB-Hz for 10 seconds 	No
2.2.4.0-4	TPS-4208	The ISS-S GPS must provide position information for 10 digit UTM grid reference.	Demo	The Contractor must demonstrate the ISS-S displays the actual position of the soldier using the 10 digit UTM grid reference system.	No
2.2.4.0-5	TPS-582	The ISS-S must provide the bearing of the direction faced by the User in relation with the True North, while travelling and while standing still, with an accuracy of at least 5 degrees.	Test	The Contractor must perform a test and measure the bearing accuracy while moving at 10km/h, 0.5km/h and standing still. The test jig is to turn in 45 degree	No

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				resolution and measurements must be taken until 360 degrees is achieved. Repeat clockwise and counter-clockwise. Ensure that accuracy is at least 5 degrees. The Contractor must use Tactical User Interface to get the ISS-S bearing readings.	
2.2.4.0-6	TPS-2436	The ISS-S should provide the bearing of the direction faced by the User in relation with the True North, while travelling and while standing still, with an accuracy of better than 5 degrees.	Test	The Contractor must perform a test and measure the bearing accuracy while moving at 10km/h, 0.5km/h and standing still. The test jig is to turn in 45 degree resolution and measurements must be taken until 360 degrees is achieved. Repeat clockwise and counter-clockwise. Ensure that accuracy is at least as good as what the Contractor claimed at bid time.. The Contractor must use Tactical User Interface to get the ISS-S bearing readings.	No
2.2.4.0-7	TPS-4209	The ISS-S must provide the bearing of the direction faced by the User in relation with the True North of the Battle Management System.	Demo	The Contractor must demonstrate that the BMS successfully and accurately receives and display the bearing on the BMS.	No
2.2.4.1	TPS-4210	GPS Receiver Performance			
2.2.4.1.0-1	TPS-4212	The ISS-S integrated GPS receiver must have a minimum position accuracy of 13m horizontal with 95% confidence in unobstructed terrain.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes. Test must be repeated to gather appropriate statistics. Test to be performed under unobstructed open terrain.	No
2.2.4.1.0-2	TPS-4213	The ISS-S integrated GPS receiver should have a minimum position accuracy of 22m vertical with 95% confidence in unobstructed terrain.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes. Test must be	No

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				repeated to gather appropriate statistics. Test to be performed under unobstructed open terrain.	
2.2.4.1.0-3	TPS-4215	Warm Start applies to a receiver that has been provided estimates of local position, date and time information, ground speed and track, if available, and non-current Space Vehicle (SV) information.			
2.2.4.1.0-4	TPS-4216	Hot Start applies to a receiver that contains a valid and current cryptovariable key and has been provided actual local position, date and time information and, ground speed and track, if available, and current Space Vehicle (SV) information.			
2.2.4.1.0-5	TPS-4217	The ISS-S integrated GPS receiver must not exceed the following Time To First Fix in unobstructed terrain: <ul style="list-style-type: none"> • 60 seconds for a Warm Start; • 5 second for a Hot Start. 	Test	<p>The Contractor must prove through testing that the ISS-S meets this requirement. Test to be done using at least ten (10) ISS-S nodes. Test must be repeated by each node a minimum of 10 times to gather appropriate statistics. Test to be performed under unobstructed open terrain with no signal jamming.</p> <p>For the Warm Start test, the ISS-S must have been powered down for at least 2 hours. For the Hot Start test the ISS-S must have been turned off for at least 1 minute.</p> <p>For Hot start:</p> <ul style="list-style-type: none"> a. Present horizontal position is known to within 21 m; b. Present vertical position is known to within 28 m; c. Present velocity is known to within 0.4 m/sec; 	No

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				d. Present time is known to within 200 nanoseconds; e. The current satellite navigation message is in memory.	
2.2.4.2	TPS-4223	Military GPS			
2.2.4.2.0-1	TPS-4224	Military GPS device: A GPS capable of tracking and decoding the encrypted P(Y) code.			
2.2.4.2.0-2	TPS-4225	Military GPS capability is to be provided by either: • Providing and proving an interface to the CF in-service DAGR; or • Integrating a Military Grade GPS in the ISS-S Note: If the DAGR interface concept is chosen, the ISS-S is to be fitted with an integrated GPS receiver (commercial based).			
2.2.4.2.0-3	TPS-5214	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM); or • Interfacing with a CF in-service DAGR.	Demo	The Contractor must demonstrate that a military GPS mode has been implemented as part of the solution and that it is either: - ISS-S has an integrated SAASM receiver; or - ISS-S has an interface to a DAGR.	No
2.2.4.2.0-4	TPS-5215	To operate in military GPS mode, the ISS-S should have an integrated military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM).	Demo	The Contractor must demonstrate that a military GPS mode has been implemented using an integrated SAASM receiver solution	No
2.2.4.2.0-5	TPS-5427	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM); or • Interfacing with a CF in-service DAGR by physically connecting the CF in-service DAGR to the ISS-S, meeting the CF in-service DAGR interface specifications, and operating the CF in-	Analysis - and - Demo	If an integrated military grade GPS receiver is provided, the Contractor does not need to perform a demonstration or an analysis. If an interface to the CF in-service DAGR is provided, the Contractor must demonstrate that a military GPS mode has been implemented by interfacing	No

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		service DAGR.		with a CF in-service DAGR. The analysis must detail the physical and electrical connectivity and interface that will be provided including design characteristics and conformance to DAGR physical interfaces (IS-GPS-164). The Contractor must also describe what messages are exchanged between the CF in-service DAGR and the ISS-S, including message formats and protocol.	
2.2.4.2.0-6	TPS-5216	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM); or • Interfacing with a CF in-service DAGR such that the CF in-service DAGR provides position information to the ISS-S while it is connected to the ISS-S.	Demo	If an integrated military grade GPS receiver is provided, the Contractor does not need to perform a demonstration. If an interface to the CF in-service DAGR is provided, the Contractor must demonstrate that when in military GPS mode using the DAGR, the DAGR provides all position information to the ISS-S.	No
2.2.4.2.0-7	TPS-5414	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM); or • Interfacing with a CF in-service DAGR such that when a CF in-service DAGR is connected to the ISS-S, all position related information called-up in this specification is provided to the User using the ISS-S Tactical User Interface display.	Demo	If an integrated military grade GPS receiver is provided, the Contractor does not need to perform a demonstration. If an interface to the CF in-service DAGR is provided, the Contractor must demonstrate that when the DAGR is used, the User does not need to use the DAGR display. All position related information is accessible and useable using the ISS-S Tactical User Interface.	No
2.2.4.2.0-8	TPS-4226	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based	Test	If an integrated military grade GPS receiver is provided, the Contractor must prove through testing that the ISS-S	No

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		on a Selective Availability / Anti-Spoofing Module (SAASM) which has a minimum position accuracy of 10.5m horizontal radial error with 95% confidence, in unobstructed terrain; or <ul style="list-style-type: none"> • Interfacing with a CF in-service DAGR. 		meets the requirement. Test to be done using at least five (5) ISS-S nodes. Test must be repeated to gather appropriate statistics. Test to be performed under unobstructed open terrain. If an interface to the CF in-service DAGR is provided, the Contractor does not need to perform a test.	
2.2.4.2.0-9	TPS-5413	The ISS-S must operate in military GPS mode by either: <ul style="list-style-type: none"> • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which has a minimum position accuracy of 19.1m vertical error with 95% confidence, in unobstructed terrain; or • Interfacing with a CF in-service DAGR. 	Test	If an integrated military grade GPS receiver is provided, the Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes. Test must be repeated to gather appropriate statistics. Test to be performed under unobstructed open terrain. If an interface to the CF in-service DAGR is provided, the Contractor does not need to perform a test.	No
2.2.4.2.0-10	TPS-4229	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 support IS-GPS-153D messages generated by the Military GPS. The minimum message set must be: <ul style="list-style-type: none"> • 4 (24-Channel Time Mark Data); • 5040 (Current Status); and • 5044 (Warnings); or • Interfacing with a CF in-service DAGR. 	Contractor's Choice	If an integrated military grade GPS receiver is provided, the Contractor must prove that the ISS-S meets this requirement. The proof must include: <ul style="list-style-type: none"> - Extracting the minimum messages sets from the military GPS receiver as described in the requirement; and - Proof that shows how the messages are implemented in the solution. If an interface to the CF in-service DAGR is provided, the Contractor does not	No

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				need to provide any proof.	
2.2.4.2.0-11	TPS-4231	<p>The ISS-S must operate in military GPS mode by either:</p> <ul style="list-style-type: none"> Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which provides the soldier with a warning indication when the ISS-S Military GPS receiver has identified possible jammer or spoofer as per message 5044 of IS-GPS-153D. The minimum warning IDs are: <ul style="list-style-type: none"> 10 - Possible spoofers; No CV's for today; and 60 to 63 - Possible jamming; or Interfacing with a CF in-service DAGR. 	Test	<p>If an integrated military grade GPS receiver is provided, the Contractor must prove through testing that the ISS-S meets this requirement and prove that warning indications is provided to the soldier when under jamming or spoofing. Test to be conducted in a laboratory environment where spoofing and jamming environment will be generated through GPS simulator and signal generators. Test must be conducted on at least 5 ISS-S nodes simultaneously.</p> <p>If an interface to the CF in-service DAGR is provided, the Contractor does not need to perform a test.</p>	No
2.2.4.2.0-12	TPS-5408	<p>The ISS-S must operate in military GPS mode by either:</p> <ul style="list-style-type: none"> Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which, in addition to the warning indications specified in requirement TPS-4207, provide the User with a warning indication that he operates in a GPS-degraded or GPS-denied environment under the following conditions: <ul style="list-style-type: none"> Any warning indication from a Military GPS Receiver as per TPS-4231 ; and Warning indication from the Military GPS based message 4 from IS-GPS-153D on State 3 Operation flag set (GPS degraded) and neither State 3 nor State 5 flag set (GPS denied). or Interfacing with a CF in-service DAGR. 	Test	<p>If an integrated military grade GPS receiver is provided, the Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes. Test must include normal, degraded and denied GPS environment, including transition from one to the other. Testing should include the use of a GPS simulator to trigger the events and the fading environment. Testing to include the below conditions:</p> <ul style="list-style-type: none"> - Any warning indication from a Military GPS Receiver as per TPS-4231 - Warning indication from the Military GPS based message 4 from IS-GPS-153D on State 3 Operation flag set (GPS 	No

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				degraded) and Neither State 3 nor State 5 flag set (GPS denied). If an interface to the CF in-service DAGR is provided, the Contractor does not need to perform a test.	
2.2.4.2.0-13	TPS-4230	The ISS-S should operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which provides the Estimated Horizontal Error (EHE) every 10 seconds to the BMS; or • Interfacing with a CF in-service DAGR.	Contractor's Choice	If an integrated military grade GPS receiver is provided, the Contractor must show that it extracts EHE from the military GPS receiver and makes information available to the soldier through BMS and display. This must include a variation in EHE so that updates to EHE are also shown. Variation in the EHE should be induced by a GPS simulator. If an interface to the CF in-service DAGR is provided, the Contractor does not need to provide any proof.	No
2.2.4.2.0-14	TPS-4232	When operating in military GPS mode, the ISS-S must process the Military grade GPS information in priority over any other GPS device within the ISS-S.	Contractor's Choice	The Contractor must prove that when in military GPS mode priority is given to the military grade GPS position information over any other GPS device within the ISS-S. Verification to be conducted in a laboratory environment. Verification must include having the ISS-S turned on with a non-military GPS active and operating normally (i.e. providing GPS position information to the ISS-S) and then going into military GPS mode by turning on or connecting the military grade GPS. The source of navigation information in the ISS-S must	No

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				be from the military grade GPS. This only applies when the proposed ISS-S solution has more then one GPS receiver instance. This requirement is considered met if the military GPS mode with an integrated SAASM is the only implementation of GPS receiver in the proposed ISS-S.	
2.2.4.2.0-15	TPS-4233	The ISS-S must operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which allows the User to load Military GPS cryptographic keys and confirm keyed state; or • Interfacing with a CF in-service DAGR.	Contractor's Choice	If an integrated military grade GPS receiver is provided, the Contractor must prove that Key loading interface for GPS key material is available and functional. The Contractor must also prove that the user can verify the keyed state of the military GPS receiver. Verification to be conducted in a laboratory environment. Verification must include having an non-keyed ISS-S, loading Keys into the military GPS receiver and verifying that the keys have been correctly imported. Keyed Status must be verified at each step. If an interface to the CF in-service DAGR is provided, the Contractor does not need to provide any proof.	No
2.2.4.2.0-16	TPS-4234	The ISS-S should operate in military GPS mode by either: • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which performs direct P(Y)-Code Acquisition while meeting the Time To First Fix requirement of TPS-4217; or • Interfacing with a CF in-service DAGR.	Test	If an integrated military grade GPS receiver is provided, the Contractor must prove that after Key loading, the ISS-S will perform direct P(Y)-Code Acquisition. Verification will required loading the receiver with the Black Monthly key (BCVm), ensure the receiver clock is within about 10 seconds of the correct	No

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				<p>time. Turn the receiver off and back on such that a Warm Start is triggered. Repeat the test but turn the receiver off and back on such that a Hot Start is triggered.</p> <p>For both Warm Start and Hot Start cases, record the channel tracking data (message 4) and prove that all channels started tracking P(Y)-code without first tracking C/A code.</p> <p>For both Warm Start and Hot Start cases, Time To First Fix for must be measured and meet the times specified in TPS-4217.</p> <p>Verification must be performed with no assistance from other supporting GPS devices.</p> <p>If an interface to the CF in-service DAGR is provided, the Contractor does not need to perform a test.</p>	
2.2.4.2.0-17	TPS-4236	<p>The ISS-S must operate in military GPS mode by either:</p> <ul style="list-style-type: none"> • Integrating a military grade GPS receiver based on a Selective Availability / Anti-Spoofing Module (SAASM) which simultaneously processes L1/L2 dual frequency GPS signal reception; or • Interfacing with a CF in-service DAGR. 	Contractor's Choice	<p>If an integrated military grade GPS receiver is provided, the Contractor must prove that the military GPS mode of the ISS-S can receive and use L1 and L2 frequencies available for the P(Y) code. Message 4 from IS-GPS-153D includes tracked frequencies and can be used for verification. Verification must be performed with no assistance from other supporting GPS devices.</p> <p>If an interface to the CF in-service DAGR is provided, the Contractor does not need to provide any proof.</p>	No

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2.2.5	TPS-97	Communication			
2.2.5.0-1	TPS-1616	The ISS-CS includes all the communications functions that are required to enable the soldier to use voice and data services to fulfil their mission as set out in Section 1 of the TPS. Communications functions will reside on ISS-S functional entities, including radios and computer operating systems (i.e. communications networking functions). The ISS-S will use an audio display permitting soldiers to talk and listen through the radio provided by the ISS-CS. The ISS-CS is distinct and separate from the LCSS and LCSS communications devices.			No
2.2.5.0-2	TPS-1668	Communications functions for dismounted commanders include the use of 2 radios. The first radio will be the ISS-S radio procured by the ISS-S and will provide voice and data communications with dismounted soldiers. The second radio, a LCSS radio operating at a SECRET level, will be provided as GFE for voice communications with LCSS-equipped vehicles and other dismounted commanders. Dismounted commanders will have a visual display for interaction and control of some ISS-S radio functions from the Battle Management System.			No
2.2.5.0-3	TPS-1669	Communications functions for dismounted soldiers include voice and data communications. The ISS-S will have a visual display for interaction and control of some radio functions from the Battle Management System.			No
2.2.5.1	TPS-795	General			
2.2.5.1.0-1	TPS-796	The ISS-CS must provide a communications function, device or set of devices that allows the ISS-S User to send and receive digital voice and data concurrently within any allocated COI.	Demo	The Contractor must successfully demonstrate voice and data being used and transferred between 2 or more radios within the allocated COIs. The	Yes

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				Contractor must demonstrate that soldiers can talk and listen to voice with an ISS-CS device and that a computer connected to an ISS-CS can exchange data/information using any application with an opposite similarly configured computer.	
2.2.5.1.0-2	TPS-800	The ISS-CS must provide an operational communication system for voice and data communications between dismounted soldiers at section and platoon for company level operations.	Analysis	<p>If the ISS-S configuration has not changed from P(Bid), no other analysis is required.</p> <p>Otherwise:</p> <p>The Contractor must provide an analysis of the ISS-S voice and data behaviour when exchanged between dismounted soldiers at the section and platoon levels and also between section and platoon levels. The Contractor must provide an analysis of how their ISS-S solution meets the requirement.</p>	Yes
2.2.5.1.0-3	TPS-4254	<p>The ISS-S must provide concurrent communication services for a forty-five (45) soldier organisation (i.e., platoon with company assets), operationally dispersed over a circular area with two thousand (2000) metre diameter, where the following services are concurrently in use:</p> <ul style="list-style-type: none"> • Four (4) concurrent section voice exchanges; • Blue PA exchanges between all stations within ten (10) seconds; and • Data distribution of a twenty (20) kilobyte message from a sender to all stations of a data COI within thirty (30) seconds; <p>While using the following COI configuration:</p>	Analysis - and - Demo	<p>Analysis:</p> <p>If the ISS-S configuration has changed from P(Bid), an updated analysis of how their ISS-S solution meets the requirement is required.</p> <p>Demo:</p> <p>The Contractor must demonstrate that all the communication services specified in the requirement can concurrently be provided for a 45 soldier organisation dispersed over a two thousand (2000) metre diameter.</p>	Yes

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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). 			
2.2.5.1.0-4	TPS-5158	<p>The ISS-S should provide concurrent communication services for a forty-five (45) soldier organisation (i.e., platoon with company assets), operationally dispersed over a circular area with two thousand (2000) metre diameter, including four (4) concurrent section voice exchanges where three (3) voice COIs automatically utilize any separate dynamically allocated ISS-CS node as a relaying station, using the following COI configuration:</p> <ul style="list-style-type: none"> • Four (4) concurrent section voice exchanges (eight (8) nodes per section voice COI); • One (1) concurrent platoon, with company assets, voice exchange twenty-one (21) nodes per platoon-cmd voice COI); • One (1) concurrent platoon-wide Blue PA exchange (forty-five (45) nodes per platoon-wide Blue PA COI); • Four (4) concurrent section data exchanges (eight (8) nodes per section data COI); and • One (1) concurrent platoon, with company assets, data exchange twenty-one (21) nodes per 	Analysis	<p>If the ISS-S configuration has not changed from P(Bid), no other analysis is required.</p> <p>Otherwise: The Contractor must provide a detailed description of the ISS-S voice COI behaviour when 4 concurrent voice COIs are operated within radio range of each other, including 3 voice COIs that utilize separate ISS-CS nodes as dynamically allocated relaying stations.</p>	Yes

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		platoon-cmd data COI).			
2.2.5.1.0-5	TPS-5159	<p>The ISS-S should provide concurrent communication services for a forty-five (45) soldier organisation (i.e., platoon with company assets), operationally dispersed over a circular area with two thousand (2000) metre diameter, for Blue PA exchanges between all stations within ten (10) seconds where a minimum of three (3) ISS-CS nodes as dynamically allocated relaying stations are utilized, using the following COI configuration:</p> <ul style="list-style-type: none"> • Four (4) concurrent section voice exchanges (eight (8) nodes per section voice COI); • One (1) concurrent platoon, with company assets, voice exchange (twenty-one (21) nodes 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	<p>If the ISS-S configuration has not changed from P(Bid), no other analysis is required.</p> <p>Otherwise: The Contractor must provide a detailed description of the ISS-S voice COI behaviour when Blue PA exchanges occur between all 45 nodes within 10 seconds, with at least 3 ISS-S nodes are dynamically allocated as relaying stations.</p>	Yes
2.2.5.1.0-6	TPS-5160	<p>The ISS-S should provide concurrent communication services for a forty-five (45) soldier organisation (i.e., platoon with company assets), operationally dispersed over a circular area with two thousand (2000) metre diameter, for 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> <ul style="list-style-type: none"> • Four (4) concurrent section voice exchanges (eight (8) nodes per section voice COI); 	Analysis	<p>If the ISS-S configuration has not changed from P(Bid), no other analysis is required.</p> <p>Otherwise: The Contractor must provide a detailed description of the ISS-S voice COI behaviour when a 20 kilobyte message is distributed from 1 node to all 45 nodes within 30 seconds, including 3 separate ISS-S nodes as dynamically allocated relaying stations.</p>	Yes

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		<ul style="list-style-type: none"> • 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). 			
2.2.5.1.1	TPS-244	Capacity			
2.2.5.1.1.0-1	TPS-2633	Each ISS-CS must provide communications capacity for concurrent reception of two independent voice COI and for transmission on either voice COI when selected.	Test	The Contractor must prove through testing that two simultaneous voice COIs can be received at any chosen comms suite by the operator. The Contractor must use 3xcomms suites at a minimum. The Contractor must successfully demonstrate that the operator can speak and transmit on a voice COI while a second voice COI is also being spoken on. The Contractor must demonstrate that one voice COI does not interfere with any other voice COI.	Yes
2.2.5.1.1.0-2	TPS-2634	Each ISS-CS must provide communications capacity for concurrent transmission and reception of two voice COIs, two data COIs and a Blue PA COI for the exchange of User Services (TPS-246). NOTE: Only one voice COI is selected for outbound transmission at any point in time.	Test	The Contractor must prove through testing that in addition to TPS-2633, data can also be sent between the ISS-CS. The Contractor must use 3xcomms suites at a minimum. The Contractor must demonstrate the exchange of both large files (at least 1MB in size) and positional updates (small synchronous sequenced data units). The voice service must be demonstrated concurrently without noticeable audio	Yes

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				gaps or audio distortions (e.g. choppy audio, squeals, chirps, pops, etc).	
2.2.5.1.1.0-3	TPS-1622	The ISS-S communications network must support a minimum of five (5) concurrent, non-overlapping voice COIs located within a circular area with two hundred (200) metre diameter for dismounted close combat operations.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes. Test configurations to include some nodes co-sited and spread-out. The operators must be able to clearly hear voice at all stations in each COI (i.e., clear separation of voice within the allocated spectrum plan for high quality voice service to all stations).	Yes
2.2.5.1.1.0-4	TPS-4261	The ISS-CS must perform network synchronisation and meet the functional and performance requirements defined in this specification in a GPS-denied environment.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least three (3) ISS-S nodes.	No
2.2.5.1.2	TPS-245	Mobility and Movement			
2.2.5.1.2.0-1	TPS-833	Once set up with its initial data fill, the ISS-S communications network must adapt (i.e. no manual interaction for data services) to support connectivity changes due to mobility, topology, or attrition while maintaining reachability between ISS-S nodes, without requiring human intervention.	Analysis - and - Test	<p>Analysis: If the ISS-S configuration has changed from P(Bid), an updated analysis of how their ISS-S solution meets the requirement is required.</p> <p>Test: The Contractor must prove through testing that the ISS-S can adapt to changes in the network due to movement (e.g., node out of range, changes in node position, round-the-corner with multiple nodes using buildings to block signal) and attrition (turning off central nodes attached to a voice or data COI). Operators must confirm voice or data service at the start</p>	Yes

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				and end of the "change action - move, topology change, and attrition". The communications suites will be evaluated in a lab environment using simulated soldier movement patterns for repeatability and comparability.	
2.2.5.1.2.0-2	TPS-1623	When groups of ISS-S nodes move within radio range of one or more other ISS-S nodes, the ISS-CS must provide voice service with no more than one (1) voice service interruption longer than two hundred and fifty (250) milliseconds over a one (1) hour period when there is no change in voice relays while data is being exchanged on the network.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes. Test to be done in a lab environment.	No
2.2.5.1.2.0-3	TPS-2635	When groups of ISS-S nodes move within radio range of one or more other ISS-S nodes, the ISS-CS must provide Blue PA service with the loss of no more than two (2) sequential Blue PA messages per minute per user.	Analysis	The Contractor must provide a detailed description of the ISS-S Blue PA behaviour when groups of ISS-S nodes come into radio range of each other. The Contractor must provide an analysis of how their ISS-S solution meets the requirement.	Yes
2.2.5.1.3	TPS-242	Operational Modes			
2.2.5.1.3.0-1	TPS-804	Any group of ISS-CS, once loaded with an initial configuration fill, should establish a dismounted peer network without human intervention as the standard operating mode.	Demo	The Contractor must demonstrate that any group of ISS-S nodes can automatically establish a dismounted peer network without operator intervention.	Yes
2.2.5.1.3.0-2	TPS-803	Once a dismounted peer network has been established, the ISS-CS, loaded with its persistent configuration fill, should provide voice and data services without operator intervention other than applying power to the device.	Demo	The Contractor must demonstrate that voice and data can be used between communications suites following the cold start of an unpowered unit. Demonstration will include the operator using voice and data services (i.e. send a text message) between all communications suites once the network	Yes

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				is established. Pre-condition: 2 or more communications suites will be active in a dismounted peer network and 1 communications suite will be powered off prior to demonstration start.	
2.2.5.1.3.0-3	TPS-2622	Once a dismounted peer network has been established between several ISS-S nodes, any new ISS-S node must allow soldiers to exchange voice messages within sixty (60) seconds of applying power to the ISS-CS.	Test	The Contactor must prove through testing that voice can be used within 60 seconds following the cold start of an unpowered unit. Test to be done using at least three (3) ISS-S nodes.	No
2.2.5.1.3.0-4	TPS-2623	Once a dismounted peer network has been established, the ISS-S must exchange Blue PA messages within ninety (90) seconds of applying power to the ISS-CS.	Test	The Contractor must prove through testing that Blue PA messages can be generated and delivered within 90 seconds following the cold start of an unpowered unit. Test to be done using at least three (3) ISS-S nodes.	No
2.2.5.2	TPS-246	User Services			
2.2.5.2.1	TPS-247	Voice			
2.2.5.2.1.1	TPS-5359	General			
2.2.5.2.1.1.0-1	TPS-836	Voice speech inputs and outputs for soldiers must be provided through the ISS-S Audio Display connected to the ISS-CS. The ISS-S Audio Display is defined in TPS-94.	Demo	The Contractor must demonstrate that the ISS-S User can both listen and speak on the communications suite using audio display.	No
2.2.5.2.1.1.0-2	TPS-2638	The ISS-CS must provide individual, user-selectable voice COIs for voice exchanges (i.e. listen/speak) between COI members, where the User can enable two (2) voice COIs from at least five (5) programmed voice COIs.	Demo	The Contractor must demonstrate that an ISS-S User can both listen and speak on separate user-selected (i.e. enabled) Voice COIs. The Contractor must demonstrate that multiple voice COIs can be used separately. Demonstration to be done using at least ten (10) ISS-S nodes and at least five (5) programmed Voice COIs representing platoon and section.	No
2.2.5.2.1.2	TPS-249	Voice Service			

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2.2.5.2.1.2.0-1	TPS-2124	The ISS-S voice service will enable an all-informed voice COI with a single person speaking and multiple listeners.			No
2.2.5.2.1.2.0-2	TPS-837	In the normal configuration, the ISS-S must provide voice service to enable the individual soldier to communicate vocally through the ISS-CS radio while all physical devices that are a part of the ISS-S are operational and worn by the User.	Demo	The Contractor must demonstrate that a soldier's voice is converted to audio using the ISS-CS radio. The demonstration must be performed in the normal configuration where all ISS-S devices are operational and worn by the User.	No
2.2.5.2.1.2.0-3	TPS-5478	In the simple configuration, the ISS-S must provide voice service to enable the individual soldier to communicate vocally through the ISS-CS radio while only the physical devices hosting the ISS-CS, the ISS-S Audio Display, and the ISS battery(ies) required to power those physical devices are operational and worn by the User while meeting the following requirements: <ul style="list-style-type: none"> • All mandatory requirements in section TPS-94 (Audio Display) • If a Wireless PTT is provided, all provided requirements in section TPS-5027 (Audio Display - Wireless PTT Switch) • All mandatory requirements in section TPS-247 (Communication - User Services - Voice) with the exception of the following: <ol style="list-style-type: none"> a) TPS-2638: Only 2 voice COIs must be programmed b) TPS-847: Only 2 voice COIs must be programmed 	Demo	The Contractor must demonstrate that a soldier's voice is converted to audio using the ISS-CS radio. The demonstration must be performed the simple configuration where only the physical devices hosting the ISS-CS, the ISS-S Audio Display and the ISS battery(ies) required to power those physical devices are operational and worn by the User. The demonstration must show that all TPS requirements identified in this requirement are met.	No
2.2.5.2.1.2.0-4	TPS-5477	In the simple configuration, the ISS-S must provide voice service to enable the individual soldier to communicate vocally through the ISS-CS radio while only the physical devices hosting the ISS-CS, the ISS-S Audio Display, and the ISS	Analysis	The Contractor must provide an analysis that proves that when using the simple configuration, the TPS requirements identified in this requirement are met. The analysis must include a normal	No

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		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) • 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) 		configuration versus simple configuration comparison using ISS-S architecture details that proves that if the TPS requirements identified in this requirement are met using the normal configuration they are also met when using the simple configuration.	
2.2.5.2.1.2.0-5	TPS-840	The ISS-CS voice service must be activated by a soldier pressing the ISS-S Audio Display's PTT switch, as defined in TPS-94.	Demo	The Contractor must demonstrate that each PTT switch provided by the vendor (e.g. wired, wireless, on the radio) activates the PTT service and allows the speaker to transmit voice to listening communications suites.	No
2.2.5.2.1.2.0-6	TPS-5461	The ISS-S must mutually exchange voice messages between ten (10) ISS-S within sixty (60) seconds from power-on of all ISS-S devices.	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. The analysis must prove that on average the	No

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				ten (10) ISS-S can exchange voice messages within sixty (60) seconds of powering-on all ISS-S devices. Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes.	
2.2.5.2.1.3	TPS-250	Voice Communities of Interest			
2.2.5.2.1.3.0-1	TPS-847	The ISS-CS must present and make available to the User five (5) or more programmed voice COIs, where the User can enable at least two (2) of the programmed voice COIs and assign them to available PTT switches and controls.	Demo	The Contractor must demonstrate that five (5) or more voice COIs can be programmed and are selectable for use by the communications suite operator and demonstrate the use of every programmed voice COI by concurrently enabling two (2) of the programmed voice COIs and assigning the enabled voice COIs to available PTT switch. Repeat the demonstration until all programmed voice COIs have been assigned to PTT switches and confirmed operational.	No
2.2.5.2.1.3.0-2	TPS-2641	The voice service should cause a speaker to time out when a voice transmission switch remains in the active position for longer than ninety (90) seconds on any voice COI or provide other mechanisms to allow remaining members of a voice COI to continue using the voice COI.	Test	The Contractor must successfully demonstrate that when a voice transmission switch is in the active position for longer than ninety (90) seconds that the speaker role is relinquished (i.e., PTT timeout) such that another communications suite can take on the speaker role. In the case of a full duplex system, the voice COI must be usable even when a single PTT switch within a group of communications suites is depressed for ninety (90) seconds or	No

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				longer.	
2.2.5.2.1.4	TPS-253	Voice Encoding			
2.2.5.2.1.4.0-1	TPS-2133	If voice codec other than STANAG 4591 is proposed, the base data stream should be less than or equal to sixteen (16) kilobits per second for each voice channel.	Contractor's Choice	The Contractor must provide evidence that the ISS-S voice codec base data stream is less than or equal to 16 kbps for each voice channel.	No
2.2.5.2.2	TPS-255	Data			
2.2.5.2.2.1	TPS-256	Data Exchange			
2.2.5.2.2.1.0-1	TPS-859	The ISS-S communications network must provide end-to-end data distribution between instances of the Battle Management System.	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network provides communications between multiple ISS-S nodes for the Battle Management System.	Yes
2.2.5.2.2.2	TPS-257	Data Types			
2.2.5.2.2.2.0-1	TPS-860	The ISS-S communications network must support the transmission of multiple data types as defined in this specification.	Demo	The Contractor must demonstrate that the ISS-S communications network provides support for multiple data types defined in the specification.	Yes
2.2.5.2.2.3	TPS-258	Delivery to Communities of Interest			
2.2.5.2.2.3.0-1	TPS-861	The ISS-S communications network must distribute data and voice to all network-reachable ISS-S nodes subscribed to a defined COI.	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network provides distribution of voice and data to network-reachable ISS-S nodes.	Yes
2.2.5.2.2.3.0-2	TPS-862	Data exchanges sent from an ISS-S to a Community of Interest must be distributed to all Community of Interest instances (one-to-many transfer).	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network provides data exchange only to COI subscribers and to all COI subscribers.	Yes
2.2.5.2.2.3.0-3	TPS-864	The ISS-S must permit users to select Communities of Interest for data exchange.	Contractor's Choice	The Contractor must provide evidence that the ISS-S data COIs can be selected by the user and that data COI memberships are changeable to include/exclude members.	Yes
2.2.5.2.2.4	TPS-259	Data Transfer Modes			
2.2.5.2.2.4.0-1	TPS-865	The ISS-CS must exchange Internet Protocol	Contractor's	If the ISS-CS and BMS functions are	No

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		packets with the BMS Computer, if the ISS-CS and BMS functions are hosted in different physical devices.	Choice	hosted in different physical devices, the Contractor must provide evidence that the ISS-S exchanges Internet Protocol packets with the BMS Computer. If the ISS-CS and BMS functions are hosted in the same physical device, no proof is required.	
2.2.5.2.2.5	TPS-263	Grade of Service			
2.2.5.2.2.5.1	TPS-5360	General			
2.2.5.2.2.5.1.0-1	TPS-876	The ISS-CS must provide resource reservation or prioritization mechanisms within the ISS communications network for low latency services (e.g., voice, Blue PA).	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. Analysis will examine the communications traffic profile to be used, the ISS-CS resource reservation or prioritization mechanisms, and provide the expected test results for low latency services. Test: The Contractor must prove through testing that when operated under a saturated data communications load (i.e. communications operating at or beyond full capacity), the low latency services (voice, Blue PA, and any other low-latency services) are passed between ISS-S nodes through the ISS-S communications network. The test results must be correlated with the analysis.	No
2.2.5.2.2.5.2	TPS-2138	Voice			
2.2.5.2.2.5.2.0-1	TPS-2139	The ISS-S voice service must provide end-to-end voice service between two ISS-CS nodes, with	Test	The Contractor must prove through testing that the ISS-S meets the	No

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		one (1) intervening ISS-CS relay node, having a maximum end-to-end one-way voice delay of less than four hundred (400) milliseconds.		requirement. Test to be done using at least three (3) ISS-S nodes.	
2.2.5.2.2.5.2.0-2	TPS-4068	The ISS-S voice service should provide end-to-end voice service between two ISS-CS nodes, with one (1) intervening ISS-CS relay nodes, having a maximum end-to-end one-way voice delay of less than two hundred (200) milliseconds.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least three (3) ISS-S nodes.	No
2.2.5.2.2.5.3	TPS-2142	Blue PA			
2.2.5.2.2.5.3.0-1	TPS-2143	The Blue PA service must have a maximum end-to-end one-way delay of less than four (4) seconds between ten (10) ISS-S nodes in the same Blue PA COI and operating within two hundred and fifty (250) metres in open and complex terrain under a network loading consistent with a section. NOTE: A position transmitted by any node will be received by the other nine (9) nodes within four (4) seconds.	Analysis - and - Test	<p>Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. Analysis must examine the communications traffic profile to be used, the ISS-CS behaviour and provide the expected test results for Blue PA service in both open and complex terrain. It is expected that scripted conditions would be used for reproducibility of complex terrain under lab conditions.</p> <p>Test: The Contractor must prove through testing that when operated under a saturated data communications load (i.e. communications operating at or beyond full capacity), Blue PA messages from a source are delivered to all destinations within the required time using the required range in open and complex terrain. The test results must be correlated with the analysis.</p> <p>For complex terrain, the Contractor in</p>	No

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				testing can use an attenuator model (distance) validated by Canada. The Contractor can also have a changing topology to simulate movement through terrain, where only some nodes can see every other node to ensure some relaying.	
2.2.5.2.2.5.3.0-2	TPS-2642	The Blue PA service must have a maximum end-to-end one-way delay of less than ten (10) seconds between thirty (30) ISS-S nodes in the same Blue PA COI and operating within a circle of one thousand (1000) metres diameter in open terrain under a network loading consistent with a platoon and its sections. NOTE: A position transmitted by any node will be received by the other twenty nine (29) nodes within ten (10) seconds.	Analysis - and - Test	Analysis: If the ISS-S configuration has not changed from P(Bid), no other analysis is required. Otherwise: The Contractor must provide a detailed analysis of the ISS-S Blue PA end-to-end one way delay to show how their ISS-S solution meets the requirement. Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least thirty (30) ISS-S nodes.	No
2.2.5.2.2.5.3.0-3	TPS-2643	The Blue PA service should have a maximum end-to-end one-way delay of less than fifteen (15) seconds between forty-five (45) ISS-S nodes in the same Blue PA COI and operating within a circle of two thousand (2000) metres diameter in open terrain under a network loading consistent with a platoon with company assets. NOTE: A position transmitted by any node will be received by the other forty-four (44) nodes within fifteen (15) seconds.	Analysis	Analysis: If the ISS-S configuration has not changed from P(Bid), no other analysis is required. Otherwise: The Contractor must provide a detailed analysis of the ISS-S Blue PA end-to-end one way delay to show how their ISS-S solution meets the requirement. The Contractor may use the results of previous Blue PA testing to prove	No

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				through analysis that the requirement can be met by their system.	
2.2.5.3	TPS-243	Communications Coverage			
2.2.5.3.0-1	TPS-808	The ISS-CS is expected to provide voice and data services to dismounted soldiers, sections, platoons, and company in suburban, urban, forested, jungle, caves, sewers, and desert environments.			No
2.2.5.3.1	TPS-812	Relay			
2.2.5.3.1.0-1	TPS-5189	Definition: relaying: The concept of relaying user data and possibly control information between ISS-CS mobile devices through one or more relay stations using allocated spectrum. The purpose of enabling relay is to enhance coverage, range, throughput, and capacity of the ISS-S communications network. The relaying function may include network routing.			
2.2.5.3.1.0-2	TPS-5190	Definition: relay link: An ISS-CS mobile device radio link between a pair of ISS-CS devices. Relayed traffic can be sent in either direction between devices.			
2.2.5.3.1.0-3	TPS-5191	Definition: relay path: Concatenation of k consecutive relay links ($k \geq 1$) between ISS-CS mobile devices.			
2.2.5.3.1.0-4	TPS-5192	Definition: relay traffic: Traffic traveling over a relay link.			
2.2.5.3.1.0-5	TPS-5193	Definition: relaying device: An ISS-CS mobile device that conforms to this specification and whose functions are 1) to relay user data and possibly control information between other stations, and 2) to execute processes that indirectly support mobile multi-hop relay.			
2.2.5.3.1.0-6	TPS-3908	A cluster of ISS-CSs forming an ISS-S communications network must have no single	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network	Yes

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		point of failure.		has no single point of failure.	
2.2.5.3.1.0-7	TPS-5161	Once configured, the ISS-CS should allow for any ISS-CS node to relay data services in response to individual soldier tactical movement without requiring human intervention.	Contractor's Choice	<p>The Contractor must provide evidence that the ISS-S communications network provides automatic reconfiguration of relays for data services to network-reachable ISS-S nodes. The Contractor must demonstrate that any random node (i.e. not pre-selected or pre-configured) implements relay functions when required by topology changes due to movement.</p> <p>The test procedure requirements defined in Appendix 10 - Miscellaneous Test Data and Test Procedure Requirements, Section 3 - Automatic Relay Test Procedure Requirements must be used as a baseline for the Contractor's verification proposal. The Contractor's verification proposal must be a scaled-up version (include more nodes) than what is described in Appendix 10.</p>	Yes
2.2.5.3.1.0-8	TPS-4079	Once configured, the ISS-CS should allow for any ISS-CS node to relay voice services in response to individual soldier tactical movement without requiring human intervention.	Contractor's Choice	<p>The Contractor must provide evidence that the ISS-S communications network provides automatic reconfiguration of relays for voice services to network-reachable ISS-S nodes. The Contractor must demonstrate that any random node (i.e. not pre-selected or pre-configured) implements relay functions when required by topology changes due to movement.</p> <p>The test procedure requirements defined in Appendix 10 - Miscellaneous Test</p>	Yes

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				Data and Test Procedure Requirements, Section 3 - Automatic Relay Test Procedure Requirements must be used as a baseline for the Contractor's verification proposal. The Contractor's verification proposal must be a scaled-up version (include more nodes) than what is described in Appendix 10.	
2.2.5.3.1.0-9	TPS-3909	When configured to do so, each ISS-CS must act as voice and data relays for other ISS-CSs in the network.	Demo	<p>The Contractor must demonstrate that both voice relay and data relay functions are present and that any given ISS-CS can function as per the requirement.</p> <p>The test procedure requirements defined in Appendix 10 - Miscellaneous Test Data and Test Procedure Requirements, Section 3 - Automatic Relay Test Procedure Requirements must be used as a baseline for the Contractor's verification proposal. The Contractor's verification proposal must be a scaled-up version (include more nodes) than what is described in Appendix 10.</p>	Yes
2.2.5.3.1.0-10	TPS-4253	The ISS-S communications network must provide data distribution up to a range of at least two thousand (2000) metres in all terrain configurations (i.e. open terrain to complex terrain) either through direct radio link communication or through the use of radio relays.	Analysis - and - Test	<p>Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation.</p> <p>Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least two (2) ISS-S nodes.</p>	Yes
2.2.5.3.1.0-11	TPS-3910	The ISS-S communications network should	Analysis -	Analysis:	Yes

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		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.	and - Test	The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using a number of ISS-S nodes to be defined by the Contractor.	
2.2.5.3.1.0-12	TPS-1620	The ISS-S communications network must relay voice communications a minimum of two (2) radio hops for Voice COI extension.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least three (3) ISS-S nodes.	Yes
2.2.5.3.1.0-13	TPS-2438	The ISS-S communications network should relay voice communications a minimum of four (4) radio hops.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes.	Yes
2.2.5.3.1.0-14	TPS-1621	The relay of any single service must not consume all available bandwidth in the relaying ISS-CS.	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes.	No
2.2.5.3.1.0-15	TPS-2120	The ISS-S communications network must switch between known relay points, without human intervention, in less than four (4) seconds, tested as per Volume 2, Annex CB, Appendix 10 - Miscellaneous Test Data and Test Procedure	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation.	No

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		Requirements, Section 2 - Relay Transfer Test Procedure Requirements.		Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test must be performed as per Volume 2, Annex CB, Appendix 10 - Miscellaneous Test Data and Test Procedure Requirements, Section 2 - Relay Transfer Test Procedure Requirements.	
2.2.5.3.1.0-16	TPS-4255	The ISS-S communications network should switch between known relay points, without human intervention, in less than two (2) seconds, tested as per Volume 2, Annex CB, Appendix 10 - Miscellaneous Test Data and Procedure Requirements, Section 2 - Relay Transfer Test Procedure Requirements.	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test must be performed as per Volume 2, Annex CB, Appendix 10 - Miscellaneous Test Data and Test Procedure Requirements, Section 2 - Relay Transfer Test Procedure Requirements.	No
2.2.5.3.1.0-17	TPS-816	The ISS-S communications network should configure relay points for data services, without human intervention, within fifteen (15) seconds of beaconing from a new, previously unknown, node.	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at	No

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				least five (5) ISS-S nodes.	
2.2.5.3.1.0-18	TPS-880	A minimum group of forty-five (45) ISS-CS must operate as a single ISS-S communications network for voice and data where all nodes are within 1 radio hop (i.e. no relay).	Analysis	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement.	No
2.2.5.3.1.0-19	TPS-1650	A minimum group of thirty (30) ISS-CS must operate as a single ISS-S communications network for voice and data where 66% of nodes are separated by two (2) radio hops (e.g., 3 sections separated by distance or terrain with relaying between sections).	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least thirty (30) ISS-S nodes.	Yes
2.2.5.3.1.0-20	TPS-1658	The ISS-S communications network must operate in open terrain at a range of two thousand (2000) metres between two ground-based ISS-CS devices using an intermediating ground-based ISS-CS relaying node.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least three (3) ISS-S nodes.	No
2.2.5.3.1.0-21	TPS-3911	An ISS-S communications network of 10 ISS-CSs must communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster two thousand (2000) metres in diameter and no ISS-S is more than one thousand (1000) metres from another ISS-S.	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes.	Yes
2.2.5.3.1.0-22	TPS-3913	An ISS-S communications network of 10 ISS-CSs should communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster six thousand (6000) metres in diameter and no ISS-S is more than two thousand (2000) metres from another ISS-S.	Analysis - and - Test	Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. Test: The Contractor must prove through	Yes

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				testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes.	
2.2.5.3.1.0-23	TPS-3914	An ISS-S communications network of ten (10) ISS-CSs must communicate voice and data with each other in an urban environment (as defined in Annex CE to Volume 2), where suites are deployed in a randomly distributed cluster five hundred (500) metres in diameter.	Analysis - and - Test	<p>Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. The urban environment must be as per the glossary definition of urban environment found in Annex CE to Volume 2.</p> <p>Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes. The urban environment must be as per the glossary definition of urban environment found in Annex CE to Volume 2.</p>	Yes
2.2.5.3.1.0-24	TPS-3915	An ISS-S communications network of ten (10) ISS-CSs should communicate voice and data with each other in an urban environment (as defined in Annex CE to Volume 2), where ISS-Ss are deployed in a randomly distributed cluster two thousand (2000) metres in diameter.	Analysis - and - Test	<p>Analysis: The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation. The urban environment must be as per the glossary definition of urban environment found in Annex CE to Volume 2.</p> <p>Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes. The urban environment must be as per the glossary</p>	Yes

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				definition of urban environment found in Annex CE to Volume 2.	
2.2.5.3.2	TPS-817	Range Extension			
2.2.5.3.2.0-1	TPS-819	The ISS-CS should be configurable to prevent any single communications node from being the preferred relay for more than forty (40) nodes.	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network meets the requirement.	No
2.2.5.4	TPS-265	Network			
2.2.5.4.1	TPS-881	Data Network Convergence			
2.2.5.4.1.0-1	TPS-883	When routing is used between ten (10) ISS-CS nodes, the ISS-CS must choose an alternate data network path within ten (10) seconds of an established path being broken.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least ten (10) ISS-S nodes.	No
2.2.5.4.1.0-2	TPS-5429	When routing is used, the ISS-CS routing update frequency parameter must be configurable.	Demo	The Contractor must demonstrate that the ISS-S communications network provides a configurable routing update frequency parameter as defined in the specification.	No
2.2.5.4.2	TPS-269	System Access Time			
2.2.5.4.2.0-1	TPS-884	The ISS-CS must provide voice service within two hundred and fifty (250) milliseconds following a push-to-talk action by the User.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least five (5) ISS-S nodes.	No
2.2.5.4.3	TPS-270	Addressing			
2.2.5.4.3.0-1	TPS-826	The ISS-CS must integrate with Internet Protocol version 4 addressing (IETF RFC 791, 1918 and 4632).	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network provides IPv4 addressing as defined in the requirement.	No
2.2.5.4.3.0-2	TPS-2150	The ISS-S must provide mechanisms to prevent assignment of duplicate Internet Protocol addresses.	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network prevents assignment of duplicate IP addresses in ISS-S nodes.	No
2.2.5.4.3.0-3	TPS-2151	The ISS-CS should detect duplicate Internet Protocol addresses and reconfigure a new non-duplicate Internet Protocol address to any	Contractor's Choice	The Contractor must provide evidence that the ISS-S communications network detects duplicate IP addresses in	No

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		conflicting nodes without human intervention.		network-reachable ISS-S nodes and provides automatic reconfiguration to ISS-S nodes with conflicting addresses.	
2.2.5.4.3.0-4	TPS-825	The ISS-S must provide unique addresses for a fleet of 16,384 ISS-S kits, including all devices in the ISS-S.	Analysis	The Contractor must provide an analysis of how their ISS-S solution meets the requirement. The analysis must provide expected test results for correlation.	No
2.2.5.5	TPS-271	Radio			
2.2.5.5.1	TPS-3896	Transmitted Power			
2.2.5.5.1.0-1	TPS-5163	The ISS-CS must have a primary transmitted output power mode that can support all mandatory requirements found in the following sections: <ul style="list-style-type: none"> • TPS-97 - Communication; and • TPS-312 - Electromagnetic Environmental Effects (E3) 	Contractor's Choice	The Contractor must provide evidence that the ISS-CS is used to support all of the TPS functional requirements. The Contractor must use the primary transmitted output power mode identified at bid time to meet all TPS Communications mandatory requirements defined in TPS-97 and the mandatory Electromagnetic Environmental Effects (E3) requirements defined in TPS-312.	Yes
2.2.5.5.1.0-2	TPS-4069	The ISS-CS should provide selectable or adaptive radio transmitted output power levels.	Test	The Contractor must prove through testing that the ISS-S meets the requirement.	No
2.2.5.5.1.0-3	TPS-4070	The ISS-CS should provide a lower transmitted output power mode to reduce power by 6 dB or more.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to measure power differential between power modes.	No
2.2.5.5.2	TPS-272	Transmission range			
2.2.5.5.2.0-1	TPS-890	The ISS-CS must operate at a range of five hundred (500) metres between two ISS-CS devices in an urban canyon within an urban environment as defined in Annex CE to Volume 2, where buildings are located on both sides of the canyon.	Analysis - and - Test	The Contractor must prove through testing that the ISS-S meets the requirement. The urban environment must be as per the glossary definition of urban environment found in Annex CE to Volume 2. The test must be performed in	Yes

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				an urban canyon where a 500m unobstructed path is available the two (2) ISS-S nodes. The urban canyon must include buildings on both sides of the canyon.	
2.2.5.5.2.0-2	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.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. The test to be done using two (2) ISS-S nodes.	No
2.2.5.5.2.0-3	TPS-1653	The ISS-CS should provide point-to-point communications between two unobstructed (open space, line of sight) dismounted soldiers separated by a distance of one thousand (1000) metres while sustaining both voice and data at more than eighty (80) kilobits per second of internet protocol (IP) data throughput after error correction.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at two (2) ISS-S nodes.	No
2.2.5.5.2.0-4	TPS-1655	The ISS-CS must sustain all communications (i.e. sufficient link margin) to a receiving ISS-CS through an obstacle producing an attenuation of 15 dB at a range of three hundred (300) metres from the transmitter.	Analysis - and - Test	<p>Analysis: The Contractor must provide a link budget analysis proving that their implementation meets the requirement.</p> <p>Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least two (2) ISS-S nodes.</p> <p>The test must include the highest and lowest frequency channel provided by the Contractor within the Primary Operating Band required to comply</p>	No

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Para	TPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
				with TPS-893 and TPS-5162.	
2.2.5.5.2.0-5	TPS-4256	The ISS-CS must sustain all communications to a receiving ISS-CS through 2 obstacles producing an attenuation of 8 dB each where the 2 obstacles are separated by five (5) metres and the ISS-CS devices are separated by five point five (5.5) metres.	Analysis - and - Test	<p>Analysis: The Contractor must provide a link budget analysis proving that their implementation meets the requirement.</p> <p>Test: The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done using at least two (2) ISS-S nodes.</p> <p>The test must include the highest and lowest frequency channel provided by the Contractor within the Primary Operating Band required to comply with TPS-893 and TPS-5162.</p>	No
2.2.5.5.2.0-6	TPS-1657	The ISS-CS must meet all range requirements (i.e. no reduced range performance) when worn by a standing soldier in full combat load, as per the conceptual loads found in Volume 2, Annex CB, Appendix 9 - MLCS Conceptual Load.	Contractor's Choice	The Contractor must provide evidence that the range requirements are met in their implementation while the soldier is wearing a full combat load as described in the requirement.	No
2.2.5.5.3	TPS-275	Frequencies / Frequency Planning			
2.2.5.5.3.0-1	TPS-5196	The ISS-CS is expected to operate in a single operating frequency band at any point in time.			
2.2.5.5.3.0-2	TPS-5162	The ISS-CS must meet all TPS performance requirements within the mandatory 225-450 MHz UHF band (i.e. Primary Operating Band) using frequency channels having a fixed channel size.	Contractor's Choice	The Contractor must provide evidence that all TPS performance requirements are met in their implementation as described in the requirement.	No
2.2.5.5.3.0-3	TPS-893	The ISS-CS must provide a minimum of twenty (20) orthogonal frequency channels within the 225 - 450 MHz band while meeting the user service performance requirements described in section	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done in a lab environment using at least six (6) ISS-S	No

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		TPS-246.		nodes to measure the channel characteristics including effects from adjacent channels.	
2.2.5.5.3.0-4	TPS-4071	The ISS-CS should provide a minimum of forty (40) orthogonal frequency channels within the 225 - 450 MHz band while meeting the user service performance requirements described in section TPS-246.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done in a lab environment using at least six (6) ISS-S nodes to measure the channel characteristics including effects from adjacent channels.	No
2.2.5.5.3.0-5	TPS-5500	The ISS-CS should provide a minimum of five (5) orthogonal frequency channels within the 420 - 450 MHz band while meeting the user service performance requirements described in section TPS-246.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. Test to be done in a lab environment using at least six (6) ISS-S nodes to measure the channel characteristics including effects from adjacent channels.	No
2.2.5.5.3.0-6	TPS-894	In addition to the 225 - 450 MHz band, the ISS-CS should operate in the 902 - 928 MHz frequency band (i.e. Secondary Operating Band) without having to change the ISS-CS hardware, while providing the following characteristics: <ul style="list-style-type: none"> • provide a minimum of ten (10) orthogonal frequency channels; • provide communications capacity for concurrent reception of two (2) independent voice COI and for transmission on either voice COI when selected; • operate within RADHAZ limits defined in this specification; • support a minimum of five (5) concurrent, non-overlapping voice COIs located within a circular area with two hundred (200) metre diameter for dismounted close combat operations; • distribute data and voice to all network-reachable ISS-S nodes subscribed to a defined COI; 	Test	The Contractor must prove through testing that the ISS-S meets all claimed requirement functions. Test to be done using at least six (6) ISS-S nodes to measure the channel characteristics including effects from adjacent channels. Tests should be conducted concurrently with other similar tests conducted in the Primary Operating Band.	No

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		<ul style="list-style-type: none"> • provide single hop (i.e. direct path) or multi-hop (i.e. relay path) capability for data distribution to extend the network range to at least two thousand (2000) metres in open terrain with data throughput equivalent or greater than data throughput measured in the Primary Operating Band; • using a network of ten (10) ISS-CS, communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster two thousand (2000) metres in diameter and no ISS-S is more than one thousand (1000) metres from another ISS-S; and • using a network of ten (10) ISS-CS, communicate voice and data with each other in an urban environment (as defined in Annex CE to Volume 2) where ISS-Ss are deployed in a randomly distributed cluster five hundred (500) metres in diameter. 			
2.2.5.5.3.0-7	TPS-5199	<p>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:</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 	Test	The Contractor must prove through testing that the ISS-S meets all claimed requirement functions. Test to be done using at least six (6) ISS-S nodes to measure the channel characteristics including effects from adjacent channels. Tests should be conducted concurrently with other similar tests conducted in the Primary Operating Band.	No

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		ISS-S nodes subscribed to a defined COI; <ul style="list-style-type: none"> • provide single hop (i.e. direct path) or multi-hop (i.e. relay path) capability for data distribution to extend the network range to at least two thousand (2000) metres in open terrain with data throughput equivalent or greater than data throughput measured in the Primary Operating Band; • using a network of ten (10) ISS-CS, communicate voice and data with each other where suites are separated in open terrain as a randomly distributed cluster two thousand (2000) metres in diameter and no ISS-S is more than one thousand (1000) metres from another ISS-S; and • using a network of ten (10) ISS-CS, communicate voice and data with each other in an urban environment (as defined in Annex CE to Volume 2) where ISS-Ss are deployed in a randomly distributed cluster five hundred (500) metres in diameter. 			
2.2.5.5.3.0-8	TPS-5201	In addition to the 225 - 450 MHz band, the ISS-CS should operate in the 2360 - 2473 MHz frequency band (i.e. Secondary Operating Band) without having to change the ISS-CS hardware, while providing the following characteristics: <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; 	Test	The Contractor must prove through testing that the ISS-S meets all claimed requirement functions. Test to be done using at least six (6) ISS-S nodes to measure the channel characteristics including effects from adjacent channels. Tests should be conducted concurrently with other similar tests conducted in the Primary Operating Band.	No

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Para	TPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
		<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. 			
2.2.5.5.4	TPS-3923	Spectrum Access Flexibility			
2.2.5.5.4.0-1	TPS-3924	Where spectrum availability is limited within a frequency band, the ISS-CS should have the capability to be programmed to operate with a reduced occupied bandwidth while providing a reduced level of service for five (5) or more voice COIs, one Blue PA COI, and ten (10) kilobits per second on one Data COI (point-to-point).	Analysis	<p>If the ISS-S configuration has not changed from P(Bid), no other analysis is required.</p> <p>Otherwise: The Contractor must provide a detailed description of the ISS-S behaviour when programmed to operate with a reduced occupied bandwidth. The Contractor must provide an analysis of how their ISS-S solution meets the requirement.</p>	No
2.2.5.5.4.0-2	TPS-5384	The ISS-CS should permit an ISS-S User to change between Primary Operating Band and Secondary Operating Bands within sixty (60)	Demo	<p>Demonstration The Contractor must demonstrate that the ISS-CS can switch between Primary</p>	No

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		seconds and without requiring special devices.		Operating Band and Secondary Operating Bands as required. Demonstration to be done using at least two (2) ISS-S nodes.	
2.2.5.5.4.1	TPS-4073	Occupied Bandwidth			
2.2.5.5.4.1.0-1	TPS-4075	The ISS-CS maximum occupied bandwidth (as defined in the Glossary in Volume 2, Annex CE) in the 225 - 450 MHz frequency band must be no more than 5 MHz with the following characteristics: - At +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) must be at 20 dB below peak power or less; and - At +/- 5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) must be at 60 dB below peak power or less.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. The test measurement techniques must be based on using 100 kHz resolution bandwidth (RBW) and 10 kHz video bandwidth (VBW) for making measurements both inside and outside the containment bandwidth.	No
2.2.5.5.4.1.0-2	TPS-5484	The ISS-CS maximum occupied bandwidth (as defined in the Glossary in Volume 2, Annex CE) the in the 225 - 450 MHz frequency band should be no more than 5 MHz with the following characteristics: - At +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 40 dB below peak power or less; and - At +/- 3.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 60 dB below peak power or less.	Test	The Contractor must prove through testing that the ISS-S meets the requirement. The test measurement techniques must be based on using 100 kHz resolution bandwidth (RBW) and 10 kHz video bandwidth (VBW) for making measurements both inside and outside the containment bandwidth.	No
2.2.5.5.4.1.0-3	TPS-4252	The ISS-CS maximum occupied bandwidth (as defined in the Glossary in Volume 2, Annex CE) in the 225 - 450 MHz frequency band should be no more than 2.5 MHz with the following characteristics:	Test	The Contractor must prove through testing that the ISS-S meets the requirement. The test measurement techniques must be based on using 100 kHz resolution bandwidth (RBW) and 10	No

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		<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. 		kHz video bandwidth (VBW) for making measurements both inside and outside the containment bandwidth.	
2.2.5.5.4.1.0-4	TPS-3926	<p>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:</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. 	Test	The Contractor must prove through testing that the ISS-S meets the requirement. The test measurement techniques must be based on using 100 kHz resolution bandwidth (RBW) and 10 kHz video bandwidth (VBW) for making measurements both inside and outside the containment bandwidth.	No
2.2.5.5.4.1.0-5	TPS-3927	<p>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:</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. 	Test	The Contractor must prove through testing that the ISS-S meets the requirement. The test measurement techniques must be based on using 100 kHz resolution bandwidth (RBW) and 10 kHz video bandwidth (VBW) for making measurements both inside and outside the containment bandwidth.	No
2.2.5.5.4.1.0-6	TPS-3928	The ISS-CS maximum occupied bandwidth (as	Test	The Contractor must prove through	No

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		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: - At +/- 2.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 20 dB below peak power or less; and - At +/- 3.5 MHz from the center frequency, the signal (including spurious and out-of-band emissions) should be at 60 dB below peak power or less.		testing that the ISS-S meets the requirement. The test measurement techniques must be based on using 100 kHz resolution bandwidth (RBW) and 10 kHz video bandwidth (VBW) for making measurements both inside and outside the containment bandwidth.	
2.2.5.5.5	TPS-278	Configuration Persistence			
2.2.5.5.5.0-1	TPS-879	The ISS-CS must store its radio and network configuration so that its devices can be powered off and restarted without requiring a new configuration.	Demo	The Contractor must demonstrate that radio and network configuration storage function is present and functions during a power cycle event as per the requirement.	No
2.2.5.5.5.0-2	TPS-1649	The ISS-CS must retain its radio and network configuration for a period of at least two (2) minutes or more upon removal of ISS Batteries.	Test	The Contractor must prove through testing that the ISS-S meets the requirement.	No
2.2.5.5.6	TPS-280	User Configurable Functions			
2.2.5.5.6.0-1	TPS-4258	The ISS-CS must provide a volume control for adjusting audio output levels presented to the User.	Demo	The Contractor must demonstrate that volume control function is present and adjusts audio output levels presented to the User as per the requirement.	No
2.2.5.5.7	TPS-281	Radio Device Interfaces			
2.2.5.5.7.0-1	TPS-4259	The ISS-CS must support one or more of the following interfaces: • IEEE 802.3 - Ethernet; • Universal Serial Bus - serial communications.	Contractor's Choice	The Contractor must provide evidence that ISS-CS interface requirements are met in their implementation as described in the requirement.	No
2.2.5.5.7.0-2	TPS-2646	The ISS-CS must provide an interface to make voice inputs and outputs available to the ISS-S Audio Display. The ISS-S Audio Display is defined	Inspection	Contractor's qualification item must include a voice interface for use with an external audio display.	No

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		in TPS-94.			
2.2.5.5.8	TPS-282	Radio Antennas			
2.2.5.5.8.0-1	TPS-903	The ISS-CS must include a removable antenna.	Analysis	The Contractor must prove that a physical antenna is present. The Contractor must also provide a description of the antenna's physical characteristics including dimension, geometry, gain, connector type and the impedance presented by the antenna across the radio's communication band.	No
2.2.5.5.8.0-2	TPS-2167	The ISS-CS radio antenna must be interchangeable without requiring special tools.	Demo	Contractor must demonstrate that the original antenna can be removed and replaced with a second antenna. No tools are to be used. Standard issue tools for all Army soldiers may be used with Canada's approval.	No
2.2.5.5.9	TPS-906	Software-Defined Radio			
2.2.5.5.9.0-1	TPS-5202	The ISS-CS is expected to operate using a single radio waveform at run-time.			
2.2.5.5.9.0-2	TPS-907	The ISS-CS must use a software-defined radio that permits functional upgrades and technology insertion of the radio without modifying hardware or interfaces to the radio and use existing ISS-CS ports to perform the upgrades.	Analysis	The Contractor must provide a detailed description of how an alternate firmware can be applied to the ISS-CS which permits upgrades of single functions and the insertion of new technology (e.g. new waveforms). The analysis will identify available resources (volatile memory, CPU, interfaces, etc) which are potentially usable to affect the upgrades or technology insertion. The analysis must show that the upgrade is performed using existing ISS-CS ports and can be performed without sending the ISS-CS radio to a Contractor site.	No
2.2.5.5.9.0-3	TPS-832	The ISS-CS must permit replacement, in whole or	Contractor's	If the ISS-S configuration has not	No

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		part, of the entire physical layer software, including layer elements, for enhanced performance without changing the physical device and associated interfaces.	Choice	changed from P(Bid), no other analysis is required. Otherwise: The Contractor must provide evidence that physical layer software requirements are met in their implementation as described in the requirement.	
2.2.5.5.9.0-4	TPS-4260	The ISS-CS must permit replacement, in whole or part, of the entire media access control layer software, including layer elements, for enhanced performance without changing the physical device and associated interfaces.	Contractor's Choice	If the ISS-S configuration has not changed from P(Bid), no other analysis is required. Otherwise: The Contractor must provide evidence that media access control layer software requirements are met in their implementation as described in the requirement.	No
2.2.5.5.10	TPS-277	Codec			
2.2.5.5.10.0-1	TPS-896	The ISS-CS should permit the replacement of radio voice codec without changing radio hardware and interfaces to the radio.	Contractor's Choice	The Contractor must provide evidence that replacement requirements are met in their implementation as described in the requirement. The Contractor must provide evidence that an alternate codec can function on the ISS-CS without hardware or interface changes.	No
2.2.6	TPS-98	Power and Data Infrastructure			
2.2.6.1	TPS-4446	General			
2.2.6.1.0-1	TPS-5470	The ISS-S is to be integrated with certain GFE. It is expected that the ISS-S provides data connectivity to the electronic GFE that are referenced in this specification. But the electronic GFE is expected to operate using its own power sources, hence the ISS-S is not expected to			

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		provide power to the electronic GFE.			
2.2.6.1.0-2	TPS-4509	The ISS-S must complete eight (8) hours of continuous operation without recharge or replacement of any ISS Battery, where the eight (8) hours of operation are as per Section 3.1 Battlefield Day (BD) Profile (dividing all time for each task by three (3)) of Volume 2, Annex CB, Appendix 3 Mission Profile and Operation Mode Summary.	Test	The Contractor must perform a power consumption test and provide a test report and a results analysis as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements. The test report and analysis must prove that the ISS-S can complete eight (8) hours of continuous operation without recharge or replacement of any ISS Battery as per the requirement.	No
2.2.6.1.0-3	TPS-4510	The ISS-S should complete 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.	Test	The Contractor must perform a power consumption test and provide a test report and a results analysis as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements. The test report and analysis must prove that the ISS-S can complete more than eight (8) hours of continuous operation without recharge or replacement of any ISS Battery as per the requirement.	No
2.2.6.2	TPS-4500	Power Sources			
2.2.6.2.1	TPS-5443	ISS Batteries			
2.2.6.2.1.0-1	TPS-5444	ISS Batteries must be provided with the ISS-S, where ISS Batteries includes the ISS Rechargeable Batteries, the ISS Non-Rechargeable Batteries and, if provided as part of the ISS-S, the ISS Battery Loading / Storage Devices.	Inspection	The Contractor must show the ISS Batteries, including the ISS Rechargeable Batteries, the ISS Non-Rechargeable Batteries and, if provided, the ISS Battery Loading / Storage Devices.	No
2.2.6.2.1.0-2	TPS-4449	The ISS-S must operate using the ISS Rechargeable Batteries and using the ISS Non-Rechargeable Batteries.	Contractor's Choice	The Contractor must prove that the ISS-S can operate using the ISS Rechargeable Batteries and the ISS	No

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				Non-Rechargeable Batteries.	
2.2.6.2.1.0-3	TPS-5208	The ISS Non-Rechargeable Batteries must be manufactured and available from at least two different, independent vendors.	Contractor's Choice	The Contractor must provide the part number for all ISS Non-Rechargeable Batteries that are required for their ISS-S to function that were not part of the bid ISS-S, and prove that those batteries are manufactured by at least two independent companies by providing name, address and point of contact of each companies. Canada reserves the right to verify with the companies. These batteries must be the same ones that are used throughout system verification, including for TPS-3919, TPS-4509 and TPS-4510.	No
2.2.6.2.1.0-4	TPS-5173	The ISS-S should require as few ISS Battery types as possible.	Contractor's Choice	If the types of batteries used on the ISS-S have not changed from P(Bid), no other verification is required. Otherwise: The Contractor must provide a count of the number of different battery types that are required to operate the ISS-S. The count must be provided within the test report and analysis performed as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements.	No
2.2.6.2.1.0-5	TPS-5209	The ISS-S User must not require any tools to replace ISS Batteries.	Contractor's Choice	The Contractor must prove that the ISS Batteries can be changed without the use of tools.	No
2.2.6.2.1.0-6	TPS-5179	The ISS Batteries must be replaceable by the ISS-S User while meeting the following performance parameters:	Demo	The Contractor must replace all ISS Batteries and demonstrate that: 1) The ISS-S does not lose any data	No

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		- Replace the ISS Batteries without the loss of data on any ISS-S device; and - Replace the ISS Batteries and the ISS-S is fully operational within 30 seconds of replacing the ISS Batteries.		when replacing the ISS Batteries; and 2) The ISS-S is fully operational within 30 seconds of replacing the ISS Batteries.	
2.2.6.2.1.0-7	TPS-5445	The ISS Rechargeable Batteries must be chargeable using the Battery Charger Set.	Demo	The Contractor must demonstrate that the ISS Rechargeable Batteries can be charged using the Battery Charger Set.	No
2.2.6.2.1.0-8	TPS-4511	After 200 charge/discharge cycles, the ISS Rechargeable Batteries must store a charge of 80% of their rated capacity in amp-Hr.	Test	The Contractor must provide a test report that proves that the ISS Rechargeable Batteries retain 80% of their capacity after 200 recharge cycles. The following conditions are assumed for this test: • Temperature: 25° ± 10°C • Relative humidity: 20 to 80 percent • Atmospheric pressure: Site pressure	No
2.2.6.2.2	TPS-5446	ISS-ES Internal Batteries			
2.2.6.2.2.0-1	TPS-5447	If ISS-ES Internal Batteries are provided, the ISS-ES Internal Batteries must be included as part of the ISS-ES.	Contractor's Choice	The Contractor must describe their ISS-S power architecture, including where the ISS-ES Internal Batteries are located.	No
2.2.6.2.2.0-2	TPS-5448	If ISS-ES Internal Batteries are provided, the ISS-ES Internal Batteries must be rechargeable.	Analysis	The Contractor must describe their ISS-S power architecture, including where the ISS-ES Internal Batteries are located.	No
2.2.6.2.2.0-3	TPS-5449	If ISS-ES Internal Batteries are provided, the ISS-ES Internal Batteries must be charged using the ISS Batteries without having to remove the ISS-ES Internal Batteries from their operational location, without having to remove the ISS Batteries from their operational location, and without any User-impact on the ISS-ES operation.	Demo	If ISS-ES Internal Batteries are provided as part of the ISS-ES, the Contractor must demonstrate that the ISS-ES Internal Batteries get charged using the ISS Batteries while the User is wearing and operating the ISS-S. If ISS-ES Internal Batteries are not	No

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				provided, the Contractor does not need to perform a demonstration.	
2.2.6.2.2.0-4	TPS-5451	If ISS-ES Internal Batteries are provided, the ISS-ES Internal Batteries must store a charge of 80% of their rated capacity in amp-Hr after 200 charge/discharge cycles.	Test	If ISS-ES Internal Batteries are provided as part of the ISS-ES, the Contractor must provide a test report that proves that the ISS-ES Internal Batteries can retain 80% of their capacity after 200 recharge cycles. The following conditions are assumed for this test: <ul style="list-style-type: none"> • Temperature: 25° ± 10°C • Relative humidity: 20 to 80 percent • Atmospheric pressure: Site pressure If ISS-ES Internal Batteries are not provided, the Contractor does not need to provide any proof.	No
2.2.6.2.3	TPS-367	Power Monitoring			
2.2.6.2.3.0-1	TPS-5452	The ISS Rechargeable Batteries, excluding the Wireless PTT batteries, must include a State of Charge indication on the battery that indicates the ISS Rechargeable Battery's energy level, with the following minimum characteristics: <ul style="list-style-type: none"> • Indicate when the battery energy level is low; • Indicate when the battery energy level is between low and high; and • Indicate when the battery energy level is high. 	Test	The Contractor must provide a test report that proves that the State of Charge indicator for the ISS Rechargeable Batteries provides an indication to the User when the battery energy level is low, the battery energy level is between low and high, and the battery energy level is high. The test must prove that the energy level indications are representative of the description provided at bid time.	No
2.2.6.2.3.0-2	TPS-5453	The ISS Non-Rechargeable Batteries, excluding the Wireless PTT batteries, should include a State of Charge indication on the battery that indicates the ISS Non-Rechargeable Battery's energy level, with the following minimum characteristics: <ul style="list-style-type: none"> • Indicate when the battery energy level is low; • Indicate when the battery energy level is between low 	Test	The Contractor must provide a test report that proves that the State of Charge indicator for the ISS Non-Rechargeable Batteries provides an indication to the User when the battery energy level is low, the battery energy level is between low and high, and the	No

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		and high; and • Indicate when the battery energy level is high.		battery energy level is high. The test must prove that the energy level indications are representative of the description provided at bid time.	
2.2.6.2.3.0-3	TPS-1732	For every connected ISS Battery, excluding the Wireless PTT batteries, the ISS-S Tactical User Interface must allow the User to see the State of Charge of the connected ISS Battery, indicating the energy level of every connected ISS Battery, with the following minimum characteristics: • Indicate when the battery energy level is low, in addition to generating an Advisory signal as described in TPS-5482; • Indicate when the battery energy level is between low and high; and • Indicate when the battery energy level is high.	Test	The Contractor must provide a test report that proves that the Tactical User Interface provides a State of Charge indication to the User when the ISS Batteries energy level is low, the ISS Batteries energy level is between low and high, and the ISS Batteries energy level is high. The low energy level indication must also include an Advisory. The test must prove that the energy level indications are representative of the description provided at bid time.	No
2.2.6.2.3.0-4	TPS-5454	If ISS-ES Internal Batteries are provided, the User must be able to know the State of Charge of every ISS-ES Internal Battery, indicating the energy level of every ISS-ES Internal Battery, with the following minimum characteristics: • Indicate when the battery energy level is low; • Indicate when the battery energy level is between low and high; and • Indicate when the battery energy level is high.	Test	If ISS-ES Internal Batteries are provided as part of the ISS-ES, the Contractor must provide a test report that proves that the State of Charge indicator for the ISS-ES Internal Battery provides an indication to the User when the battery energy level is low, the battery energy level is between low and high, and the battery energy level is high. The test must prove that the energy level indications are representative of the description provided at bid time. If ISS-ES Internal Batteries are not provided, the Contractor does not need to provide any proof.	No
2.2.6.3	TPS-5455	Battery Charger Set			
2.2.6.3.0-1	TPS-5456	A Battery Charger Set must be provided to charge the ISS Rechargeable Batteries.	Contractor's Choice	The Contractor must prove that the Battery Charger Set can charge the ISS	No

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				Rechargeable Batteries.	
2.2.6.3.0-2	TPS-5493	The Battery Charger Set must charge an ISS Rechargeable Battery Set within eight (8) hours from a fully discharge condition to a fully charge condition.	Contractor's Choice	The Contractor must prove that the Battery Charger Set can charge a complete ISS Rechargeable Batteries Set in eight (8) hours. The number of ISS Rechargeable Batteries to charge must be as per Volume 2, Annex CB, Appendix 11 Power Consumption Test Procedure Requirements.	No
2.2.6.3.0-3	TPS-5457	The Battery Charger Set must accept and use the following power inputs to charge the ISS rechargeable batteries: - Alternating current (AC): 100V to 240V, 50Hz to 60Hz; and - Direct current (DC): 28VDC Nominal.	Contractor's Choice	The Contractor must prove that the Battery Charger Set supports the power inputs specified in the requirement.	No
2.2.6.3.0-4	TPS-5458	The Battery Charger Set AC input used to charge the ISS rechargeable batteries must by default include a NEMA 5-15P connector that fits in standard Canadian wall sockets.	Demo	The Contractor must demonstrate that the Battery Charger Set AC input includes and uses a NEMA 5-15P connector that fits in standard Canadian wall sockets.	No
2.2.6.3.0-5	TPS-5459	When the Battery Charger Set is used to charge the ISS Rechargeable Batteries, the User must be able to see the State of Charge of every ISS Rechargeable Battery, indicating the energy level of every ISS Rechargeable Battery, with the following minimum characteristics: - Indicate when the battery energy level is low; and - Indicate when the battery energy level is high.	Test	The Contractor must provide a test report that proves that when the ISS Rechargeable Batteries are being charged, the User can see the State of Charge of the batteries being charged. The test report must also prove that the State of Charge indicator provides an indication to the User when the battery energy level is low and when the battery energy level is high.	No
2.2.6.4	TPS-4748	Connectors and Wired Connectivity			
2.2.6.4.0-1	TPS-5337	One common set of ISS-S Connectors and Wired Connectivity Materiel (including all cables and wires) must support all the conceptual loads as	Contractor's Choice	The Contractor must prove that their ISS-S Connectors and Wired Connectivity solution can accommodate	No

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		defined in Volume 2, Annex CB, Appendix 9 - MLCS Conceptual Load while meeting all ISS-S requirements.		all the conceptual loads with on common set if ISS-S Connectors and Wired Connectivity.	
2.2.6.4.0-2	TPS-5428	The ISS-S must not include any radio frequency connectivity between ISS-S physical devices except for the Wireless PTT Switch defined in TPS-5027, if provided.	Contractor's Choice	The Contractor must prove that their ISS-S does not use any radio frequency connectivity between ISS-S physical devices except for the Wireless PTT Switch defined in TPS-5027, if provided.	No
2.2.6.4.0-3	TPS-5176	The ISS-S User must not require any tools to mate and un-mate ISS-S connectors.	Demo	The Contractor must demonstrate that each ISS-S connector can be mated and unmated while without using tools.	No
2.2.6.4.0-4	TPS-4754	The ISS-S connectors, excluding the ISS Non-Rechargeable Battery connector located on the battery, must have a lifetime of at least 2,000 mating cycles without requiring any maintenance.	Test	The Contractor must provide a test report proving that the connector types used on the ISS-S still function after 2,000 mating cycles. Test report can exclude the mating cycles for the ISS Non-Rechargeable Batteries.	No
2.2.6.4.0-5	TPS-4755	The ISS-S connectors, excluding the ISS Non-Rechargeable Battery connector located on the battery, should have a lifetime of more than 2,000 mating cycles without requiring maintenance.	Test	The Contractor must provide a test report proving that the connector types used on the ISS-S Batteries still function after having been mated and unmated the claimed number of mating cycles. Test report can exclude the mating cycles for the ISS Non-Rechargeable Batteries.	No
2.2.6.4.0-6	TPS-5177	The ISS-S must provide protection against connecting devices incorrectly.	Contractor's Choice	The Contractor must prove that when performing connector mating and un-mating operations, it is not possible to cause any physical damage to the ISS-S when: <ul style="list-style-type: none"> • Attempting to connect an ISS-S connector to every other ISS-S connector; and • Attempting to connect an ISS-S connector to every other ISS-S 	No

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				connector at an angle where mating is impossible.	
2.2.6.4.0-7	TPS-5178	The ISS-S computer must continue to operate within normal performance limits when a physical device, excluding the ISS Batteries and ISS-ES Internal Batteries, is being connected to it or being disconnected from it.	Demo	The Contractor must demonstrate that when any physical device is disconnected from the computer, applications that do not require that the physical device continue to function within normal performance limits and applications that require that physical device function with some level of degradation without affecting any other application. The Contractor must demonstrate that when any physical device is connected to the computer, all applications continue to function within normal performance limits. ISS Batteries and ISS-ES Internal Batteries are excluded from this requirement.	No
2.2.6.4.0-8	TPS-5382	The ISS-S must include a removable protective cover for every connector that is part of an ISS-S physical device, where the protective cover is attached to the ISS-S physical device.	Inspection	The Contractor must show that every ISS-S connector includes a removable protective cover and that all the protective covers are attached to the ISS-S.	No
2.2.6.5	TPS-4801	External interfaces			
2.2.6.5.0-1	TPS-4909	The ISS-S should include a general purpose USB interface, which is a different physical port than the USB interface referenced in requirement TPS-5419 and not used during ISS-S operation.	Demo	The Contractor must demonstrate that the USB interface can be used to connect and exchange information with a USB compatible device.	No
2.2.6.5.0-2	TPS-4911	The ISS-S should include a general purpose Ethernet interface, which is a different physical port than the Ethernet interface referenced in requirement TPS-5419 and not used during ISS-S operation.	Demo	The Contractor must demonstrate that the Ethernet interface can be used to connect and exchange information with Ethernet compatible device.	No

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2.2.7	TPS-99	Sensor			
2.2.7.1	TPS-4970	Digital Camera			
2.2.7.1.0-1	TPS-4795	The ISS-S should import pictures to the ISS-S computer in one of two ways: <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. 	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.7.2	TPS-4976	CORAL-CR-C			
2.2.7.2.0-1	TPS-4486	The ISS-S must physically connect to, operate with and meet the interface specification of the CF in-service AN/PAS-503 CORAL-CR-C HHTI.	Demo	The Contractor must demonstrate that the ISS-S can connect to and exchange information with the CORAL-CR-C.	No
2.2.7.2.0-2	TPS-5325	The ISS-S must generate an accurately geo-referenced entity on the map when using the laser range finder function of the CORAL-CR-C.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.7.2.0-3	TPS-5327	The ISS-S must display the MGRS 10 grid reference with UTM map coordinates of an entity lased by the CORAL-CR-C.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.7.2.0-4	TPS-5386	The ISS-S should allow the ISS-S User to identify	Demo	The Contractor must demonstrate that	No

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		an entity on his/her map display generated by the CORAL-CR-C as one of the following: - A Quick Symbol as specified in TPS-4819; - An Enemy, Friendly, Neutral or Unknown as specified in TPS-1990; - A Tactical Graphic as specified in TPS-2012.		the ISS-S meets this requirement.	
2.2.8	TPS-104	System Management			
2.2.8.0-1	TPS-1037	System Management (SM) includes all the network administration background functions that are required to enable the main BMS and communication functions to work, including network management and configuration, individual ISS-S software and devices configuration, etc.			
2.2.8.0-2	TPS-1038	The ISS-S User system management capabilities are limited to monitoring the ISS-S and the network and installing configurations. Qualified ISS-S Users are expected to distribute configuration parameters, debug ISS-S nodes and monitor network health. ISS-S Users are expected to perform SM related functions on a software identified as the Configuration Application Software that is to run on the ISS-S. SEP functions include the configuration of parameters, network planning, BMS settings configuration, etc. The SEP is expected to perform his planning on a specialised planning software, accessible through a in-service CF-31 or Standalone PC. The software is identified here as the SEP-Suite.			
2.2.8.0-3	TPS-1039	Using the SEP-Suite, the SEP is responsible to create an ISS Network Plan for a given operation. It is expected that the ISS Network Plan will take the form of Configuration Files such that qualified personnel can load them on the ISS-S of their respective Users. Considering that the SEP is a Bn/Battle Group asset, he/she is to create an ISS			

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		Network Plan for four Coys within this Bn/Battle Group. That translates into more than 600 ISS-S. It is important that the concept of Configuration Files offers flexibility and simplicity for the SEP and the ISS-S User. Also, it is expected that the ISS Network Plan be available in human readable format. As part of the ISS Network Plan, the SEP will create COIs to which services (Voice, Data or Blue PA) will be assigned and network resources (frequencies, channels, time slots, etc...) will be allocated. It is expected that every ISS-S will be initially configured from a blank state with the possibility to reconfigure once deployed. It is expected that a User is to have the flexibility to join and leave any available COIs			
2.2.8.1	TPS-2962	System Executive and Planning (SEP) Suite			
2.2.8.1.0-1	TPS-3043	The SEP-Suite must be installable and executable on an in-service CF-31 laptop, when operating with Windows XP and when operating with Windows 7, which is its only expected mode of operation.	Demo	The Contractor must install the SEP-Suite on an in-service CF-31 and provide a demonstration of the software applications. The SEP-Suite must work whether the CF-31 is operating with Windows XP or Windows 7.	No
2.2.8.1.0-2	TPS-5376	The SEP-Suite must be used to plan the configuration of the ISS-S nodes.	Demo	The Contractor must demonstrate that the SEP-Suite is used to plan the configuration of the ISS-S nodes.	Yes
2.2.8.1.0-3	TPS-5378	Once the ISS-S nodes are configured, the SEP-Suite must not be required to operate the ISS-S.	Demo	The Contractor must demonstrate that once the ISS-S nodes are configured, the SEP-Suite does not need to be used to operate the ISS-S nodes.	Yes
2.2.8.1.0-4	TPS-5377	Once the ISS-S nodes are configured, the ISS-S nodes must meet all TPS requirements without requiring any other device or infrastructure.	Contractor's Choice	The Contractor must prove that once the ISS-S nodes are configured, no other devices or infrastructures are required to operate the ISS-S nodes.	No
2.2.8.1.1	TPS-5387	Key Management Planning Tool			

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2.2.8.1.1.0-1	TPS-5388	The SEP-Suite must include a Key Management Planning (KMP) tool.	Demo	The Contractor must demonstrate how the SEP-Suite KMP tool functions.	No
2.2.8.1.2	TPS-2966	Communication Network Planning			
2.2.8.1.2.1	TPS-5361	General			
2.2.8.1.2.1.0-1	TPS-4112	The SEP-Suite must include a Communication Network Planning (CNP) tool that allows the SEP to configure all parameter settings required for proper configuration of the ISS-S nodes.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to configure all parameter settings required for proper configuration of the ISS-S nodes.	Yes
2.2.8.1.2.1.0-2	TPS-1816	When using the CNP, the SEP must be able to plan and distribute an ISS Network Plan with all ISS-S devices starting from a blank state (no IP address or User name) and achieving a fully operational network where all ISS-S can exchange voice and data over-the-air.	Demo	The Contractor must demonstrate that CNP Tool allows the SEP to plan and distribute an ISS Network Plan with all ISS-S devices starting from a blank state (no IP address or User name) and achieving a fully operational network where all ISS-S are capable of exchanging voice and data over-the-air.	Yes
2.2.8.1.2.1.0-3	TPS-1157	The CNP should produce an ISS Network Plan in human readable format that captures all the configuration parameters included in the ISS Network Plan upon request from the SEP.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to produce an ISS Network Plan in human readable format that captures all the configuration parameters included in the ISS-S network plan.	No
2.2.8.1.2.2	TPS-2992	Prepare ISS Network Plan			
2.2.8.1.2.2.0-1	TPS-1132	The SEP must be able to create and save an ISS Network Plan using the ISS Communication Network Planning (CNP) tool.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to create and save an ISS Network plan using the ISS Communication Network Planning (CNP) tool.	No
2.2.8.1.2.2.0-2	TPS-3041	The CNP should allow a previous ISS Network Plan to be modified and saved as a new ISS Network Plan.	Demo	The Contractor must demonstrate that CNP Tool allows the SEP to modify a previous ISS Network Plan and save it as a new ISS Network Plan.	No
2.2.8.1.2.2.0-3	TPS-1139	When using the CNP, The SEP must be able to	Demo	The Contractor must demonstrate that	Yes

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		create and give unique names to all COIs in the ISS Network Plan.		the CNP Tool allows the SEP to create and give unique names to all COIs in the ISS Network plan.	
2.2.8.1.2.2.0-4	TPS-2998	When using the CNP, the SEP must be able to associate a service among the following to each COI: • Blue PA; • Data; • Voice.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.8.1.2.2.0-5	TPS-1135	When using the CNP, the SEP must be able to enter Frequencies and IP addresses and other required parameters based on imposed constraints.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to enter Frequencies and IP addresses and other required parameters based on imposed constraints.	Yes
2.2.8.1.2.2.0-6	TPS-3002	When using the CNP, the SEP must be able to allocate network resources to COIs.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to allocate network resources to COIs.	Yes
2.2.8.1.2.2.0-7	TPS-3003	The CNP must allow configuration of spare COIs.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to configure spare COIs.	Yes
2.2.8.1.2.2.0-8	TPS-2999	If the communications network requires configuration of relays, the CNP must allow for planning of relays.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to plan for relays.	Yes
2.2.8.1.2.2.0-9	TPS-3008	When using the CNP, the SEP must be able to assign network addresses to the communication devices.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to assign network addresses to the communication devices.	Yes
2.2.8.1.2.2.0-10	TPS-4930	The CNP must allow distribution of the ISS Network Plan to the individual ISS-S.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to distribute the ISS network plan to an individual ISS-S.	Yes
2.2.8.1.2.3	TPS-2994	Validation Plan			
2.2.8.1.2.3.0-1	TPS-3009	The CNP should identify network resource conflicts that are known to prevent the ISS	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to identify	Yes

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		Network to function.		network resource conflicts that are known to prevent the ISS Network to malfunction.	
2.2.8.1.2.4	TPS-2996	ORBAT			
2.2.8.1.2.4.0-1	TPS-1162	When using the CNP, the SEP should be able to create an ISS ORBAT based on a predefined list of at least 300 positions that can include the following groups: <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.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.8.1.2.4.0-2	TPS-2997	The ORBAT should be presented in a hierarchical format.	Demo	The Contractor must demonstrate that the ORBAT can be presented in a hierarchical format.	No
2.2.8.1.2.4.0-3	TPS-3005	When using the CNP, the SEP should be able to assign ISS-S Users to specific COIs based on the ORBAT.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.8.1.2.4.0-4	TPS-1140	The CNP should provide a way to ensure that all ORBAT positions are included in the ISS Network Plan.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.8.1.2.4.0-5	TPS-2936	The SEP should be able to use the CNP tool's ORBAT to build multiple platoon-level (i.e. up to 45 nodes) ISS Network Plans. Examples of Coy and PI size ORBAT are illustrated in Section 5 of Volume 2, Annex CB, Appendix 10.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.8.1.2.5	TPS-4929	Alternate ISS Network Plan			
2.2.8.1.2.5.0-1	TPS-3004	When using the CNP, the SEP should be able to develop an alternate ISS Network Plan using a	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to develop	No

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		different part of the frequency spectrum.		an alternate ISS Network Plan using a different part of the frequency spectrum.	
2.2.8.1.2.5.0-2	TPS-4936	When using the CNP, the SEP should be able to distribute the alternate ISS Network Plan using the same mean as for the main ISS Network Plan.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.8.1.2.5.0-3	TPS-1064	The ISS-S User should be able to select an alternate ISS Network Plan saved on his system without having to restart the system.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.8.1.3	TPS-2969	Map Distribution			
2.2.8.1.3.0-1	TPS-1818	When using the SEP-Suite, the SEP must be able to import the maps defined in TPS-1921 and distribute them to individual ISS-S.	Demo	The Contractor must demonstrate that the SEP-Suite allows the SEP to import the maps defined in TPS-1921 and distribute them to individual ISS-S.	Yes
2.2.8.1.3.0-2	TPS-5466	If conversion or modification to the maps is required in order to meet TPS-1818, the maps being distributed to individual ISS-S must retain the same level of details and precision as the original maps.	Contractor's Choice	The Contractor must prove the maps being distributed to individual ISS-S retain the same level of details and precision as the original maps.	No
2.2.8.1.4	TPS-2968	Battle Management Software Configuration			
2.2.8.1.4.1	TPS-1792	Blue PA messages reporting parameters			
2.2.8.1.4.1.0-1	TPS-1793	When using the SEP-Suite, the SEP should be able to configure the Blue PA reporting in terms of time and distance as specified in TPS-2587 and TPS-4820 with the following settings: 1) Automatic Blue PA reporting based on time = ON/OFF; 2) Time interval value for Blue PA reporting = x seconds.; 3) Automatic Blue PA reporting based on distance = ON/OFF; and 4) Distance interval value for Blue PA reporting = x meters.	Demo	The Contractor must demonstrate that the SEP-Suite has the following Blue PA messages settings: 1) Time-Based Automation - ON/OFF; 2) Time Interval; 3) Distance-Based Automation - ON/OFF; 4) Distance Interval.	Yes
2.2.8.1.4.1.0-2	TPS-1800	The default Time-Based Automation setting should be that Blue PA report messages are sent after the	Demo	The Contractor must demonstrate that for Blue PA Time-Based Automation,	No

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		Time interval has passed.		messages are sent after the Time interval has passed.	
2.2.8.1.4.1.0-3	TPS-1802	When using the SEP-Suite, the SEP should be able to configure the Blue PA reporting time interval in increments of 5 sec. starting at 5 sec. and up to at least 1 min.	Demo	The Contractor must demonstrate that the SEP-Suite allows the SEP to configure the Blue PA reporting time interval in increments of 5 sec. starting at 5 sec. and up to at least 1 min.	No
2.2.8.1.4.1.0-4	TPS-1806	The default Distance-Based Automation setting should be that Blue PA report messages are sent after the user has travelled passed the Distance interval.	Demo	The Contractor must demonstrate that the Blue PA Distance-Based Automation setting should be that Blue PA messages are sent after the user has travelled passed the Distance interval.	No
2.2.8.1.4.1.0-5	TPS-1808	When using the SEP-Suite, the SEP should be able to configure the Blue PA reporting distance interval in increments of 5 m starting at 5 m and up to at least 50 m.	Demo	The Contractor must demonstrate 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.	No
2.2.8.2	TPS-5401	Configuration Application Software			
2.2.8.2.0-1	TPS-4034	The ISS-S User should be able to measure and analyse the total message traffic within COIs and provide traffic analysis to determine operational status and isolate operational irregularities.	Demo	The Contractor must demonstrate that the ISS-S allows an ISS-S User to measure and analyse the total message traffic within COIs and provide traffic analysis to determine operational status and isolate operational irregularities.	No
2.2.8.2.0-2	TPS-1066	The ISS-S User should be able to monitor data transfer progress.	Demo	The Contractor must demonstrate that the ISS-S User can monitor data transfer progress.	No
2.2.8.2.0-3	TPS-1109	The ISS-S User should be able to perform an automated network connectivity test on any COI.	Demo	The Contractor must demonstrate that an ISS-S User can perform an automated network connectivity test on any COI.	No
2.2.8.2.0-4	TPS-4938	The Automated network connectivity test should verify that data can be sent and received to and from all ISS-S registered on the COI.	Demo	The Contractor must demonstrate that an automated network connectivity test verifies that data can be sent and	No

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				received to and from all ISS-S registered on the COI.	
2.2.8.3	TPS-2963	User Profile			
2.2.8.3.0-1	TPS-5143	Several ISS-S Users are required to change some of their ISS-S configuration parameters and/or individual settings such as COIs, ORBAT positions, frequencies, etc... during a course of an operation. It would be advantageous to the ISS-S User that his/her last used ISS-S configuration parameters and/or individual settings prior to a log-off are saved and recovered upon log-in under a specific User Profile. The concept of a "User Profile" is defined as a logical grouping of user specific settings such as list of COI a given user may access, rank and position of a user and other such items that may pertain to an individual user and be used for individual accountability.			
2.2.8.3.0-2	TPS-5468	The ISS-S User should be assigned a specific User Profile based on his/her specific configuration parameters.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.8.3.0-3	TPS-5144	The ISS-S access control should store multiple "User Profile" while only allowing a single profile to be active at any given time.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.8.3.0-4	TPS-1055	The ISS-S User must be able to view a list of all COIs he can select.	Demo	The Contractor must demonstrate that the ISS-S User can view a list of all COIs he can select.	No
2.2.8.3.0-5	TPS-2972	The list of COIs on the ISS-S must indicate their associated service types (Voice, Data or Blue PA).	Demo	The Contractor must demonstrate that the list of COIs indicate their associated service types (Voice, Data or Blue PA).	No
2.2.8.3.0-6	TPS-1058	The ISS-S User must be able to join and leave any COI from the list of COIs.	Demo	The Contractor must demonstrate that the ISS-S User can join and leave any COI from the list of COIs.	Yes
2.2.8.3.0-7	TPS-1060	The ISS-S User must be able to view to which	Demo	The Contractor must demonstrate that	No

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		COIs he is a member.		the ISS-S User can view which COIs he is a member.	
2.2.8.3.0-8	TPS-2933	Upon log-in, the ISS-S User should be able to select their ORBAT position based on a predefined list of positions.	Demo	The Contractor must demonstrate how an ISS-S User can select his ORBAT position after log-in procedures.	Yes
2.2.8.3.0-9	TPS-4183	The ISS-S User should be able to modify his ORBAT position based on a predefined list of positions without rebooting the system.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	Yes
2.2.8.4	TPS-4926	Configuration Files			
2.2.8.4.0-1	TPS-3015	All parameters configured using the SEP-Suite should be distributed using Configuration Files.	Demo	The Contractor must demonstrate that the SEP-Suite allows the SEP to distribute the Configuration files.	Yes
2.2.8.4.0-2	TPS-4931	The CNP should allow distribution of the ISS Network Plan to the individual ISS-S by saving it in a Configuration File.	Demo	The Contractor must demonstrate that the CNP Tool allows the SEP to distribute the ISS network plan to the individual ISS-S by saving it in a Configuration File.	No
2.2.8.4.0-3	TPS-4933	When using the SEP-Suite, the SEP should be able to transfer Configuration files to an External Data Storage Device.	Demo	The Contractor must demonstrate that the SEP-Suite allows the SEP to transfer Configuration files to an External Data Storage Device.	No
2.2.8.4.0-4	TPS-1083	The ISS-S User should be able to transfer Configuration Files between the Main and External Data Storage Devices.	Demo	The Contractor must demonstrate that the ISS-S allows the ISS-S User to transfer Configuration Files between the Main and External Data Storage Devices.	No
2.2.8.4.0-5	TPS-2977	The ISS-S User should be able to configure his ISS-S using Configuration Files saved on his Main Data Storage.	Demo	The Contractor must demonstrate that the ISS-S User is able to configure his ISS-S using configuration files saved on his Main Data Storage.	No
2.2.8.4.0-6	TPS-1081	The ISS-S User should be able to view the current Configuration File identifier and time-stamp.	Demo	The Contractor must demonstrate that the ISS-S User is able to view the current Configuration file identifier and time-stamp.	No

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2.2.8.4.0-7	TPS-3033	The ISS-S User should be able to transfer Configuration Files to other ISS-S over-the-air.	Demo	The Contractor must demonstrate that the ISS-S User is able to distribute Configuration files over-the-air from one ISS-S to another.	No
2.2.8.4.0-8	TPS-1103	The ISS-S User should be able to review the configuration settings included in Configuration Files, in human readable form, to verify completeness.	Demo	The Contractor must demonstrate that the ISS-S User is able to review the configuration settings included in Configuration Files, in human readable form, to verify completeness.	No
2.2.8.5	TPS-223	Application Management			
2.2.8.5.0-1	TPS-1199	The ISS-S software and firmware must be replaceable using existing ISS-S ports.	Demo	The Contractor must demonstrate that trained personnel is able to install new firmware, software or software versions on any ISS-S by using existing ISS-S ports and without having to send any device to a Contractor site.	No
2.2.9	TPS-5417	LCSS Data Interoperability			
2.2.9.1	TPS-5418	Data Infrastructure			
2.2.9.1.0-1	TPS-5419	The ISS-S must include an LCSS interface in the form of an IEEE 802.3 Ethernet port or a USB port for data exchange with the LCSS.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.9.2	TPS-1544	Battle Management System			
2.2.9.2.0-1	TPS-4184	The ISS-S must exchange the following information with LCSS through a wired network connections via the LCSS interface using the Variable Message Format (VMF) as described in the MIL-STD-6017A: - K02.4 Call For Fire; - K04.1 Observation Report; - K05.1 Position Report; - K05.14 Situation Report; and - K07.1 Medical Evacuation Request.	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No
2.2.9.2.0-2	TPS-5501	Every VMF message that the ISS-S exchanges via the LCSS interface must use a VMF header that	Demo	The Contractor must demonstrate that the ISS-S meets this requirement.	No

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		conforms to MIL-STD-2045-47001Dch1.			
2.2.9.2.0-3	TPS-878	The ISS-S applications using the LCSS interface should support Differentiated Services Code Points in packets (as defined in IETF RFC 2474, 2475 and 3260) for integration with the Land Command Support System (LCSS).	Demo	Contractor must demonstrate that DiffServ-marked packets from an LCSS network can be treated with priority on a loaded ISS-CS network. Also, Contractor must demonstrate that outgoing packets from the ISS-CS to an external LCSS network can be marked with DiffServ markings in accordance with LCSS-defined priorities.	No
2.2.9.3	TPS-2650	Communications			
2.2.9.3.1	TPS-3929	Networking			
2.2.9.3.1.0-1	TPS-5420	The ISS-S LCSS Interface must default to the use of private address spaces as defined in IETF RFC 1918.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.9.3.1.0-2	TPS-5421	The ISS-S LCSS Interface should allow system management to reconfigure the system to interoperate with other IETF IPv4-compliant network equipment using standard IPv4 unicast address spaces other than those defined in IETF RFC 1918.	Contractor's Choice	The Contractor must prove that the ISS-S meets this requirement.	No
2.2.9.3.1.0-3	TPS-5422	If IP multicast is used in support of the ISS-S LCSS Interface, the ISS-S LCSS Interface must comply with IETF RFC 5771.	Demo	If IP multicast is used in support of the ISS-S LCSS Interface, the Contractor must demonstrate that the ISS-S LCSS Interface supports IP multicast and complies with IETF RFC 5771. If IP multicast is not used, the Contractor must demonstrate how the ISS-S can support multicast services.	No
2.2.9.3.1.0-4	TPS-5423	The ISS-S LCSS Interface must support the User Datagram Protocol (UDP) as defined in IETF STD 0006 and Internet Protocol as defined in IETF STD 0005.	Demo	The Contractor must demonstrate that the ISS-S LCSS Interface supports the User Datagram Protocol (UDP) as defined in IETF STD 0006 and Internet Protocol as defined in IETF STD 0005.	No

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2.2.9.3.1.0-5	TPS-5424	The ISS-S LCSS Interface must support a Maximum Transmission Unit (MTU) of 1500 bytes without IPv4 fragmentation.	Analysis	The Contractor must provide documentation proving the MTU size of the ISS-S LCSS Interface.	No

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APPENDIX 2 TO ANNEX CB TO VOLUME 2

USER ACCEPTANCE PERFORMANCE SPECIFICATIONS (UAPS) FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
1	UAPS-142	Hardware			
1.1	UAPS-54	System Assembly			
1.1.1	UAPS-145	System Assembly			
1.1.1.0-1	UAPS-153	The system assembly of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If system assembly aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.2	UAPS-60	Input Device Usability			
1.2.1	UAPS-61	Text Entry Capability			
1.2.1.0-1	UAPS-62	The text entry capability of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If text entry aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.2.1.0-2	UAPS-154	The text entry capability of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If text entry aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.2.2	UAPS-63	Text Messaging			

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1.2.2.0-1	UAPS-17	The communication text messaging function of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If text messaging aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.2.3	UAPS-64	Pointing / Selecting Controls			
1.2.3.0-1	UAPS-65	The controls for pointing/selecting (includes tabbing, drawing, and menu selection) of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If controls for pointing/selecting aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.2.3.0-2	UAPS-155	The controls for pointing/selecting (includes tabbing, drawing, and menu selection) of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If controls for pointing/selecting aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.2.4	UAPS-66	Device Controls			
1.2.4.0-1	UAPS-67	The device controls (includes PTT and other hardware controls) of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If device control aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise:	No

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				The Contractor must prove that the ISS-S meets this requirement.	
1.2.4.0-2	UAPS-156	The device controls (includes PTT and other hardware controls) of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If device control aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
1.3	UAPS-69	Displays			
1.3.1	UAPS-70	Daytime Visual Display			
1.3.1.0-1	UAPS-71	The daytime visual display(s) of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If daytime visual display aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
1.3.1.0-2	UAPS-157	The daytime visual display(s) of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If daytime visual display aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
1.3.2	UAPS-72	Night-time Visual Display Operation			
1.3.2.0-1	UAPS-158	The night-time operation of the ISS-S	Contractor's	If night-time operation aspects of the ISS-S have not	No

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		should be completely acceptable to soldiers for use under operational conditions.	Choice	changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	
1.3.3	UAPS-74	Audio Display Physical Design			
1.3.3.0-1	UAPS-9	The audio display(s) physical design of the ISS-S should achieve a high degree of user acceptance.	Contractor's Choice	If audio display aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.3.4	UAPS-75	Voice Communications			
1.3.4.0-1	UAPS-78	The voice communication function of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If voice communication aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
1.3.4.0-2	UAPS-159	The voice communication function of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If voice communication aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise:	No

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
				The Contractor must prove that the ISS-S meets this requirement.	
1.3.5	UAPS-76	Natural Hearing Restoration			
1.3.5.0-1	UAPS-160	The ability for the ISS-S audio display to provide natural hearing restoration (sound localisation and sound discrimination) should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If audio display aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
1.3.6	UAPS-146	Security / Stability			
1.3.6.0-1	UAPS-161	The security/stability of the ISS-S Audio Display canalphones should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If security/stability aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
2	UAPS-143	Software			
2.1	UAPS-83	Graphical User Interface			
2.1.1	UAPS-84	System-Level Graphical User Interface			
2.1.1.0-1	UAPS-162	The system-level Graphical User Interface of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If system-level Graphical User Interface aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this</p>	No

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				requirement.	
2.1.2	UAPS-86	User Interface Response Time			
2.1.2.0-1	UAPS-46	The ISS-S user interface response time should be completely acceptable to soldiers under operational conditions.	Contractor's Choice	<p>If system-level Graphical User Interface aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
2.1.3	UAPS-87	BMS Navigation			
2.1.3.0-1	UAPS-88	The BMS Navigation function of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If navigation function aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
2.1.3.0-2	UAPS-163	The BMS Navigation function of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If navigation function aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
2.1.4	UAPS-89	BMS Planning			
2.1.4.0-1	UAPS-90	The BMS planning function of the ISS-S must be acceptable to soldiers for use	Contractor's Choice	If planning function aspects of the ISS-S have not changed from the P(Bid) configuration, the	No

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		under operational conditions.		Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	
2.1.4.0-2	UAPS-164	The BMS planning function of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If planning function aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
2.1.5	UAPS-91	BMS - PA/SA			
2.1.5.0-1	UAPS-92	The BMS position and situation awareness function of the ISS-S must be acceptable to soldiers for use under operational conditions.	Contractor's Choice	If position and situation awareness aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
2.1.5.0-2	UAPS-165	The BMS position and situation awareness function of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If position and situation awareness aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise:	No

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				The Contractor must prove that the ISS-S meets this requirement.	
2.1.6	UAPS-94	Target Designation Usability			
2.1.6.0-1	UAPS-166	The target designation capability of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If target designation aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
2.1.7	UAPS-96	Target Hand-off Usability			
2.1.7.0-1	UAPS-167	The target hand-off capability of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	<p>If target hand-off aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No
3	UAPS-144	System Functionality			
3.1	UAPS-103	Mobility			
3.1.1	UAPS-149	Mobility			
3.1.1.0-1	UAPS-168	While wearing the ISS-S, dismounted soldier mobility should be completely acceptable to soldiers while under operational conditions.	Contractor's Choice	<p>If mobility aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.</p> <p>Otherwise:</p> <p>The Contractor must prove that the ISS-S meets this requirement.</p>	No

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3.2	UAPS-112	Compatibility			
3.2.1	UAPS-113	Personal Weapons Compatibility			
3.2.1.0-1	UAPS-169	The ISS-S should be completely acceptable to soldiers under operational conditions with C7A2 and 9mm pistol.	Contractor's Choice	If weapons compatibility aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.2.2	UAPS-115	Platoon Weapons Compatibility			
3.2.2.0-1	UAPS-170	The ISS-S should be completely acceptable to soldiers under operational conditions with C9A2, C7A2 M203, M72 SRAAW (L), grenade - fragmentation and smoke, CARL GUSTAV SRAAW (M).	Contractor's Choice	If weapons compatibility aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.2.3	UAPS-117	PPE Compatibility			
3.2.3.0-1	UAPS-171	The ISS-S should be completely acceptable to soldiers under operational conditions with their Personnel Protective Equipment defined as: fragmentation vest with the CG634 and ballistic eyewear.	Contractor's Choice	If PPE compatibility aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.2.4	UAPS-124	Other Equipment Compatibility			
3.2.4.0-1	UAPS-172	The ISS-S should be completely acceptable to soldiers under operational	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to	No

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		conditions with the PRC-152/148 radio, AN/PVS-14 (MNVG), CF hydration system, CTS small pack and CTS ruck sack.		provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	
3.2.5	UAPS-126	Vehicle Compatibility			
3.2.5.0-1	UAPS-173	The ISS-S should be acceptable to soldiers for use under operational conditions with the following vehicles: LUVW and LAV III.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.2.6	UAPS-119	CBRN Compatibility			
3.2.6.0-1	UAPS-139	The ISS-S should be completely acceptable to soldiers for use under operational conditions with the C4 gas mask, gas mask carrier and CF CBRN drills.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.3	UAPS-150	Compatibility - Handwear			
3.3.1	UAPS-120	Overall Handwear Compatibility			
3.3.1.0-1	UAPS-174	The ISS-S should be completely acceptable to soldiers under operational conditions with the in-service gloves.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.	No

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				Otherwise: The Contractor must prove that the ISS-S meets this requirement.	
3.3.2	UAPS-140	Handwear - Audio Display Wired PTT			
3.3.2.0-1	UAPS-50	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.	Contractor's Choice	If Audio Display Wired PTT Switch aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.3.3	UAPS-141	Handwear - Audio Display Wireless PTT			
3.3.3.0-1	UAPS-123	The ISS-S Audio Display Wireless PTT (as defined in TPS-5027) should be completely acceptable to soldier under operational conditions for compatibility with temperate gloves, Mortar gloves, and CBRN gloves.	Contractor's Choice	If Audio Display Wireless PTT Switch aspects of the ISS-S have not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.4	UAPS-105	Fit and Adjustability			
3.4.1	UAPS-151	Fit and Adjustability			
3.4.1.0-1	UAPS-175	The overall fit and adjustability of the ISS-S should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement.	No

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				Otherwise: The Contractor must prove that the ISS-S meets this requirement.	
3.5	UAPS-107	Comfort			
3.5.1	UAPS-108	Body Physical Comfort			
3.5.1.0-1	UAPS-176	The overall impact of the ISS-S on body physical comfort (below the neck) should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.5.2	UAPS-137	Head / Ear Physical Comfort			
3.5.2.0-1	UAPS-138	The overall impact of the ISS-S on head (including ears) and neck comfort should be completely acceptable to soldier under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.5.3	UAPS-110	Thermal Comfort			
3.5.3.0-1	UAPS-111	The overall impact of the ISS-S on thermal comfort should be completely acceptable to soldiers for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this	No

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				requirement.	
3.6	UAPS-98	Combat Load Compatibility			
3.6.1	UAPS-99	Combat Load Accessibility			
3.6.1.0-1	UAPS-177	Overall combat load accessibility should be completely acceptable to soldiers wearing the ISS-S, for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.6.2	UAPS-101	Combat Load Configurability / Modularity			
3.6.2.0-1	UAPS-102	ISS-S combat load modularity/configurability must be acceptable to soldiers wearing the ISS-S, for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.6.2.0-2	UAPS-178	ISS-S combat load modularity/configurability should be completely acceptable to soldier for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.6.3	UAPS-131	Combat Load Capacity			
3.6.3.0-1	UAPS-179	Overall combat load capacity should be	Contractor's	If the ISS-S has not changed from the P(Bid)	No

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Para	UAPS Reference	Requirement Statement	Verification Method	Verification Criteria	SAT
		completely acceptable to soldiers wearing the ISS-S, for use under operational conditions.	Choice	configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	
3.6.4	UAPS-134	ISS-S Component Modularity / Configurability			
3.6.4.0-1	UAPS-135	ISS-S component modularity/configurability should be completely acceptable to soldiers wearing the ISS-S, for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No
3.7	UAPS-128	Detectability			
3.7.1	UAPS-152	Detectability			
3.7.1.0-1	UAPS-180	The overall impact of the ISS-S on detectability should be completely acceptable to soldiers, for use under operational conditions.	Contractor's Choice	If the ISS-S has not changed from the P(Bid) configuration, the Contractor does not need to provide any proof that the ISS-S meets this requirement. Otherwise: The Contractor must prove that the ISS-S meets this requirement.	No

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APPENDIX 3 TO ANNEX CB TO VOLUME 2

MISSION PROFILES AND OPERATIONAL MODE SUMMARY FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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1. Introduction

1.1 The ISS-S Mission Profile is a time-phased description of the operational events and environments that the ISS-S will be subjected to from the start to the end of a specific mission. Activities, durations, operating conditions, and environmental conditions are identified for each mission. This is described in terms of the Operational Environment and specific Mission Profiles.

1.2 The Operational Mode Summary provides a compilation of the missions, operating conditions and environments the ISS-S population will expect to see over its useful life cycle. It is described from the perspective of Mission Cycles / Life Expectancy, Environmental Profiles, Climatic Conditions, Mobility Modes and Component Usage.

1.3 In determining the usage for some components of the ISS-S, time (or system operating hours) may not be the most adequate measure. In some cases, the number of cycles may be more appropriate. These special cases are identified in section 5 - Special Component Usage, where the component, measures and expected values are provided to relate their usage to the system operating time.

2. Operational Environment

2.1 The ISS-S is to operate within the Army of Tomorrow Land Operations 2021 Adaptive Dispersed Operations (ADO) Force Employment Concept (FEC), which is characterized by adaptable, networked, and integrated manoeuvre forces. These forces will alternatively disperse and aggregate over extended distances to identify, influence, and defeat the full spectrum threats. As such, the ISS-S will be deployed world-wide across the full spectrum of terrain and climates, including jungle, mountain, tundra, desert, arctic, coastal regions, complex high density urban, etc.

2.2 The climates, induced environments and mobility platforms expected are detailed in the Environmental Profiles section below.

2.3 The majority of the operators of the ISS-S will be Infantry Officers and Non Commissioned Members (NCMs) that are required to work as part of an aggressive, disciplined team. In determining the various mission profiles expected for the ISS-S over its entire life cycle, the expected tasks and activities of an infantry soldier, working within this team, through the various phases of deployment and training, are used as the baseline. An infantry soldier is a soldier within the Land Component of a Mission Specific Task Force (MSTF) who is normally a member of the Combat Arms and who is required to undertake the tasks identified at Table 1 below as a dismounted combatant. This user is qualified at the Basic Infantry Qualification level and is employable within a rifle section as a Rifleman.

Table 1 – Key Dismounted Soldier Tasks

Serial	Description	Task
1	Tasks primarily related to immediate combat or the preparation for immediate combat	Detect, locate and identify targets Engage threat targets Fight at close quarters Adopt fire positions Conduct patrols Move undetected Prepare defensive fighting positions Emplace obstacles Overcome obstacles Employ camouflage Determine location and bearing Communicate with the chain of command Participate in CBRN operations
2	Tasks related to planning/logistic preparation	Gather tactical information Prepare reports Move cross country out of contact Communicate Participate in operations other than war Mount/dismount tactical transport
3	Tasks primarily related to sustainability	Administer medical first aid Prepare and consume nutrition Carry heavy loads Rest and conduct personal hygiene Set-up/operate equipment Maintain/repair equipment Employ survival techniques

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3. Mission Profiles

The ISS-S will typically be deployed within a MSTF, whose expected operational mission profile will follow an average twenty-four (24) hour Battlefield Day (BD). Outside of MSTF use, the ISS-S will be subjected to Pre-deployment Training and Reconstitution Phase usages. Each of these profiles will be described below.

3.1 Battlefield Day (BD) Profile

The Baseline User, over an average twenty-four (24) hour BD, can be expected to undertake the following representative activities:

- a. Rest - five (5) hours (broken into blocks, not continuous);
- b. Miscellaneous Work - two (2) hours;
- c. Dismounted patrol /advance to contact - seven (7) hours (carrying a loaded patrol pack);
- d. Sentry - four (4) hours;
- e. Travel in tactical transport - two (2) hours;
- f. Eat/hydrate - one (1) hour (broken into blocks); and
- g. Combat - three (3) hours.

3.1.1 Table 2 shows the expected operating times, by BD activity, that the Tactical User Interface will be used / viewed by the User, as well as the expected amount of time that the Communication device will spend in Standby, Transmit, and Receive modes, considering voice, data and geo-referencing positional awareness (Blue PA) requirements. The ISS-S electronic components will be in a power-on state for the entire BD with the exception of the Rest - No Activity portion where the ISS-S will be turned off and the Travel in Tactical Transport activity where the radio will be turned off. See section 6 - Basic Assumptions for Usage Determination, for an explanation of the assumptions used to determine Tactical User Interface and Communication device usage.

3.1.2 Table 2 indicates that the Tactical User Interface will be in use for 5 hours over a 24 hour BD, for an overall active usage of 20.8% per BD. It is expected that whenever the Tactical User Interface is in use during the BD, the display luminance will be set to at least 200 cd/m² on average. Although the Tactical User Interface is in active use only 5 hours of the BD, it will be in a power-on mode for 22 hours of the 24 hours.

3.1.3 Table 2 indicates that the Communication device will be in use for 20 hours over a 24 hour BD, for an overall usage of 83.3% per BD. The time spent transmitting and receiving Blue PA, Voice and Data only includes user-generated traffic. Network control traffic, collision detection and avoidance, COMSEC, and any other non-user-generated traffic and overhead are not included in those times. The Communication device standby time includes the time that the device does not

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transmit or receive any traffic, but also includes the time spent transmitting and receiving network control traffic, collision detection and avoidance, COMSEC, and any other non-user-generated traffic and overhead. The Communication device must be configured to use the primary transmitted output power mode throughout the BD. The primary transmitted output power mode must be as identified by the Contractor in the bid proposal associated with TPS-5163.

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Table 2 – ISS-S Battlefield Day (BD) Usage Profile

		Tactical User Interface Use / View (hrs)	Communications							
Activity	Duration of Activity (hrs)		Standby (hrs)	Blue PA		Voice		Data		Total (hrs)
				Transmit (hrs)	Receive (hrs)	Transmit (hrs)	Receive (hrs)	Transmit (hrs)	Receive (hrs)	
Rest (no activity)	2	0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
Rest	3	0.75	2.60	0.002	0.070	0.030	0.300	0.000	0.000	3.00
Misc Work	2	0.50	1.03	0.002	0.046	0.040	0.220	0.114	0.550	2.00
Patrol/Advance to Contact	7	1.50	4.02	0.006	0.162	0.300	1.200	0.218	1.089	7.00
Sentry	4	0.40	2.08	0.003	0.093	0.080	0.440	0.218	1.088	4.00
Travel in Tac Tpt	2	0.50	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
Eat/hydrate	1	0.10	0.87	0.001	0.023	0.010	0.100	0.000	0.000	1.00
Combat	3	1.25	0.93	0.002	0.070	0.500	1.500	0.000	0.000	3.00
Totals (hrs)	24	5.00	11.52	0.016	0.464	0.960	3.760	0.551	2.728	20.00
% of Battlefield Day		20.8%	48.0%	0.1%	1.9%	4.0%	15.7%	2.3%	11.4%	83.3%

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3.2. Pre-deployment Training Profile

In Pre-deployment Training, the level of intensity will begin at a lower level than that of the BD, however usage intensity will increase over time to the BD tempo leading up to the actual Task Force deployment. Thus, Pre-deployment Training will be divided into two segments based on the level of intensity of the training. The first segment will consist of low to medium intensity training with the ISS-S primarily being used in a classroom and short training exercise setting, while the second segment will be medium to high intensity training with system usage simulating that of the BD. The training exercises of this second segment can be expected to expose the ISS-S to all the environmental conditions and operating modes of the MSTF Deployment.

3.3. Reconstitution Phase Profile

For this profile it is expected the ISS-S will come out of storage and be issued for low intensity individual/collective training. Here the ISS-S will primarily be used in a classroom and short training exercise setting.

3.4. Intensity Levels

Three intensity levels are used to categorize the expected ISS-S usage, being High, Medium and Low.

- High Intensity reflects the BD 24 hour, 7-day a week usage pattern;
- Medium Intensity usage is eight (8) operating hours per day, 5 days per week following the relative usages for the Tactical User Interface and Communications Device as for the BD;
- Low Intensity system usage is four (4) operating hours per day, 5 days per week following the relative usages for the Tactical User Interface and Communications Device as for the BD.

3.5. Mission Cycles / Life Expectancy

3.5.1 While on a MSTF Deployment (i.e. 6 month operational deployment) the ISS-S will incur four (4) weeks of Medium intensity use prior to following the mission profile of the typical BD for a period of 154 consecutive days (22 weeks). This MSTF Deployment cycle will be preceded by a Pre-deployment Training cycle of 6 months and succeeded by a Reconstitution Phase consisting of 3 months shipment, repair and storage followed by 3 months of low intensity training.

3.5.2 The Pre-deployment Training cycle is divided into two 3-month segments, as depicted in Table 3 below. Segment 1 will be six (6) weeks of low intensity training followed by seven (7) weeks of medium intensity training. Segment 2 will consist of seven (7) weeks of medium intensity training followed by six (6) weeks of high intensity training simulating that of the MSTF BDs.

3.5.3 The Reconstitution cycle consists of two 3-month segments, where the first segment includes the shipping of the ISS-S back from the MSTF Deployment theatre of operation, necessary repairs

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completed and storage of the system in a benign environment under Basic climatic conditions. In the second 3-month segment, it is expected the ISS-S will be used for low intensity training.

3.5.4 These Mission Cycles are summarized in Table 3 below. Table 4 shows this expected usage pattern by Intensity Level for one 18 month cycle.

3.5.5 The ISS-S will be expected to perform 5 of these combined cycles (Pre-deployment Training / MSTF Deployment / Reconstitution) in consecutive order throughout its life. Thus, the expected Service Life of the ISS-S will be 90 months (7.5 years) accumulating an expected 27,060 system operating hours.

Table 3 – ISS-S Usage Profile by Mission Cycle

Mission Cycle	Intensity ¹	Duration (months)	Usage	Total System Operating Time (hrs)	Relative Life Usage
Pre-deployment Training - Segment 1	Low/Medium	3	6 weeks Low 7 weeks Medium	400	7 %
Pre-deployment Training - Segment 2	Medium/High	3	7 weeks Medium 6 weeks High	1,204	22 %
MSTF Deployment	Medium/High	6	4 weeks Medium 22 weeks High	3,548	66 %
Reconstitution - Segment 1	Not Employed	3	None	0	0 %
Reconstitution - Segment 2	Low	3	13 weeks Low	260	5 %
Total Times		18		5,412	

¹ Low Intensity: 4 hrs/day, 5 days/week.
Medium Intensity: 8 hrs/day, 5 days/week.
High Intensity: 24 hrs/day, 7 days/week

Table 4 – ISS-S Usage Profile by Intensity Level for 18 Month Cycle

Intensity Level	Duration (weeks)	Usage	Total System Operating Time (hrs)	Relative Life Usage
High	28	Battlefield Day	4,312	80 %
Medium	18	8 hrs/day 5 days/week	720	13 %
Low	19	4 hrs/day 5 days/week	380	7 %
Not Employed	13	None	0	0 %
Total Times	78		5,412	

3.6 Environmental Profiles

3.6.1 Standard Climatic Zones:

The ISS-S will be employed world-wide across the NATO defined climatic zones of C0 to C2, A1 to A3, B1 to B3 and M1 to M3 (as per NATO Standardization Agreement (STANAG) 2895 Edition 1) and operating environments of desert, jungle, mountain, tundra, arctic and high urban density terrain. As such, it will be exposed to a variety of natural and induced environments.

3.6.1.1 Ranges of Weather and Temperature:

The natural environments will include extreme temperatures, thermal changes, solar radiation, humidity, blowing rain, freezing rain, blowing sand and dust, salt laden atmospheres and repeated exposures to the cold-wet environment. A summary of the climatic conditions is provided in Table 5 below, with relative exposures provided in Table 6.

3.6.2 Climatic Conditions and Levels of exposition:

Table 5 describes the climates in which the ISS-S is expected to operate and Table 6 shows the expected relative duration of time, by Mission Cycle, throughout its life in those various climates.

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Table 5 – Operating Climates

Climatic Design Type	Climatic Zone	Operational Conditions			Storage And Transit Conditions	
		Ambient Air Temp (°C)	Solar Radiation (W/m ²)	Ambient Relative Humidity (%)	Induced Air Temp (°C)	Induced Relative Humidity (%)
Hot	A1 – Extreme Hot Dry	32 - 49	0 to 1120	3 to 8	33 - 71	---
	B3 - Hot Humid	31 - 41	0 to 1080	59 to 88	33 - 71	14 to 80
Basic	A2 – Hot Dry	30 - 44	0 to 1120	14 to 44	30 - 63	---
	A3 – Intermediate	28 – 39	0 to 1060	78 to 43	28 – 58	---
	B1 – Wet Warm (358 days/yr)	23 – 32	Negligible	66 to 88	23 - 32	66 to 88
	B1 – Wet Warm (7 days/yr)	24	Negligible	100	24	100
	B2 – Wet Hot	26 – 35	0 to 990	74 to 100	30 – 63	19 to 74
	C0 – Mild Cold	(-19 to -6)	Negligible	Tending To Saturation	(-21 to -10)	Tending To Saturation
Cold	C1 - Basic Cold	(-32 to -21)	Negligible	Tending To Saturation	(-33 to -25)	Tending To Saturation
	C2 - Cold	(-46 to -37)	Negligible	Tending To Saturation	(-46 to -37)	Tending To Saturation
Marine	M1 – Marine Hot	29 - 48	0 to 1120	67 to 21	30 – 69	8 to 64
	M2 – Marine Intermediate	25.5 – 53	0 to 1080	53 to 100	30 – 63	13 to 78
	M3 – Marine Cold	(-34 to -23)	Negligible	Tending To Saturation	(-34 to -23)	Tending To Saturation

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**Table 6 – Expected Life Profile - Climatic Conditions
(Based on current and near term expected operational taskings)**

Climate Type	Pre-deployment Training Cycle – Segment 1 (Low & Medium Intensity)	Pre-deployment Training Cycle – Segment 2 (Medium & High Intensity)	MSTF Deployment (Medium & High Intensity)	Reconstitution Cycle – Segment 1 (Not Employed)	Reconstitution Cycle – Segment 2 (Low Intensity)
Hot	20 %	20 %	55 %	0 %	0 %
Basic	60 %	60 %	35 %	100 %	100 %
Cold	20 %	20 %	9 %	0 %	0 %
Marine	0 %	0 %	1 %	0 %	0 %

3.7. Induced Environment

The non-naturally occurring or induced environments include mechanical vibration and shocks, immersion in water, reduced air pressure, exposure to contaminants, and intentional or unintentional Electromagnetic Radiation (EMR). The ISS-S is expected to operate reliably in all of these environments..

4. Mobility Modes

Table 7 shows the mobility modes the ISS-S will be subjected to and the expected relative duration of time, by Mission Cycle, throughout its life in those various modes.

Table 7 – Expected Life Profile – Mobility Modes

Mobility Mode	Pre-deployment Training Cycle – Segment 1 (Low & Medium Intensity)	Pre-deployment Training Cycle – Segment 2 (Medium & High Intensity)	MSTF Deployment (Medium & High Intensity)	Reconstitution Cycle – Segment 1 (Not Employed)	Reconstitution Cycle – Segment 2 (Low Intensity)
Individual Dismounted	35%	50 %	50 %	0%	10%
Tactical Land Transport	15 %	30 %	40 %	0 %	5 %
Tactical Air Transport	0 %	9 %	9 %	0 %	0 %
Tactical Sea	0 %	0 %	1 %	0 %	0 %

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Transport					
Static (Storage)	50 %	11 %	0 %	100 %	85 %

5. Special Component Usage

5.1 Cable Connectors

The usage on the cable connectors is driven by the number of mating cycles (on/off connections) rather than the system operating time. Here it is assumed that cables will have to be disconnected from a device (in most cases) to change the batteries and in doffing the system. Although this may not be the case for all devices and connections, it would be the case for some, and for the purposes of determining the use on a connector, the worst case is used. Battery life is taken to be 8 hours as that is the minimum required by the technical performance specification. In Table 8 below, the expected number of mating cycles is shown by usage intensity.

Table 8 – Connector Usage Profile by Intensity Level for 18 Month Cycle

Intensity Level (Duration per 18 mo cycle)	Expected Cable Mating Cycles	Expected No. of Mating Cycles	
		Daily	For Period
High (28 weeks)	- every 8 hours for battery change - end of Battlefield Day for rest - 1 x misc doffing & donning of system per BD	5	980
Medium (18 weeks)	- every 8 hours for battery change - end of day for storage with CQ - 1 x misc doffing & donning of system per day	3	270
Low (19 weeks)	- every 8 hours for battery change - end of day for storage with CQ - 1 x misc doffing & donning of system per day	2.5	238
Not Employed (13 weeks)	None	0	0
Total Mating Cycles per 18 month Cycle			1,488
Total Mating Cycles for ISS-S Life (5 Cycles)			7,438

5.2 Tactical User Interface

This module will consist of a Touchscreen interface and possibly an integrated hardware Keyboard. The Touchscreen will be used to work the basic GUI for the various BMS functions and menu items.

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Should the ISS-S solution not provide a keyboard, text entry for messages, orders, etc will need to be entered via the Touchscreen interface. Thus, two usage modes are foreseen, one for the number of screen taps on the Touchscreen to operate the BMS functions and the other for the number of characters to be entered on either the Keyboard or the Touchscreen for text entry. Table 9 shows the expected number of Touchscreen taps by intensity level per 18 month cycle as well as the number of characters of text entry. For the text entry an expected number of characters is provided based on an average text entry message and order size.

Table 9 – Touchscreen & Text Entry Usage Profile by Intensity Level for 18 Month Cycle

Intensity Level (Duration per 18 mo cycle)	Expected No. of Touchscreen Taps		Expected No. of Text Entry Characters	
	Daily	For Period	Daily	For Period
High (28 weeks)	878	172,088	9,550	1,871,800
Medium (18 weeks)	319	28,735	3,473	312,545
Low (19 weeks)	160	15,165	1,736	164,955
Not Employed (13 weeks)	0	0	0	0
Total per 18 month Cycle		215,988		2,349,300
Total for ISS-S Life (5 Cycles)		1,079,940		11,746,500

5.3 Device On/Off Sequences

The devices of the ISS-S will be turned off and on throughout the anticipated BD activities depending on the operational situation and operating procedures. Different on/off sequence rates by device are anticipated, with Table 10 below showing the expected number of on/off sequences by major functional device of the ISS-S. It should be noted that the devices listed in the table are based on the major functional blocks of the core system. Depending on the design and system configuration some of these, such as the GPS, may be internal to one of the other devices, in which case the on/off sequences for the integrated device should be ignored.

5.4 External Data Storage Device Use

An External Data Storage Device will be used to transfer data to/from the computer through an interface port within the computer. To provide an estimate of the usage on this port, the number of times this facility is expected to be used is provided in Table 10 below.

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Table 10 – On/Off Sequences per Device by Intensity Level for 18 Month Cycle

Intensity Level (Duration per 18 mo cycle)	Radio No. On/Off Sequences	Audio Display No. On/Off Sequences	Computer No. On/Off Sequences	Tactical UI No. On/Off Sequences	GPS No. On/Off Sequences	External Data Storage Access Port Usage
High (28 weeks)	1,372	588	588	4,508	588	588
Medium (18 weeks)	229	98	98	753	98	98
Low (19 weeks)	121	52	52	397	52	52
Not Employed (13 weeks)	0	0	0	0	0	0
Total per 18 month Cycle	1,722	738	738	5,658	738	738
Total ISS-S Life (5 Cycles)	8,610	3,690	3,690	28,290	3,690	3,690

5.5 PTT Activation

The usage on the wired PTT device is driven by the number of activation cycles for voice transmission rather than the system operating time. In Table 11 below, the number of PTT activations is shown by usage intensity. The expected number of activations estimate is based on the voice transmission time of Table 2 divided by an average voice message transmission time of 10 seconds.

Table 11 – PTT Activations by Intensity Level for 18 Month Cycle

Intensity Level (Duration per 18 mo cycle)	Expected No. of PTT Activations for Voice Transmit	
	Daily	For Period
High (28 weeks)	346	67,816
Medium (18 weeks)	126	11,324
Low (19 weeks)	63	5,976
Not Employed (13 weeks)	0	0
Total per 18 month Cycle		85,116
Total for ISS-S Life (5 Cycles)		425,580

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6. Basic Assumptions for Usage Determination

In the determination of the usage measures and values provided above, certain assumptions and basic estimates are made. These are described below.

6.1 System Use Calculations

Although the mission profiles above are based on a typical infantry soldier, the activities and format of the BD as well as the intensities and durations of the deployment and training cycles will be very similar for a Commander. However, some expected usage measures of ISS-S components differ between the infantry soldier and that of the Commander, particularly for the communications devices. In these cases the Commander's usage measures are used as they are felt to represent the highest usage and thus, the worst case scenario.

6.2 Communications:

The on-air time to transmit or receive 1 bit of data is estimated at 0.005 ms.
Blue PA is configured to transmit every 5 seconds. Assume a 100 byte payload with all framing/packet overhead for 4 ms on-air transmit. Blue PA is distributed to every soldier in a platoon COI (29 recipients).

6.3 Text Entry:

Average text message size is 70 characters.
Average orders size is 4,040 characters.

6.4 On/Off Sequences:

In determining the number of on/off sequences, it is assumed the user is able to change batteries without the system shutting-down or rebooting, and without the loss of data.

6.4.1 Radio On/Off Sequences:

Assumed the radio is turned on/off at the start/end of each BD, 2 x miscellaneous on/off sequences, and turned off upon entry to a vehicle. Assume an entry/exit every half hour of tactical transportation time.

6.4.2 Audio Display On/Off Sequences:

Assumed on/off sequences are at the start/end of each BD, and 2 x miscellaneous on/off sequences. No specific activity driven on/off sequences are assumed.

6.4.3 Computer On/Off Sequences:

Assumed on/off sequences are at the start/end of each BD, and 2 x miscellaneous on/off sequences. No specific activity driven on/off sequences are assumed.

6.4.4 Tactical UI On/Off Sequences:

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As per computer plus turned on/off as required throughout night operations. Assume 2 per hour for approximately 10 hrs of darkness.

6.4.5 GPS On/Off Sequences:

As per computer usage.

6.4.6 Storage Device Use:

Assume 3 data exchanges per BD.

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APPENDIX 4 TO ANNEX CB TO VOLUME 2

FAILURE DEFINITION AND SCORING CRITERIA FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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HISTORY

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This Appendix gives instructions to the Contractor on how to define the degraded and unacceptable performance that constitutes a failure in the ISS-S, or any of its sub-systems, and enables the categorization of these failures for the determination of the required Reliability and Maintainability (R&M) quantitative parameters.

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1 Introduction

- 1.1 The ISS-S Failure Definition defines the degraded and unacceptable performance that constitutes a failure in the ISS-S, or any of its sub-systems, and enables the categorization of these failures for the determination of the required Reliability and Maintainability (R&M) quantitative parameters. This is based on the functions of the system as they pertain to the relevant hardware, firmware and software components.
- 1.2 The Scoring Criteria outlines the process for reviewing and categorizing test incidents or other data used in the evaluation of the ISS-S, with the end result being consistently scored data points on which to evaluate the ISS-S RAM performance.
- 1.3 This Failure Definition and Scoring Criteria (FDSC) follows the US Army FDSC approach as described in Appendix U to US Army TRADOC Pamphlet 71-9.
- 1.4 Failure type to the level of granularity required to define the quantitative Reliability requirements, along with chargeability of the failure event cause and Built-In Test (BIT) adequacy, is included in this Failure Definition and Scoring Criteria, while scoring of maintenance demand categories is not required. If the contractor deems it advantageous or recommends that more detail be provided as to criticality, environment, maintenance demand or supply demand criteria to support a particular RAM analysis or assessment, the contractor will be responsible to prepare and structure the required data classification system, upon agreement of the DND Technical Authority.

2 Scope

- 2.1 For the purposes of the ISS-S R&M requirements, and this failure definition and scoring criteria, all physical devices and functions that are provided as part of the ISS-S are included in the ISS-S R&M requirements, with the exception of the ISS Modular Load Carriage System (MLCS) Platform.
- 2.2 Items that are not part of the ISS-S are outside the scope of this failure definition and scoring criteria. Some of these items are Government Furnished Equipment and some items are provided by the Contractor but are not part of the ISS-S. These items are listed below for clarity:
 - 2.2.1 Those components or devices provided as Government Furnished Equipment (GFE), like the PRC-152 radio, the PRC-117F radio, the PRC-148 radio, the CF in-service DAGR and the CORAL-CR-C Thermal Imager. However, the interfaces, firmware, software, cabling and connections delivered by the Contractor as part of the ISS-S are included.

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- 2.2.2 The Combat Pouches, provided as GFE, described in Annex CB, Appendix 9, Conceptual Load.
- 2.2.3 The System Executive Planning Suite (SEP-Suite) installed and operated on the CF-31 laptop. However, any system management software installed and operated on the ISS-S computer (i.e. the Configuration Application Software) is considered part of the ISS-S and included.
- 2.2.4 Any faults or failures of the Battle Management System (BMS) software while operating on the CF-31 laptop.
- 2.3 The outline of this Failure Definition and Scoring Criteria is based on discussion of the ISS-S System Functions for R&M, Critical and Essential Functions, Failure Definition and Types, Chargeability, Built-In Test (BIT), Scoring Procedure, and Parameter Evaluation. Failures are categorized using the terminology of Critical Function Failure (CFF), Essential Function Failure (EFF) and Non-Essential Function Failure (NEFF).
- 3 ISS-S System Functions for R&M**
- 3.1 The functions of the ISS-S, in general terms, are listed below. From this list, those critical and essential to the soldier's capability and effectiveness on the battlefield can be identified. If the ISS-S includes any functionality that is not included in this section, it will be deemed to be a Non-Essential function.
- 3.2 **Voice Communications:** provides network enabled voice communications for the individual soldier to the fire team / assault group / section / platoon / company level and voice connectivity to the chain of command for the passage of information. It includes all the necessary hardware, firmware and software to provide voice communication with the exception of the functions that are part of the ISS-S Audio Display. This also includes the ability to provide a voice service with the LCSS voice network through connectivity with the in-service PRC-148, RPC-152 and PRC-117F radios. The functions include the following:
- 3.2.1 ISS-S radio and antenna;
- 3.2.2 Voice network function; and
- 3.2.3 Connectivity to the PRC-148, PRC-152 and PRC-117F radios and associated functions to use the radios for their intended purpose, as defined in the Technical Performance Specification (TPS).
- 3.3 **Data Communications:** provides network enabled data communications for the individual soldier to the fire team / assault group / section / platoon / company level for the passage of information. It includes all the necessary hardware, firmware and software to enable data information exchange throughout the chain of command. The functions include the following:
- 3.3.1 ISS-S radio and antenna; and
- 3.3.2 Data network function.

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- 3.4 **Battle Management System:** provides a Battle Management System (BMS) (all hardware, firmware and software including the necessary controls and inputs) with a number of sub-modules to provide improved Situational Awareness (SA) and Common Operating Picture (COP). The BMS includes:
- 3.4.1 BMS Computer;
 - 3.4.2 BMS Tactical User Interface;
 - 3.4.3 BMS Software, which includes:
 - 3.4.3.1 Graphical User Interface;
 - 3.4.3.2 Maps View;
 - 3.4.3.3 Blue PA;
 - 3.4.3.4 Navigation;
 - 3.4.3.5 Routes;
 - 3.4.3.6 Quick Symbols;
 - 3.4.3.7 Hand Drawings;
 - 3.4.3.8 Text Entry Capability;
 - 3.4.3.9 Data Exchange between ISS-S nodes;
 - 3.4.3.10 Data Exchange between the ISS-S and the BMS applications running on CF-31 laptops;
 - 3.4.3.11 Data Exchange between the ISS-S and the SEP-Suite running on CF-31 laptops;
 - 3.4.3.12 Configuration Application Software operating on ISS-S computers; and
 - 3.4.3.13 Operating system, firmware and software drivers running on the ISS-S.
- 3.5 **Position Generation and Navigation:** provides a geo-referencing capability for navigational orientation and position generation. This functionality includes:
- 3.5.1 Bearing Indicator;
 - 3.5.2 Integrated GPS; and
 - 3.5.3 Connectivity to the CF In-Service DAGR, if provided, and associated functions to use the DAGR for its intended purpose, as defined in the TPS.
- 3.6 **Laser Range Finding:** provides for a target acquisition and information exchange function with the in-service CORAL-CR-C Thermal Imager and Laser Range Finder that outputs data to the BMS. Includes connectivity to the CORAL-CR-C and associated functions to use the CORAL-CR-C for its intended purpose, as defined in the TPS.
- 3.7 **Data Infrastructure:** provides an integrated data infrastructure. It is composed of a data bus, cabling, connectors and the hardware, firmware and software required to distribute data as required by the system.
- 3.8 **Power Infrastructure:** provides a power infrastructure to operate the ISS-ES. It is composed of power sources (distributed or centralized) and the hardware, firmware and software required to distribute power as required by the system.

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3.9 **Audio Display:** provides auditory display and controls and provides hearing protection. Includes the following:

- 3.9.1 Headset, which includes speakers and microphones;
- 3.9.2 Hearing Protection;
- 3.9.3 Wired PTT; and
- 3.9.4 Wireless PTT, if provided.

3.10 **External Data Storage:** provides the capability of transferring data between ISS-S's and between ISS-S's and CF-31 laptops.

3.11 **Load Carriage:** provides for the carriage of the individual devices of the ISS-S via the MLCS ISS Pouch Set.

3.12 **Security:** provides for the prevention of unauthorized access to the system or its information while stored and in transit. Functions include:

- 3.12.1 Data In Transit Encryption;
- 3.12.2 Encryption Key Management;
- 3.12.3 EMCON; and
- 3.12.4 Local Zeroize.

4 **ISS-S Critical and Essential Functions**

4.1 A Critical Function is any function whose loss will greatly reduce the soldier's effectiveness on the battlefield and increase risk during operations. An Essential Function is any function whose loss will significantly reduce a soldier's capability during operations. These functions have been identified as the following:

4.2 **Critical Functions:** The provision of two-way voice communications (i.e. listen/speak) is a critical function, without which will greatly reduce the soldier's effectiveness on the battlefield and increase risk during operations. This entails the provision of those functions listed in Table 1 so as to allow the ISS-CS to provide individual, user-selectable voice COIs for voice exchanges between COI members with no reduction in capacity, coverage, mobility and movement, or other specified voice requirements in the TPS.

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Table 1 – ISS-S Critical Functions

Critical Function	Minimum Capability
Voice Communications	Voice communications for the individual soldier to the fire team / assault group / section / platoon / company level. Voice service with the LCSS voice network.
Audio Display Headset	Ability to listen to up to two radios concurrently
Audio Display Wired PTT	The ability to sequentially transmit on two attached radios
Power Infrastructure	Allow the operation of the devices required for Voice Communications and Audio Display

- 4.3 **Essential Functions:** Basic Situational Awareness (SA), specifically the map view, determination of the soldier's own position and the identification of friendly positions is an essential function, without which will significantly reduce a soldier's capability during operations. This requires those functions with the minimum capability listed in Table 2.

Table 2 – ISS-S Essential Functions

Essential Function	Minimum Capability
Data Communications	Provision of a data service (including both the hardware, firmware and software) to enable the BMS Blue PA with no reduction in capacity, coverage, data exchange or other specified data requirements in the TPS.
BMS Computer	Computing platform to compute Blue PA.

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Essential Function	Minimum Capability
BMS Tactical User Interface	Operable to a minimum functionality that allows access to the BMS sub-systems required for Blue PA
BMS Graphical User Interface (GUI)	Minimum functionality that allows use of the map view
BMS Maps View	View map with own and friendly positions identified with no reduction in the formats displayed or loss of any of the map functions as specified in the TPS
BMS Blue PA	Own and friendly positions identified with no reduction in the functional requirements as specified in the TPS
BMS Data Exchange between ISS-S nodes	Minimum BMS function to allow the transmission and reception of Blue PA on the Blue PA COI.
Integrated GPS	Minimum functionality consisting of either the integrated Commercial GPS or integrated military GPS receiver providing a 10 digit UTM grid reference with no degradation in accuracy and the necessary data interchange to facilitate BMS Blue PA geo-referencing
Power Infrastructure	Allow the operation of the devices required for Blue PA
Data Infrastructure	Allow the provision of a data service to allow for all ISS-S Essential Functions to operate

4.4 **Non-Essential Functions:** Any function that is provided as part of the ISS-S and is not required to be operational to provide a Critical or Essential function as identified in sections 4.2 and 4.3 is considered to be a Non-Essential Function.

5 Failure Definition and Types

5.1 The technical definition of a failure is an event, or inoperable state, in which an item is unable to perform within previously specified normal performance limits. Typically, it is any event that requires corrective maintenance to restore the system to its normal performance standard,

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which excludes preventive maintenance, but includes any corrective maintenance activities found necessary during preventive maintenance.

- 5.2 Normal performance limits are defined as operation within the limits specified by the manufacturer and to the DND specified performance requirements. Some minor, temporary degradation of performance as it pertains to quality of image and symbol, clarity of message, or response time is acceptable, as long as the image, symbol or message is legible, understandable and timely enough as to not affect the overall function. Any degradation of the accuracy of data is not acceptable.
- 5.3 For the purposes of this Failure Definition and Scoring Criteria, events are to be categorized as Critical Function Failures (CFFs), Essential Function Failures (EFFs), Non-Essential Function Failures (NEFFs), Non-Failures, or Other Events (not applicable to R&M) as defined below:
 - 5.3.1 **Critical Function Failure:** A Critical Function Failure (CFF) is an event that results in the loss or degradation below normal performance limits of any of the Critical Functions identified in section 4.2.
 - 5.3.2 **Essential Function Failure:** An Essential Function Failure (EFF) is an event that results in the loss or degradation below normal performance limits of any of the Essential Functions identified in section 4.3.
 - 5.3.3 **Non-Essential Function Failure:** A Non-Essential Function Failure (NEFF) is an event that results in the loss or degradation below normal performance limits of any function not defined as a Critical or Essential Function, or degradation of critical or essential functions not meeting the criteria of a CFF or EFF, or minor malfunctions related to either critical, essential or non-essential functions.
 - 5.3.4 **Non-Failure:**
 - 5.3.4.1 **Induced, Damage:** This type of Non-Failure is an event that would otherwise be classed a failure, but was caused by abuse, damage, use outside its specified operating environment or range, or was induced.
 - 5.3.4.2 **Routine Operating Procedures:** These are the normal, routine operating procedures performed by the operator and prescribed in the user manual. These are tasks the operator is expected to perform to remedy a malfunction that are not charged as reliability failures. These are constrained by the following:
 - 5.3.4.2.1 For any event that would be deemed a failure, should the function be restored within five (5) minutes by the operator, using prescribed, normal routine operating procedures, service restoration actions and any on-board repair parts, no failure will be charged. In this case, it will be deemed an operator correctable action and classified a Non-

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Failure – Routine Operating Procedures. No more than a total of one (1) such operator correctable action for the same malfunction per 154 operating hours (one week of Battlefield Days), as defined in Annex CB, Appendix 3, Mission Profile and Operational Mode Summary, section 3.1, are allowed. If exceeded, all further operator correctable action failure events will be scored on their own merits as a CFF, EFF or NEFF.

5.3.4.3 Preventive Maintenance, Checks and Services (PMCS): Actions of a preventive nature that are listed in, and performed in accordance with, applicable manuals. For any recorded event that is defined as a user maintenance task, such as system checks, inspections and cleaning, or preventive maintenance task within the ISS-S Maintenance Plan and documented procedures will be classified as a Non-Failure - PMCS.

5.3.5 **Other Events (not applicable to R&M):** Events falling in this category are not applicable to R&M and will not be included in the overall R&M evaluations of the system. These events include the following:

5.3.5.1 Pre-test / Post-test check. Events observed during pre-test inspection, or other pre-test activities. All events detected after the pre-test period will be scored on their own merits. Most post-test events will be scored on their own merits. Only those post-test checkout events not pertaining to system R&M would be classified in this category.

5.3.5.2 System (hardware, firmware or software) modification. This includes all maintenance actions involved in the installation of hardware kits, software modifications, or incorporation of redesigned components, firmware or software upgrades. If the replaced component was not functioning at the time of its replacement with the modification, the event will be scored on its own merit. Subsequent malfunctions of the modification will be scored on their own merit.

5.3.5.3 Test-peculiar. Malfunctions caused by equipment that is not part of the system being tested or people not acting as test players (operators or maintenance personnel). Engineering evaluations to analyze the cause of the malfunctions, as well as any malfunctions and/or maintenance efforts caused by the engineering evaluation are scored under this category.

5.3.5.4 Test-directed abuse. Events in which the tester directs the deliberate abuse of the system (e.g., a test to over-stress the performance limit of the system), whether called for by the test plan or not.

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5.3.5.5 Unrelated damage. This includes damage caused by natural phenomena (e.g., lightning, earthquakes) or other influences beyond control of the operational elements of the system.

5.3.5.6 Non-R&M Oriented. This includes those events which may be reported, but are not events used in R&M computations. Examples include suggested improvements, reports on inadequate test procedure, unusable or unacceptable replacement parts discovered prior to or during installation, test schedule delays, and suggested human factors improvements. Recommended changes to the system support package not related to a specific test event are also covered.

5.3.5.7 Performance Limitation. An event that reports inability of a system to meet specified performance limits even though no malfunction (reliability failure) has occurred.

5.4 Table 3 summarizes which functions, whose loss or degradation below normal performance limits, would be considered a CFF or EFF.

Table 3 – Critical and Essential Function Failures

ISS-S Functions	CFF	EFF	Notes on Failure Type
Voice Communications	X		CFF if voice communications within the ISS-S network and connectivity to LCSS network does not meet minimum capability for Critical Function
Data Communications		X	EFF if provision of the data service does not meet minimum capability for Essential Functions
Data Infrastructure		X	EFF if provision of the data service does not meet minimum capability for Essential Functions
Power Infrastructure	X	X	CFF if insufficient power for voice communications devices EFF if insufficient power to devices required for providing the Blue PA

ISS-S Functions	CFF	EFF	Notes on Failure Type
			function
BMS Computer		X	EFF if the functionality does not compute Blue PA information for generation or for display.
BMS Tactical User Interface		X	EFF if functionality does not allow access to the BMS sub-systems required to provide the Blue PA function
BMS Graphical User Interface		X	EFF if does not allow use of Maps View
BMS Maps View		X	EFF if provision of maps does not meet minimum capability for Essential Functions
BMS Blue PA		X	EFF if provision of Blue PA does not meet minimum capability for Essential Functions
BMS Data Exchange between ISS-S nodes		X	EFF if the functionality does not allow Blue PA information transmission or reception on the Blue PA COL.
Integrated GPS		X	EFF if provision of GPS function does not meet minimum capability for Essential Functions
Audio Display Headset	X		CFF if does not meet minimum capability for Critical Function
Audio Display Wired PTT	X		CFF if does not meet minimum capability for Critical Function

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- 5.5 If a failure upon investigation is determined to be a No Fault Found (NFF), the failure event is still classified as a CFF, EFF, or NEFF depending on the function that was lost or degraded. This occurs when an observed failure event cannot be traced to a failed part (or firmware/software code) and the symptom disappears.
- 5.6 If performance includes sporadic, intermittent or periodic operation that causes the loss of a function, or degradation below normal performance limits, the event is scored and classified as per the definitions and categories above.

6 Chargeability

- 6.1 Once an event has been classified as a failure, categorizing the cause of the failure event is required. The following cause categories are to be used:
- 6.1.1 Hardware. This category includes not only malfunctioning hardware but also personnel-related events that are attributable to the hardware's design. For example, if the device has an exposed ON/OFF switch that is easily tripped inadvertently, the unintended power disruption may be charged to hardware, and not to the operator.
- 6.1.2 Firmware. This category includes all events attributable to the firmware of the system under test. Personnel-related incidents that are rooted in the firmware's design should be charged to firmware and not the operator. Care should be taken to distinguish between genuine firmware reliability problems and simply improperly designed firmware incapable at any time of executing a given task.
- 6.1.3 Software. This category includes all events attributable to the software of the system under test. Personnel-related incidents that are rooted in the software's design should be charged to software and not the operator. Care should be taken to distinguish between genuine software reliability problems and simply improperly designed software incapable at any time of executing a given task.
- 6.1.4 Operator. The Operator category includes all events attributable to operator error that were not rooted in hardware/firmware/software design problems, inadequate training or poorly written manuals.
- 6.1.5 Technical Documentation/Manuals. This category includes all events that are attributable to misleading, incorrect, or nonexistent, but needed information in the manuals. Poorly written manuals may cause operator or maintenance personnel errors; in these cases, manuals should be charged.
- 6.1.6 Maintenance Personnel. This category includes all events attributable to maintenance personnel errors that were not rooted in hardware/firmware/software design problems or poorly written manuals.

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- 6.1.7 **Training.** This includes any event that can be directly attributed to inadequacies in training due to omitted or incorrect training procedures or inappropriate training material, such as information above the general level of understanding of the target audience.
- 6.1.8 **Support Equipment.** These are events caused by the prescribed Special Tools and Test Equipment (STTE), common tools, support software and any auxiliary power sources.
- 6.1.9 **Built-In Test (BIT).** These are events attributable to the built-in-test, if provided.

7 Built-In Test (BIT)

- 7.1 If the ISS-S is equipped with BIT functionality for the detection, diagnosis and isolation of system faults and failures, its performance is to be recorded and adequacy determined. For the purposes of this Failure Definition and Scoring Criteria, all CFF, EFF, NEFF and Non-Failure - Routine Operating Procedures are to be further categorized by the applicable BIT categories defined below:
- 7.1.1 **Fault Detection** – a process that discovers the existence of a fault. Record if the BIT successfully detected a fault or if it failed to detect a fault it was designed to detect. If it was not designed to detect the fault, record BIT Not Applicable.
- 7.1.2 **Fault Isolation** – where a fault is detected, a process that identifies the replaceable unit where the fault may be located. Record if the BIT correctly (or not) isolated the faulty LRU. An isolation failure occurs when the BIT, having successfully detected the fault, does not isolate the fault to the single, faulty LRU.
- 7.1.3 **False Alarm** – any indication of a non-existent fault given by the BIT. False alarms are faults, where upon investigation, it is found the fault cannot be confirmed. Record if the BIT indicated a fault when none could be found as verified as a NFF or the fault could not be duplicated.

8 Scoring Procedure

The scoring procedure for each event is outlined in a questionnaire format in the paragraphs below. A process flow chart depicting this procedure is shown in Figure 1.

- 8.1 Select the appropriate category below and proceed as directed:

- 8.1.1 Event is an “Other Events (not applicable to R&M)”. Proceed to para 8.2.
- 8.1.2 Event is a “Non-Failure”. Proceed to para 8.3.
- 8.1.3 Event is a “Failure”. Proceed to para 8.4

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8.2 Other Events (not applicable to R&M). Identify the event as one of the following, and then Stop:

- 8.2.1 Pre-test / Post-test check
- 8.2.2 System (hardware, firmware or software) modification
- 8.2.3 Test-peculiar
- 8.2.4 Test-directed abuse
- 8.2.5 Unrelated damage
- 8.2.6 Non-R&M Oriented
- 8.2.7 Performance Limitation

8.3 Non-Failure. Assign the failure event to one of the following non-failure categories. If Induced, Damage or Preventive Maintenance, Checks and Services (PMCS) then Stop. If Routine Operating Procedures proceed to paragraph 8.6 BIT Adequacy:

- 8.3.1 Induced, Damage
- 8.3.2 Preventive Maintenance, Checks and Services (PMCS)
- 8.3.3 Routine Operating Procedures

8.4 Failure. Assign the failure event to one of the following failure categories and then proceed to paragraph 8.5 Chargeability:

- 8.4.1 CFF
- 8.4.2 EFF
- 8.4.3 NEFF

8.5 Chargeability. Identify the cause of the failure event, and then proceed to paragraph 8.6 BIT Adequacy:

- 8.5.1 Hardware.
- 8.5.2 Firmware.
- 8.5.3 Software.
- 8.5.4 Operator.
- 8.5.5 Technical Documentation/Manuals.
- 8.5.6 Maintenance Personnel.
- 8.5.7 Training.
- 8.5.8 Support Equipment
- 8.5.9 BIT
- 8.5.10 Unknown

8.6 BIT Adequacy. If the ISS-S is equipped with BIT, provide the following BIT performance information, then Stop:

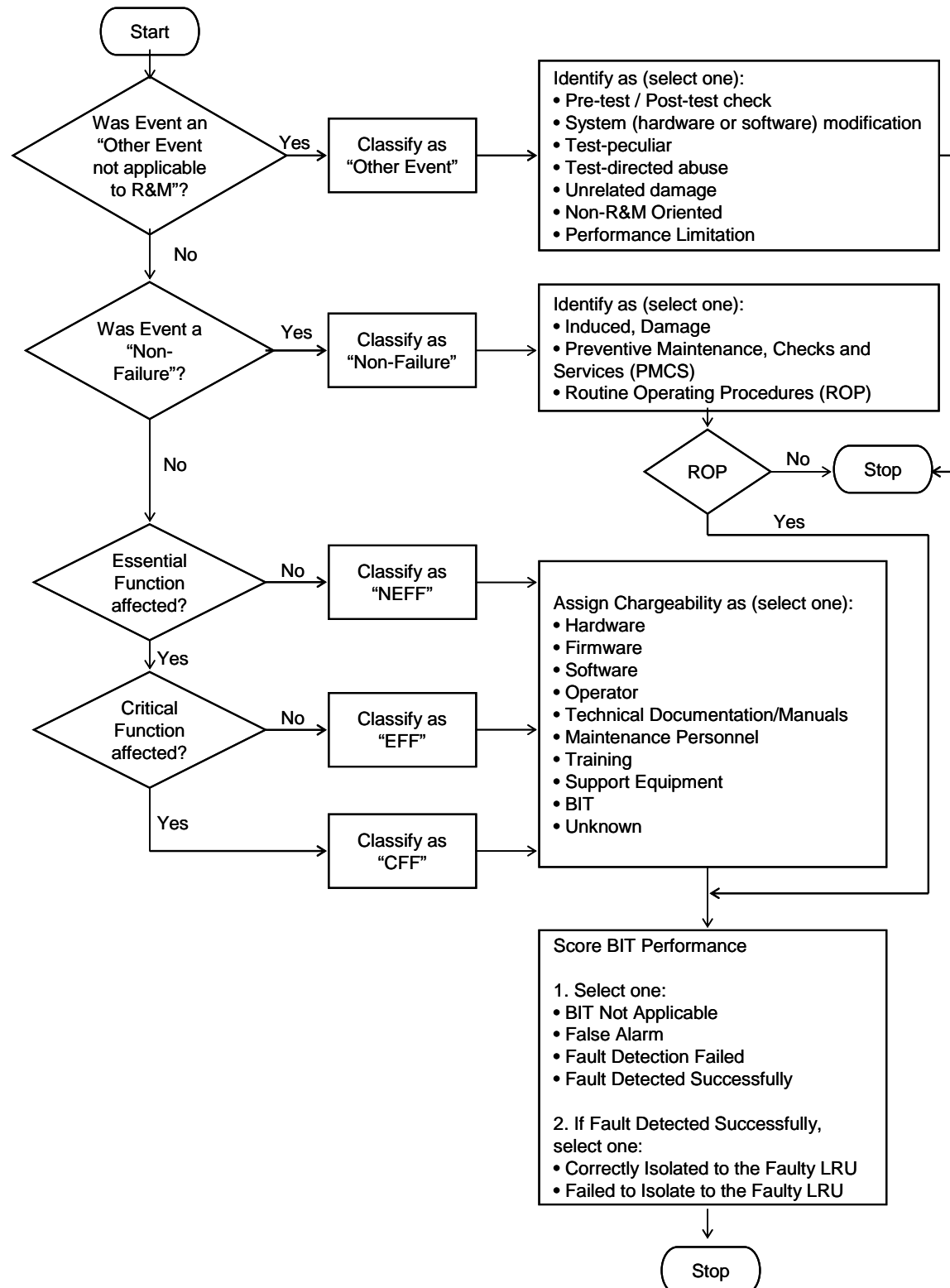
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- 8.6.1 BIT Not Applicable
- 8.6.2 False Alarm
- 8.6.3 Fault Detection Failed
- 8.6.4 Fault Detected Successfully
 - 8.6.4.1 Correctly Isolated to the Faulty LRU
 - 8.6.4.2 Failed to Isolate to the Faulty LRU

9 Parameter Evaluation

- 9.1 Data classified in accordance with the definitions provided above will be used in the determination of the following quantitative R&M requirements:
- 9.1.1 **Mean Time Between Critical Failure (MTBCF):** defined as the total number of operating hours divided by the total number of Critical Function Failures (CFFs). For MTBCF, use CFFs only.
 - 9.1.2 **Mean Time Between Failure (MTBF):** defined as the total number of operating hours divided by the total number of Critical Function Failures (CFFs), Essential Function Failures (EFFs), and Non-Essential Function Failures (NEFFs). For MTBF, use CFFs, EFFs and NEFFs.
 - 9.1.3 **BIT Fault Detection: Fraction of Faults Detected (FFD)** is defined as the total number of faults successfully detected by the BIT (derived from the number of events scored in paragraph 8.6.4 Fault Detected Successfully) divided by the total number of detectable faults (derived from the addition of the number of events scored in paragraphs 8.6.4 Fault Detected Successfully and 8.6.3 Fault Detection Failed).
 - 9.1.4 **BIT Fault Isolation:** is the probability that any detected fault can be isolated by the BIT to the single, faulty LRU and is measured as **Fraction of Faults Isolated (FFI)** defined as the total number of correctly isolated faults detected by the BIT (derived from the number of events scored in paragraph 8.6.4.1 Correctly Isolated to the Faulty LRU) divided by the total number of successfully detected faults (derived from the number of events scored in paragraph 8.6.4 Fault Detected Successfully).
 - 9.1.5 **BIT False Alarm: False Alarm Rate** is defined as the total number of BIT false alarms (derived from the number of events scored in paragraph 8.6.2 False Alarm) divided by the total number of detected faults (derived from the addition of the number of events scored in paragraphs 8.6.4 Fault Detected Successfully and 8.6.2 False Alarm).

Figure 1 – Scoring Procedure Process Flow



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APPENDIX 5 TO ANNEX CB TO VOLUME 2

AUDIO DISPLAY TEST PROCEDURES REQUIREMENTS FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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HISTORY

Revision	Date	Description

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This Appendix gives instructions to the Contractor on how Speech Intelligibility, Sound Localization and Sound Identification are to be tested to verify that the ISS-S complies to the ISS-S Audio Display relevant TPS requirements.

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1. Introduction

1.1 This appendix presents the verification criteria and high level procedures to be followed for the ISS-S Audio Display requirements verification. This appendix is to be used as a baseline for the detailed test procedures developed by the Contractor.

1.2 The high level procedures described in this appendix are based on expert advice from DRDC Toronto scientists specializing in this field.

2. Overall Concept

2.1 Sections 3 to 5 describe the test procedure parameters that the Contractor must include in his verification tests and procedures, that will be proposed to DND, to verify compliance to the relevant TPS requirements. This document is referenced by the relevant TPS requirements.

3. Speech Intelligibility

3.1 This test must be performed by the Contractor. Canada will observe the test.

3.2 Listeners:

3.2.1 The test must be run using at least fifteen (15) different listeners.

3.2.2 Listeners must be a mix of males and females in the age bracket of eighteen (18) to fifty-five (55) years old.

3.2.3 Listeners must not have a medical history of ear problems and must have a pure-tone threshold or Pure Tone Average (PTA) no greater than 20 dB HL (i.e. no more than mild hearing loss) at 0.5, 1, 2, and 4 kHz; interaural level difference must be no greater than 15 dB at each of the four frequencies.

3.3 Test Protocol:

3.3.1 The test must be run in accordance with Acoustical Society of America (ASA) S3.2, American National Standard Method for Measuring the Intelligibility of Speech over Communication Systems.

3.3.2 The Modified Rhyme Test (MRT) must be used, as per the requirement.

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3.3.3 The Contractor must select at least four (4) male talkers and one (1) female talker to perform the test.

3.3.4 For each talker, the Contractor must randomly select a word from each of the fifty (50) MRT six-word lists provided in Table 2 of ASA S3.2 2009 to build a list of fifty (50) words for each talker.

3.3.5 Each talker must present their list of fifty (50) words to at least three (3) listeners, hence each listener will be presented with at least fifty (50) words to identify.

3.3.6 All listeners can participate in the test at the same time, but they must not be able to view and copy other listeners' responses.

3.3.7 The Contractor can record the talkers' MRT words and use the recorded MRT words to perform the test.

3.3.7.1 If recorded MRT words are used, the recording must include the talker's voice going through the ISS-S Audio Display microphone while worn in its operational position. The recordings must then be played back to the listeners by sending the voice signal to an ISS-CS radio and transmitting it over-the-air to the listeners' ISS-CS radio and ISS-S Audio Display, which must be worn in their operational position.

3.3.7.2 If a recorded list is not used, the talker must wear the ISS-CS radio and the ISS-S Audio Display and speak into the ISS-S Audio Display microphone while it is worn in its operational position. The ISS-CS radio must transmit the recorded voice over-the-air to the listeners' ISS-CS radio and ISS-S Audio Display, which are worn in their operational position.

3.3.8 The Contractor can use the environment of his choice (e.g. classroom, anechoic chamber, outdoors).

3.3.9 The listeners must not receive any visual or auditory cues during the test except for the cues identified in ASA S3.2 section 6.3.

3.3.10 The talker/recording must transmit each stimulus word to the listeners, and the listeners must attempt to identify the correct word.

3.3.11 The Contractor is allowed to provide guidance to the participants on how to configure the ISS-S Audio Display and ISS Communications Suite in preparation to running the test.

3.3.12 The Contractor is allowed to run practice trials with the participants. The practice trials are intended to familiarize the participants with the test procedure and to ensure that the instructions and the test steps have been understood. The practice trials must be run using randomly selected stimulus words, ensuring that the word lists used for the practice trials are different from the word lists used for the test.

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3.3.13 During the test, the Contractor must record the number of correctly and incorrectly identified words.

3.4 Test Results Analysis:

3.4.1 The requirement is met if the listeners achieved an overall score of ninety one percent (91%) (as per MIL-STD-1472F section 5.3.14) of correct responses; after having factored-in the correction for possible guessing as per ASA S3.2 section 8.2.

4. Sound Localization

4.1 This test must be performed by the Contractor. Canada will observe the test.

4.2 Participants:

4.2.1 The test must be run using at least sixteen (16) different participants provided by the Contractor.

4.2.2 Participants must be a mix of males and females in the age bracket of eighteen (18) to fifty-five (55) years old.

4.2.3 Participants must not have a medical history of ear problems and must have a pure-tone threshold or Pure Tone Average (PTA) no greater than 20 dB HL (i.e. no more than mild hearing loss) at 0.5, 1, 2, and 4 kHz; interaural level difference must be no greater than 15 dB at each of the four frequencies.

4.3 Test Protocol:

4.3.1 Participants must be tested individually while seated in the centre of a circular array of twelve (12) loudspeakers.

4.3.2 The loudspeakers must be positioned at the following angles while the participant is facing 0°: 15°, 45°, 75°, 105°, 135°, 165°, 195° (-165°), 225° (-135°), 255° (-105°), 285° (-75°), 315° (-45°) and 345° (-15°). The speakers should all be at the same distance from the participant's centre head position and at the approximate height of the participant's ears.

4.3.3 The stimulus will be a 300-ms broadband white noise with a 50-ms rise/decay time to minimize onset transients. The stimulus will be provided by Canada as part of package DSSPM-10-TBD. The Contractor must present the stimulus to the participants at 75 dB SPL or less.

4.3.4 The participant must be sitting squarely, focusing at a visual target straight-ahead (at 0°). The participant must not move his head during the test.

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4.3.5 Following each stimulus presentation, the participant is required to identify the loudspeaker that emitted the stimulus.

4.3.6 Each test must comprise of at least five (5) random presentations of the stimulus through each of the twelve (12) loudspeakers, for a total of sixty (60) trials per participant.

4.3.7 The Contractor is allowed to run practice trials with each participant. The practice trials are intended to familiarize the participants with a spatial sense of the loudspeaker array to ensure that instructions and test steps have been understood. The Contractor is allowed to provide feedback to the participant during the practice trials.

4.3.8 The Contractor must run two tests per participant, one test with the ears non-occluded, and one test while the participant is wearing the Contractor's ISS-S.

4.3.9 During the first test, the Contractor must record the number of correctly and incorrectly localized sounds with the participants having non-occluded hearing (not wearing the Contractor's ISS-S). A correctly localized sound is a sound that is within plus or minus forty-five degree ($\pm 45^\circ$) of the loudspeaker position.

4.3.10 During the second test, the Contractor must record the number of correctly and incorrectly localized sounds while the participant is wearing the Contractor's ISS-S with the head uncovered. A correctly localized sound is a sound that is localized to within plus or minus forty-five degree $\pm 45^\circ$ of the loudspeaker position.

4.4 Test Results Analysis:

4.4.1 The requirement is met if the percent correctly localized sounds while wearing the Contractor's ISS-S is within fifteen (15) percent of the correctly localized sounds with the ears non-occluded.

5. Sound Identification

5.1 This test must be performed by the Contractor. Canada will observe the test.

5.2 Participants:

5.2.1 The test must be run using at least sixteen (16) different participants, provided by the Contractor.

5.2.2 Participants must be a mix of males and females in the age bracket of eighteen (18) to fifty-five (55) years old.

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5.2.3 Participants must not have a medical history of ear problems and must have a pure-tone threshold or Pure Tone Average (PTA) no greater than 20 dB HL (i.e. no more than mild hearing loss) at 0.5, 1, 2, and 4 kHz; interaural level difference must be no greater than 15 dB at each of the four frequencies.

5.3 Test Protocol:

5.3.1 Participants must be tested individually while seated in front of a loudspeaker. The loudspeaker should be positioned directly in front of the participant and at the approximate height of the ears.

5.3.2 The stimulus will be provided by Canada as specified in Volume 2, Annex CE para 1.3 DSSPM related documentation. The stimulus consists of ten (10) operationally relevant sounds categorized under five categories, with two sounds per category, as follows:

1. Environment (rustling leaves, snapping twig),
2. Voice (English, Foreign),
3. Equipment (cocking of a C7 rifle, changing a C7 magazine),
4. Vehicle (LAV III, Leopard II),
5. Gun shot (Carl Gustav, C7).

5.3.3 A test must be performed by playing the ten (10) operationally relevant sound stimulus three times to each participant in a random fashion through the loudspeaker for a total of thirty (30) sounds per participant.

5.3.4 The Contractor must present each stimulus at 85 dB SPL at the participant's ears. The participant must be sitting squarely, focusing at a visual target straight-ahead (at 0°). The participant must not move his head during the test.

5.3.5 Following each stimulus presentation, the participant must identify the sound stimulus by responding to a two part question: The participant must select one (1) of five (5) categories representing the sound stimulus and then he must select one (1) of the two (2) sounds within the category.

5.3.6 Prior to the commencement of the test, the ten (10) stimuli should be presented to the participants in order to familiarize them to the sounds. The Contractor is allowed to provide feedback to the participants during the practice trial.

5.3.7 For the first test, the Contractor must record the number of correctly and incorrectly identified sounds with participants having unencumbered hearing (i.e. not wearing the Contractor's ISS-S). A correctly identified sound is a sound that the participant correctly identified out of the ten (10) operationally relevant sounds.

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5.3.8 For the second test, the Contractor must record the number of correctly and incorrectly identified sounds with participants wearing the Contractor's ISS-S. A correctly identified sound is a sound that the participant correctly identified out of the ten (10) operationally relevant sounds.

5.4 Test Results Analysis:

5.4.1 The requirement is met if the percent correctly identified sounds while wearing the Contractor's ISS-S is within five (5) percent of the correctly identified sounds with the ears non-occluded.

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APPENDIX 6 TO ANNEX CB TO VOLUME 2

SYSTEM ACCEPTANCE TEST – SCENARIO INSTRUCTIONS FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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HISTORY

Revision	Date	Description

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1 Introduction

The purpose of this document is to provide an understanding of the scope and approach that will be required for the ISSP System Acceptance Test (SAT), and to provide direction to the Contractor who is responsible to implement the SAT in accordance with the Contract requirements.

The SAT will occur at the end of the sub-system/component qualification test phase. The SAT will be the final ISSP qualification activity, following sub-system and component level qualification testing, as shown in Figure 1.

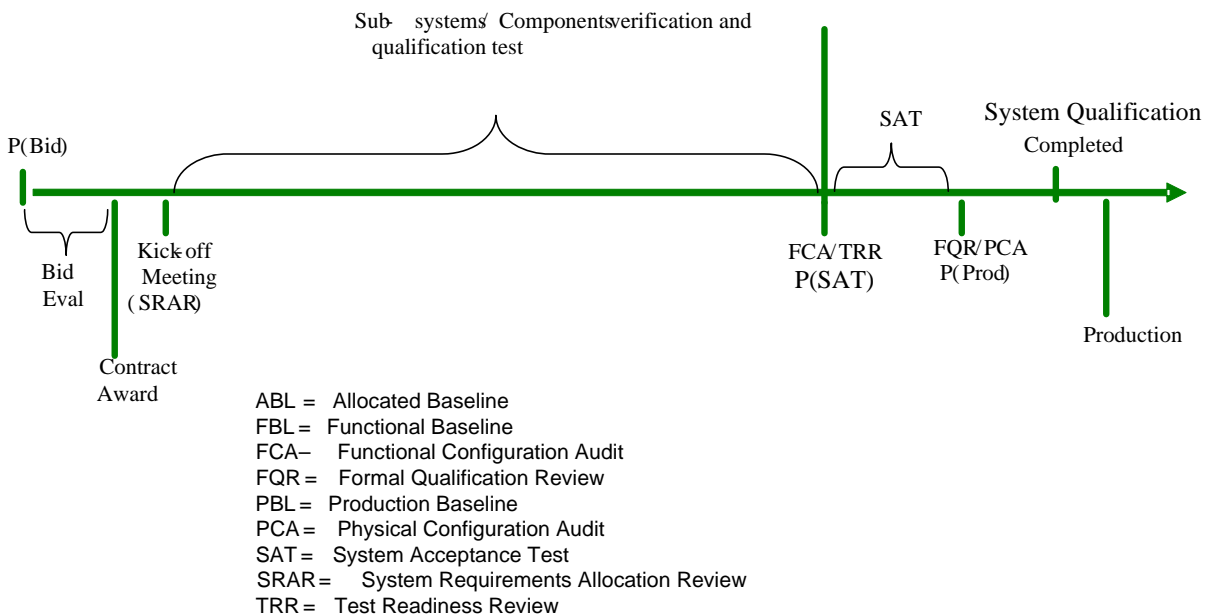


Figure 1: ISSP Major Timelines and Milestones

The contractor is required to prepare the System Acceptance Test Plan (SATP) and System Acceptance Test Description and Procedures (SATDP) documents using the information and direction provided herein, as further described in the ISSP Acquisition SOW, Volume 2, Annex CC, Appendix 2 (DIDs). Figure 2 shows the relationship between this document, the SATP and the SATDP.

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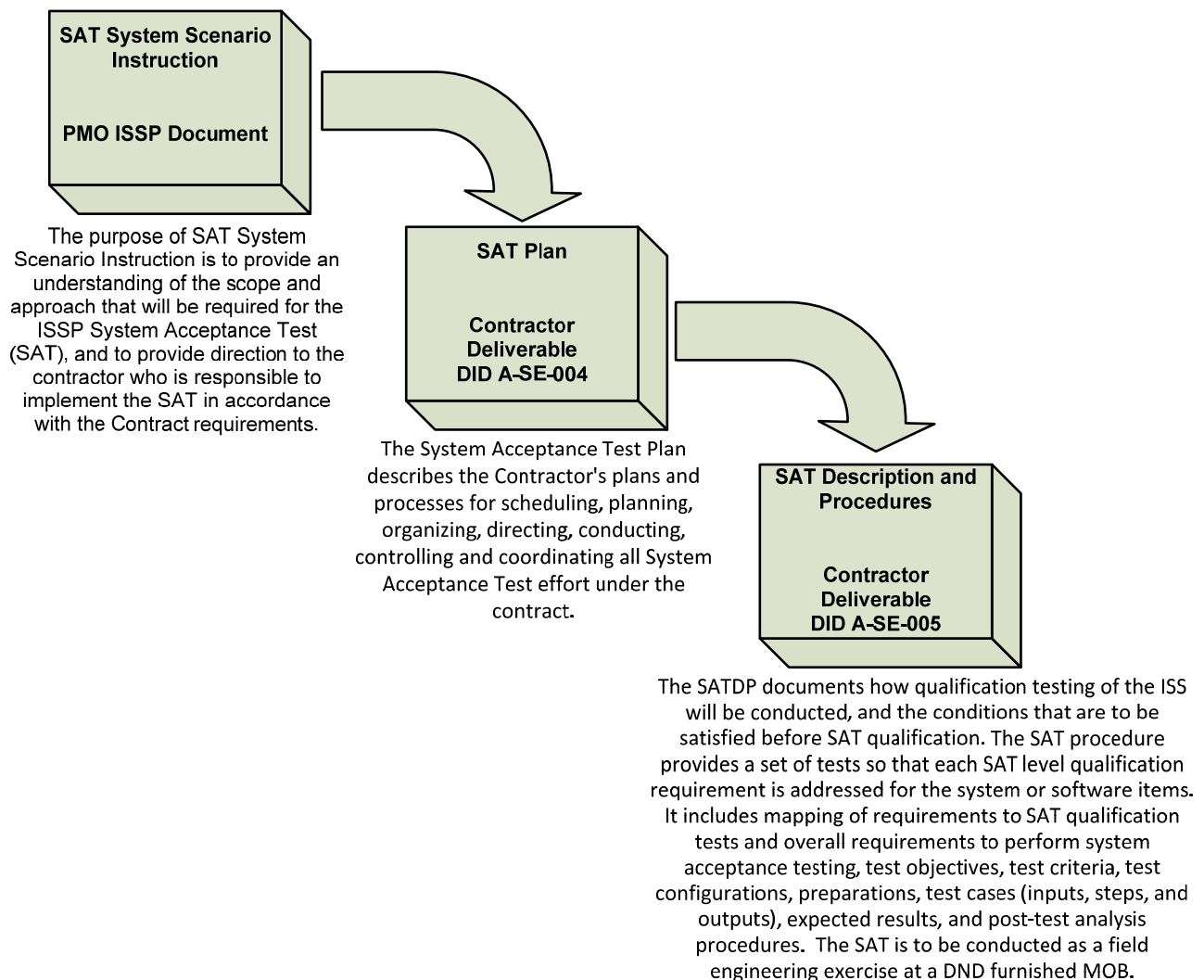


Figure 2: Relationship Between the SAT, SATP and SATDP

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2 SAT Requirement Criteria

The ISSP Technical Performance Specification (TPS) shall be used to determine which ISSP requirements will be tested at the SAT. The majority of ISSP requirements will be qualified during sub-system and component level testing. Requirements that will be qualified at the SAT meet one or several of the following criteria:

- Scale: Requirements that involve interaction between multiple instances of ISS-S;
- Range: Requirements that involve physical separation of multiple instances of ISS-S over specified distances and terrain features;
- Mobility: Requirements that involve one or several instances of the ISS-S that are moving within a specified geographical area, at a specified range of speeds;
- Topology: Requirements that involve specified network topologies or functionality including network relays and range extension and network reconfiguration and adaptation;
- Performance: Requirements that involve concurrent voice and data exchanges between ISS-S instances during which network capacity and performance are evaluated; and
- System Management: Requirements that relate to System Management, and that necessitate the use of a deployed ISS-S network to verify. This includes (but is not limited to):
 - System planning (deliberate and hasty);
 - System configuration and rapid re-configuration;
 - System monitoring; and
 - System security.

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3 Methodology

The SAT will use a core Master Event List (MEL) that contains the system events necessary to stimulate the system under test.

The operational events provide a high level link to operational and tactical scenarios, and concepts of employment. Information exchange events provide the description of the type of information being exchanged, the sources and recipients, and associated Communities of Interest (COI).

Three different ISSP network configurations will be used, to ensure that the various range, mobility, and operating conditions are created to meet the SAT requirements. The transitions between each network configuration are part of the MEL, as they provide the opportunity to test system management and network requirements.

System/Technical Events contain Test Scripts that describe the detailed technical events, system configuration and system actions to be executed. The Test Scripts are intended to be reused throughout the SAT, and combined in order to create a layering of network loads and system events. The reuse of test scripts provides the advantage of having a stable, consistent set of system level test parameters for each type of system event (e.g. section level voice communications, or platoon level positional awareness exchanges) that provide predictable and measurable behaviour and performance.

Figure 3 illustrates the relationship between the overall MEL, operational events, and the embedded system events and test scripts. It also describes the relationship between this information and the SAT System Scenario Description, the SATP and the SATDP.

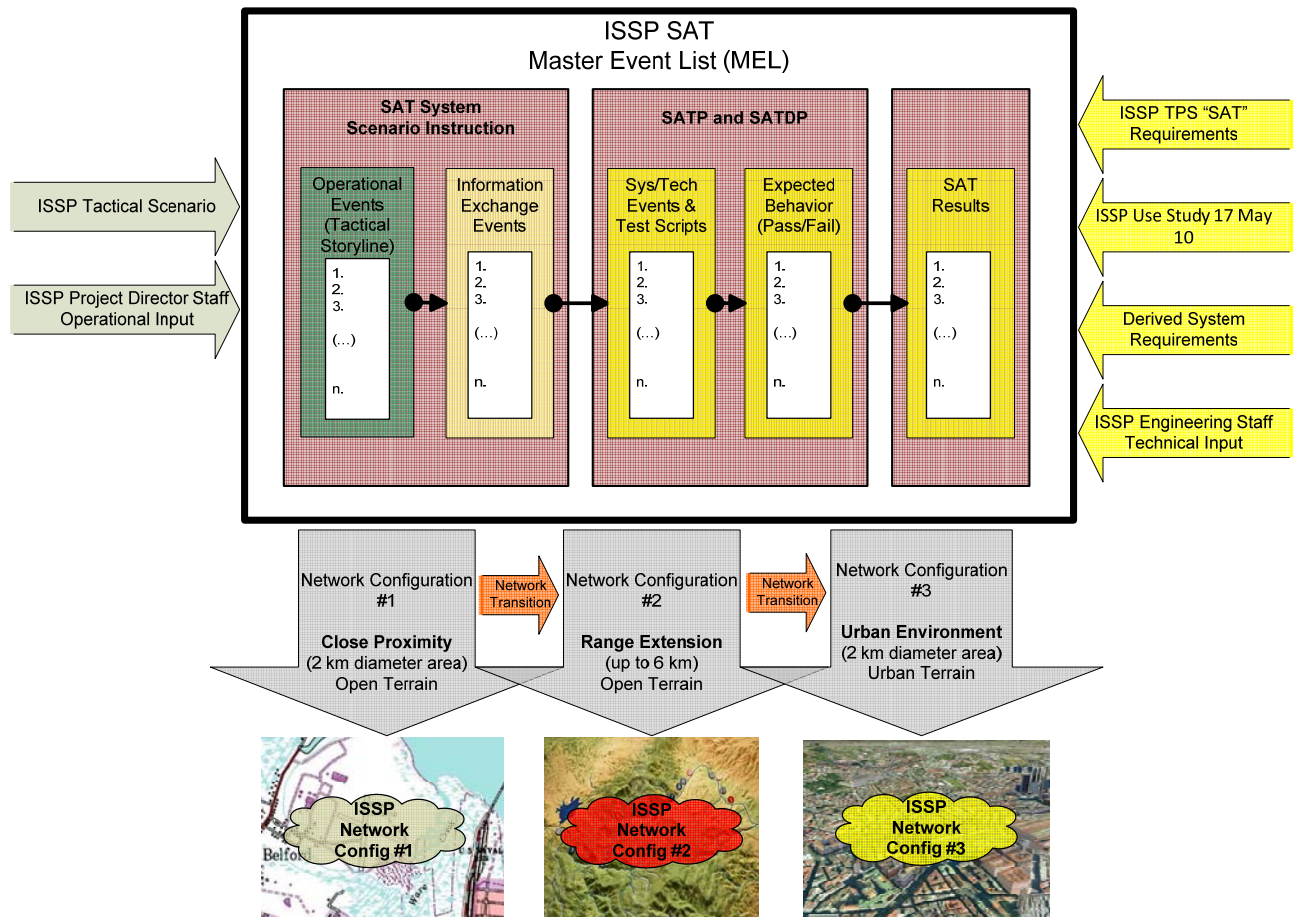


Figure 3: Conceptual Construct of the System Acceptance Test

3.1 SAT Network Configurations

3.1.1 Close Proximity

The Close Proximity network configuration will require the ISS-S instances under test to be dispersed within a 2 kilometre diameter area. The specific COI, network topology, ISS-S instance locations and mobility parameters associated with each instance will be identified in the MEL and in the Test Scripts.

The terrain features for this network configuration shall be “*open terrain*”. An indicative example of this type of terrain may be found in the CFB Petawawa training area at the following coordinates: 45°57'8.23"N 77°20'16.13"W.

3.1.2 Range Extension

The Range Extension network configuration will require the ISS-S instances under test to be dispersed across distances of up to 6 kilometres. The specific COI, network topology, ISS-S

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instance locations and mobility parameters associated with each instance will be identified in the MEL and in the Test Scripts.

The terrain features for this network configuration shall be “*open terrain*”. An indicative example of this type of terrain may be found in the CFB Petawawa training area, as defined by the corridor of terrain between the following two coordinates: 45°58'57.67"N 77°21'43.30"W and 45°56'3.67"N 77°19'19.48"W.

3.1.3 Urban Environment

The Urban Environment network configuration will require the ISS-S instances under test to be dispersed within an area with a 2 kilometre diameter. The specific COI, network topology, ISS-S instance locations and mobility parameters associated with each instance will be identified in the MEL and in the Test Scripts.

The terrain features for this network configuration shall be “*urban environment*”. It is expected that the ISS-S will operate in a mid-size urban environment with a mix of 2 and 3 story buildings.

3.2 SAT ISS-S Node Configuration

32 ISS-S instances will be used during the SAT, with 3 standard ISS-S configurations:

1. Platoon Commander Node (Pl Comd Node)
2. Section Commander / Section 2IC (Sect Comd/2IC)
3. Section Member (Sect Mbr)

The configurations above apply to COI, network, BMS, security and other configurable system settings of the ISS-S, and do not imply more than one ISS-S system variant will be used. The detailed description of these configurations will be developed by the Contractor.

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The intent is to configure the ISS-S instances (nodes) prior to the start of the SAT as described in Table 1. Selected nodes may be reconfigured during the SAT conduct, as described in the Test Scripts.

SAT Node No.	Call Sign	Role	Configuration
1	HQ1	Pl HQ	Pl Comd Node
2	S1A	1 Sect Comd	Sect Comd/2IC
3	S1B	1 Sect 2IC	Sect Comd/2IC
4	S1C	1 Sect Mbr	Sect Mbr
5	S1D	1 Sect Mbr	Sect Mbr
6	S1E	1 Sect Mbr	Sect Mbr
7	S1F	1 Sect Mbr	Sect Mbr
8	S1G	1 Sect Mbr	Sect Mbr
9	S2A	2 Sect Comd	Sect Comd/2IC
10	S2B	2 Sect 2IC	Sect Comd/2IC
11	S2C	2 Sect Mbr	Sect Mbr
12	S2D	2 Sect Mbr	Sect Mbr
13	S2E	2 Sect Mbr	Sect Mbr
14	S2F	2 Sect Mbr	Sect Mbr
15	S2G	2 Sect Mbr	Sect Mbr
16	S3A	3 Sect Comd	Sect Comd/2IC
17	S3B	3 Sect 2IC	Sect Comd/2IC
18	S3C	3 Sect Mbr	Sect Mbr
19	S3D	3 Sect Mbr	Sect Mbr
20	S3E	3 Sect Mbr	Sect Mbr
21	S3F	3 Sect Mbr	Sect Mbr
22	S3G	3 Sect Mbr	Sect Mbr
23	S4A	4 Sect Comd	Sect Comd/2IC
24	S4B	4 Sect 2IC	Sect Comd/2IC
25	S4C	4 Sect Mbr	Sect Mbr
26	S4D	4 Sect Mbr	Sect Mbr
27	S4E	4 Sect Mbr	Sect Mbr
28	S4F	4 Sect Mbr	Sect Mbr
29	S4G	4 Sect Mbr	Sect Mbr
30	MEDIC1	Pl Medic	Pl Comd Node
31	FIRES1	Att FOO	Pl Comd Node
32	MORTAR1	Att Mortar	Pl Comd Node

Table 1: Initial Configuration of ISS-S Nodes

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3.3 Community of Interest Description

A general Community of Interest (COI) allocation is described in Table 2. This depicts a typical way of managing COI membership at the Platoon and Section levels in an Infantry Company.

General COI Description and Composition

COI Name	COI Description	COI Standard Composition
PI (Voice)	All informed voice communication.	All PI Comd Nodes All Section Comd/2IC Nodes
PI (Data)	General purpose data exchanges relating to orders, COP, messaging, file exchanges, sensor data, etc.	All PI Comd Nodes All Section Comd/2IC Nodes
PI (PA)	All informed Positional Updates sent on a frequent, ongoing basis.	All PI Mbr
Sect (Voice)	All informed voice communication.	All Sect Comd/2IC Nodes (in the applicable section) All Sect Mbr (in the applicable section)
Sect (Data)	General purpose data exchanges relating to orders, COP, messaging, file exchanges, sensor data, etc.	All Sect Comd/2IC Nodes (in the applicable section) All Sect Mbr (in the applicable section)

Table 2: General Community of Interest (COI) Allocation

The specific COI and node allocation for the SAT is described in Table 3. Note that this is a baseline, start-state allocation, and that some COI and node membership changes will be required during the SAT as part of the testing. These changes will be specified in the Test Scripts once developed by the Contractor.

SAT Specific COI Names and Node Membership

SAT COI Name	COI Membership Node (Call Sign)
PI (Voice)	1 (HQ 1), 2 (S1A), 3 (S1B), 9 (S2A), 10 (S2B), 16 (S3A), 17 (S3B), 23 (S4A), 24 (S4B), 30 (MEDIC1), 31 (FIRES1), 32 (MORTAR1)
PI (Data)	1 (HQ 1), 2 (S1A), 3 (S1B), 9 (S2A), 10 (S2B), 16 (S3A), 17 (S3B), 23 (S4A), 24 (S4B), 30 (MEDIC1), 31 (FIRES1), 32 (MORTAR1)
PI (PA)	1 (HQ 1), 2 (S1A), 3 (S1B), 4 (S1C), 5 (S1D), 6 (S1E), 7 (S1F), 8 (S1G), 9 (S2A), 10 (S2B), 11 (S2C), 12 (S2D), 13 (S2E), 14 (S2F), 15 (S2G), 16 (S3A), 17 (S3B), 18 (S3C),

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SAT Specific COI Names and Node Membership

SAT COI Name	COI Membership Node (Call Sign)
	19 (S3D), 20 (S3E), 21 (S3F), 22 (S3G), 23 (S4A), 24 (S4B), 25 (S4C), 26 (S4D), 27 (S4E), 28 (S4F), 29 (S4G), 30 (MEDIC1), 31 (FIRES1), 32 (MORTAR1)
1 Sect (Voice)	2 (S1A), 3 (S1B), 4 (S1C), 5 (S1D), 6 (S1E), 7 (S1F), 8 (S1G)
1 Sect (Data)	2 (S1A), 3 (S1B), 4 (S1C), 5 (S1D), 6 (S1E), 7 (S1F), 8 (S1G)
2 Sect (Voice)	9 (S2A), 10 (S2B), 11 (S2C), 12 (S2D), 13 (S2E), 14 (S2F), 15 (S2G)
2 Sect (Data)	9 (S2A), 10 (S2B), 11 (S2C), 12 (S2D), 13 (S2E), 14 (S2F), 15 (S2G)
3 Sect (Voice)	16 (S3A), 17 (S3B), 18 (S3C), 19 (S3D), 20 (S3E), 21 (S3F), 22 (S3G)
3 Sect (Data)	16 (S3A), 17 (S3B), 18 (S3C), 19 (S3D), 20 (S3E), 21 (S3F), 22 (S3G)
4 Sect (Voice)	23 (S4A), 24 (S4B), 25 (S4C), 26 (S4D), 27 (S4E), 28 (S4F), 29 (S4G)
4 Sect (Data)	23 (S4A), 24 (S4B), 25 (S4C), 26 (S4D), 27 (S4E), 28 (S4F), 29 (S4G)

Table 3: Specific COI Allocation

3.4 Physical Venue

The ISSP SAT will take place in a field environment at a yet to be determined DND venue.

3.5 Contractor Responsibilities

The Contractor will be responsible for the planning, preparation and execution of all SAT tasks and activities.

3.6 Test Witnessing

PMO ISSP personnel will witness all phases of the SAT. At least one VIP day will be scheduled during the SAT.

3.7 Duration

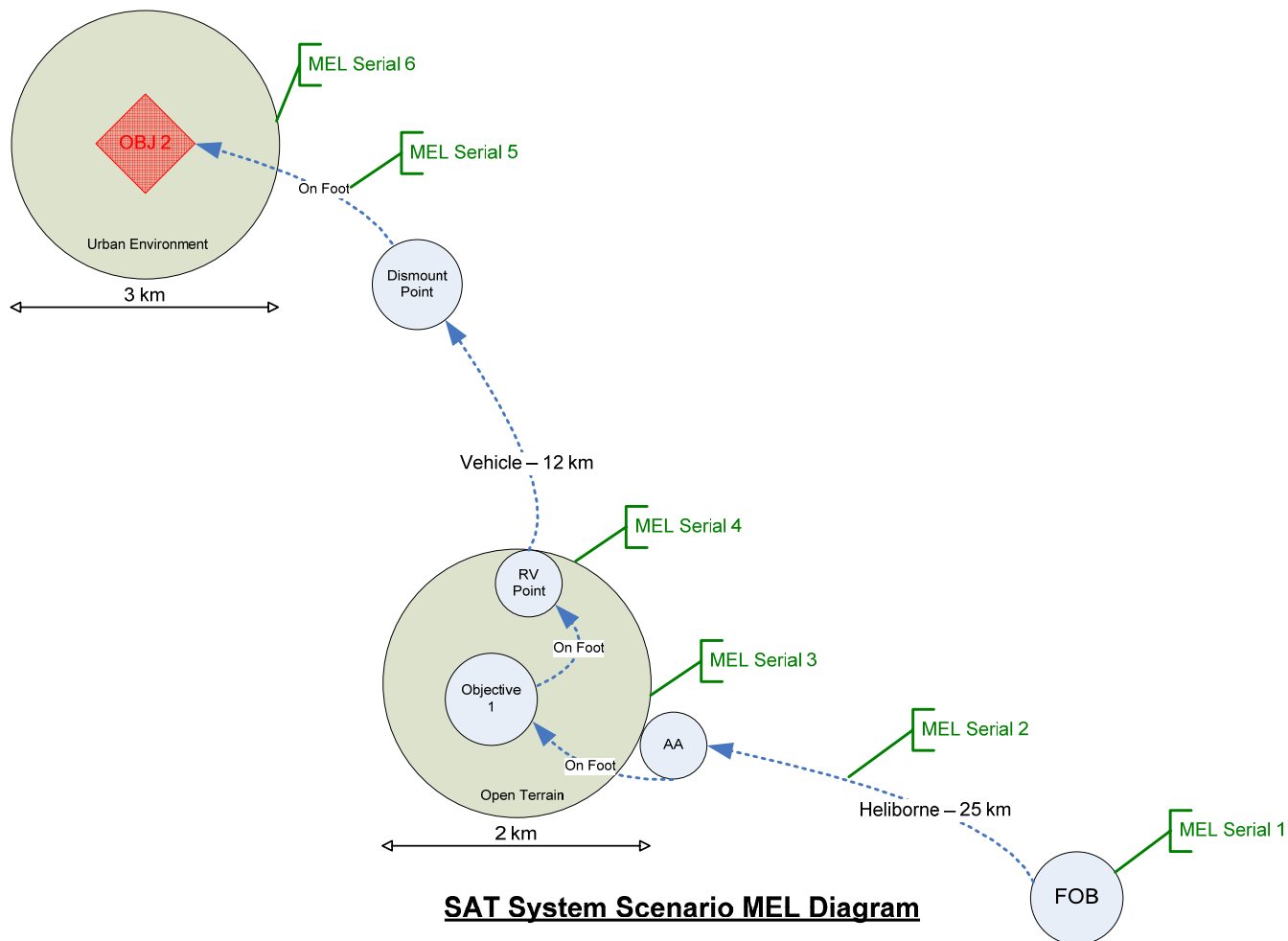
The SAT duration will be determined by the contractor, which will include setup and tear-down, but excluding shipping and transportation of personnel and equipment to and from the SAT venue.

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4 SAT Support

The Contractor will be required to plan for and supply all logistical, administrative and technical support necessary to conduct the SAT. The physical venue will be provided by the Crown, along with other Government Furnished Equipment such as in-service LCSS equipment and soldier equipment.

Attachment 1 - SAT MEL



MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
1.00	T0	Planning	The platoon is located in a Forward Operating Base. They are preparing to move out and conduct patrol operations. The Platoon Comd has received his orders from the Company Commander, and has issued a Warning Order to his platoon. The designated ISS SMEs have been tasked to prepare the ISS using the system management information provided to them by the Company HQ. The Platoon Commander issues his orders to the assembled platoon using a paper map and verbal instructions, and the platoon finishes their preparations.						
1.01	T0	System Management - Planning	SM Planning Data	SM Node	N/A	N/A	Close Proximity	SM Planning Script	TPS-5376 TPS-4112 TPS-1816 TPS-2998 TPS-1135 TPS-3002 TPS-3003 TPS-2999 TPS-3008 TPS-1818 TPS-3009 TPS-1162 TPS-1793 TPS-1058 TPS-3015 TPS-1139
2.00	T1 to T2	Configuration & Deployment	The platoon ISS SMEs are now ready to configure the ISS, and move through the platoon lines doing so. Once complete the platoon gears up, conducts a communication systems check, and boards a Chinook helicopter that transports them to the Assembly Area. After debarking and shaking out, the platoon steps off on foot to start their patrol.						TPS-5163

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
2.01	T1	System Management - Configuration	SM Configurat ion Data	SM Node	N/A	N/A	Close Proximity	SM Configuration Script	TPS-5378 TPS-4994 TPS-1488 TPS-1816 TPS-4930 TPS-1818 TPS-3015
2.02	T2	Sect Equipment/Comm Checks	Voice and Data Comms Checks	Section Comds	All Section Mbrs	Sect (Voice) Sect (Data)	Close Proximity	Sect Comm Check Script	TPS-5378 TPS-796 TPS-800 TPS-804 TPS-803 TPS-861 TPS-2633 TPS-2634 TPS-1058
2.03	T2	PI Equipment/Comm Checks	Voice and Data Comms Checks	PI HQ	All PI Comd Nodes All Sect Comd/2IC Nodes	PI (Voice) PI (Data)	Close Proximity	PI Comm Check Script	TPS-5378 TPS-796 TPS-800 TPS-804 TPS-803 TPS-861 TPS-2635 TPS-5195 TPS-2940 TPS-1058

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
3.00	T3	Execution (Patrolling)	The platoon walks through a mix of open and wooded terrain, heading towards a village 1.5km ahead. The patrol is uneventful. The platoon arrives in the village and the Platoon Commander meets with the head of the village.						TPS-796 TPS-800 TPS-4254 TPS-5158 TPS-5159 TPS-5160 TPS-2634 TPS-833 TPS-804 TPS-803 TPS-861 TPS-5195 TPS-5163 TPS-3911
3.01	T3	PI PA Reporting	Platoon PA	All PI Mbrs	All PI Mbrs	PI (PA)	Close Proximity	PI PA Script	TPS-2585 TPS-4100 TPS-2717 TPS-4254 TPS-5159 TPS-2635
3.02	T3	Section Voice C2	Section Voice	All Section Mbrs	All Section Mbrs	Sect (Voice)	Close Proximity	Sect Voice Script	TPS-2633
3.03	T3	Platoon Voice C2	Platoon Voice	All PI Voice COI Mbrs	All PI Voice COI Mbrs	PI (Voice)	Close Proximity	PI Voice Script	TPS-1622 TPS-4254 TPS-5158

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
3.04	T3	Platoon Data C2	Platoon Data	All PI Data COI Mbrs	All PI Data COI Mbrs	PI (Data)	Close Proximity	PI Data Script	TPS-859 TPS-860 TPS-862 TPS-864 TPS-4254 TPS-5160
4.00	T4 to T7	Execution (Redeployment)	After sending in a SITREP from the village, the Platoon Commander receives a FRAG O from the Company HQ, ordering the platoon to move to a RV point, link up with their vehicles, and move to a new location. Their new task is to conduct a patrol in a town located 12 km away where small pockets of enemy have been reported. Due to the steep terrain and tight quarters in the town, the platoon will dismount on the edge of the built up area, and move forward on foot towards the objective. As the platoon gets ready to redeploy, the Platoon Commander, Platoon WO and Section ICs conduct their battle procedure. Once all of this is complete, the platoon completes a communication system and equipment check then walks to the RV point.						TPS-5163
4.01	T4	Platoon Comd receives Frag O from Coy Comd to redeploy on new task.	LCSS Voice & Data	Coy HQ (external)	PI HQ	LCSS PI HQ	N/A	N/A	TPS-5374
		Platoon Comd issues Wng O to his Section Comds.	BMS Voice and Data	PI HQ	All Sect Comd/2IC Nodes	PI (Voice) PI (Data)	Close Proximity	PI BMS Script	TPS-859 TPS-860 TPS-861 TPS-862 TPS-864 TPS-613 TPS-483

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
									TPS-4859
4.02	T5	Platoon Battle Procedure	BMS Voice & Data	PI HQ	All Sect Comd/2IC Nodes	PI (Voice) PI (Data)	Close Proximity	PI BMS Script	TPS-859 TPS-2399 TPS-2708 TPS-4843
4.03	T6	Section Battle Procedure	BMS Voice & Data	Section Comds	All Section Mbrs	Sect (Voice) Sect (Data)	Close Proximity	Sect BMS Script	TPS-859 TPS-860 TPS-861 TPS-862 TPS-864 TPS-2633 TPS-2634 TPS-2420 TPS-2422 TPS-4843 TPS-483 TPS-4859 TPS-2399

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
4.04	T7	Sect Equipment/Comm Checks	Voice and Data Comms Checks	Section Comds	All Section Mbrs	Sect (Voice) Sect (Data)	Close Proximity	Sect Comm Check Script	TPS-796 TPS-800 TPS-804 TPS-803 TPS-861 TPS-2633 TPS-2634 TPS-1058
4.05	T7	PI Equipment/Comm Checks	Voice and Data Comms Checks	PI HQ	All PI Comd Nodes Sect Comd/2IC Nodes	PI (Voice) PI (Data)	Close Proximity	PI Comm Check Script	TPS-796 TPS-800 TPS-804 TPS-803 TPS-861 TPS-2635 TPS-5195 TPS-2940 TPS-1058
5.00	T8 to T10	Execution (Move mounted and dismounted – extended range)	The platoon links up with their vehicles and moves forward to the new location. Aboard the vehicles, the platoon leadership continues coordinating over LCSS voice and data means. En route, the vehicle of 4 Section gets into a road accident and 4 of the section members are unable to continue with the mission. Medical evacuation request and vehicle evacuation request are conducted on LCSS. The three remaining members of the section are attached to the other sections, one soldier per section and the platoon continues with the mission. At approximately 2 km upon arrival, the platoon moves up to the dismount point, gets out of their vehicles, and prepares to move towards the objective on foot. While moving towards the town and before entering the town, the three sections spread out such that their range could vary from 2 km to 6						TPS-796 TPS-800 TPS-4254 TPS-5158 TPS-5159 TPS-5160 TPS-2634 TPS-833 TPS-804 TPS-803

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
			km.						TPS-861 TPS-3908 TPS-3909 TPS-3913 TPS-1650 TPS-3911 TPS-5163
5.01	T8	Platoon moves by vehicle to Dismount Point	Platoon Voice and Data on LCSS	PI HQ	All	LCSS	N/A	N/A	N/A
5.02	T9	System Management - Reconfiguration "On-The-Fly" – Three 4 Section members are attached to the other sections (one member per section)	SM Planning Data	S4C S4D S4E	N/A	N/A	Close Proximity	SM Reconfiguration "On-The-Fly" Script	TPS-1058 TPS-2933 TPS-4183
		Sect Equipment/Comm Checks	Voice and Data Comms Checks	Section Comds	All Section Mbrs	Sect (Voice) Sect (Data)	Close Proximity	Sect Comm Check Script	TPS-796 TPS-800 TPS-804 TPS-803 TPS-861 TPS-2633 TPS-2634 TPS-1058

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
									TPS-2940
5.03	T9 to T10	PI PA Reporting	Platoon PA	All PI Mbrs	All PI Mbrs	PI (PA)	Range Extension	PI PA Script Range Extension Script	TPS-2585 TPS-4100 TPS-2717 TPS-2635 TPS-4254 TPS-5159
5.04	T10	Dismounted Platoon moves toward town at extended range – Section Voice C2	Section Voice	All Section Mbrs	All Section Mbrs	Sect (Voice)	Range Extension	Sect Voice Script Range Extension Script	TPS-2633 TPS-4079 TPS-1620 TPS-2438
5.05	T10	Platoon Voice C2	Platoon Voice	All PI Voice COI Mbrs	All PI Voice COI Mbrs	PI (Voice)	Range Extension	PI Voice Script Range Extension Script	TPS-4079 TPS-1620 TPS-2438 TPS-4254 TPS-5158
5.06	T10	Platoon Data C2	Platoon Data	All PI Data COI Mbrs	All PI Data COI Mbrs	PI (Data)	Range Extension	PI Data Script Range Extension Script	TPS-859 TPS-860 TPS-862 TPS-864 TPS-4254 TPS-5161 TPS-5160 TPS-4253 TPS-3910

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
6.00	T10 to T13	Execution (Patrol in the Town)	The Company Commander gives the order to start the patrol, and the platoon moves forward carefully. They enter the town and continue moving tactically. Soon afterwards, 1 Section comes under fire from a suspected enemy sniper and takes cover in alleys and doorways. The sniper is located on the roof of a two story house. The Section IC spots the location of the enemy sniper, lases the target, and sends a Call For Fire for Mortar support. At the same time, a soldier is hit in the leg by the sniper, and a Casevac is requested. Two of his section members provide first aid and take the injured soldier back to the Casualty Collection Point. One of the soldiers providing first aid took out his ISS-S kit and set it aside at which time a local child steals it and run away. The Section Commander conducts a remote zeroization of the ISS-S. Following mortar fire on the designated target, the enemy fire ceases and the platoon receives order to clear the house.					TPS-796 TPS-800 TPS-4254 TPS-5158 TPS-5159 TPS-5160 TPS-2634 TPS-833 TPS-804 TPS-803 TPS-861 TPS-3908 TPS-3909 TPS-3914 TPS-3915 TPS-5163 TPS-5195 TPS-890	
6.01	T10 to T13	PI PA Reporting	Platoon PA	All PI Mbrs	All PI Mbrs Nodes	PI (PA)	Urban	PI PA Script Network Transition Script	TPS-2585 TPS-4100 TPS-2717 TPS-4254 TPS-5159 TPS-2635
6.02	T10 to T13	Section Voice C2	Section Voice	All Section	All Section Mbrs	Sect (Voice)	Urban	Sect Voice Script Network Transition Script	TPS-2633 TPS-4079 TPS-1620

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
				Mbrs					TPS-2438
6.03	T11	Targeting	Targeting	Sect Comd	N/A	N/A	Urban	Targeting Script	TPS-5325 TPS-5327
6.04	T11	CASEVACREQ	Casualty Evacuatio n Request	Sect Comd	CASEVAC1	PI (Data)	Urban	Casevac Script	TPS-860 TPS-862 TPS-864 TPS-5161 TPS-5494
6.05	T11	Call for Fire	Call for Fire	Sect Comd	MORTAR1	PI (Data)	Urban	Call for Fire Script	TPS-860 TPS-862 TPS-864 TPS-5161 TPS-1325
6.06	T10 to T13	Platoon Voice C2 (outdoors and indoors)	Platoon Voice	All PI Voice COI Mbrs	All PI Voice COI Mbrs	PI (Voice)	Urban	PI Voice Script Network Transition Script	TPS-4079 TPS-1620 TPS-2438 TPS-4254 TPS-5158
6.07	T10 to T13	Platoon Data C2 (outdoors and indoors)	Platoon C2 Data	All PI Data COI Mbrs	All PI Data COI Mbrs	PI (Data)	Urban	PI Data Script Network Transition Script	TPS-859 TPS-860 TPS-862 TPS-864 TPS-4254 TPS-5161 TPS-5160

MEL Serial	MEL Time Ref	Operational Events	Information Exchange Events					System/Technical Events	TPS Ref(s)
		Description	Info Exchange Element	Source(s)	Recipient(s)	COI(s)	ISSP Network Configuration	System Test Script Name	
									TPS-4253 TPS-3910
6.08	T12 to T13	Section Voice C2 – Clearing House	Section Voice	All Section Mbrs	All Section Mbrs	Sect (Voice)	Urban	Sect Voice Script Network Transition Script	TPS-2633 TPS-4079 TPS-1620 TPS-2438
6.09	T13	Remote Zeroize	Remote Zeroize	Sect Comd	Specified node	Sect (Data)	Urban	Remote Zeroize Script	TPS-959 TPS-960
7.00		SAT Events Complete							

Attachment 2 - Test Script Overview

Test Script Serial	Test Script Duration	Test Script Name	Test Script Description	Test Script Activities (to be further developed by the Contractor in the SATP and SATDP)	ISS-S Instances (Nodes)	COI(s)	Notes
1	TBD by Contractor	SM Planning Script	System Management tasks and information exchanges related to planning for ISS-S deployment.	<ul style="list-style-type: none">- Create network plan and crypto plan for all ISS-S instances- Create any other required SM information such as BMS plans, ORBATS, etc	SM Node PI HQ	N/A	
2	TBD by Contractor	PI BMS Script	Platoon level BMS related tasks and information exchanges between PI Comd, PI WO, Section Comd, Sect 2ICs and other PI members as required	<ul style="list-style-type: none">- Receive and read Coy Orders- Create and share Platoon orders- Share imagery- Share COP/SA- Create and share overlay	PI HQ All Sect Comds All Sect 2ICs FIRES1 MEDIC1 MORTAR1	PI (Voice) PI (Data)	Loop as required to meet network loading / duration SAT parameters
3	TBD by Contractor	Sect BMS Script	Section level BMS related tasks and information exchanges between Sect Comd, Sect 2IC and Sect members	<ul style="list-style-type: none">- Receive and read PI Orders- Create and share Sect orders- Share imagery- Share COP/SA- Create and share overlay	All Sect Nodes	Sect (Voice) Sect (Data)	Scale from 1 to 4 Sections as required Loop as required to meet network loading / duration SAT parameters

Test Script Serial	Test Script Duration	Test Script Name	Test Script Description	Test Script Activities (to be further developed by the Contractor in the SATP and SATDP)	ISS-S Instances (Nodes)	COI(s)	Notes
4	TBD by Contractor	SM Configuration Script	System Management tasks and information exchanges related to the configuration of ISS-S equipment prior to deployment.	- Configure all ISS-S instances with required network, COI, security, BMS and other (as required) settings	All Nodes	N/A	
5	TBD by Contractor	Sect Comm Check Script	Voice, data and PA exchanges between Section COI member ISS-S equipment to ensure that all is working properly prior to deployment.	- Perform voice and data communication checks with all Section level ISS-S instances (intra-section)	All Sect Nodes	All Sect COIs	The comms checks could be manually generated, or system generated
6	TBD by Contractor	PI Comm Check Script	Voice, data and PA exchanges between Platoon COI member ISS-S equipment to ensure that all is working properly prior to deployment.	- Perform voice and data communication checks with all Platoon level ISS-S instances (includes Section level nodes that are on the Platoon COIs)	All PI Nodes	All PI COIs	The comms checks could be manually generated, or system generated
7	TBD by Contractor	Sect Voice Script	Voice exchanges between Section members	PTT Broadcast voice duty cycle: - 20 sec on / 120 sec off/rx (applicable to 70% of the script duration) - 10 sec on / 2 sec off /rx (applicable to 30% of the script duration)	All Sect Nodes	Sect (Voice)	Scale from 1 to 4 Sections as required
8	TBD by Contractor	PI PA Script	PA exchanges between Platoon members	- PA configured to minimum 10 sec refresh for all nodes	All PI Nodes	PI (PA)	

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Test Script Serial	Test Script Duration	Test Script Name	Test Script Description	Test Script Activities (to be further developed by the Contractor in the SATP and SATDP)	ISS-S Instances (Nodes)	COI(s)	Notes
9	TBD by Contractor	PI Voice Script	Voice exchanges between Section members	PTT Broadcast voice duty cycle:- 20 sec on / 120 sec off/rx (applicable to 70% of the script duration)- 10 sec on / 2 sec off /rx (applicable to 30% of the script duration)	PI HQ All Sect Comds All Sect 2ICs FIRES1 MEDIC1 MORTAR1	PI (Voice)	
10	TBD by Contractor	PI Data Script	Data exchanges between Platoon COI members (messages, reports and returns)	- Create and share a free text message - Create and share a formatted message	PI HQ All Sect Comds All Sect 2ICs FIRES1 MEDIC1 MORTAR1	PI (Data)	
11	TBD by Contractor	SM Reconfiguration "On-The-Fly" Script	SM activities required to rapidly reconfigure the ISS-S following a change in organisation and/or mission.	- Rapidly configure some ISS-S instances with required network, COI, security, BMS and other (as required) settings	Some specific Nodes	All COIs	
12	TBD by Contractor	Range Extension Script	Tests the ISS-S network over ranges of up to 6 km, and ensures that network performance is met in multi-hop relay conditions.	- Reestablish the ISS-S network along a 6 km area - Ensure that all ISS-S network parameters and functionality automatically adjust to the extended network configuration	All Nodes	All COIs	
13	TBD by Contractor	Network Transition Script	Tests the ISS-S network under urban environment network	- Move the ISS-S instances into the "urban environment" network	All Nodes	All COIs	

Test Script Serial	Test Script Duration	Test Script Name	Test Script Description	Test Script Activities (to be further developed by the Contractor in the SATP and SATDP)	ISS-S Instances (Nodes)	COI(s)	Notes
			conditions, including ability to transition from open terrain to urban environment without user intervention.	configuration <ul style="list-style-type: none"> - Ensure that all ISS-S network parameters and functionality automatically adjust to the urban network conditions and configuration 			
14	TBD by Contractor	Targeting Script	Tests the ability to generate and distribute CORAL-CR-C based targetting information	<ul style="list-style-type: none"> - Lase a designated object with the CORAL-CR-C - Verify that an accurate 10 figure coordinate is displayed on the ISS-S - Share the target information 	FIRES1 PI HQ All Sect Comds All Sect 2ICs	PI (Data)	
15	TBD by Contractor	Casevac Script	Tests the ability of the ISS-S to generate and distribute an automated medevac message	<ul style="list-style-type: none"> - Create a Casevac message - Share a Casevac message 	Sect Comd MEDIC1 PI HQ	PI (Data)	
16	TBD by Contractor	Call for Fire Script	Tests the ability of the ISS-S to generate and distribute an automated Call For Fire message	<ul style="list-style-type: none"> - Create a Call For Fire message- - Share a Call for Fire message 	FIRES1 PI HQ All Sect Comds All Sect 2ICs	PI (Data)	
17	TBD by Contractor	Remote Zeroize Script	Activities related to the conduct of a remote zeroization of an ISS-S instance.	<ul style="list-style-type: none"> - Conduct a remote zeroization to an ISS-S that has been stolen. 	Sect Member	Sect (Data)	

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APPENDIX 7 TO ANNEX CB TO VOLUME 2

MLCS PLATFORM TDP MANUFACTURING DATA FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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HISTORY

Revision	Date	Description

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1. SCOPE

1.1 This Manufacturing Data covers the material, design and construction and inspection requirements for the Modular Load Carriage System, comprising of a chest rig and a back yoke.

2. APPLICABLE DOCUMENTS

2.1 Government documents. The following documents form part of this Manufacturing Data to the extent specified herein.

- | | |
|------------------------|--|
| a. D-80-001-055/SF-001 | Label, Clothing and Equipment |
| b. D-LM-008-036/SF-000 | DND Minimum Requirements for
Manufacture's Standard Pack |
| c. D-LM-008-002/SF-001 | Specification for Marking and Storage and
Shipment |
| d. D-80-001-500/SF-001 | Specification for CADPAT TW [Canadian
Disruptive Pattern, (Temperate Woodland)]
*Available on request only |
| e. DSSPM 2-2-80-211 | Specification for Cloth Coated
Nylon/Polyurethane, 425g/m ²
*Available on request only |
| f. D-80-001-091/SF-001 | Cloth, Plain Weave Nylon- 195 g/m ² and 230 g/m ²
* Available on request only |

2.2 Other Publications. The following documents form part of the Manufacturing Data to the extent specified herein. Effective data must be that in effect on the date of manufacture.

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Majesté la Reine du chef du Canada représentée par le ministre de la Défense nationale. 2010

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2010



General Standards Board, Sales Unit
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American Society for Testing and Materials (ASTM)
ASTM International
P.O Box C700
West Conshohocken, PA
19428-2959, USA
Telephone: (610) 832-9585
Email: service@astm.org

a. CAN/CGSB 4.2	Textile Test Methods
b. CAN/CGSB-54.1-M	Stitches and Seams
c. CAN/CGSB – 4GP-85-Ma	100 % Nylon (type 6.6) Bonded Thread
d. CAN/CGSB-86.1-2003	Care Labelling of Textiles
e. ASTM D4966	Standard Test Method for Abrasion Resistance of Textile fabrics (Matindale Abrasion Tester Method)
f. MIL-W-17337	Webbing, Textile, Woven Nylon
g. MIL-PRF-5038J	Tape, Textile and Webbing, Textile, Reinforcing, Nylon
h. MIL Commercial specification A-A-55301	Webbing Textile, Textured or Multifilament Nylon
i. MIL Commercial Specification A-A-55126B	Fastener Tapes, Hook and Loop, Synthetic

2.3 Figures. The following figures in Vol. 2, Annex CB, App. 7, Att. 1 form part of this Manufacturing Data. Figures are not to scale.

Figure 1 MLCS Chest Rig- Front Face View

Figure 2 MLCS Chest Rig- Back Panel View

Figure 3 MLCS Chest Rig Front Face- Cut Away View Showing Interior Construction

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- Figure 4 MLCS Back Yoke- Front View
- Figure 5 MLCS Back Yoke- Back View
- Figure 6 MLCS Chest Rig Front View- Showing Shoulder Tab Detail
- Figure 7 MLCS Back Yoke- Back View Showing Bottom Opening

2.4 Sealed Patterns

DSSPM 464-10	Modular Load Carriage System (MLCS), Front Chest Rig
DSSPM 466-10	Modular Load Carriage System (MLCS), Chest Rig- Back Yoke
DSSPM 259-01	Cloth, Twist, Cotton/Nylon, Lightweight, CADPAT (TW) (Disruptive Pattern Temperate) for pattern, motif, size, colour distribution, clarity and colour guidance.
DSSPM- 281-00	Cloth, Nylon, Polyurethane Coated, 425 g/m ² for construction and hand
DSSPM 281-01	Cloth, Twist, Nylon/Cotton 170 g/m ² , Canadian Average Green (For colour and IRR properties)
DSSPM 271-07	Cloth, Plain Weave, Nylon, Polyurethane Coated 230 g/m ² , Type II, Sealed for construction and finish for Type II
DSSPM 251-04	Mesh, 100% Polyester, Warp Knit CADPAT™ Light Sand, sealed for construction only

2.5 Paper Patterns. Paper patterns are held under computer code MLCS14. Sizes Medium and Small will be used.

3.0 REQUIREMENTS

3.1 Sealed Pattern. Sealed patterns will be supplied. The sealed patterns must constitute the standard in regard to any properties not specified in the Manufacturing Data.

3.2 Design. The design must be in accordance with Sealed Patterns DSSPM 464-10 and DSSPM 466-10 and must incorporate the following features.

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- a. Front chest rig includes PALS webbing grid comprised of 7 horizontal rows of 1" webbing divided into 1 ½" wide columns.
- b. Back yoke includes PALS webbing grid comprised of 8 horizontal rows of 1" webbing with 6 columns wide.
- c. Shoulder straps include wrap around tabs for securing cables.
- d. Shoulder straps with 2" wide hook and loop fastening tape
- e. Front chest rig opens at bottom to reveal a hidden plate carrier pocket inside.
- f. Front chest rig and back yoke rig include opening along bottom edge that fastens with 2" hook and loop tape.
- g. Plastic loops located along bottom edge of front and back rigs.
- h. Underside of back yoke includes plate carrying pocket pouch with 6" elastic retainer
- i. Mesh pocket located on the back of the chest rig.

3.3. Size. The MLCS includes a chest rig and a back yoke. The chest rig is available in two sizes and the back yoke is one size fits all. The two are fastened together with Velcro shoulder straps and an adjustable waist strap. This configuration is designed to fit a wide range of waist sizes. The size chart in Table 1 illustrates the waist size in relation to the vest size required.

Table 1- MLCS Size Chart

Body Measurement	Front Chest Rig Size
Waist	
Up to 38"	Small
38" and above	Medium

3.4 Materials.

3.4.1 Shell Fabric. The material for the chest rig shell must be textured high tenacity nylon, polyurethane coated, 425 g/m² cloth in accordance with specification DSSPM 2-2-80-211, Type I. The colour must be CADPAT Temperate Woodland (TW) in accordance with specification D-80-001-500/SF-001. IR Reflectance is required.

3.4.2 Lining Fabric. The shell of the chest rig must be lined with a 100 % nylon, plain weave, polyurethane coated, 230 g/m², Type II, material in accordance with specification D-80-001-091/SF-001. The colour must be Canadian Average Green (CAG). IR Reflectance is not required.

3.4.3 Polyester Mesh. The warp knitted polyester mesh used in the map pocket on the underside (lining side) of the chest rig must be in accordance with Table II. The knit construction of the mesh must be as per sealed sample DSSPM 267-01, with a minimum of

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5.4 holes per square cm (3.5 holes per square inch). The colour of the mesh material must be black. P/N 1265 from Heathcoat fabrics of Tiverton England has been known to meet this specification. IR Reflectance is not required.

Table II- Performance Requirements for Mesh

PROPERTY	METHOD	SPECIFIED REQUIREMENT	MINIMUM ACCEPTABLE	MAXIMUM ACCEPTABLE
MASS	5.1*	385 g/m ²	370 g/m ²	400 g/m ²
FIBRE CONTENT	14*	100 % Polyester		
KNITTED FABRIC COUNT	7*	Wales: 20/ inch Courses: 22/inch	Wales: 18/ inch Courses: 22/inch	Wales: 22/ inch Courses: 24/inch
BREAKING STRENGTH	9.1*	1000N	950 N	
COLOURFASTNESS TO CROCKING	22*	Dry Staining: GS 5 Wet Staining: GS 5		Dry Staining: GS 4 Wet Staining: GS 4
ABRASION	D4966**	No change in surface		

*CAN/CGSB Canadian General Standards Board, Textile Test Methods

** ASTM American Society for Testing and Materials

3.4.4 Hook and Loop Fastening Tape. The tape fasteners used in the construction of the chest rig must be 5 cm (2") for both hook and loop and 3.8 cm (1 ½") for loop only. The tape fasteners must be in accordance with commercial MIL specification A-A- 55126B Type II, Class 1.. The colour must be CAG in accordance with specification D-80-001-500/SF-001. IR Reflectance is not required.

3.4.5 Binding Tape. The binding tape used to bind all edges of the chest rig must be 25mm (1") and 19 mm (¾") on the inner pocket. The binding tape must be nylon tape, textile reinforcing, Type III in accordance with specification MIL-PRF-5038J. The colour must be CAG in accordance with specification D-80-001-500/SF-001. IR reflectance is required for the 25 mm (1") binding tape only.

3.4.6 Webbing, 25mm (1 inch), 38mm (1 1/2 inch). The "Pouch Attachment Ladder System" (PALS) on the chest rig must be constructed from 25mm (1 ") nylon webbing and the waist straps must be constructed from 38mm (1 ½ ") webbing in accordance with

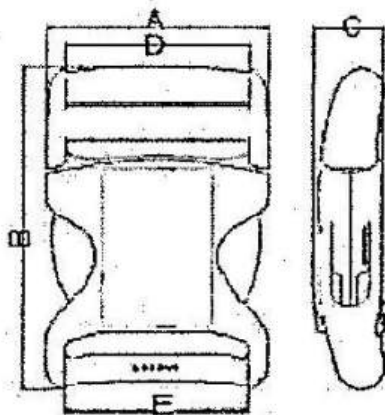
commercial MIL A-A-55301, Type III. The colour must be CAG in accordance specification D-80-001-500/SF-001. IR reflectance is required.

3.4.7 Webbing, 50 mm (2 inch). The drag handle on the back yoke of the chest rig must be 50mm (2") nylon in accordance with MIL-W-17337, Class 1 or 2. The colour must be CAG in accordance specification D-80-001-500/SF-001. IR Reflectance is required.

3.4.8 Elastic. The elastic used on the back yoke plate carrier must be in accordance with Vol 2, Annex CB, App 7, Att 4. The colour of the elastic must be black. IR Reflectance is not required.

3.4.9 Side Release Buckle Assembly, 1 ½ . The waist straps on the chest rig must include a 1 1/2" side release buckle assembly consisting of a male and female buckle. The buckles must be made of polyactel (POM) with an average breaking strength of 1,391 Newtons (312.2 lbs) and a unit weight of 24.7 grams. The dimensions must be in accordance with Diagram I. Two (2) buckle assemblies are required for each chest rig. The colour of the buckle assembly must be CAG in accordance with specification D-80-001-500/SF-001 and to sealed pattern DSSPM 281-01. P/N LB38WG from YKK has been known to meet this requirement. IRR is required.

Diagram I



DIMENSIONS

	(MM)	(INCH)
A	47.2	1.89
B	67.6	2.70
C	14.6	0.58
D	38.2	1.53
E	38.6	1.54

(All tolerance are within $\pm 0.4mm$ or 0.02")

3.4.10 Common Loop or Rectangle, 25mm (1"). The 25mm (1") plastic rectangular loops used on the bottom of the chest rig must be made of polyacetal or acetal. The colour of the loops must be CAG in accordance with specification D-80-001-500/SF-001 and sealed pattern 281-01. YKK, P/N LT25 K has been known to meet this requirement. IR Reflectance is required.

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3.4.11 Foam, 50 Kg/m³. The foam used in the shoulder straps on the back yoke must be a polymeric closed cell physically expended foam (Trade Name Zotefoam). The thickness must be 1/8" and must meet the specification at Vol. 2, Annex CB, App 7, Att. 3.

3.4.12 Thread. The thread used in the construction of the MLCS must be continuous bonded nylon in accordance with CAN/CGSB 4-GP-85, Type II, Class B, Tex 70. The thread must meet the physical requirements specified in Table 2 of CAN/CGSB 4-GP-85 for Tex Ticket no. R70 Tex. The colour must be a good visual match to CAG in accordance with sealed pattern 281-01.

3.4.13. Label. A marking label must be made in accordance with D-80-01-055/SF-001 and positioned as indicated in paragraph 3.8. The colour must be a good visual match to CAG in accordance with sealed pattern DSSPM 281-01.

3.5 Cutting. The MLCS must be cut using duplicates of Government supplied paper patterns. These patterns include seam allowance but do not include "make-up" allowance. The contractor must be responsible for any changes which may be required for make-up allowance to suit their production methods, but the design, grade or the requirements specified herein must not be changed.

3.5.1 The fabrics must be cut in the direction of the warp as shown on the paper patterns.

3.5.2 The methodology used to mark the placement of materials such as the webbing on the fabric is left to the contractors discretion. However no process where the marking damages the shell fabric is permitted.

3.5.3 The specified materials must be cut and used in accordance with best commercial standards and practices.

3.6 Sewing.

3.6.1 All seams and stitches must be in accordance with CAN/CGSB-54.1-M.

3.6.2 All stitching must be either lock stitched Type 301 or lock chain stitch 401 conforming to CCAN/CGSB-54.1M, having not less than 8 and not more than 10 stitches per inch (2.5cm).

3.6.3 The ends of all lock stitched seams and stitching and breaks in thread must be securely backstitched.

3.6.4 The stitches must present a regular even appearance without fabric pucker and must be free from skips that may result from faulty machine thread tension or other stitching malfunctions.

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3.6.5 All double needle topstitching when specified must be lock or lock-chain stitched with the needles set ¼” and where specified 3/16” apart and not less than 1/16” (1.6 mm) from the edge.

3.6.6 Bar tacks must be used to reinforce areas of the MLCS. Bar tacks must be in accordance with CGSG stitch type 304. The two sizes of bar tacks used throughout the MLCS are used 1” and 2” is used on the extraction handle. Refer to the General Sewing Instructions in Appendix 2 for size and locations.

3.7 Construction.

3.7.1 Vol. 2, Annex CB, App. 7, Att. 2 is provided as a guidance document only. It contains detailed instructions on the construction of the MLCS. It is not adapted to any particular assembly line, method or system of production. The contractor must manufacture the MLCS in accordance with the specification and the paper patterns.

3.8 Measurements. Measurements must be as shown on the applicable Figures. (Vol. 2, Annex CB, App. 7, Att. 1)

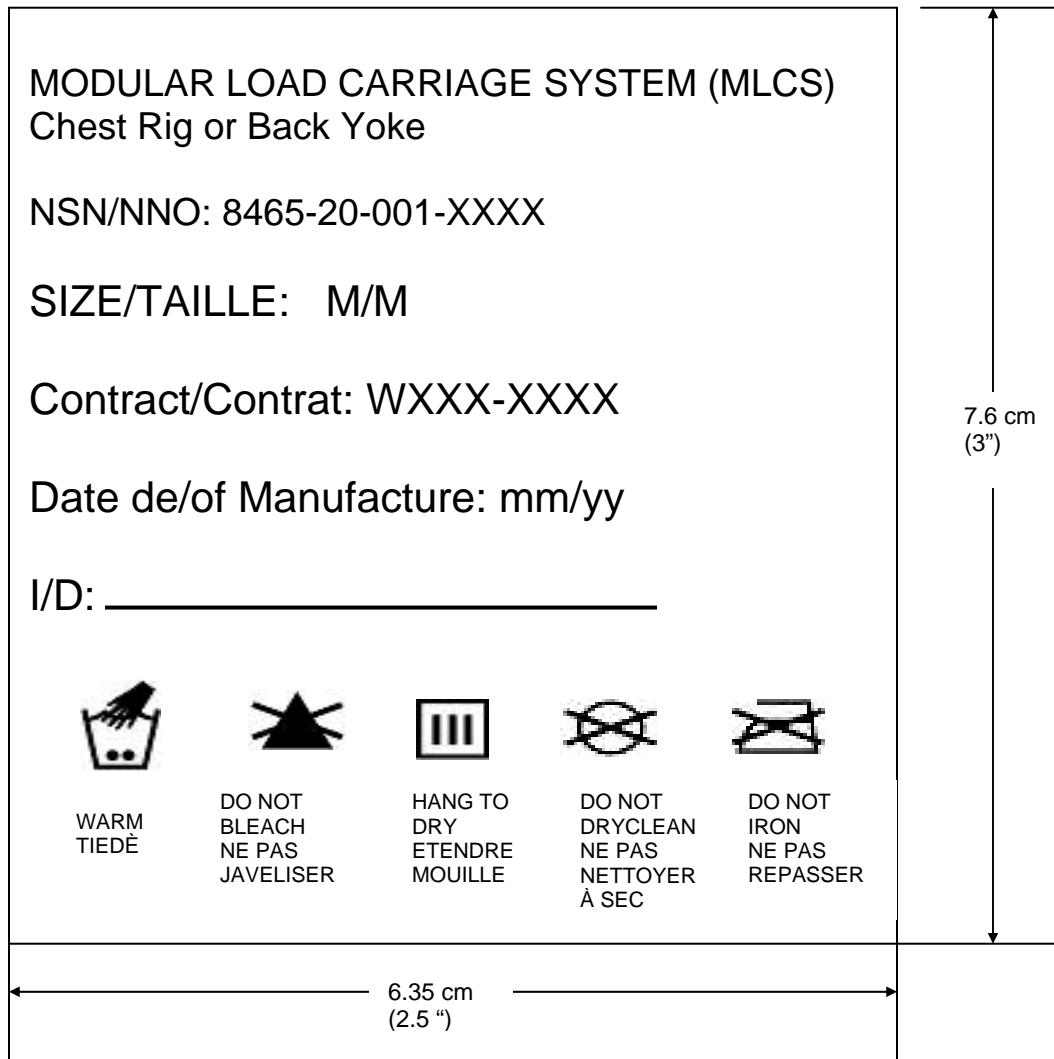
3.9 Marking Label. The MLCS chest rig and the back yoke must each include a label. The size of the label must measure 6.35cm (2 ½”) long by 7.6 (3”) wide and must be topstitched on the following locations:

- a. Chest Rig; centered on the back lining, 3.8cm (1 ½”) down from the neck edge.
 - b. Back Yoke; centered on the back plate pouch, 5 cm (2”) down from the top edge.
- The label and marking must be in accordance with D-80-001-055/SF-100. Care symbols in accordance with CGSB/CAN-86-1-2003. See Diagram II for an example. The marking must give the following information in French and English, printed in characters not less than (3.2mm) 1/8-inch and not more than (6.4mm) ¼”-inch in height, with the exception of the “Size” which must be twice the size of the other characters.
- The label markings must be legible and in indelible black ink with the following information:

- a. Contract number
- b. MLCS nomenclature
- c. NATO stock number (NSN) for each size and front chest rig and back yoke
- d. Size
- e. Month and year of manufacture and
- f. I/D (user identification)
- g. Care symbols

3.10 Packaging. Unless otherwise specified, packaging and marking as well as delivery shall be in accordance with Vol. 2, Annex CB, App 7, Att 5. and as per the term of the Contract.

Diagram II- Marking Label



ATTACHMENT 1 TO
APPENDIX 7 TO ANNEX CB TO VOLUME 2

MLCS PLATFORM DRAWINGS
FOR THE
ACQUISITION OF THE
INTEGRATED SOLDIER SYSTEM (ISS)

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HISTORY

Revision	Date	Description

Figure 1 MLCS Chest Rig Front View

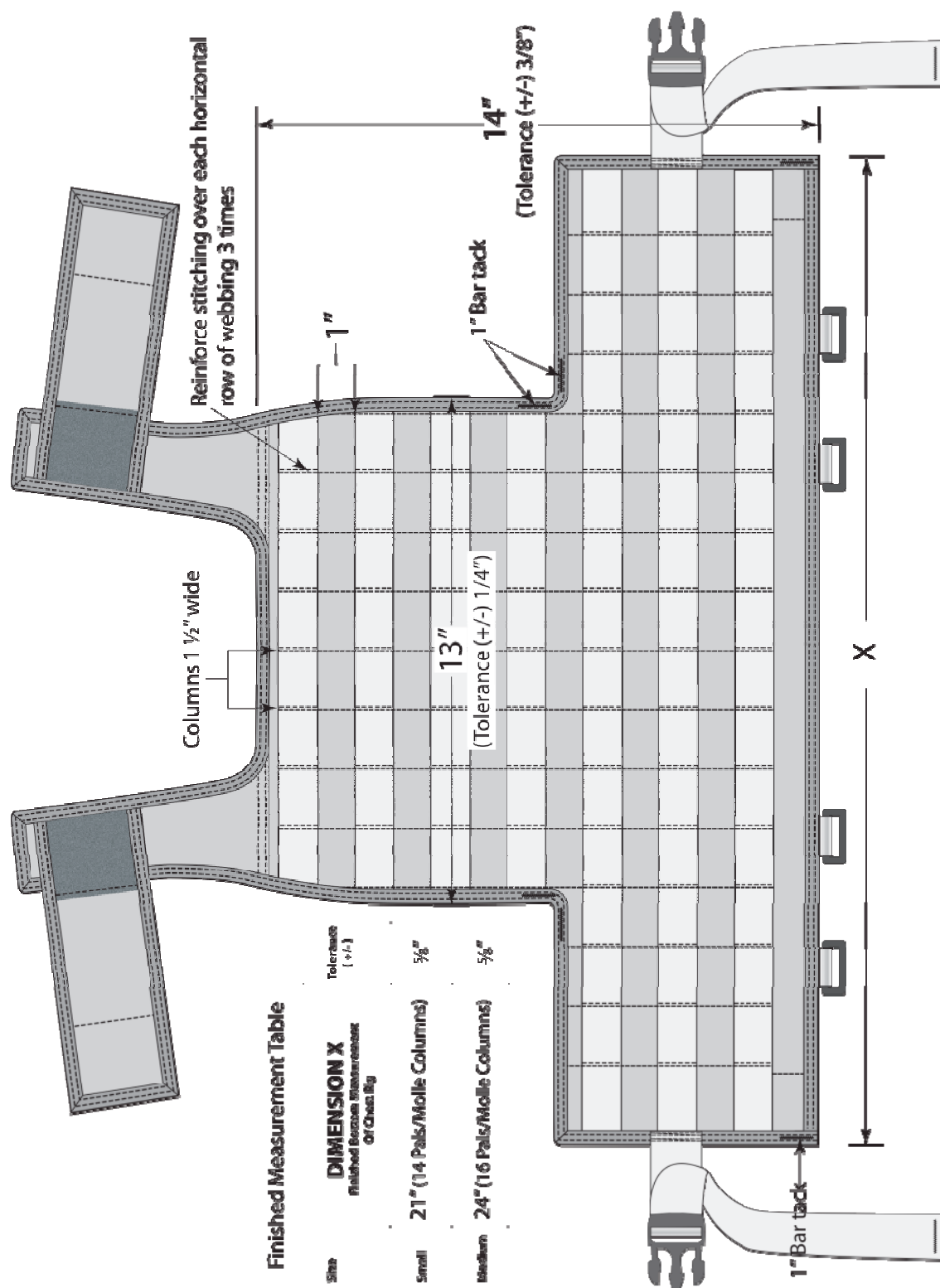


Figure 2 MLCS Chest Rig Back - Panel View

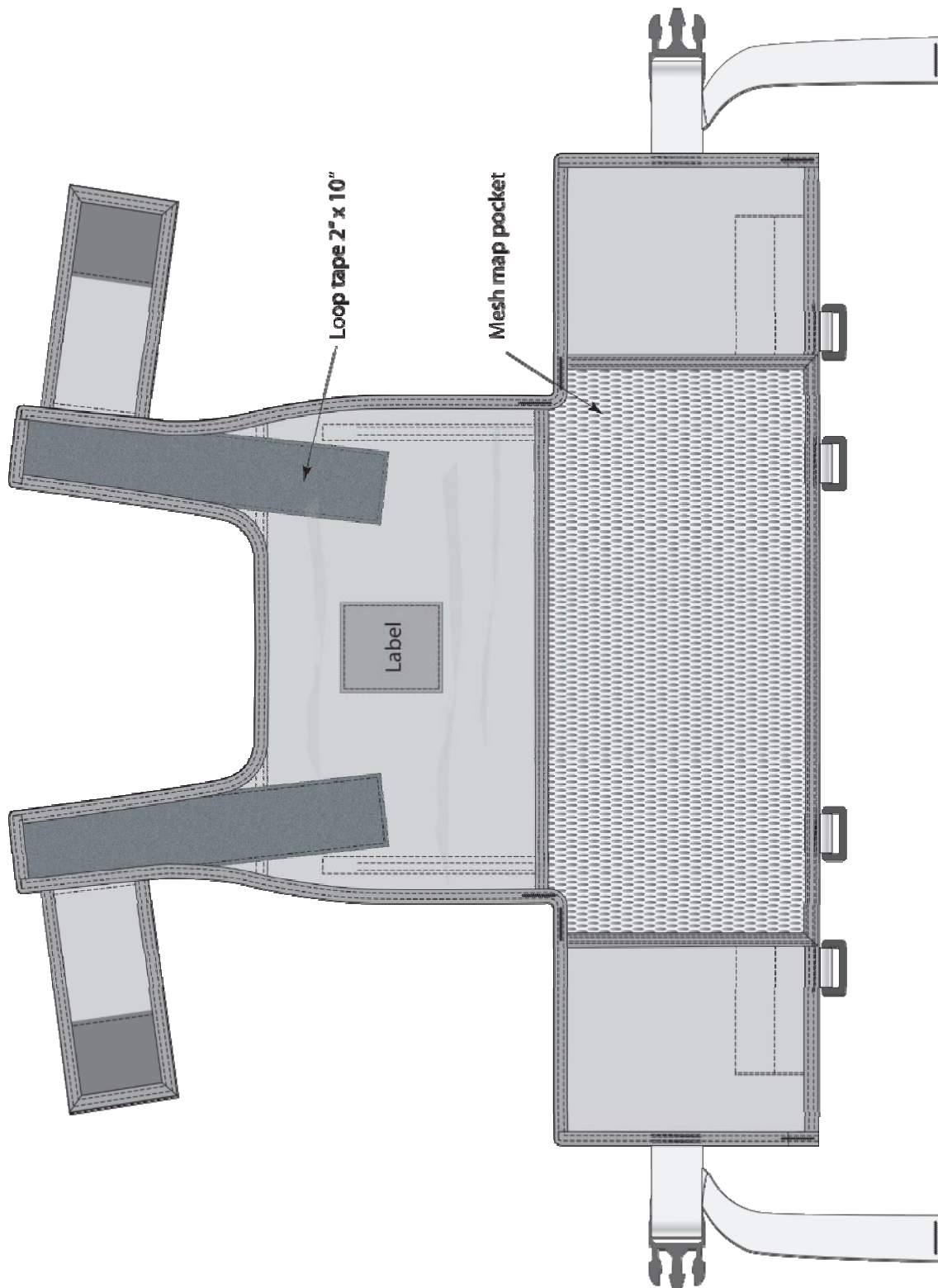


Figure 3 MLCS Chest Rig Front – Cut Away View

Showing Interior Construction

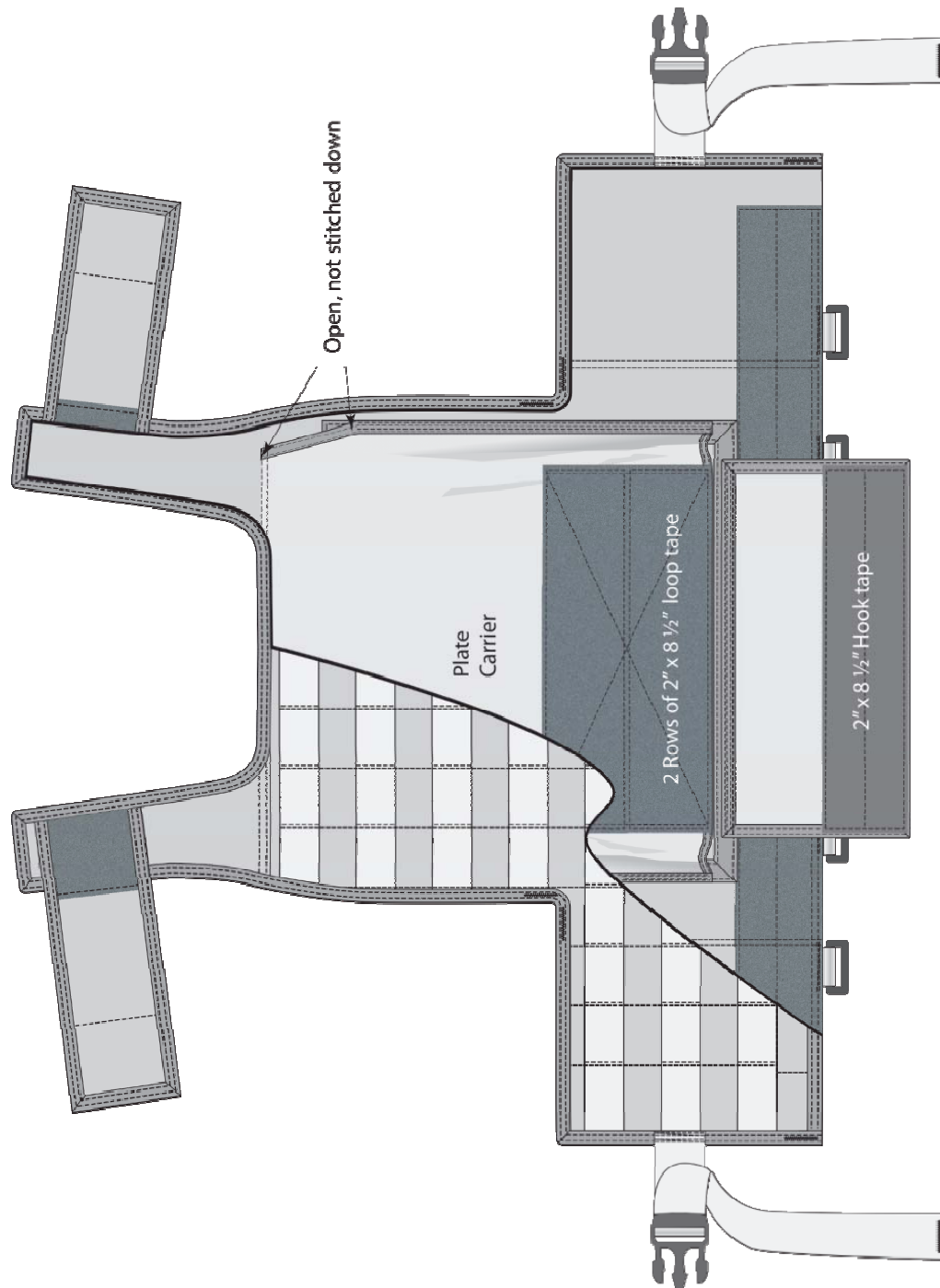


Figure 4 MLCS Back Yoke - Front View

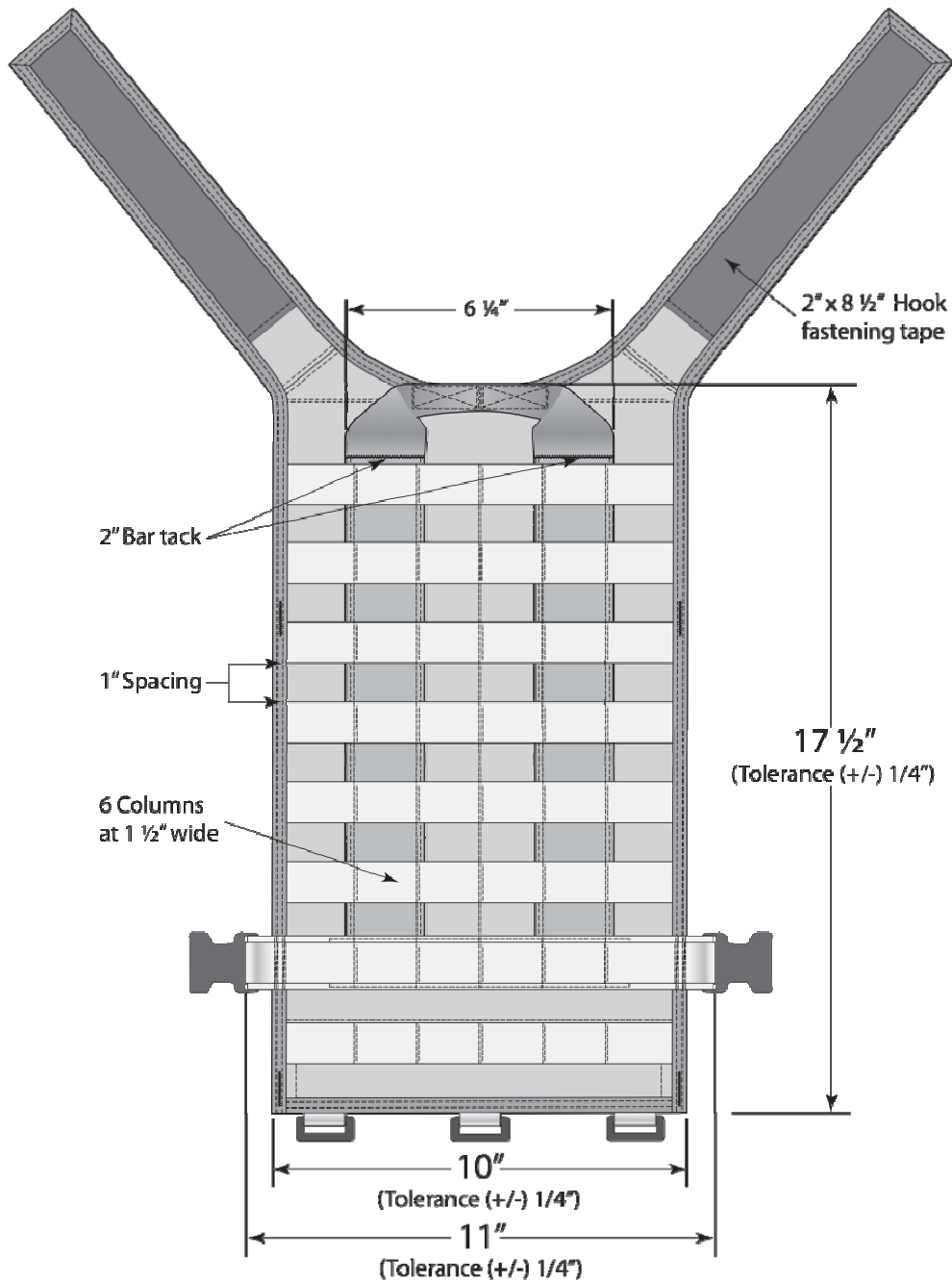


Figure 5 MLCS Back Yoke - Back View

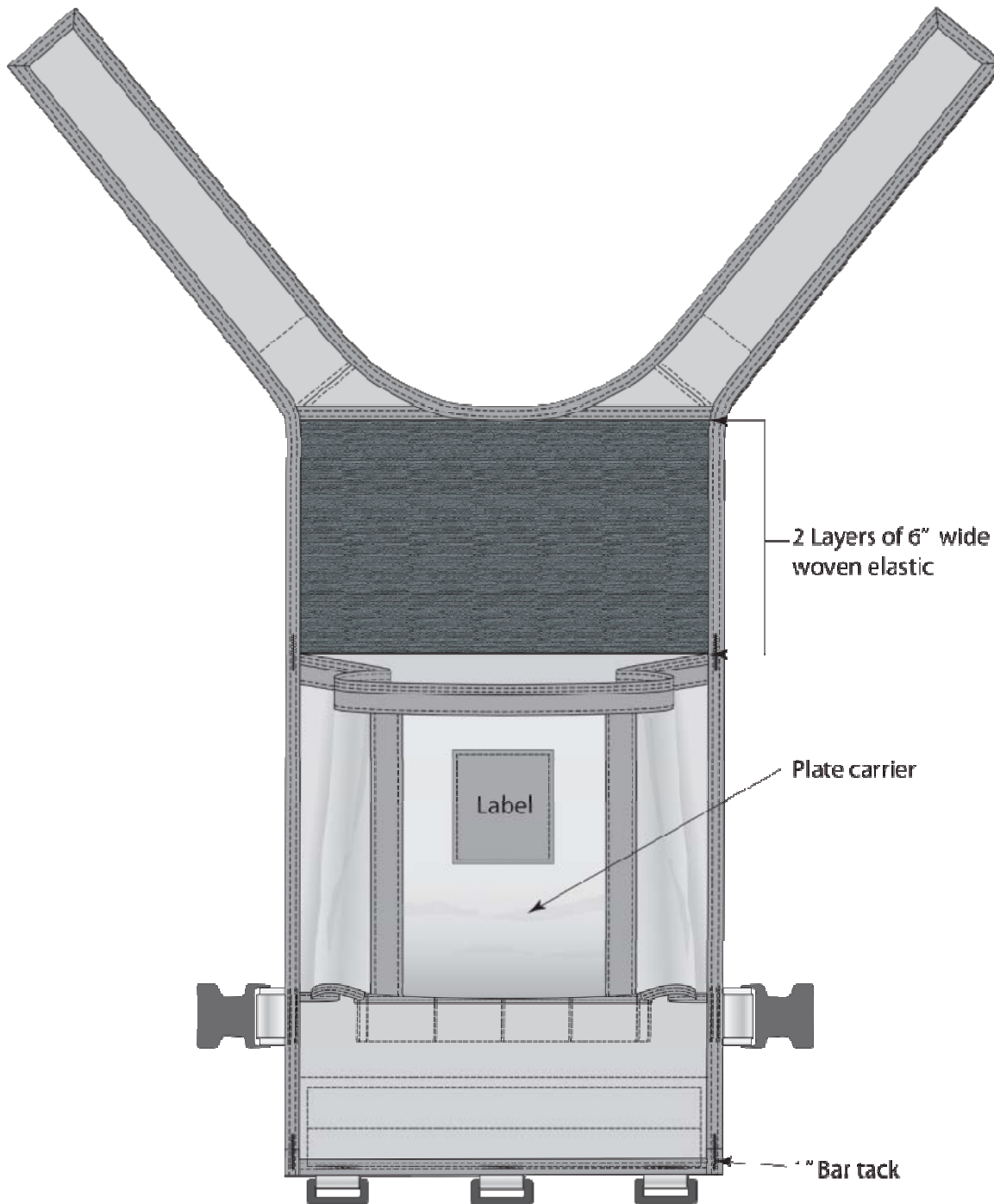


Figure 6 MLCS Chest Rig Front View Showing Shoulder Tab Detail

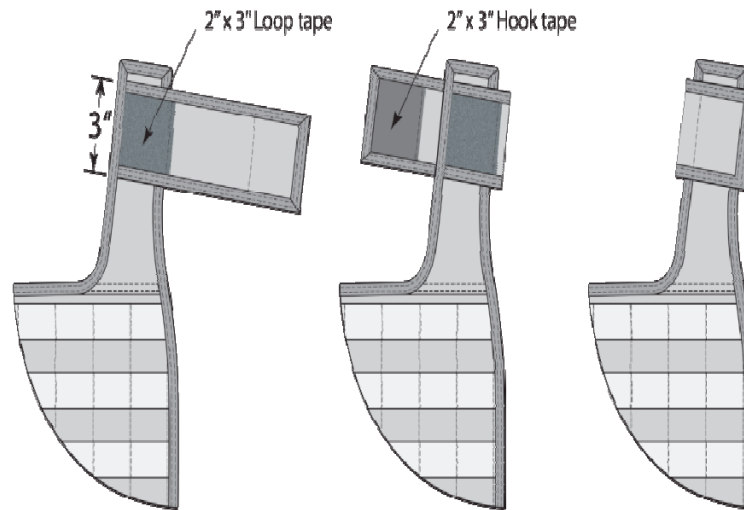
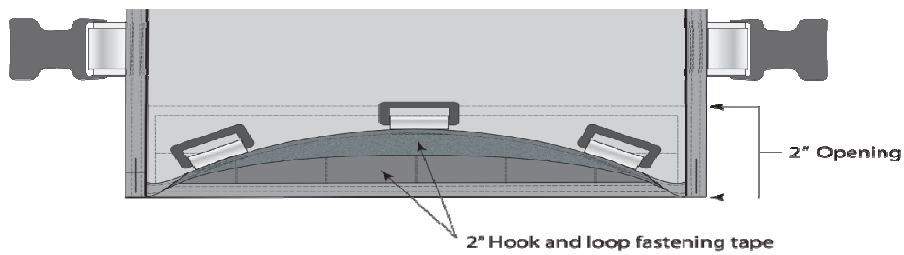


Figure 7 MLCS Back Yoke Back View Showing Bottom Opening



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ATTACHMENT 2 TO APPENDIX 7 TO ANNEX CB TO VOLUME 2

MLCS PLATFORM ASSEMBLY INSTRUCTIONS




FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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MLCS Sewing Guidelines for components

	<p>Strap with Side Squeeze Buckle</p> <p>To prevent the buckle from sliding off the webbing straps the end of the webbing is finished with a tab. To form the tab, fold the end under 1 1/2" twice.</p> <p>To secure the tab, stitch across the end of the webbing 3X at 1/4" gauge, catching all 3 layers of the webbing. A minimum of 1" long bar tack can also be used.</p>
	<p>Bar Tack</p> <p>Stitch type 304, 28 stitches/25 mm (28 stitches/1")</p> <p>A 1" bar tack is used throughout the MLCS to secure the ends of binding tape, the top corners of the mesh map pocket, the corners of the back plate carrier pocket. The extraction handle is attached to the back with a 2" long bar tack.</p>
	<p>Sewing Hook and Loop Tape Fastener</p> <p>Topstitch tape fastener to material at 3 mm (1/8") gauge.</p>

Ends of webbing must be heat cut to prevent fraying

Stitching must be stitch type 301- lockstitch, 3-4 stitches /cm (8-10 stitches / inch)

Backstitch the ends of seams 3-4 stitches to secure the beginning and/or end of seams where no other method is used.

When stitching the columns over the horizontal webbing on the front and back panels, reinforce the stitching over each webbing with 3 rows of stitching.

Ends of binding tape must be turned under 1" and bar tacked in place.

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ASSEMBLY INSTRUCTIONS

1.0	Chest Rig- Prepare Front Shell Panel
1.1	With right sides together sew the shoulder pieces to the top panels at 9.5mm (3/8") seam allowance. Double topstitch the seam at 1.6 mm (1/16") gauge with topstitching 6mm (1/4") apart.
1.2	A piece of 5 cm (2") hook fastening tape measuring 56 cm (22") for size Medium must be topstitched at 3mm (1/8") gauge to the wrong side or coated side aligned along the bottom edge of the panel.
2.0	PALS Webbing Grid
2.1	The right side of the shell material must include 7 sections of Mil Spec AA55301, 25mm (1") webbing placed across the front horizontally spaced 1" apart as per the paper patterns.
2.2	The webbing is stitched to the shell material at 3.8 cm (1 1/2") intervals. The stitching must form columns on the front panel of the chest rig by starting the vertical lines of stitching at the shoulder strap seam that continues to the bottom of the last horizontal row of webbing at the bottom of the chest rig. Refer to Figure 1 in Vol. 2, Annex CB, App. 7, Att. 1, to the sealed patterns and to the paper patterns for reference.
2.3	Over each row of webbing, the webbing must be reinforced with 3 rows of stitching.
3.0	Prepare Shoulder Tabs
3.1	The shoulder tabs measure 7.6 x 20 cm (3" x 8") long and are sewn to neckline of the shoulder. Prepare the shoulder tab prior to sewing to neckline of shoulder piece by sewing on the hook and loop fastener first.
3.2	Place a piece of loop fastening tape measuring 5 x 7.6cm (2" x 3") long onto the tab end sewn to the neckline. Do not place the loop tape aligned with the edge of the tab but 9.5mm (3/8") from the end. Topstitch in place.
3.3	Place the hook fastening tape measuring 5 x 7.6cm (2" x 3") long onto the opposite end of the tab but on the underside or coated side of the material. Align the hook tape with the edge of the tab and topstitch in place.
3.4	Bind along 3 edges of the shoulder tab with a double needle topstitch, rows of stitching at 6 mm (1/4") apart.
3.5	Place the finished tab with the right side facing up (loop tape side) tape onto the shoulder strap 12.7 mm (1/2") down from the shoulder strap end and aligned with the edge of the neckline. Stay stitch in place. This will be covered with binding tape later.
4.0	Back Lining Panel
4.1	Prepare Plate Carrier

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4.1.1	Prior to sewing the shoulder piece to the back lining panel, the plate carrier panel edges are bound with 19 mm ($\frac{3}{4}$ ") binding tape. Bind the sides and the bottom edges using a double needle topstitch. The top edge is left unbound.
4.1.2	On right side of plate carrier, place 2 pieces of loop fastening tape measuring 5 cm x 21.6 cm (2"x 8.5") pieces aligned next to each other to form a 10 cm (4") wide area of loop tape centered along the bottom bound edge of the of the plate carrier. Sew both pieces of loop tape individually. Topstitch across both sections of the loop tape diagonally forming an "X".
5.0	Prepare Back Panel
5.1	Topstitch the label onto the right side of back lining panel, centered on the panel 3.8 cm (1 $\frac{1}{2}$ ") down from the neckline.
5.2	Place the plate carrier coated side to the coated side of the back lining panel aligned at the neck edge. With right sides together, sew the shoulder pieces to the back panel at 9.5 mm ($\frac{3}{8}$ ") seam allowance.
5.3	Topstitch onto back panel shoulder area a 5 x 25cm (2" x 9.75") piece of loop fastening tape along the length of the shoulder and as indicated on the pattern. (Be careful not to catch the plate carrier in the stitching.)
5.4	Double topstitch the shoulder seam including the hook tape at 6 mm ($\frac{1}{4}$ ") gauge.
5.5	In order to sew the plate carrier to the back panel the position of this placement is marked with a 19 mm ($\frac{3}{4}$ ") binding tape. The binding tape is positioned onto back lining panel as indicated on the pattern which measures approximately 6.3cm (2 $\frac{1}{2}$ ") down from the top of the panel and 19mm ($\frac{3}{4}$ ") in from the sides. The binding tape is topstitched down forming a square shape, down along the sides 23.5cm (9 $\frac{3}{4}$ ") and 28 cm (11") along the bottom.
5.6	The bottom flap to the plate carrier is sewn onto the bottom section of the 19mm ($\frac{3}{4}$ ") binding tape.
5.7	Prior to sewing the flap on it is bound with 19 mm ($\frac{3}{4}$ ") binding tape, all edges, double needle at $\frac{3}{16}$ " gauge.
5.8	On the wrong side of the flap, a 5cm (2") piece of hook fastening tape measuring 22 cm (8.5") is aligned along one edge, and topstitched in place.
5.9	Place the opposite end of the flap, wrong side up and centered onto the bottom section of the 19mm ($\frac{3}{4}$ ") binding tape. Double topstitch in place at $\frac{3}{16}$ " gauge. Note: this may also be sewn on after the 2" loop tape is sewn to the bottom edge of the back panel.
5.10	Stitch down the sides of the plate carrier aligned it with the 19mm ($\frac{3}{4}$ ") binding tape on the back panel with a double topstitch at 5mm ($\frac{3}{16}$ ") gauge. Note: the stitching of the sides start at where the 19mm ($\frac{3}{4}$ ") binding on the back lining panel starts, approx. 6 cm (2 $\frac{1}{2}$ ") down from the top of the panel. This forms a top corner that is left open.
5.11	Bind along the bottom edge of the back lining panel with 25mm (1") binding tape.

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5.12	Four plastic 25mm (1") sewn to the bottom of the back panel along the binding tape and positioned as shown on the paper pattern. The loops are attached to the bottom with 25mm (1") webbing straps.
5.13	Each loop will require a 8 cm (3 ¼") section of Mil Spec AA55301, 25mm (1") webbing. Thread the webbing through the plastic loop and stitch to the wrong side of back lining panel aligned along the bottom so the edge of the loop with webbing extend past the bottom of the panel and the remainder of the webbing is facing upwards. Stitch in place with 2 rows of stitching.
5.14	Topstitch a piece of loop fastening tape measuring 5 x 56cm (2" x 22") along the bottom, of the wrong side of the back panel covering the webbing from the plastic loops.
5.15	Prepare the mesh map pocket prior to sewing to the back panel by binding all edges with 25mm (1") binding tape with a double needle topstitch at 6mm (¼") gauge.
5.16	Place the mesh pocket on the right side (uncoated side) of the back lining panel as indicated on the pattern and topstitch the pocket along the sides and bottom to the back panel.
6.0	Prepare Waist Straps
6.1	Thread a piece of Mil Spec AA55301, 38mm (1 ½") webbing measuring 56cm (22") long through a male 38mm (1 ½") side release adjustable buckle. Finish the end of the webbing that will not be sewn to the waist section of the rig, with a tab that is turned under twice at 3cm (1 ¼"). Secure the tab in place with a 1" bar tack. Refer to general sewing guidelines for instructions.
7.0	Assemble Chest Rig
7.1	Place the back lining panel onto the front with wrong sides together and stay stitch along the edges with the exception of the bottom. Bind along these edges with 25mm (1") binding tape. Double needle topstitch at 6mm (¼") gauge
7.2	Attach the waist straps to the sides of the chest rig by folding the end the webbing under 9.5mm (3/8") and sewing the sides aligning the folded edge of the webbing with the inner edge of the binding tape. Topstitch on with 2 rows of stitching reinforced 3 times. Placement is as indicated on the pattern and the sealed sample. The location along the side is as indicated on the pattern.
8.0	Back Yoke
8.1	Prepare Shoulder Straps- Shell
8.1.1	With right sides together, sew the shoulder straps to the front panel of the back yoke with 9.5mm (3/8") seam allowance.
8.1.2	Place a piece of 5 cm (2") hook fastening tape measuring 22 cm (8.5") along the shoulder strap aligned at the top edge of the strap and topstitch to fabric.
9.0	Prepare Shoulder Straps- Lining
9.1	With right sides together, sew the lining shoulder straps to the back lining panel of the back yoke with 9.5mm (3/8") seam allowance.
10.0	Back Lining Panel
10.1	Bind the bottom edge of the back lining panel with 1" binding tape with a double needle topstitch at ¼" gauge.

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10.2	Place 3 - 1" plastic rectangular loops with webbing straps along the bottom located as indicated on the paper patterns. The webbing straps are comprised of MIL spec AA55301, 1" webbing that measures 3" long threaded through the 1" plastic loop. The webbing strap is then placed along the bottom edge so that the edge of the loop with webbing extends past the bottom of the panel and the remainder of the webbing is facing upwards. Stitch in place with 2 rows of stitching.
10.3	Place a piece of 2" loop fastening tape measuring 8.5" along the bottom edge on the wrong side (coated side) of the fabric and topstitch in place covering the plastic loop webbing straps.
11.0	Prepare Shell Panel
11.1	Place a piece of 2" hook fastening tape measuring 8.5" along the bottom on the wrong side (coated side) of the fabric and topstitch in place. Bind the bottom edge of the back lining panel with 1" binding tape with a double needle topstitch at ¼" gauge.
12.0	Prepare the Extraction Handle
12.1	Prior to sewing the extraction handle to the shell, the handle section of the strap is prepared first. The handle is formed from a section of 2" MIL 17337 webbing measuring approx. 33" long.
12.2	The handle section of the strap is formed by folding the strap in half so that both ends are even. Create a handle at the folded end of the webbing by folding the webbing lengthwise. Stitch in place with two full box stitches for a total measurement of 3".
12.3	Open the ends of the handle section and place on shell panel as indicated on the pattern. The handle should be centered on the shell panel with the ends extending down towards the waist. The width of the handle measures 6 ¼". Refer to Figure 4 in Appendix 1. The base of the handle is bar tacked to the shell material with a 2" bar tack.
12.4	Topstitch the long ends of the handle to the shell material.
	Line up the shell panel to the lining panel, wrong sides together. Insert a strip of 1/8" EVA 50 foam that measures 2" x 8.5 into the shoulder strap area aligned with the top edge. Stitch along the bottom and the top of the hook tape through all layers of materials to hold in place. Stay stitch along the sides of the back yoke to keep the two layers from moving. Sew a single line of stitching along the top edge of where the hook and loop are underneath.
13.0	PALS Grid Webbing
13.1	The right side of the shell material must include 6 sections of Mil Spec AA55301, 25mm (1") webbing placed across the front horizontally as per the paper patterns and spaced 1" apart.
13.2	The webbing is stitched down every 1 ½" with a vertical row of stitching that starts at the top of the first row of webbing and continues to the bottom of the 6 th row of webbing. This will create 6 columns of 1 ½" of space between the rows of stitching. The rows of stitching must be straight and in line with each other. Stitch through shell and the lining. The stitching over the webbing must be reinforced 3 times. Refer to Figure 1 and 4 in Appendix 1 to the sealed patterns and to the paper patterns for reference.

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13.3	A single horizontal row of Mil Spec AA55301, 25mm (1") webbing is placed 25mm (1") up from the bottom edge of the panel. It is stitched down in 38mm (1 ½") intervals creating 6 columns in line with the columns on the rest of the webbing.
13.4	The space between the bottom row of webbing and the 6 th row of webbing will include the waist strap with a female buckle on each side, but will be sewn on after the shell and lining are assembled.
14.0	Prepare Plate Carrier
14.1	On the right side of plate carrier topstitch two strips of 25mm (1") binding tape as indicated on the paper patterns. Topstitch 25mm (1") binding tape to the top edge of the plate carrier. Bind this top edge with 25mm (1") binding tape using a double needle topstitch at ¼" gauge. Bind the bottom edge of the plate carrier with 25mm (1") binding tape with a double needle topstitch at 6mm (¼") gauge.
15.0	Prepare Elastic Panel
15.1	Line up two 2 pieces of 15cm wide x 25 cm long (6" wide x 10" long) woven elastic and bind the top edge with 25mm (1") binding tape, double needle topstitched at 6mm (¼") gauge.
15.2	Align the bound edge of the double elastic panel along the edge of the neckline and single needle stitch at 3mm (1/8") gauge through both layers of fabric. Single needle stitch the sides to the yoke side at 3mm (1/8") gauge.
16.0	Assemble Back Yoke
16.1	Align the top of the plate carrier to the bottom of the elastic panel and single needle stitch the sides of the plate carrier to the sides of the yoke back at 1/8" gauge. Stitch the bottom of the carrier to the panel through all layers of fabric.
16.2	Single needle stitch along the top edge of the hook and loop opening at the bottom of the yoke.
16.3	Bind the edges of the back yoke which includes the sides the shoulder straps and the neck with 25mm (1") binding tape double needle topstitched at 6mm (¼") gauge.
16.4	The waist strap with side buckles is sewn onto the front of the yoke in the space between the two bottom rows of horizontal webbing. The waist strap is constructed from 2 pieces of webbing, the base piece is MIL spec AA55301, 38mm (1 ½") webbing that measures 35.5cm (14") long. A piece of MIL-W-17337, 25mm (1") webbing is centered on top measuring 35.5cm (14") long.
16.5	Thread each end of the two layers of webbing through a 38mm (1 ½") female buckle. Edgestitch the 38mm (1 ½") webbing to the panel stopping 38mm (1 1/2") from the sides.
16.6	Center the 25mm (1") webbing on the base webbing and stitch vertically over the webbing at 38mm (1 ½") intervals making sure the columns of stitching line up with the other columns on the yoke.
16.7	Fold under the ends of the webbing and single needle 2 rows of stitching reinforced 3 times each the webbing to the yoke sides at the binding tape. The end of the buckle should be a 6mm (¼") from the edge of the binding tape.

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ATTACHMENT 3 TO
APPENDIX 7 TO ANNEX CB TO VOLUME 2

MLCS PLATFORM FOAM SPECIFICATIONS

FOR THE
ACQUISITION OF THE
INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

HISTORY

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Performance Requirements for Type 1 Polymeric Foam

TABLE 1 - Unprocessed Single Ply Foam Stock (for lamination) trade name EVAZOTE EVA-50 by Zotefoams Inc.

PROPERTY	METHOD	Units	TYPICAL VALUES REQUIREMENT	MINIMUM	MAXIMUM
FOAM TYPE		%	Closed Cell	95%	100%
DENSITY	ISO 845	Kg/m ³	47	40	52
THICKNESS		mm	As required by the solicitation or to meet performance requirements	Industry standard	Industry standard
TENSILE STRENGTH	ASTM D412 Die A	kPa	700	600	900
ELONGATION	ASTM D3575	%	130	100	
TEAR RESISTANCE	ASTM D624 Die "C"	Lb/in		14	
Compression Set @ 50%, 24 Hr recovery	ASTM D3575	%			18
COMPRESSION DEFLECTION @ 25%	ISO 7214	Kpa		29	63
COMPRESSION DEFLECTION @ 50%	ISO 7214	Kpa		72	142
Operation Conditions		^o F ^o C		-95 -70	+150 +65

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ATTACHMENT 4 TO APPENDIX 7 TO ANNEX CB TO VOLUME 2

MLCS PLATFORM ELASTIC SPECIFICATIONS

FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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HISTORY

Revision	Date	Description

Test No.	Property	Test Method	Specified Requirements	Minimum Acceptable	Maximum Acceptable
1.	Width (mm)	ASTM D3774	150	148	152
2.	Mass (g/linear meter)	ASTM D3776	126	112	137
3	Extension/Elongation - as received (after 3 cycles) - after accelerated aging (after 3 cycles)	ASTM D4964 Report loop tension at elongation of: - 30% - 50% ASTM D573 Oven temperature: 300° F time exposure: 2 hrs - 30 % - 50%	 39 N 52 N 10N 19 N	 30 N 40 N 8N 16 N	 50 N 60 N 15N 24 N
4	Permanent Set - as received - after accelerated aging	<u>See Note #1</u> for permanent set test method. Oven temperature - 300° F time exposure: 2 hrs	 0.27 % stretch 6.6 % stretch		 0.30 % 7.0 %

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Note #- 1 Permanent Set Test Method

Three test specimens each measuring 14 inches shall be cut and marked so that a distance of 10 inches (measurement A) is between the gage marks. The specimens shall then be stretched 50 percent, held at that elongation for 24 hours under standard conditions, and then released and allowed to rest for 10 minutes. The distance between the gage marks of the three specimens shall be remeasured, averaged and recorded as measurement b. The percent set shall be calculated as below and reported to the nearest 0.1 percent.

Percent permanent set = $(B-A) / A \times 100$

Where A = initial measurement and

B = measurement after permanent set.

ATTACHMENT 5 TO
APPENDIX 7 TO ANNEX CB VOLUME 2

CFTPO-ISS-MLCS PLATFORM

FOR THE
ACQUISITION OF THE
INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

RFP - N° de la DP
W8476-112965/B

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Volume 2, Annex CB Appendix 7 Attachment 5

HISTORY

Revision	Date	Description

1. The Integrated Soldier System (ISS) Modular Load Carriage System (MLCS) consists of the items listed below:																
<table border="1"><thead><tr><th>Item Description</th><th>NATO Stock Number</th><th>Unit of Issue</th></tr></thead><tbody><tr><td>a ISS MLCS, Small</td><td rowspan="5">NSN as specified on contract</td><td>AY</td></tr><tr><td>b ISS MLCS, Medium</td><td>AY</td></tr><tr><td>c ISS MLCS, Front, Small</td><td>EA</td></tr><tr><td>d ISS MLCS, Front, Medium</td><td>EA</td></tr><tr><td>e ISS MLCS, Back</td><td>EA</td></tr></tbody></table>	Item Description	NATO Stock Number	Unit of Issue	a ISS MLCS, Small	NSN as specified on contract	AY	b ISS MLCS, Medium	AY	c ISS MLCS, Front, Small	EA	d ISS MLCS, Front, Medium	EA	e ISS MLCS, Back	EA		
Item Description	NATO Stock Number	Unit of Issue														
a ISS MLCS, Small	NSN as specified on contract	AY														
b ISS MLCS, Medium		AY														
c ISS MLCS, Front, Small		EA														
d ISS MLCS, Front, Medium		EA														
e ISS MLCS, Back		EA														
2. Package item(s) in a polyethylene (or other transparent film) bag or envelope, made of material not less than one (1) mil thickness. The bags shall be taped or stapled to effect closure and shall be legibly marked (labelled) as follows:																
NATO Stock Number (NSN) * - As specified on contract																
Nomenclature (including size) ** - As specified on contract																
Quantity / Unit of Issue - As applicable (1 EA OR 1 AY)																
For initial distribution Items shall be <u>consolidated</u> into a single package based on size → Size small consists of items (c) & (e), size medium consists of items (d) & (e)																
For Depot stock Items (c-e) shall be <u>individually packaged</u>																
3. A quantity of packages, of the same NSN, shall be packed into a corrugated fibreboard box conforming to Canadian General Standards Board (CGSB) specification CAN/CGSB-43.22-2001. The box size and content quantity shall be uniform for the duration of the contract. Suggestion as follows:																
No material handling equipment required – Overall inside dimensions (length, width and depth added) shall not exceed 1.5 metres (59 inches). The maximum weight of the box and contents shall not exceed 18 kilograms (40 pounds).																
Material handling equipment required – The box(es) shall be compatible with the requirements of paragraph 8.																
4. Closure of the corrugated fibreboard box shall be in accordance with CGSB specification CAN/CGSB-43.22-2001 (Appendix B).																
5. On one end of each corrugated fibreboard box, stencilling or labelling, in figures as large as practicable in relation to the space available, shall legibly mark the following information:																
NATO Stock Number (NSN) * - As specified on contract																
Nomenclature (including size) ** - As specified on contract																
Quantity (per box) / Unit of Issue - As applicable (1 EA OR 1 AY)																
Gross Weight (nearest kg) - As applicable																
Contract Serial Number - As specified on contract																
6. On one side of each corrugated fibreboard box, stencilling or labelling, in figures as large as practicable in relation to the space available, shall legibly mark the following information:																
Consignee - As specified on contract																
Consignor - Supplier's name or symbol																
Case ___ of ___ cases - As applicable within each shipment																
7. The last shipping container of each shipment shall have affixed to the side on which the shipping instructions are contained (paragraph 6), an envelope containing the Packing List, Release Note, etc. This water-resistant envelope shall be prominently marked "Packing List Enclosed" and shall be securely affixed to the outside wall of the container.																
8. Shipments shall be palletized in uniform loads (grouped by NSN) and strapped/secured on standard 4-way entry, 48-inch by 40-inch wood or fibreboard non-returnable pallets, to be supplied by the contractor. Total height, including pallet, shall not exceed 47 inches.																
* Marking shall be applied using Bar Code Symbology GS1-128 with AI 7001, including HRI (in accordance with D-LM-008-002/8F-001)																
** Bilingual format – English / French																

Canadian Forces Transportation Packaging Order		Date 16 May 2011		Sheet 1 of 2	
CFTPO-ISS-MLCS		Nomenclature As specified on contract		Based on As specified on contract	
		Design Engineer DSCO 5-4-3		Approval Stamp 	
		Drillman H. Fraser		Checker H. Fraser	

CF 798

1. La Veste de Transport de Charge Modulaire Tactique (VTCMT), du Système Intégré de Soldat (SIS), se compose des articles énumérés ci-dessous :		
	Description de l'article	NNO
a	SIS VTCMT, Petit	Unité de mesure
b	SIS VTCMT, Moyen	AY
c	SIS VTCMT, Avant, Petit	Numéro de nomenclature OTAN
d	SIS VTCMT, Avant, Moyen	- selon le contrat
e	SIS VTCMT, Arrière	EA
2. Emballer le(s) article(s) dans un sac ou une enveloppe en polyéthylène (ou une autre pellicule transparente), dont l'épaisseur est d'au moins un (1) mil. Les sacs doivent être scellés à l'aide d'un ruban adhésif ou d'agrafes, et l'information suivante (inscrite sur une étiquette) doit figurer lisiblement sur chacun :		
Numéro de nomenclature OTAN (NNO)* - Selon le contrat		
Nomenclature (comprenant la taille) ** - Selon le contrat		
Quantité (par conteneur) / Unité de mesure - Selon le cas (1 EA ou 1 AY)		
La distribution initiale Les articles doivent être regroupés dans un seul paquet - basé sur la taille → la taille petite est composé des articles (c) & (e), la taille moyenne est composé des articles (d) & (e)		
Le stockage à l'entrepôt Les articles (c-e) doivent être emballés individuellement		
3. Une quantité de paquets, de la même NNO, doivent être placés dans un conteneur en carton dur ondulé, conformément à la norme CAN/CSG-43.22-2001 de l'Office des normes générales du Canada (ONGC). La taille du conteneur et la quantité contenue doivent demeurer la même pour la durée du contrat. Voici des suggestions :		
Aucun équipement de manutention nécessaire - Les dimensions générales intérieures (somme de la longueur, de la largeur et de la hauteur) ne doivent pas dépasser 1,5 m (59 po). Le poids maximal du conteneur, avec son contenu, ne doit pas dépasser 18 kg (40 lb).		
Équipement de manutention nécessaire - Les conteneurs doivent être compatibles aux exigences du paragraphe 8.		
4. La fermeture du conteneur en carton dur ondulé doit être conforme à la norme CAN/CSG-43.22-2001 (appendice B) de l'ONGC.		
5. Sur une extrémité de chaque conteneur en carton dur ondulé, l'information suivante doit figurer lisiblement en caractères aussi grands que permis par l'espace disponible (inscrite à l'aide d'un pochoir ou sur une étiquette) :		
Numéro de nomenclature OTAN (NNO)* - Selon le contrat		
Nomenclature (comprenant la taille) ** - Selon le contrat		
Quantité (par conteneur) / Unité de mesure - Selon le cas (1 EA ou 1 AY)		
Poids brut (arrondir au kg) - Selon le cas		
Numéro de série du contrat - Selon le contrat		
6. Sur un côté de chaque conteneur en carton dur ondulé, l'information suivante doit figurer lisiblement en caractères aussi grands que permis par l'espace disponible (inscrite à l'aide d'un pochoir ou sur une étiquette) :		
Destinataire - Selon le contrat		
Expéditeur - Nom ou marque du fournisseur		
Conteneur __ de __ - Selon chaque cargaison		
7. Le dernier conteneur d'expédition de chaque cargaison, doit porter sur le côté où l'on retrouve les instructions d'envoi (paragraphe 8), une enveloppe contenant le bordereau d'expédition, le bordereau de libération, etc. Cette enveloppe, résistante à l'eau, doit porter clairement les mots «bordereau d'expédition ci-inclus» et doit être bien fixée à la paroi extérieure du conteneur.		
8. L'entrepreneur doit fournir des palettes standard de type perdu, en bois ou en carton dur ondulé, accessibles des quatre côtés et mesurant 48 po sur 40 po. Les conteneurs doivent y être disposés uniformément (groupés par NNO) et solidement arrimés. La hauteur totale, y compris la palette, ne doit pas dépasser 47 po.		
* Les marques doivent être apposées au moyen de la symbologie code à barres GS1-128, avec le numéro d'identification d'application IA 7001, y compris la traduction en clair TC (conformément à la D-UM-008-002/SF-001)		
** Format bilingue - Anglais / Français		

Commande d'Emballage pour la Transport - Forces canadiennes

CETFC-ISS-MLCS

Destination
H. Fraser
Vancouver

Ingénieur études
H. Fraser
DOCA 5-4-3

Scalé d'approbation

Date
16 Mai 2011

Page
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Nomenclature
Selon le contrat

Basé sur
Selon le contrat

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APPENDIX 8 TO ANNEX CB TO VOLUME 2

ISS GENERIC POUCHES TDP MANUFACTURING DATA

FOR THE
ACQUISITION OF THE
INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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1. SCOPE

1.1 Scope. This manufacturing data covers the materials and construction in order to be able to manufacture a Pouch Attachment Ladder System (PALS) compatible pouch for ISSP electronic devices.

2 APPLICABLE DOCUMENTS

2.1 Government documents. The following documents form part of the Manufacturing Data to the extent specified herein.

2.1.1 SPECIFICATIONS AND STANDARDS

D-80-001-055/SF-001	Label, Clothing and Equipment
D-LM-008-036/SF -000	DND Minimum Requirements for Manufacture's Standard Pack
D-LM-008-002/SF-001	Specifications for Marking for Storage and Shipment
DSSPM 2-2-80-211	Specification for Cloth Coated Nylon/ Polyurethane, 425 g/m ² *Available on request
D-80-001-091/SF-001	Cloth, Plain Weave, Nylon, 195 g/m ² and 230 g/m ² *Available on request
D-80-001-500/SF-001	Specification for CADPAT™ TW [Canadian Disruptive Pattern, (Temperate Woodland)] * Available on request

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Canada

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2.2 Drawings.

CS -108	Eyelet
CS- 110	Spur washer

2.3 Other Publications.

Canadian General Standards Board (CGSB)
11 Laurier Street
Place du Portage, Phase III
Gatineau, Québec, K1A 1G6
Tel : (819) 956-0425
Email : ncr.cgsb-pmgc@pwgsc.gc.ca

CAN/CGSB -4.2	Textile Test Methods
CAN/CGSB-54.1M	Stitches and Seams, Part I and II
CAN/CGSB- 4GP-85-Ma	100 % Nylon (type 6.6) Bonded Thread
MIL-PRF- 5038J	Tape, Textile and Webbing, Textile, Reinforcing, Nylon
MIL commercial specification	AA- 55126B Fastener Tapes, Hook and Loop, Synthetic
MIL commercial specification	AA- 55301 Webbing, Textile, Textured or Multifilament Nylon

2.4 Sealed Patterns

DSSPM 259-01	Cloth, Twist, Cotton/Nylon, Lightweight, CADPAT™ (TW) (Disruptive Pattern Temperate) for pattern, motif size, colour distribution, clarity and colour guidance
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DSSPM 281-01

Cloth, Twist, Cotton/Nylon, 170 g/m²,
Canadian Average Green (For Colour
and IRR Properties)

3.0 REQUIREMENTS

3.1 Materials

3.1.1 Shell Fabric. The material for the pouch must be textured high tenacity nylon, polyurethane coated, 425 g/m² cloth in accordance with specification DSSPM 2-2-80-211, Type I. The colour must be CADPAT Temperate Woodland (TW) in accordance with D-80-001-500/SF-001. IR reflectance is required.

3.1.2 Lining Fabric. The shell material of the pouch must be lined with a 100 % nylon, plain weave, polyurethane coated, 230 g/m², Type II, material in accordance with specification D-80-001-091/SF-001. The colour must be Canadian Average Green (CAG) in accordance with specification D-80-001-500/SF-001 for CADPAT TW pouches. IR Reflectance is not required.

3.1.3 Hook and Loop Fastening Tape. The hook and loop fastening tape, where applicable, must be in accordance with commercial MIL spec A-A-55126B, Type II, Class I. The colour must be CAG in accordance with specification D-80-001-500/SF-001 for CADPAT TW pouches.

3.1.4 Grommet. The base of the pouch must have a grommet for drainage. The grommet must be made of brass, size #00 rolled rim eyelet and spur washer in accordance with drawings CS-108 and CS- 110. The grommet must have a dull black chemical finish in accordance with MIL-F-495.

3.1.5 Side Release Buckle Assembly– 25mm (1”). If a pouch lid is provided, the pouch lid must have a 1” side release adjustable buckle assembly consisting of a male and female buckle. The buckle assembly must be made of polyacetal (POM). The colour of the buckle must be CAG in accordance with sealed pattern DSSPM 281-01 and to specification D-80-001-500/SF-001 for CADPAT TW pouches. P/N LB25WG from YKK is known to meet this requirement. IR reflectance is required.

3.1.6 Webbing-25mm (1”). The pouch must include webbing to attach the side release buckle to the pouch and for the PALS attachment straps. The webbing must be 1” wide and conform to MIL commercial specification A-A-55301 formerly MIL-W-43668, Type III. The colour of the webbing must be CAG in accordance with specification D-80-001-500/SF-001 for CADPAT TW pouches. IR reflectance is required.

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3.1.7 Nylon Binding Tape- 19 mm ($\frac{3}{4}$ ”). All exposed raw edges must be finished with 19mm ($\frac{3}{4}$ ”) nylon binding tape in accordance with MIL-PRF-5038J, Type III. The colour must be CAG in accordance with specification D-80-001-500/SF-001 for CADPAT TW pouches. IR reflectance is required.

3.1.8 High Density Polyethylene (HDPE). A narrow strip of HDPE (plastic sheeting) must be used in the fabrication of the PALS attachment straps. The thickness of the HDPE must be .015 “ and must meet the specification at Vol.2, Annex CB, App. 8., Att., 2 and must be in the colour black. For the dimensions of the strip required for the attachment straps refer to Table I- Strap Lengths.

3.1.9 Thread. The thread used for the construction of the pouch must be 100% bonded nylon, lubricated, 3-ply, 720 Denier or 70 tex conforming to CGSB Specification 4GP-85-Ma. The colour of the thread must be a good visual match to CAG for CADPAT TW pouches.

3.1.10 Label. A marking label must be made in accordance with D-80-01-055/SF-001 and positioned as indicated in para 3.5. The colour of the label must be a good visual match to CAG in accordance with sealed pattern DSSPM 281-01.

3.2 Cutting.

3.2. 1 The shell and the lining fabrics must be cut in the direction of the warp.

3.2. 2 The methodology used to mark the placement of materials such as webbing on the fabric is left to the contractor's discretion. However no process where the marking damages the shell fabric is permitted.

3.2.3 The specified materials must be cut and used in accordance with best commercial standards and practices.

3.3 Sewing

3.3.1 All seams and stitches must be in accordance with CAN/CGSB-54.1-M

3.3.2 All stitch must be stitch Type 301 lockstitch 3-4 stitches/ cm (8-10 stitches/inch).

3.3.3 The ends of all lock stitched seams and stitching and breaks in thread must be securely backstitched

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3.3.4 The stitches must present a regular even appearance without fabric pucker and must be free from skips that may result from faulty machine thread tension or other stitching malfunctions.

3.3.5 All double needle topstitching when specified must be lock or lock-chain stitched with the needles set 5 mm (3/16") apart and not less than 1.6 mm (1/16") from the edge.

3.3.6 Seam allowance is 9.5 mm (3/8") unless otherwise noted.

3.3.7 When stitching the front to the back panel, reinforce the top corners with a backstitch 2-3 times, 6-8 stitches in length. A 12.5 mm (1/2") long bar tack may also be used to reinforce the top corners.

3.3.8 All thermoplastic materials such as webbing, binding and cord must be heat cut or fused to prevent fraying.

3.4 Construction

3.4.1 Assembly instructions are provided in Attachment 1.

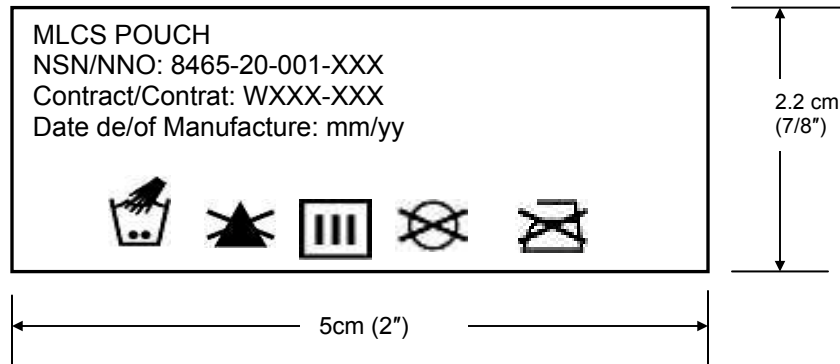
3.5 Marking Label. The MLCS Generic Pouch must include a label. The size of the label must measure 2" x 7/8" wide and must be topstitched onto the topside of one of the PALS attachment straps located on the back of the pouch. The label and marking must be in accordance with D-80-001-055/SF-100. Care symbols must be in accordance with CGSB/CAN -86-1-2003. See below for an example.

The marking must give the following information in French and English and must be in indelible black ink:

- a. contract number
- b. MLCS pouch nomenclature
- c. NATO Stock number
- e. Month and year of manufacture and
- f. Care symbols

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3.6 Packaging. Unless otherwise specified, packaging and marking as well as delivery shall be in accordance with Vol. 2, Annex CB, App 8, Att 3 and as per the terms of the Contract.



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ATTACHMENT 1 TO APPENDIX 8 TO ANNEX CB TO VOLUME 2

ISS GENERIC POUCHES ASSEMBLY INSTRUCTIONS

FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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HISTORY

Revision	Date	Description

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ASSEMBLY INSTRUCTIONS-MLCS GENERIC POUCH

1.0	Pouch Shell Construction
1.1	The outer shell of the pouch must be constructed with a 1000 denier air jet textured, high tenacity nylon 6.6 fabric that is lined with a 100 % nylon, plain weave Kiss coated material.
1.2	The base of the pouch must include a grommet for drainage that is centred on the bottom of the pouch through both layers of fabric.
1.3	If a pouch lid is provided, the lid must include 2 layers of shell fabric for stability in the center section of the lid.
2.0	Pouch Front and Lid
2.1	If a pouch lid is provided, the pouch lid must secure to the front of the pouch with an adjustable 25 mm (1") side release buckle.
2.2	If a pouch lid is provided, the female SR buckle must be attached to the lid front with a 2.5 x 10 cm (1" x 4") section of MIL spec A-A-55301 nylon webbing. The webbing is threaded through the buckle and formed into a strap that is positioned on the centre front of the lid, 2.5 cm (1") from the edge of the lid.
2.3	If a pouch lid is provided, the strap with buckle must be full box stitched (FBS) to the lid after through all layers of fabric and after the edge of the lid is bound with binding tape.
2.4	If a pouch lid is provided, the corresponding SR male buckle must be attached to the pouch front with 25 mm (1") MIL spec A-A-55301 nylon webbing strap. The webbing is threaded through the buckle and sewn to the pouch centered on the front and positioned along the bottom edge. Refer to Table III- Webbing Construction
2.5	If a pouch lid is provided, the end of the webbing strap not attached to the pouch is formed into a tab that is folded under twice 16 mm (5/8") and stitched in place with 3 rows of stitching at 3.0mm (1/8") from the edge or with a bar tack along the full width of the tab. Refer to Table II- General Sewing Instructions.
2.6	If a pouch lid is provided, the end of the webbing attached to the pouch must be turned under 25mm (1") and sewn with a FBS in place. Refer to Table II and III - General Sewing Instructions

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2.7	If a pouch lid is provided, the pouch must include a piece of hook and loop fastening tape that must effectively secure the lid to the pouch. For a square shaped pouch that is 10cm (4") wide in the front, must require a piece of loop tape that measures 5 x 7.6 cm (2" wide x 3" long)
2.8	If a pouch lid is provided, the loop fastening tape must be centered on the front top edge of the pouch with the long edge aligned with the binding tape. The loop tape must be topstitched onto the front through both layers of fabric at 3.0 mm (1/8") gauge.
2.9	If a pouch lid is provided, the hook fastening tape (5 x 7.6 cm) 2" x 3", must be centered on the inside of the lid on the lining, aligned along the edge of the binding tape and topstitched in place through both layers of fabric at 3.0 mm (1/8") gauge
3.0	PALS Attachment Straps
3.1	The straps to attach the pouch to a PALS platform must be situated on the back of the pouch. The straps must be constructed of 25 mm (1") MIL commercial specification A-A-55301 formerly MIL-W-43668, Type III nylon webbing. The length of the strap is dependant on the length of the pouch but generally there are 3 finished lengths of strap. The construction of the strap is made from one length of webbing that is folded over onto itself with 3.2 cm (1 ¼") of webbing left extended past the strap in order to attach to the pouch. A strip of .015" HDPE plastic is sandwiched in between the two layers of webbing.
3.2	With the strip of plastic (HDPE), in between the webbing, topstitch along the edges at 3.0 mm (1/8") gauge including the top and bottom folded edges
3.3	The bottom of the strap must be wrapped in a 25 mm x 6.35 cm (1" x 2 1/2") section of loop fastening tape that secures to an adjacent 25 mm x 6.35 cm (1" x 2 ½") section of hook fastening tape on the back of the pouch. Refer to Table 1 for webbing lengths. Refer to Figure I and II for construction details.
3.4	The completed unit must be sewn to the back of the pouch lined up at the top edge of the 25 mm (1") PALS webbing with a full box stitch. The edge of the 3.2 cm (1 ¼") extended section of the strap is lined up with the top of the first row of PALS webbing as shown in Figure IV of this Assembly Instruction.
4.0	Pouch Back- PALS Webbing
4.1	The back of the pouch must include horizontal rows of 25mm (1") MIL spec A-A-55301 nylon webbing to facilitate the attachment of the pouch to a PALS platform. The number of rows of webbing on the back of the pouch is dependant on the length of the PALS attachment straps. For a small pouch where straps that are 9 cm (3 ½") in length, one row is required. For medium sized pouches with straps 14 cm (5 ½") in length-

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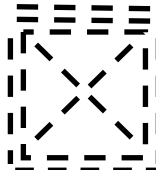

	2 rows are required. For larger pouches with straps 19 cm (7 ½") in length, 3 rows are required.
4.2	The rows of webbing extend across the width of the back and are spaced 25mm (1") apart. The ends of the webbing are stitched to the sides of the pouch back and caught in the binding tape and covered with the binding tape.
4.3	The first row is placed approximately 25mm (1") down from the top edge of the pack section of the pouch. For pouch widths of 4" and over, there must be a vertical row (s) of stitching over the webbing to create columns that are no more than 2" wide. For e.g. a pouch back that measures 4" wide would require one row of stitching down the centre, creating 2 columns that are 5cm (2") wide. Refer to Figure IV for details.
4.4	The back must include two PALS attachment straps and must be sewn to the pouch back as indicated in para 3.4 and Figure III.
4.5	A 25 mm (1") plastic loop made of acetal must be attached to the pouch back with a 1" nylon MIL spec A-A-55301 nylon webbing strap. The strap must be 2.5 x 7.5 cm (1" x 3") and threaded through the loop and folded in half. The loop with strap must be sewn to the back pouch aligned with the attachment straps and sewing place with a FBS through both layers of fabric. Refer to Table II- General Sewing Instructions for details.
5.0	Final Assembly
5.1	The edges of the pouch must be bound with 19 mm (¾") MIL-PRF-5038 nylon binding tape. The binding tape must be double needle topstitched with the needles set 5mm (3/16") apart.
5.2	The bottom corners of the pouch and the front and back are double topstitched together following the stitching lines of the applied binding tape. The top corners of the pouch where the front meets the back panel must be securely backstitched 2 times 6-8 stitches in length or with a 13 mm (½") long bar tack
5.3	The binding tape must be neatly applied with ends of the binding tape concealed in top corner seams where the front is joined to the back.

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TABLE I- PALS Attachment Strap

Pouch Sizes	Length of 1"webbing Required	Dimension of HDPE, Plastic Strip	Finished length of strap	Finished length of webbing including extension
Small Pouch	23.5 cm (9 1/4")	7/8" x 3 1/2"	8.9 cm (3 1/2")	12.0 cm (4 3/4")
Medium Pouch	33.7 cm (13 1/4")	7/8" x 5 1/2"	14.0 cm (5 1/2")	17.0 cm (6 3/4")
Large Pouch	43.8 cm (17 1/4 ")	7/8" x 7 1/2"	19.0 cm (7 1/2")	22.2 cm (8 3/4")

TABLE II - General Sewing Instructions

	<p>Strap with Side Squeeze Buckle</p> <p>To prevent the buckle from sliding off the webbing strap, the end of the webbing is finished with a tab. To form the tab, fold the end under 1 1/2" twice. To secure the tab, stitch across the end of the webbing 3 X at 1/4" gauge, catching all 3 layers of the webbing. A minimum of 1" lng bar tack can also be used.</p>
	<p>Bar Tack</p> <p>Stitch type 304, 28 stitches/25 mm (28 stitches/1") A bar tack may also be used to secure end of tab</p>
	<p>Full Box Stitch (FBS)</p> <p>Full box stitch is used to sew the side squeeze buckle straps to the pouch lid and body. Sew the FBS three times across stressed end, twice down both sides, full cross and twice on opposite end.</p>
	<p>Sewing Hook and Loop Tape Fastener</p> <p>Topstitch tape fastener to shell material at 3 mm (1/8") gauge.</p>

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TABLE III - Webbing Construction

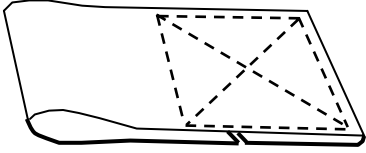
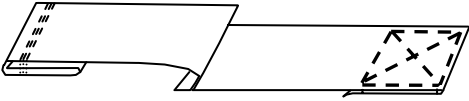
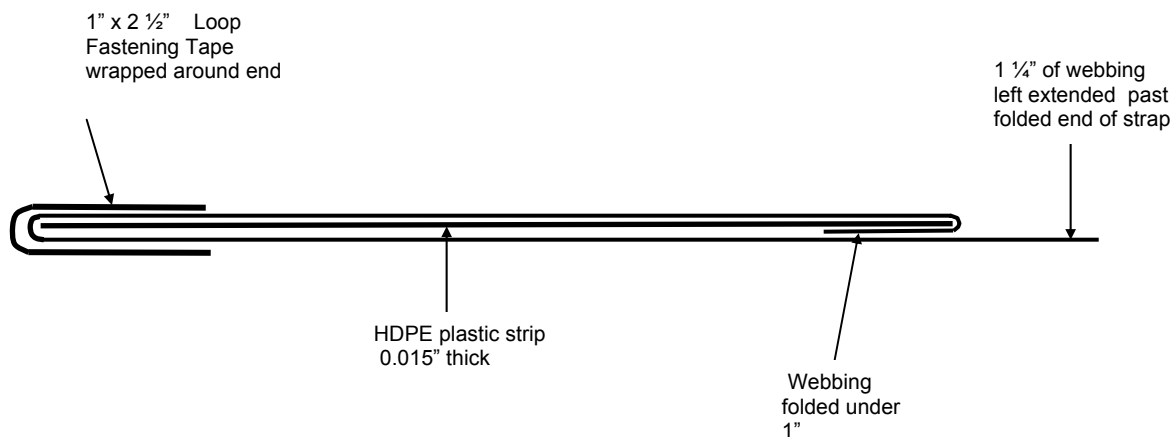
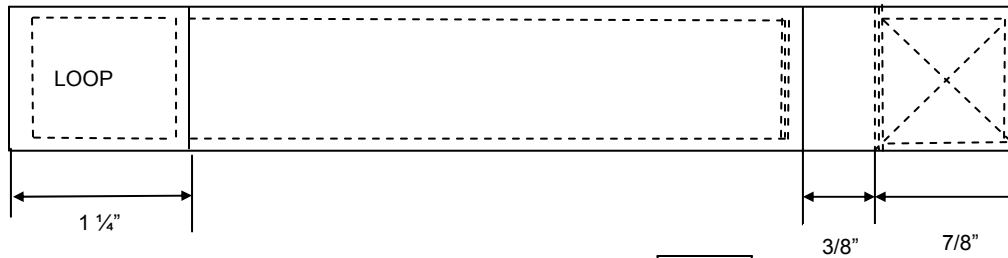
	<p>Female SR buckle strap construction</p> <p>1" x 4" section of MIL-W-43668 nylon webbing is threaded through female SR buckle. Both ends of webbing are folded under as shown in illustration and unit is FBS to pouch.</p>
	<p>Male SR Buckle strap construction</p> <p>1" x 7 1/2" section of MIL-W-43668 nylon webbing is threaded through male SR buckle. Buckle end of webbing has the tab that is turned under twice at 1/2" and can be either stitched 3X or bar tacked at 1/8" gauge as shown in illustration. Other end of webbing is folded under 1" and sewn to pouch with an FBS.</p>

FIGURE I
PALS Webbing Attachment Strap- Cross Section



**FIGURE II- PALS Webbing
Attachment Strap- Face View**



**FIGURE III -
Back Pouch View**

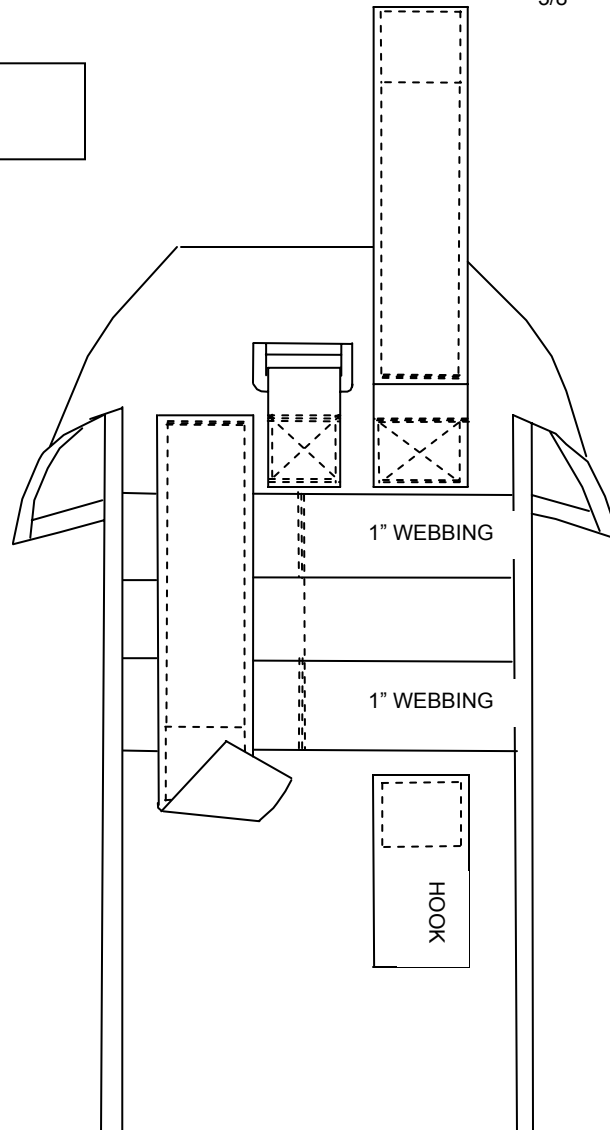
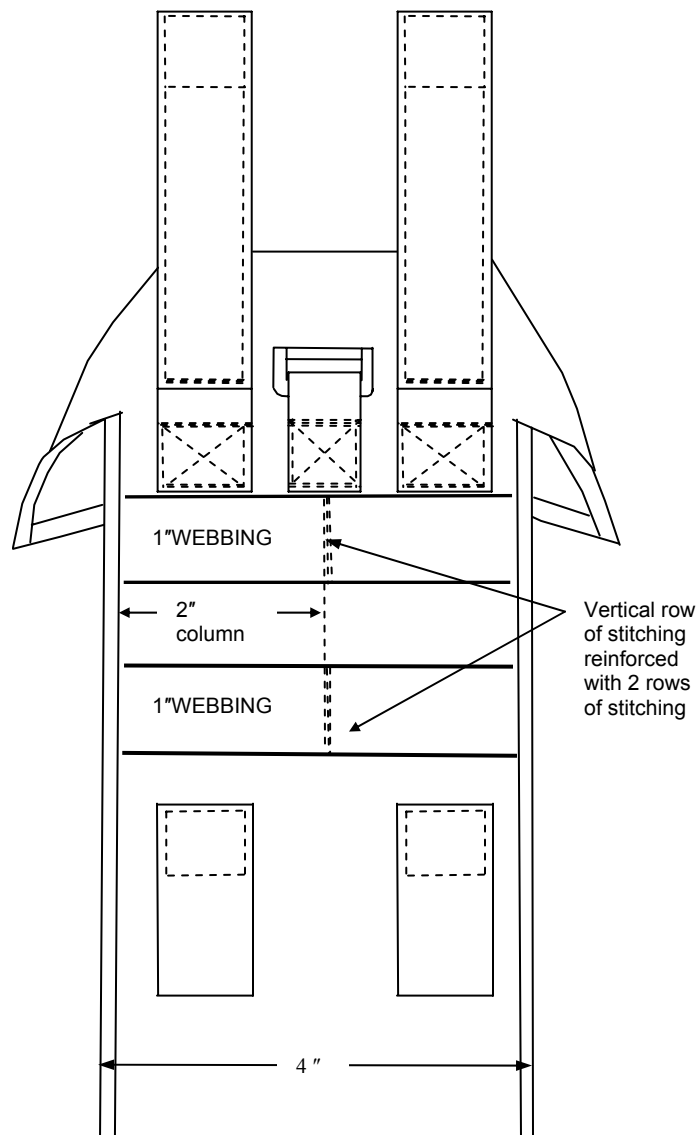


FIGURE IV – PALS Webbing Construction on Pouch Back



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ATTACHMENT 2 TO
APPENDIX 8 TO ANNEX CB TO VOLUME 2

ISS HIGH DENSITY POLYETHYLENE (HDPE) SPECIFICATIONS

FOR THE
ACQUISITION OF THE
INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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HISTORY

Revision	Date	Description

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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High Density Polyethylene Physical Properties

PROPERTY	METHOD	NOMINAL VALUE
TENSILE YIELD STRENGTH	D 638	34 Mpa
ULTIMATE ELONGATION	D638	>800%
FLEXURAL MODULUS	D 790	1240 Mpa
HARDNESS	D 2240	69 Shore D
BRITTLINESS TEMPERATURE	D 746	<- 76°C
SOFTENING POINT (VICAT)	D1525	125°C
DENSITY	D 1505	0.952 G/CM ³

ATTACHMENT 3 TO
APPENDIX 8 TO ANNEX CB TO VOLUME 2

CFTPO-ISS-MLCS GENERIC POUCHES

FOR THE
ACQUISITION OF THE
INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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W8476-112965/B

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Volume 2 Annex CB Appendix 8 Attachment 3

HISTORY

Revision	Date	Description


1. The Integrated Soldier System (ISS) Pouches consist of the items listed below:																	
<table border="1"><thead><tr><th>Item Description</th><th>NATO Stock Number</th><th>Unit of Issue</th></tr></thead><tbody><tr><td>a ISS Pouch Set</td><td></td><td>SE</td></tr><tr><td>b ISS System Component Pouch</td><td>NSN</td><td>EA</td></tr><tr><td>c ISS GPS Component Pouch</td><td>as specified on contract</td><td>EA</td></tr><tr><td>d ISS Display Component Pouch</td><td></td><td>EA</td></tr></tbody></table>	Item Description	NATO Stock Number	Unit of Issue	a ISS Pouch Set		SE	b ISS System Component Pouch	NSN	EA	c ISS GPS Component Pouch	as specified on contract	EA	d ISS Display Component Pouch		EA		
Item Description	NATO Stock Number	Unit of Issue															
a ISS Pouch Set		SE															
b ISS System Component Pouch	NSN	EA															
c ISS GPS Component Pouch	as specified on contract	EA															
d ISS Display Component Pouch		EA															
2. Package item(s) in a polyethylene (or other transparent film) bag or envelope, made of material not less than one (1) mil thickness. The bags shall be taped or stapled to effect closure and shall be legibly marked (labelled) as follows:																	
NATO Stock Number (NSN) * - As specified on contract																	
Nomenclature ** - As specified on contract																	
Quantity / Unit of Issue - As applicable (1 EA OR 1 SE)																	
<i>For initial distribution</i> Items (b-d) shall be <u>consolidated</u> into a single package → item (a)																	
<i>For Depot stock</i> Items (b-d) shall be <u>individually packaged</u>																	
3. A quantity of packages, of the <u>same</u> NSN, shall be packed into a corrugated fibreboard box conforming to Canadian General Standards Board (CGSB) specification CAN/CGSB-43.22-2001. The box size and content quantity shall be uniform for the duration of the contract. Suggestion as follows:																	
<u>No material handling equipment required</u> – Overall inside dimensions (length, width and depth added) shall not exceed 1.5 metres (59 inches). The maximum weight of the box and contents shall not exceed 18 kilograms (40 pounds).																	
<u>Material handling equipment required</u> – The box(es) shall be compatible with the requirements of paragraph 8.																	
4. Closure of the corrugated fibreboard box shall be in accordance with CGSB specification CAN/CGSB-43.22-2001 (Appendix B).																	
5. On one <u>end</u> of each corrugated fibreboard box, stencilling or labelling, in figures as large as practicable in relation to the space available, shall legibly mark the following information:																	
NATO Stock Number (NSN) * - As specified on contract																	
Nomenclature ** - As specified on contract																	
Quantity (per box) / Unit of Issue - As applicable (1 EA OR 1 SE)																	
Gross Weight (nearest kg) - As applicable																	
Contract Serial Number - As specified on contract																	
6. On one <u>side</u> of each corrugated fibreboard box, stencilling or labelling, in figures as large as practicable in relation to the space available, shall legibly mark the following information:																	
Consignee - As specified on contract																	
Consignor - Supplier's name or symbol																	
Case ___ of ___ cases - As applicable within each shipment																	
7. The <u>last shipping container</u> of each shipment shall have affixed to the side on which the shipping instructions are contained (paragraph 6), an envelope containing the Packing List, Release Note, etc. This water-resistant envelope shall be prominently marked "Packing List Enclosed" and shall be securely affixed to the outside wall of the container.																	
8. Shipments shall be palletized in uniform loads (grouped by NSN) and strapped/secured on standard 4-way entry, 48-inch by 40-inch wood or fibreboard non-returnable pallets, to be supplied by the contractor. Total height, including pallet, shall not exceed 47 inches.																	
* Marking shall be applied using Bar Code Symbolology GS1-128 with AI 7001, including HRI (in accordance with D-LM-008-002/SF-001)																	
** Bilingual format – English / French																	

Canadian Forces Transportation Packaging Order

CFTPO-ISS-POUCH

Drawn by
H. Fraser
Checker

Design Engineer
H. Fraser
DSCO 5-4-3

Approval Stamp


Date
16 May 2011

Sheet
1 of 2

Nomenclature
As specified on contract

Base of on
As specified on contract

CF 708

1. Les pochettes de Système Intégré de Soldat (SIS) se composent des articles énumérés ci-dessous :		Commentaire d'Emballage pour le Transport – Forces canadiennes	CETFC-ISS-POUCH	Date 16 Mai 2011	Feuille 2 de 2	
Description de l'article	NNO					Unité de mesure
a SIS Jeu de pochette	Numéro de nomenclature					SE
b SIS Pochette de composant système	OTAN					EA
c SIS Pochette de composant GPS	– selon le contrat	EA				
d SIS Pochette de composant d'affichage		EA				

2. Emballer le(s) article(s) dans un sac ou une enveloppe en polyéthylène (ou une autre pellicule transparente), dont l'épaisseur est d'au moins un (1) mil. Les sacs doivent être scellés à l'aide d'un ruban adhésif ou d'agrafes, et l'information suivante (inscrite sur une étiquette) doit figurer lisiblement sur chacun :

Numéro de nomenclature OTAN (NNO)* – Selon le contrat
Nomenclature ** – Selon le contrat
Quantité (par conteneur) / Unité de mesure – Selon le cas (1 EA ou 1 SE)

La distribution initiale Les articles (b-d) doivent être regroupés dans un seul paquet → l'article (a)
Le stockage à l'entrepôt Les articles (b-d) doivent être emballés individuellement

3. Une quantité de paquets, de la même NNO, doivent être placés dans un conteneur en carton dur ondulé, conformément à la norme CAN/CGSB-43.22-2001 de l'Office des normes générales du Canada (ONGC). La taille du conteneur et la quantité contenue doivent demeurer la même pour la durée du contrat. Voici des suggestions :

Aucun équipement de manutention nécessaire – Les dimensions générales Intérieures (somme de la longueur, de la largeur et de la hauteur) ne doivent pas dépasser 1,5 m (59 po). Le poids maximal du conteneur, avec son contenu, ne doit pas dépasser 18 kg (40 lb).

Équipement de manutention nécessaire – Les conteneurs doivent être compatibles aux exigences du paragraphe 8.

4. La fermeture du conteneur en carton dur ondulé doit être conforme à la norme CAN/CGSB-43.22-2001 (appendice B) de l'ONGC.

5. Sur une extrémité de chaque conteneur en carton dur ondulé, l'information suivante doit figurer lisiblement en caractères aussi grands que permis par l'espace disponible (inscrite à l'aide d'un pochoir ou sur une étiquette) :

Numéro de nomenclature OTAN (NNO)* – Selon le contrat
Nomenclature ** – Selon le contrat
Quantité (par conteneur) / Unité de mesure – Selon le cas (1 EA ou 1 SE)
Poids brut (arrondir au kg) – Selon le cas
Numéro de série du contrat – Selon le contrat

6. Sur un côté de chaque conteneur en carton dur ondulé, l'information suivante doit figurer lisiblement en caractères aussi grands que permis par l'espace disponible (inscrite à l'aide d'un pochoir ou sur une étiquette) :

Destinataire – Selon le contrat
Expéditeur – Nom ou marque du fournisseur
Conteneur ___ de ___ – Selon chaque cargaison

7. Le dernier conteneur d'expédition de chaque cargaison, doit porter sur le côté où l'on retrouve les instructions d'envoi (paragraphe 8), une enveloppe contenant le bordereau d'expédition, le bordereau de libération, etc. Cette enveloppe, résistante à l'eau, doit porter clairement les mots «bordereau d'expédition ci-inclus» et doit être bien fixée à la paroi extérieure du conteneur.

8. L'entrepreneur doit fournir des palettes standard de type perdu, en bois ou en carton dur ondulé, accessibles des quatre côtés et mesurant 48 po sur 40 po. Les conteneurs doivent y être disposés uniformément (groupées par NNO) et solidement arimées. La hauteur totale, y compris la palette, ne doit pas dépasser 47 po.

* Les marques doivent être apposées au moyen de la symbologie code à barres GS1-128, avec le numéro d'identification d'application IA 7001, y compris la traduction en clair TC (conformément à la D-LM-008-002/9F-001)
** Format bilingue – Anglais / Français

Destinataire H. Fraser	Vérificateur H. Fraser	Ingénieur études DOCA 5-4-3	Sceau d'approbation 18
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CF 788

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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APPENDIX 9 TO ANNEX CB TO VOLUME 2

MLCS CONCEPTUAL LOAD

FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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This Appendix describes the load carriage of close combat soldiers and establishes space claims on the MLCS for both ISS components and soldiers' combat equipment and consumables.

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1. Introduction

2. Conceptual Loads

1. Introduction

1.1 Four (4) infantry roles are identified in this Appendix. These four (4) roles include:

- Rifleman;
- C9 Gunner;
- Grenadier; and
- Commander

1.2 The conceptual load for each role identified in section 1.1 of this Appendix is described in details in section 2 of this Appendix.

2. Conceptual Loads

2.1 The figures and associated text in this section describe the conceptual load for each infantry role.

2.2 The conceptual load information includes GFE equipment and associated Combat Pouches plus their mandated or recommended location, depending on the pouch, on the MLCS Carrier for use with the ISS both in training and on operations.

2.3 The Rifleman may have one (1) or two (2) Utility Pouches, at the Contractor's discretion.

2.4 The Grenadier may use a PALS combat belt to carry more ammunition. But for the purpose of this Appendix and associated requirements, the Grenadier conceptual load is considered to be the same as the Rifleman conceptual load.

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2.5 If ISS MLCS Pouches or ISS physical devices are placed at the same location as the hydration carrier, the following constraints must be applied:

2.5.1 ISS MLCS Pouches and ISS physical devices can be secured to the hydration carrier; and

2.5.2 ISS MLCS Pouches and ISS physical devices can be placed between the hydration carrier and the MLCS carrier.

2.6 It is recommended that wired connectivity and connectors be routed within or upon the MLCS so as to reduce the probability of snagging and pinching of wired connectivity and to reduce the probability of connector and wired connectivity damage while a soldier performs tasks.

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Fig 1.1 MLCS Platform Front Harness

MLCS Harness - Front



Fig 1.2 MLCS Platform Back Harness

MLCS Harness - Back



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Fig 2.1

Rifleman - Combat Pouches

90 Rd Velcro Magazine x 3 Smoke Grenade/Night Vision Device x1



NSN 8465-66-155-9075



NSN 8465-66-155-9105

Frag Grenade x 2



NSN 8465-66-158-4356

Multi Tool x 1



NSN 8465-66-158-4388

Utility Large x 2



NSN 8465-66-158-4547

Utility Hydration Cover x 1



NSN 8465-66-155-9151

Combat First Aid Medic x 1



NSN 8465-66-158-4337

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Fig 2.2

Rifleman – MLCS Front

Rifleman - Front



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Fig 2.3

Rifleman – MLCS Dorsal

Rifleman - Dorsal



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Fig 2.4 Rifleman – MLCS Right side

Rifleman - Side



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Fig 3.1

C9 Gunner - Combat Pouches

200 Round Ammunition x 2



NSN 8465-66-158-4345

Utility Large x 2



NSN 8465-66-158-4547

Smoke Grenade /Night Vision Device x1



NSN 8465-66-155-9105

Utility Hydration Cover x 1



NSN 8465-66-155-9151

Combat First Aid Medic x 1



NSN 8465-66-158-4337

Multi Tool x 1



NSN 8465-66-158-4388

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Fig 3.2 **C9 Gunner - MLCS Front**

C9 Gunner - Front



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Fig 3.3

C9 Gunner - MLCS Dorsal

C9 Gunner - Dorsal



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Fig 3.4 **C9 Gunner - MLCS Right side**

C9 Gunner – Right Side



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Fig 4.1

Commander - Combat Pouches

PRC 152 Light Assault Radio x1



NSN 8465-20-0055399

DAGR Pouch x1



NSN 8465-66-1584344

90 Round Velcro Magazine x 3



NSN 8465-66-155-9075

Smoke Grenade/Night Vision Device x1



NSN 8465-66-155-9105

Combat First Aid Medic x 1



NSN 8465-66-158-4337

Utility Hydration Cover x 1



NSN 8465-66-155-9151

Multi Tool x 1



8465-66-158-4388

Frag Grenade x 2



8465-66-158-4356

Utility Large x 2



NSN 8465-66-158-4547

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Fig 4.2

Commander - MLCS Front

Commander - Front



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Fig 4.3

Commander - MLCS Dorsal

Commander - Dorsal



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Fig 4.4 **Commander - MLCS Right Side**

Commander - Side



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Fig 5.1

Grenadier – Combat Pouches

PALS Combat belt



NSN 8465-66-158-4411

40 x 4 Horizontal x1



NSN 8465-66-158-4336

40 x 4 Vertical x1



NSN 8465-66-158-4334

40 x 1 x 2



NSN 8465-66-158-4333

40 x 2 Horizontal x 2



NSN 8465-66-155-9125

Utility Hydration Cover x1



NSN 8465-66-155-9151

Combat First Aid Medic x 1



NSN 8465-66-158-4337

Utility Large x 2



NSN 8465-66-158-4547

90 Round Velcro Magazine x 3



NSN 8465-66-155-9075

Smoke Grenade/Night Vision Device x1



NSN 8465-66-155-9105

Multi Tool x 1



NSN 8465-66-158-4388

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APPENDIX 10 TO ANNEX CB TO VOLUME 2

MISCELLANEOUS TEST DATA AND TEST PROCEDURE REQUIREMENTS FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

HISTORY

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This Appendix gives instructions to the Contractor on the test data to use to verify certain requirements, and the test procedure requirements to verify certain requirements.

TABLE OF CONTENTS

1. Introduction
2. Relay Transfer Test Procedure Requirements
3. Automatic Relay Test Procedure Requirements
4. Hand Drawings Test Data
5. Order of Battle (ORBAT)

1. Introduction

1.1 Some of the TPS requirements require that specific data be used to perform the verification test. In such cases, the verification criteria for that requirement will point to a specific section in this appendix to identify the test data to be used during the test, and the Contractor must use this test data to verify the requirement.

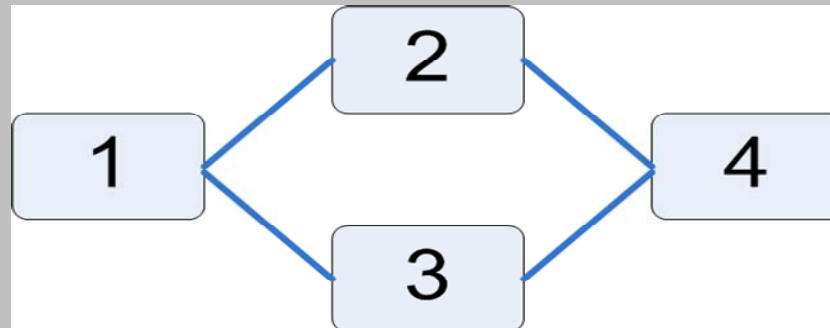
1.2 For some TPS requirements, DND enforces test procedure requirements to be followed by the Contractor to verify the requirement. In such cases, the detailed test procedure provided by the contractor to verify the requirement must include all elements found in the test procedure requirements of this appendix.

2. Relay Transfer Test Procedure Requirements

2.1 This test must be performed by the Contractor. The Crown will observe the test.

2.2 The following test scenario must be used by the Contractor in the verification of communications data relay functionality for TPS-2120 and TPS-4255.

Test scenario : Relay Transfer



- Initially, radios 1, 2 and 4 are turned on. 1 communicates with 4 via 2.
- Radio 3 is then powered on
 - Any effects on network are noted
- Radio 2 is subsequently brought out of range
 - Time for communication to resume through radio 3 is measured
- Radio 2 comes back in range
 - Any effects on network are noted

Figure 1 - Test Scenario: Relay Transfer

2.3 The Contractor must measure the time taken to switch between known data relays and prove that the time meets the requirement.

2.4 Without reconfiguring any of the ISS-S nodes, the physical nodes must be moved clockwise around the configuration and the test must be repeated.

2.5 The test must be run a total of four (4) times, such that each node is tested in every position in the diagram.

2.6 The Contractor must prove that the measured times meet or exceed the times specified in the requirement every time the test is run.

3. Automatic Relay Test Procedure Requirements

3.1 This test must be performed by the Contractor. The Crown will observe the test.

3.2 The following test procedure must be followed to test requirement TPS-3909, TPS-5161 and TPS-4079.

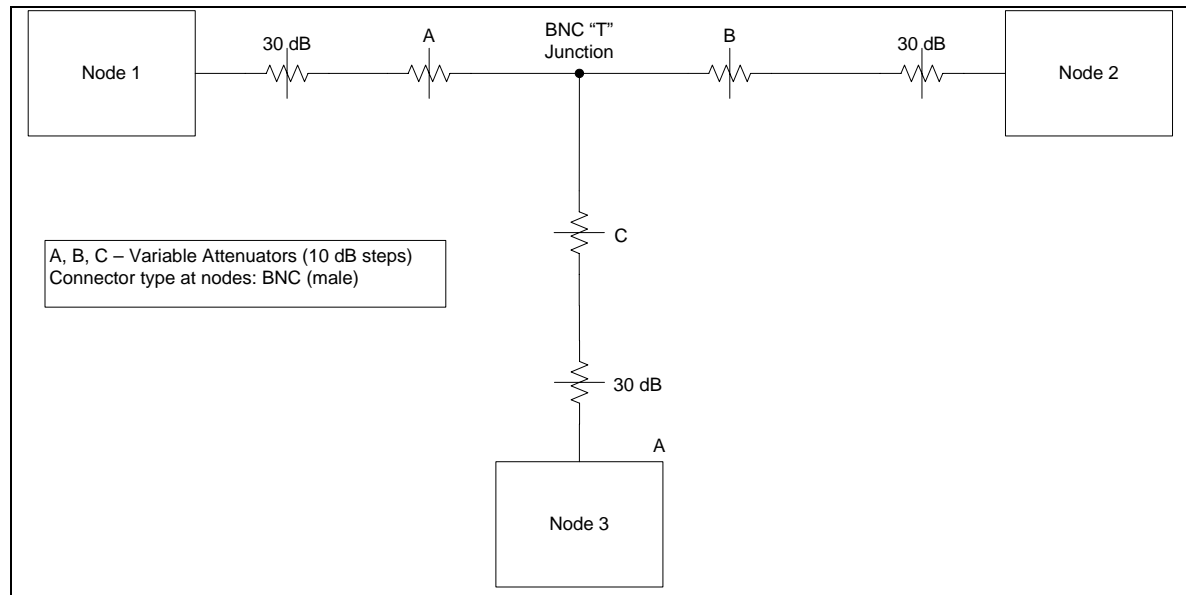


Figure 2 – Attenuator Tree

3.3 Pre-Conditions:

3.3.1 The Crown will supply the attenuator tree.

3.3.2 The Contractor must supply junction to BNC attenuator tree.

3.3.3 Assumption made for 1 Watt power output and a receiver sensitivity of approximately -100 dBm. If equipment varies significantly, advise Crown.

3.3.4 Attenuator tree may be verified by Contractor for path loss.

3.3.4.1 Receiver sensitivity is not the aim of this test and therefore tree calibration will not be performed by the Crown.

3.3.5 ISS-S units will be chosen at random by the Crown to perform the test.

3.3.6 The Contractor may select the voice traffic (for requirement TPS-4079) and data traffic (for requirement TPS-5161) to be used to perform the test. Voice, data and Blue PA services must be used to test requirement TPS-3909.

3.3.7 Before starting the test, a communications check must be performed with variable attenuators at full value. The communications check must be unsuccessful.

3.3.8 Start state of the ISS-S nodes must be “turned-off”.

3.3.9 All variable attenuators must be set at “0 dB”.

3.4 Test Steps:

3.4.1 The Contractor must turn on Nodes 1 and 2.

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3.4.2 The Contractor must perform a successful communications check between Nodes 1 and 2 for requirement TPS-3909, voice communication for requirement TPS-4079 and data communication for TPS-5161.

3.4.3 The Contractor must turn on Node 3.

3.4.4 The Contractor must perform a successful communications check between all three (3) nodes (i.e. Nodes 1 and 2, Nodes 1 and 3, and Nodes 2 and 3) for requirement TPS-3909, voice communication for requirement TPS-4079 and data communication for TPS-5161.

3.4.5 The Contractor must set attenuators A and B to a level (approximately 40 dBs) where direct communication between Nodes 1 and 2 is impossible.

3.4.6 The Contractor must perform a communications check between all three (3) nodes for requirement TPS-3909, voice communication for requirement TPS-4079 and data communication for TPS-5161.

3.4.6.1 In this configuration, the communications check must be successful, and all nodes must be able to communicate using Node 3 as a relay.

3.4.7 The Contractor must set attenuator C to a level (approximately 40 dBs) where direct communication between Nodes 3 and 1 and between Nodes 3 and 2 is impossible.

3.4.8 The Contractor must perform a communications check between all three (3) nodes for requirement TPS-3909, voice communication for requirement TPS-4079 and data communication for TPS-5161.

3.4.8.1 In this configuration, communications should be impossible between the three (3) nodes.

3.4.9 The Contractor must set attenuator B to 0 dB

3.4.10 The Contractor must perform a communications check between all three (3) nodes for requirement TPS-3909, voice communication for requirement TPS-4079 and data communication for TPS-5161.

3.4.10.1 In this configuration, the communications check must be successful, and all nodes must be able to communicate using Node 2 as a relay.

3.4.11 The Contractor must shut down all nodes and disconnect them from the attenuator tree.

3.4.12 The Contractor must run the tests described in section 3.4 above three (3) times.

3.4.12.1 The Contractor must prove that the tests described in section 3.4 were all successfully executed each time the test was run.

4. Hand Drawings Test Data

4.1 The Left Flanking Hand Drawing and the Right Flanking Hand Drawing are referenced in the verification criteria for certain TPS requirements.

4.2 When the Left Flanking Hand Drawing and the Right Flanking Hand Drawings are referenced, the Contractor must use these hand drawings.

4.3 The scale of the drawings is 1km x 1km; when the Contractor reproduces these hand drawings on their ISS-S, the scale must be respected.

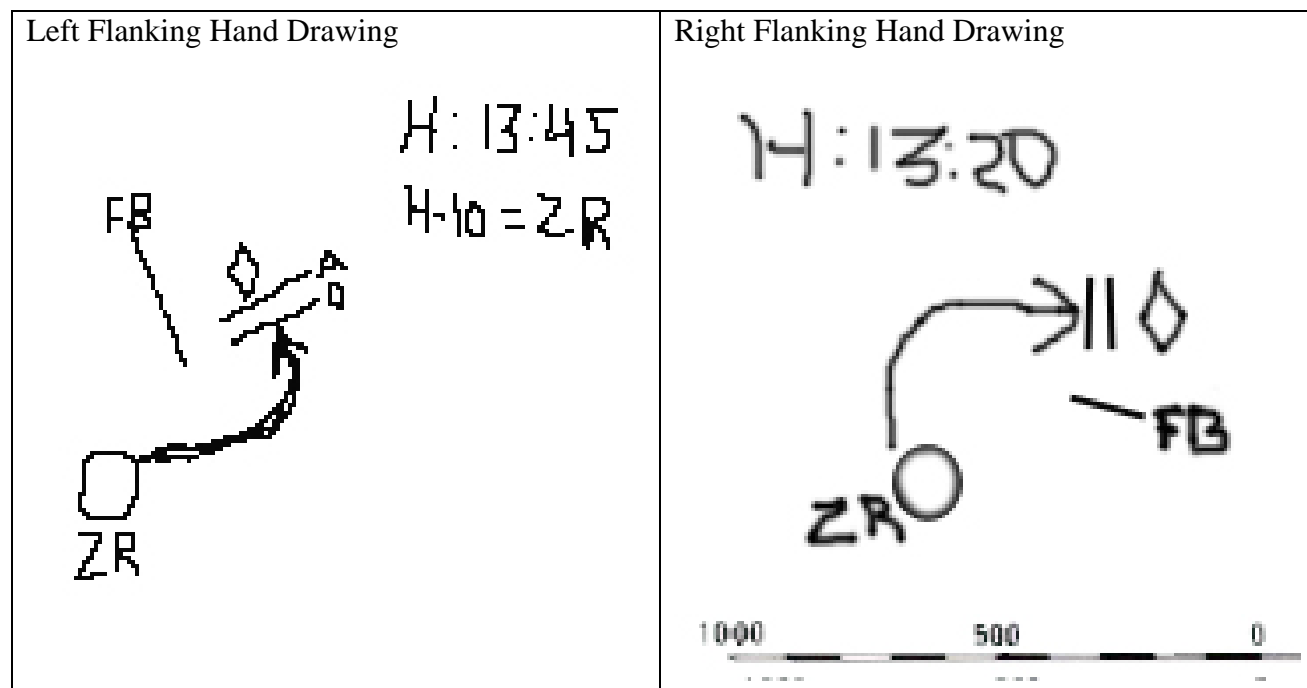


Figure 3 – Hand Drawings

5. Order of Battle (ORBAT)

- 5.1 The ORBAT is an organizational chart where there is a defined chain of command and roles/functions in that organization. Additionally, a Combat Team is a basic task tailored manoeuvre force organized around an Infantry Coy or Armoured Squadron with attached combat arms units such as Armour, Infantry, Combat Engineers and Artillery.
- 5.2 As stated in TPS-1162, a Coy size ORBAT, when tailored as a Combat Team, can be composed of up to 300 soldiers. Figure 4 shows an example of a Company (Coy) size ORBAT. Furthermore, every Platoon (Pl) can include up to 45 soldiers, as mandated in TPS-2936. Figure 5 shows an example of a Pl size ORBAT.
- 5.3 Within an ISSP equipped Combat Team, soldiers need to exchange information as part of different Communities of Interest (COIs). Typically, voice, data and Blue PA information will be exchanged at Pl and Section (Sect) levels within specific COIs. Table 1 shows an example of a Pl composition and its COI assignments.

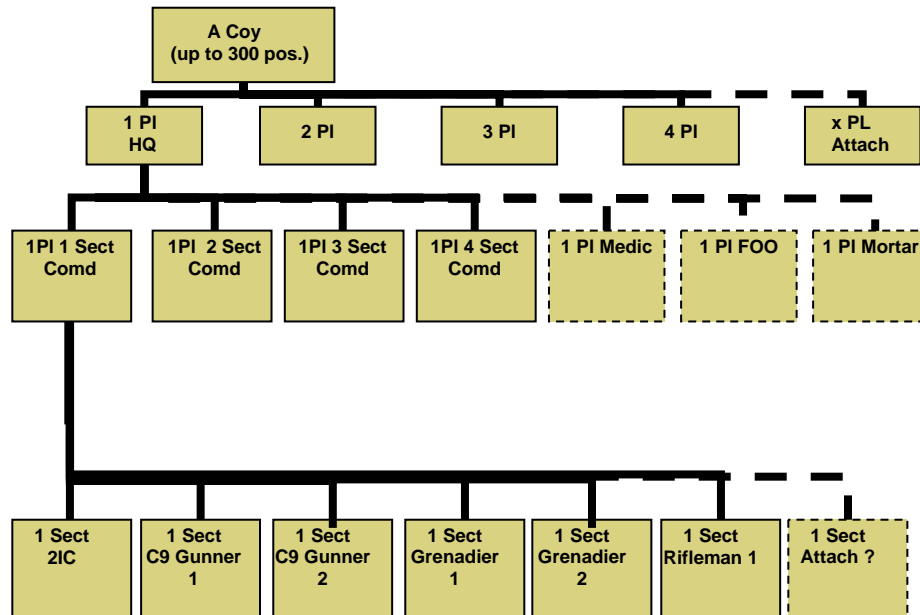


Figure 4 – Coy/Combat Team ORBAT

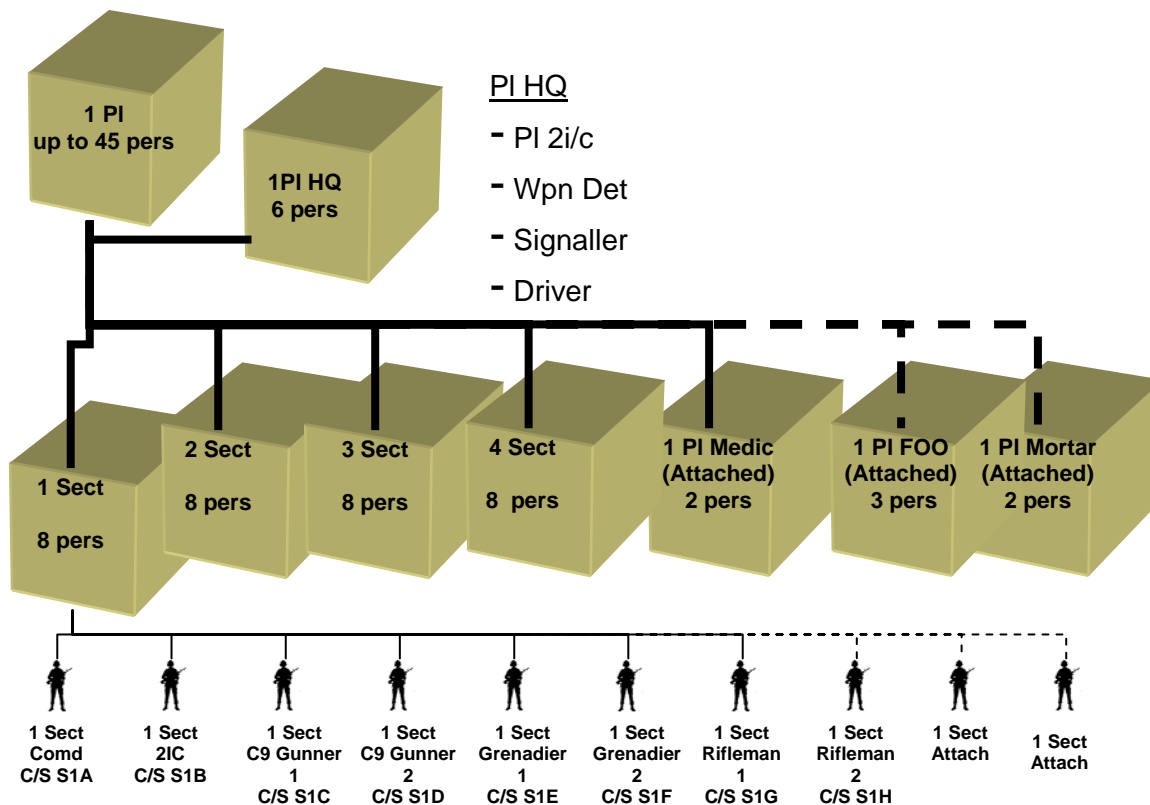


Figure 5 – Platoon ORBAT

ISS Node	Position	COIs
1	Pl OC	Pl Voice, Pl Data, Pl Blue PA
2	Pl 2i/c (HQ)	Pl Voice, Pl Data, Pl Blue PA
3	Pl Wpn Det 1 (HQ)	Pl Voice, Pl Data, Pl Blue PA
4	Pl Wpn Det 2 (HQ)	Pl Voice, Pl Data, Pl Blue PA
5	Pl Signaller (HQ)	Pl Voice, Pl Data, Pl Blue PA
6	Pl HQ Driver	Pl Voice, Pl Data, Pl Blue PA
7	1 Sect Comd	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
8	1 Sect 2i/c	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
9	1 Sect C9 Gunner 1	Sect Voice, Sect Data, Pl Blue PA
10	1 Sect C9 Gunner 2	Sect Voice, Sect Data, Pl Blue PA
11	1 Sect Grenadier 1	Sect Voice, Sect Data, Pl Blue PA
12	1 Sect Grenadier 2	Sect Voice, Sect Data, Pl Blue PA
13	1 Sect Rifleman 1	Sect Voice, Sect Data, Pl Blue PA
14	1 Sect Rifleman 2	Sect Voice, Sect Data, Pl Blue PA
15	2 Sect Comd	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
16	2 Sect 2i/c	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
17	2 Sect C9 Gunner 1	Sect Voice, Sect Data, Pl Blue PA
18	2 Sect C9 Gunner 2	Sect Voice, Sect Data, Pl Blue PA
19	2 Sect Grenadier 1	Sect Voice, Sect Data, Pl Blue PA
20	2 Sect Grenadier 2	Sect Voice, Sect Data, Pl Blue PA
21	2 Sect Rifleman 1	Sect Voice, Sect Data, Pl Blue PA
22	2 Sect Rifleman 2	Sect Voice, Sect Data, Pl Blue PA
23	3 Sect Comd	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
24	3 Sect 2i/c	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
25	3 Sect C9 Gunner 1	Sect Voice, Sect Data, Pl Blue PA
26	3 Sect C9 Gunner 2	Sect Voice, Sect Data, Pl Blue PA
27	3 Sect Grenadier 1	Sect Voice, Sect Data, Pl Blue PA
28	3 Sect Grenadier 2	Sect Voice, Sect Data, Pl Blue PA
29	3 Sect Rifleman 1	Sect Voice, Sect Data, Pl Blue PA
30	3 Sect Rifleman 2	Sect Voice, Sect Data, Pl Blue PA
31	4 Sect Comd	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
32	4 Sect 2i/c	Pl Voice, Pl Data, Sect Voice, Sect Data, Pl Blue PA
33	4 Sect C9 Gunner 1	Sect Voice, Sect Data, Pl Blue PA
34	4 Sect C9 Gunner 2	Sect Voice, Sect Data, Pl Blue PA
35	4 Sect Grenadier 1	Sect Voice, Sect Data, Pl Blue PA
36	4 Sect Grenadier 2	Sect Voice, Sect Data, Pl Blue PA
37	4 Sect Rifleman 1	Sect Voice, Sect Data, Pl Blue PA
38	4 Sect Rifleman 2	Sect Voice, Sect Data, Pl Blue PA
39	Pl Medic 1	Pl Voice, Pl Data, Pl Blue PA
40	Pl Medic 2	Pl Voice, Pl Data, Pl Blue PA
41	Att Mortar 1	Pl Voice, Pl Data, Pl Blue PA
42	Att Mortar 2	Pl Voice, Pl Data, Pl Blue PA

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43	Att FOO 1	Pl Voice, Pl Data, Pl Blue PA
44	Att FOO 2	Pl Voice, Pl Data, Pl Blue PA
45	Att FOO 3	Pl Voice, Pl Data, Pl Blue PA

Table 1 – Platoon Composition and COI Assignments

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APPENDIX 11 TO ANNEX CB TO VOLUME 2

POWER CONSUMPTION TEST PROCEDURE REQUIREMENTS

FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

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This Appendix gives instructions on how the ISS-S power consumption requirements are expected to be tested and subsequently analysed to prove that the ISS-S complies with the relevant TPS power and weight requirements.

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1. Introduction
2. Overall Concept
3. Power Infrastructure Considerations
4. Power Demand Test
5. Test Results Analysis
6. Test Report

1 Introduction

- 1.1 This Appendix presents the high level test procedures, verification criteria and analysis to be used to determine the ISS-S power consumption for verification of the Performance Specification requirements. This test and analysis will also be used for the determination of power costs as part of the Life Cycle Cost.
- 1.2 This Appendix is to be used as a baseline for the detailed test procedures and subsequent analysis report.

2 Overall Concept

- 2.1 The Performance Specification requirement is that the ISS-S must be able to complete eight (8) hours (twenty-four (24) hours desired) of continuous operation without recharge or replacement of any ISS Battery, in accordance with the usage profile of a Battlefield Day (BD) as described in Section 3.1 Battlefield Day (BD) Profile of Appendix 3 to Annex CB - Mission Profile and Operation Mode Summary.
- 2.2 To determine the ISS-S system's power consumption over a specified period, its energy demand, in W-hrs per BD, at the system level is required. This demand is to be measured according to the operational configuration of the system in accordance with the BD usage profile. The subsequent analysis is to show how the proposed ISS-S power infrastructure satisfies the measured demand. A report summarizing the results will be required and include a description of the System Power Infrastructure Configuration and Architecture.
- 2.3 This document is referenced by the TPS requirements that make use of it.

3 Power Infrastructure Considerations

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- 3.1 The ISS-S main source of energy is the ISS Batteries, which consist of ISS Rechargeable Batteries and ISS Non-Rechargeable Batteries. At any given time, the ISS-S is required to function either with the ISS Rechargeable Batteries or with the ISS Non-Rechargeable Batteries.
- 3.2 The ISS-S may also include ISS-ES Internal Batteries, which are defined as being a part of the ISS-ES if they are provided as part of the solution. If ISS-ES Internal Batteries are part of the power solution, they may be considered in the analysis of the power infrastructure energy capacity.
- 3.3 A Power Domain is defined as the interconnection of a Battery Pack and one or more devices through cables and connectors for the purpose of supplying power.
- 3.4 The Power Domain Non-Rechargeable Battery Pack consists of all the ISS Non-Rechargeable Batteries, of the same type, required to operate a power domain at any one time. It also includes any Battery Loading/Storage Devices required to meet the ISS requirements.
- 3.5 The Power Domain Rechargeable Battery Pack consists of the ISS Rechargeable Batteries, of the same type, required to operate a power domain at any one time. It also includes any Battery Loading/Storage Devices required to meet the ISS requirements.
- 3.6 Depending on the power infrastructure configuration, power may be provided through several different power domains that may consist of different battery types with different energy usages. In these cases the power demand and capacity are to be determined by Power Domain.
- 3.7 In determining the number of ISS Non-Rechargeable Batteries or ISS Rechargeable Battery recharges required per BD, the following definitions apply:
 - 3.7.1 Quantity of Power Domain Non-Rechargeable Battery Pack is the number of Non-Rechargeable Battery Packs required for the system to operate a full BD, by power domain, following the usage profile of a BD as described in Section 3.1 Battlefield Day (BD) Profile of Appendix 3 to Annex CB - Mission Profile and Operation Mode Summary.
 - 3.7.2 Quantity of Power Domain Rechargeable Battery Pack is the number of Rechargeable Battery Packs required for the system to operate a full BD without having to recharge any batteries, by power domain, following the usage profile of a BD as described in Section 3.1 Battlefield Day (BD) Profile of Appendix 3 to Annex CB - Mission Profile and Operation Mode Summary.
 - 3.7.3 ISS Non-Rechargeable Battery Set is the full complement of Power Domain Non-Rechargeable Battery Pack(s) as expressed in Quantity of Power Domain Non-Rechargeable Battery Packs for all Power Domains of the ISS-S required to operate one ISS-S for a full BD.

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- 3.7.4 ISS Rechargeable Battery Set is the full complement of Power Domain Rechargeable Battery Pack(s) as expressed in Quantity of Power Domain Rechargeable Battery Packs for all Power Domains of the ISS-S required to operate one ISS-S for a full BD.
- 3.7.5 For each Power Domain Battery Pack, the full complement of ISS Batteries must be replaced (or recharged) at the same time and not just a portion of them. This particularly applies at the end of a BD should a partial pack use be determined. In this case, the full complement of ISS Batteries must be replaced or recharged to ensure the ISS Batteries are fully topped-up for the start of the next BD. Thus, for determining the Quantity of Power Domain Battery Pack, any partial pack use at the end of the BD must be rounded up and deemed a full pack used.
- 3.7.6 For ISS Rechargeable Batteries, the life expectancy is the number of charge/discharge cycles until the ISS Rechargeable Battery is no longer able to store a charge of 80% of its rated capacity in amp-hours at standard ambient conditions.

4 Power Demand Test

- 4.1 In order to determine the power consumption characteristics of the system, actual power usage measurements of the system must be taken based on a 24 hour test following the usage profile of the BD as described in Section 3.1 Battlefield Day (BD) Profile of Appendix 3 to Annex CB to Volume 2. The test criteria are specified below.
- 4.2 Test Protocol:
 - 4.2.1 The system is to be exercised in accordance with Section 3.1 Battlefield Day (BD) Profile to Appendix 3 to Annex CB to Volume 2 while being measured for power demand.
 - 4.2.2 The system is to be operated in an operational system configuration for a full 24 hours.
 - 4.2.3 The system power demand is to be based on the actual measured values of each Power Domain, taken at a point that includes any and all losses within the Power Domain.
 - 4.2.4 All power demand measurements and ISS Battery energy capacity determinations are to be taken at standard ambient conditions.
 - 4.2.5 Standard ambient conditions are defined as:
 - 4.2.5.1 Temperature: $25^{\circ} \pm 10^{\circ}\text{C}$
 - 4.2.5.2 Relative humidity: 20 to 80 percent

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4.2.5.3 Atmospheric pressure: Site pressure

5 Test Results Analysis

- 5.1 Based on the measured power demand, the subsequent analysis must demonstrate, by Power Domain, how the ISS-S power infrastructure solution using both ISS Non-Rechargeable Batteries and ISS Rechargeable Batteries, plus any ISS-ES Internal Batteries, satisfy this demand. This analysis must include any losses or inefficiencies in the distribution of power within the Power Domain when in its operational configuration under field use.
- 5.2 The outcome will be the Quantity of Power Domain Non-Rechargeable Battery Packs and the Quantity of Power Domain Rechargeable Battery Packs.
- 5.3 The requirement is met if the analysis proves that:
 - 5.3.1 Each Rechargeable Battery Pack will be able to complete eight (8) hours of continuous operation of its respective Power Domain, under the BD usage, without recharge of any of its batteries, and.
 - 5.3.2 Each Non-Rechargeable Battery Pack will be able to complete eight (8) hours of continuous operation of its respective Power Domain, under the BD usage, without replacement of any of its batteries.

6 Test Report

- 6.1 A test report must be provided and consist of the following sections:
 - 6.1.1 System Power Infrastructure Configuration and Architecture Description - describe the layout and composition of the Power Domains and Battery Packs, including devices served, power infrastructure components, interfaces, cabling, controls, power and battery monitoring, locations, number and type of batteries, and power distribution characteristics. Also describe any ISS-ES Internal Batteries and how they factor into the power solution. Schematics, drawings and/or pictures should be included.
 - 6.1.2 Test Plan – provide a detailed test plan proving that the test was run for a duration of 24 hours and was run in accordance with Section 3.1 Battlefield Day (BD) Profile to Appendix 3 to Annex CB to Volume 2. The test plan must include the complete test procedure that was followed and must prove that the protocol describe in section 4 of this document was followed.
 - 6.1.3 System Power Demand – along with the results of the test, provide a description of the methods of measurement, basic calculations and rationale used to develop the total system power demand. The total system power demand should be expressed in W-hours/BD and be segregated by Power Domain.

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- 6.1.4 System Power Infrastructure Energy Capacity - provide an analysis of the ISS Rechargeable Battery Pack(s) and Non-Rechargeable Battery Pack(s) energy capacity and how this is used to satisfy the system's power demand. This analysis may also factor in the use of any ISS-ES Internal Batteries, if so equipped. This must consider all losses and inefficiencies associated with each Power Domain and Battery Pack, and provide the Battery Pack's capacity (in mA-hrs), output voltage and the energy provided (in W-hours). ISS Battery energy capacity determinations are to be taken at standard ambient conditions. The life expectancy for each type of ISS Rechargeable Battery must be provided with the method of determination. The outcome will be the Quantity of Power Domain Non-Rechargeable Battery Packs and the Quantity of Power Domain Rechargeable Battery Packs.
- 6.1.5 Summary of Results – in terms of the number of ISS Rechargeable Battery Sets and ISS Non-Rechargeable Battery Sets. An estimate of the average expected life of each type of ISS Rechargeable Battery must also be provided. This information can be summarized in tabular format similar to Figures 1 and 2 below, less the cost information.

Template 5 - ISS Non-Rechargeable Battery Cost Template				
	Power Domain Battery Pack 1	Power Domain Battery Pack 2	Power Domain Battery Pack 3	Power Domain Battery Pack 4
Power Domain Battery Pack Description	Centralized Power Pack	Communications system power domain		
ISS Non-Rechargeable Battery Type in Power Domain Battery Pack	AA Lithium (ANSI 15-LF, IEC-FR6)	AA alkaline (ANSI 15A, IEC-LR6)		
No. of ISS Non-Rechargeable Batteries in Power Domain Battery Pack	8	10		
Quantity of Power Domain Non-Rechargeable Battery Packs	3	3		
Cost per ISS Non-Rechargeable Battery	\$2.50	\$0.50		

Figure 1 – ISS Non-Rechargeable Battery Cost Template with Sample Data

Template 6 - ISS Rechargeable Battery Cost Template				
	Power Domain Battery Pack 1	Power Domain Battery Pack 2	Power Domain Battery Pack 3	Power Domain Battery Pack 4
Power Domain Battery Pack Description	Centralized Power Pack	Communications system power domain		
ISS Rechargeable Battery Type in Power Domain Battery Pack	3.7V Li ion (18650) generic	AA cell (NiMH) generic		
No. of ISS Rechargeable Batteries in Power Domain Battery Pack	8	10		
Quantity of Power Domain Rechargeable Battery Packs	2	3		
ISS Rechargeable Battery Life Expectancy (# Charge/Discharge Cycles)	200	250		
Cost per ISS Rechargeable Battery	\$8.31	\$2.55		

Figure 2 – ISS Rechargeable Battery Cost Template with Sample Data

APPENDIX 12 TO ANNEX CB TO VOLUME 2

MLCS VERIFICATION AND QUALITY CONTROL REQUIREMENTS

FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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 2 Annex CB Appendix 12

HISTORY

Revision	Date	Description

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This Appendix describes to the Contractor the verification and Quality Control Requirements of the MLCS.

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2. MLCS Platform Verification Requirements
3. ISS Generic Pouches Verification Requirements
4. MLCS Platform Pre-Production Phase Quality Control Requirements
5. ISS Generic Pouches Pre-Production Phase Quality Control Requirements

1. Introduction

1.1 This appendix describes how the DND is to perform the Verification of the MLCS platform and ISS Generic Pouches during the System Qualification Phase. The appendix also describes how the DND is to perform the Quality Control on the MLCS Platform and ISS Generic Pouches during the Pre-Production Phase.

2. MLCS Platform Verification Requirements

2.1 The DND will perform the Verification of the MLCS Platform during the System Qualification Phase to ensure that the Contractor's MLCS Design, Construction and Workmanship are compliant with the MLCS TDP provided in Annex CB, Appendix 7 including any changes approved by DND through a formal ECP during the system qualification phase.

2.2 The MLCS Verification will be done through a technical verification performed by a team of DND Subject Matter Experts (SMEs), except for the conformance to specified materials which will be proven by the submission from the Contractor of the appropriate Certificate of Compliance. A Certificate of Compliance (C of C) is a written statement from the supplier guaranteeing the full compliance of the product to the specification, or portion thereof, referenced. This document must be on official company stationary, it must be current, it must make reference to the applicable specification and have the original signature of the company's designated representative. The Crown reserves the right to verify the statements made in the C of C. Full test results, demonstrating the product's compliance, will be accepted in lieu of a C of C. The following paragraphs describe the specific verification requirements for each element of the MLCS.

2.3 Conformance to specified material

The Contractor must provide a valid C of C for each of the material elements identified in Table 1 below. Any additional materials used to augment the design must meet or exceed specified materials as defined in Appendix 7.

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Serial	Material	MLCS TDP Ref to Requirement
1	Cloth, Coated, High Tenacity Nylon	Annex CB, Appendix 7, para 3.4.1
2	Cloth, Plain, Weave, Nylon, 230g/m2	Annex CB, Appendix 7, para 3.4.2
3	Mesh, 100% Polyester Warp	Annex CB, Appendix 7, para 3.4.3
4	Hook and Loop	Annex CB, Appendix 7, para 3.4.4
5	Binding Tape	Annex CB, Appendix 7, para 3.4.5
6	Webbings	Annex CB, Appendix 7, para 3.4.6 and 3.4.7
7	Label	Annex CB, Appendix 7, para 3.4.13

TABLE 1: MLCS Material C of C Requirements

2.4 Design Deviation

2.4.1 There is no deviation allowed to the MLCS design except to accommodate the integration of the Integrated Soldier System (ISS) suite. Any design changes incorporated in the MLCS must to meet or exceed the MLCS design and construction requirements as identified in the MLCS TDP located in Annex CB, Appendix 7.

2.4.2 The following deviations to the design will be accepted:

Tolerances as indicated will be accepted to the placement of the rows of webbing and placement of stitching of the webbing to form the PALS grid. As the pouch strap is woven between the PALS on the platform and the webbing on the pouch, the spacing of the webbing (PALS) is important. The spacing of the rows of webbing on both the platform and the pouch must ensure that a pouch can be attached and will hold securely in place. The construction of the ladder system is such that rows of webbing are placed horizontally and spaced 1" apart. The webbing is stitched down at 1 ½" interval. A maximum allowable tolerance would include:

- 1/8" (-) on the spacing of the rows of webbing
- 1/8" (±) for the 1 ½" stitched - down intervals.

2.4.3 Deviations to the design to allow for openings for cables, connectors, etc, will be accepted provided the construction and the workmanship do not impede the attachment of pouches to the MLCS. The construction of an opening in the shell material for the insertion of a cable, for example, will be such that the opening is finished properly with another material that will provide suitable coverage to prevent the ingress of water or dirt/ sand into the inner MLCS. Those design changes must be documented in an updated TDP following approval of an ECP by DND which document those changes.

2.5 Technical Verification – Workmanship and Construction

2.5.1 The DND SME Evaluation team will evaluate the 32 MLCS samples to be delivered during the System Qualification Phase. 70% of the samples (22 of the 32 samples) evaluated must pass the technical evaluation.

2.5.2 A maximum of five (5) workmanship and construction infractions will be accepted in any of the samples. The infractions are restricted to the Workmanship and construction.

2.5.3 The Technical Evaluation will be carried out in accordance with Table 2 and their assessment Criteria will be as detailed in Table 3.

Spec Corresponding Para Ref	Description	Comments	Accept Y/N
Annex CB, App 7, Att 2, para 2.1- 2.2	The right side of the shell material must include 7 rows of MIL spec AA55301, 25mm (1") webbing , horizontally placed, spaced 1" apart (PALS grid webbing). Stitch down at 3.8cm (1 ½") to from vertical columns.		
Annex CB, App 7, Att 2, para 2.3	Stitching over webbing reinforced 3 times.		
Annex CB, App 7, Att 2, para 3.1 -3.2	7.6 x 20 cm (3" x 8") shoulder tabs with 5 x 7.6cm (2" x 3") loop fastening tape		
Annex CB, App 7, Att 2, para 3.3	Hook fastening tape, 5 x 7.6cm (2" x 3") long on other end of the tab on coated side of the material.		
Annex CB, App 7, Att 2, para 3.4	Bind along 3 edges of the shoulder tab bound 25mm (1") binding tape, ¼"double topstitch.		
Annex CB, App 7, Att 2, para 4.1.1	Plate carrier- 3 sides bound with 19mm (¾") binding tape.		
Annex CB, App 7, Att 2, para 4.1.2	Plate carrier- 2 pieces of loop fastening tape at 5 x 21.6 cm (2" x 8.5") topstitched to carrier, reinforced with a cross stitch.		
Annex CB, App 7, Att 2, para 5.3	5 x 25 cm (2 x 9.75")loop fastening tape on lining section of shoulders		
Annex CB, App 7, Att 2, para 5.8	5 x 22 cm (2 x 8.5") hook fastening tape is sewn along edge of flap at 1/8" topstitch.		
Annex CB, App 7, Att 2, para 5.10	Plate carrier centred on ¾" binding tape with top corners left open.		

Spec Corresponding Para Ref	Description	Comments	Accept Y/N
Annex CB, App 7, Att 2, para 5.11	Back lining panel bound with 25mm (1") binding tape with ¼" double topstitch.		
Annex CB, App 7, Att 2, para 5.12	4 x 25mm (1") rectangle loops attached with 25mm (1") MIL-W-17337 webbing.		
Annex CB, App 7, Att 2, para 5.14	5 x 56cm (2 x 22") loop fastening tape along bottom of lining material.		
Annex CB, App 7, Att 2, para 5.16	Mesh pocket on back of chest rig front bound with 25mm (1") binding tape at 6mm (¼") double topstitch.		
Annex CB, App 7, Att 2, para 6.1	38mm x 56cm (1 ½" x 22") webbing (MIL AA55301) for waist strap attached to 38mm (1 ½") SR buckle. 1 ½" tab on end of strap.		
Annex CB, App 7, Att 2, para 7.1	Bind along the edges with 25mm (1") binding tape at 6mm (¼") double topstitch.		
Annex CB, App 7, Att 2, para 7.2	Waist strap reinforced to chest rig with 2 rows of stitching. Placement is as indicated on the pattern.		
	Back Yoke		
Annex CB, App 7, Att 2, para 8.1.2	5 cm x 22 cm (2 x 8.5") hook fastening tape on shoulders.		
Annex CB, App 7, Att 2, para 10.2	3 x 25mm (1") plastic rectangular loops attached along bottom with 25mm (1") (MIL AA55301) webbing.		
Annex CB, App 7, Att 2, para 10.3	50mm x 22 cm (2" x 8.5") loop fastening tape along bottom of yoke back at 3mm (1/8") topstitches.		
Annex CB, App 7, Att 2, para 11.1	50mm x 22 cm (2" x 8.5") hook fastening tape along bottom of yoke liner at 3mm (1/8") topstitches.		
Annex CB, App 7, Att 2, para 12.1	Handle- 50mm (2") MIL 17337 webbing measuring approx. 33" long.		
Annex CB, App 7, Att 2,	Box stitched section of handle measures (7.7cm) 3"		

Spec Corresponding Para Ref	Description	Comments	Accept Y/N
para 12.2			
Annex CB, App 7, Att 2, para 12.3	Handle centred on yoke panel. Width of handle- 16cm (6 ¼"). Ends of handle topstitched to yoke at 3mm (1/8") gauge. Ends of handle hidden under waist webbing. Base of handle only secured with 50mm (2") bar tacks.		
Annex CB, App 7, Att 2, para 13.2	6 rows of 25mm (1") (Mil AA55301) webbing spaced 1" apart , stitched down at 1 ½" intervals to form columns (PALS webbing grid) Webbing reinforced 3X Sewn through both layers of fabric (shell and lining)		
Annex CB, App 7, Att 2, para 13.3	Single horizontal row of webbing, 1" from bottom, sewn down at 1 ½" interval. Stitching over webbing reinforced 3 times.		
Annex CB, App 7, Att 2, para 15.2	15cm (6") wide heavy elastic, doubled, sewn to top of neckline and sides on the back of yoke.		
Annex CB, App 7, Att 2, para 16.1 and 14.1	Plate carrier sewn to yoke back under elastic panel. Edges bound with 25mm (1") binding tape. Yoke edges bound with 25mm (1") binding tape with 6mm (¼") double topstitch.		
Annex CB, App 7, Att 2, para 16.4 -16.5	1 ½" x 11 finished waist strap with buckle (Mil 55301 webbing) with 38mm (1 1/2") female SR buckles		
Annex CB, App 7, Att 2, para 16.6	Waist strap is centred between 1" webbings. 25mm (1") webbing on waist strap stitched down at 1 ½" intervals in line with columns on PALS webbing grid.		

TABLE 2: MLCS Technical Evaluation Matrix

CRITERIA	FACTORS	ASSESSMENT
Seams/Stitches	The webbing only on PALS grid is reinforced with 3 rows of stitching	
	Rows of stitching on PALS grid are straight and in line with stitching over rows of webbing	
	Spacing of vertical lines of stitching within tolerance of 1/8" (intervals of 1 1/2")	
	Thread count: 8-10 stitches per inch (SPI)	
	The ends of seams and stitching and breaks in thread, securely backstitched	
	No loose threads	
	2" bar tack at base of extraction handle	
	1" bar tacks at top corners of mesh map pocket	
	1" bar tack to secure ends of binding tape	
	1/4" double T/S on binding tape	
Binding Tape	The tape is applied on securely so that the material is completely enveloped in the tape.	
Webbing	Waist strap finished with 1 1/2" tab on end	
	Waist strap secured to the waist with double rows of stitching reinforced 3X	
Extraction Handle	Handle is centred on back and ends are positioned according to TDP	
Back Waist Strap	Positioned equal spacing between the two webbings	
Hook/Loop Fastening Tape	Positioned on shoulder tabs, bottom opening on front	

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CRITERIA	FACTORS	ASSESSMENT
	and back yoke and plate carrier	

TABLE 3: Assessment Criteria for the MLCS Technical Evaluation Matrix

3. ISS Generic Pouches Verification Requirements

3.1 The DND will perform the Verification of the ISS Generic Pouches during the System Qualification Phase to ensure that the Contractor's MLCS Design, Construction and Workmanship are compliant with the ISS Generic Pouches TDP provided in Annex CB, Appendix 8.

3.2 The ISS Generic Pouches Verification will be done through a technical verification evaluation performed by a team of DND Subject Matter Experts (SMEs), except for the conformance to specified materials which will be proven by the submission from the Contractor of the appropriate Certificate of Compliance (C of C). The following paragraphs describe the specific verification requirements for each element of the ISS Generic Pouches.

3.3 Conformance to specified material

The Contractor must provide a valid C of C for each of the material elements identified in Table 4 below. Any additional materials used to augment the design must meet or exceed specified materials as defined in Appendix 8.

Serial	Material	MLCS TDP Ref to Requirement
1	Cloth, Coated, High Tenacity Nylon	Annex CB, Appendix 8, para 3.1.1
2	Cloth, Plain, Weave, Nylon, 230g/m2	Annex CB, Appendix 8, para 3.1.2
3	Hook and Loop	Annex CB, Appendix 8, para 3.1.3
4	Binding Tape	Annex CB, Appendix 8, para 3.1.7
5	Webbings	Annex CB, Appendix 8, para 3.1.6
6	Label	Annex CB, Appendix 8, para 3.1.10

TABLE 4: ISS Generic Pouches Material C of C Requirements

3.4 Technical Evaluation – Construction

3.4.1 The DND SME Evaluation team will evaluate the 32 ISS Generic Pouches set samples to be delivered during the System Qualification Phase. 70% of the set samples (22 of the 32 samples) evaluated must pass the technical evaluation.

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3.4.2 A maximum of five (5) construction infractions will be accepted in any of the samples. The infractions are restricted to the quality of the construction.

3.4.3 The Technical Evaluation will be carried out in accordance with Table 5 and their assessment Criteria will be as detailed in Table 6.

Spec Corresponding Para Ref	Description	Comments	Accept Y/N
Annex CB, App 8, Att 1, para 2.1 - 2.3	Adjustable 25mm (1") SR buckle with 25mm (1") MIL AA55301 webbing attached to front of lid with full box stitch.		
Annex CB, App 8, Att 1, para 2.4	SR male buckle attached to pouch front with 25mm (1") MIL AA55301 webbing.		
Annex CB, App 8, Att 1, para 2.7 - 2.8	Hook and loop fastening tape to secure lid to front. Fastening tape topstitched at 1/8" gauge. Fastening tape is centered on lid and front and aligned with each other.		
	PALS Attachment Straps		
Annex CB, App 8, Att 1, para 3.1 – 3.3	25mm (1") MIL 55301 webbing doubled with HDPE plastic sandwiched inside to from strap. Strap extension - 3.2 cm (1/14"). Strap Topstitched at 3mm (1/8") gauge Bottom of strap wrapped in 25mm x 6.35cm (1" x 21/2") loop fastening tape		
Annex CB, App 8, Att 1, para 3.4	Strap sewn to back of pouch with full box stitch lined up with first row of webbing		
	Pouch Back- PALS webbing		
Annex CB, App 8, Att 1, para 4.2- 4.3	Rows of webbing place horizontally spaced 1" apart. First row place 1" down from top of back panel. If pouch is 4"wide or greater, vertical rows of stitching, no more than 2" wide shall be included.		
Annex CB, App 8, Att 1, para 4.5	25mm (1") plastic loop with 25mm (1") MIL 55301 webbing strap aligned in between the attachment straps sewn with an FBS (full box stitch).		
Annex CB, App 8, Att 1, para 5.1	Edges bound with 19mm (3/4") binding tape at 5mm (3/16") double topstitch.		

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Spec Corresponding Para Ref	Description	Comments	Accept Y/N
Annex CB, App 8, Att 1, para 5.2	Top corners of pouch backstitched 2 x 6-8 stitches in length or with 13mm (1/2") bar tack.		

TABLE 5: ISS Generic Pouches Technical Evaluation Matrix

CRITERIA	FACTORS	ASSESSMENT
Seams/Stitches	Thread count: 8-10 stitches per inch (SPI)	
	The ends of seams and stitching and breaks in thread, securely backstitched	
	No loose threads	
	3/16" dbl T/S on binding tape	
	Reinforcement of pouch corners with sufficient backstitching, 4-5 stitches min.	
	T/S tape fastener at 1/8" gauge around perimeter	
Binding Tape	The tape is applied on securely so that the material is completely enveloped in the tape.	
Webbing strap with buckle	Application of webbing straps with full box stitches as indicated in the TDP	
	End of webbing strap finished in accordance with TDP Assembly Instructions (Table II- General Sewing Instructions)	
Attachment Straps	Constructed in accordance with TDP (Assembly Manual: Figures 1 and 2; the length in accordance	

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CRITERIA	FACTORS	ASSESSMENT
	with table 1)	
Pouch Back	Construction of PALS webbing on back of pouch in accordance with TDP (Assembly manual: Figure III & IV and para 4.0)	
	Test construction of back webbing and fasteners by attaching to MLCS chest rig. If this area is constructed correctly than the pouch straps should be threaded through the chest rig PALS webbing and the pouches for a secure fit that is not too loose or too difficult to secure/ thread.	

TABLE 6: Assessment Criteria for the ISS Generic Pouches Technical Evaluation Matrix

3.5 Design Deviation: Deviations to the pouch design to accommodate the integration of the Integrated Soldier System (ISS) suite will be accepted provided that the construction and the workmanship do not impede the attachment of the ISS MLCS Pouches to the MLCS Platform. Those design changes must be documented in an updated TDP following approval of an ECP by DND which document those changes

4. MLCS Platform Pre-Production Phase Quality Control Requirements

4.1 The DND will perform the Verification of the MLCS Platform during the Production Phase to ensure that the Contractor's MLCS Design, Construction and Workmanship are compliant with the MLCS TDP provided in Annex CB, Appendix 7 including any changes approved by DND through a formal ECP during the System Qualification Phase.

4.2 The MLCS Verification will be done through a technical verification performed by a team of DND Subject Matter Experts (SMEs), except for the conformance to specified materials which will be proven by the submission from the Contractor of a proof of full compliance based on third party testing evaluation for all items as identified in Table 7 below. Third party test results will be evaluated by DND SME for textiles. The following paragraphs describe the specific verification requirements for each element of the MLCS.

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4.3 Conformance to specified material

4.3.1 Tests and test results must be provided on each textile component as identified in Table 7 below before the material is delivered to Canada or put into garment / end item production. Test results as specified in Table 7 below must also be submitted before the material is put into production when there is any change in the source of supply for the material(s). DND written approval is required prior to using any material from a new supplier.

4.3.2 Unless otherwise specified, all tests and test methods must be in accordance with the specified requirements. All tests specimens must be taken from the same sample of cloth. All testing must be conducted by an accredited independent laboratory familiar with textile testing. Testing carried out by university textile testing laboratories will also be acceptable. Should a non-accredited laboratory be required for specific tests, approval must be sought and received in writing from the TA in advance.

4.3.3 Although reporting of test results for all properties is not required for some textile components at a certain stage, the requirements must be met in accordance with the applicable specification at all stage of production. The government of Canada reserves the right to carry out testing of any specified property in order to confirm the compliance of the fabric with the applicable specification in its entirety.

4.3.4 When a fabric sample is required, the sample must be clearly labelled and traceable to the applicable production lots. The bidder and/or contractor must be able to provide the QA documentation to assure that the test results were obtained on fabric from the same production as the submitted sample.

4.3.5 The fabric samples and test results submitted at pre-production must be from the production lot that is intended for use in this current contract. The pre-production samples must be representative of the finished product in all respects.

4.3.6 All of the pre-production and production test results must be submitted through the DND Quality Assurance Representative (DNQAR) and in turn forwarded to the Technical Authority for approval

4.3.7 Any additional materials used to augment the design will be required to meet or exceed specified materials.

Serial	Material	MLCS TDP Ref to Requirement	Testing Requirements
1	Cloth, Coated, High Tenacity Nylon	Annex CB, Appendix 7, para 3.4.1	Full testing at the start of production to prove compliance to requirement specification including:

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Serial	Material	MLCS TDP Ref to Requirement	Testing Requirements
			- Colour as received and after 5 washes - IRR as received and after 5 washes Two (2) meters full width fabric sample
2	Cloth, Plain, Weave, Nylon, 230g/m2	Annex CB, Appendix 7, para 3.4.2	Full testing at the start of production to prove compliance to requirement specification. Two (2) meters full width fabric sample.
3	Mesh, 100% Polyester Warp	Annex CB, Appendix 7, para 3.4.3	Full testing at the start of production to prove compliance to requirement specification. Two (2) meters full width fabric sample.
4	Hook and Loop	Annex CB, Appendix 7, para 3.4.4	Full testing to prove compliance to requirement specification. One (1) meter sample
5	Binding Tape	Annex CB, Appendix 7, para 3.4.5	Certificate of Compliance One (1) meter sample
6	Webbings	Annex CB, Appendix 7, para 3.4.6 and 3.4.7	Full testing to prove compliance to requirement specification. One (1) meter sample
7	Label	Annex CB, Appendix 7, para 3.4.12	Full testing at the start of production to prove compliance to requirement specification

TABLE 7: MLCS Material Testing Requirements

4.4 Technical Evaluation – Workmanship and Construction

4.4.1 The DND SME Evaluation team will evaluate all the MLCS pre-production samples. 100% of the samples evaluated must pass the technical evaluation and all of the evaluator observations must be resolved before production starts. The number of pre-production samples to be evaluated must be agreed between DND and the Contractor. The number of pre-production items to be evaluated must be 1 as a minimum.

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4.4.2 A maximum of five (5) construction infractions will be accepted in any of the samples. The infractions are restricted to the quality of the construction.

4.4.3 The Technical Evaluation will be carried out in accordance with Table 2 and their assessment Criteria will be as detailed in Table 3 in section 2 above.

4.4.4 Should the pre-production sample fail the evaluation, a second set of pre-production samples must be submitted within 15 days. This cycle will be repeated until 100% of the pre-production samples pass the technical evaluation.

5. ISS Generic Pouches Pre-Production Phase Quality Control Requirements

5.1 The DND will perform the Verification of the ISS Generic Pouches during the Pre-production Phase to ensure that the Contractor's MLCS Design, Construction and Workmanship are compliant with the ISS Generic Pouches TDP provided in Annex CB, Appendix 8.

5.2 The ISS Generic Pouches Verification will be done through a technical evaluation performed by a team of DND Subject Matter Experts (SMEs), except for the conformance to specified materials which will be proven by the submission from the Contractor of a proof of full compliance based on third party testing evaluation for all items as identified in Table 8 below. Third party test results will be evaluated by DND SME for textiles. The following paragraphs describe the specific verification requirements for each element of the ISS Generic Pouches.

5.3 Conformance to specified material

5.3.1 Tests and test results must be provided on each textile component as identified in Table 7 below before the material is delivered to Canada or put into garment / end item production. Test results as specified in Table 7 below must also be submitted before the material is put into production when there is any change in the source of supply for the material(s). DND written approval is required prior to using any material from a new supplier.

5.3.2 Unless otherwise specified, all tests and test methods must be in accordance with the specified requirements. All tests specimens must be taken from the same sample of cloth. All testing must be conducted by an accredited independent laboratory familiar with textile testing. Testing carried out by university textile testing laboratories will also be acceptable. Should a non-accredited laboratory be required for specific tests, approval must be sought and received in writing from the TA in advance.

5.3.3 Although reporting of test results for all properties is not required for some textile components at a certain stage, the requirements must be met in accordance with the applicable specification at all stage of production. The government of Canada reserves the right to carry out testing of any specified property in order to confirm the compliance of the fabric with the applicable specification in its entirety.

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5.3.4 When a fabric sample is required, the sample must be clearly labelled and traceable to the applicable production lots. The bidder and/or contractor must be able to provide the QA documentation to assure the fact that the test results were obtained on fabric from the same production as the submitted sample.

5.3.5 The fabric samples and test results submitted at pre-production must be from the production lot that is intended for use in this current contract. The pre-production samples must be representative of the finished product in all respects.

5.3.6 All of the production test results must be submitted through the DND Quality Assurance Representative (DNDQAR) and in turn forwarded to the Technical Authority for approval

5.3.7 Any additional materials used to augment the design will be required to meet or exceed specified materials.

Serial	Material	MLCS TDP Ref to Requirement	Testing Requirements
1	Cloth, Coated, High Tenacity Nylon	Annex CB, Appendix 8, para 3.1.1	Full testing at the start of production to prove compliance to requirement specification including: - Colour as received and after 5 washes - IRR as received and after 5 washes Two (2) meters full width fabric sample
2	Cloth, Plain, Weave, Nylon, 230g/m2	Annex CB, Appendix 8, para 3.1.2	Full testing at the start of production to prove compliance to requirement specification. Two (2) meters full width fabric sample.
3	Hook and Loop	Annex CB, Appendix 8, para 3.1.3	Full testing to prove compliance to requirement specification. Test results for: - Peel Strength - Fray Resistance for General Purpose and C of C for flame retardant finish.
4	Binding Tape	Annex CB, Appendix 8, para 3.1.7	Certificate of Compliance

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Serial	Material	MLCS TDP Ref to Requirement	Testing Requirements
			One (1) meter sample
5	Webbings	Annex CB, Appendix 8, para 3.1.6	Full testing to prove compliance to requirement specification. One (1) meter sample
6	Label	Annex CB, Appendix 8, para 3.1.9	Full testing at the start of production to prove compliance to requirement specification

TABLE 8: ISS Generic Pouches Material Testing Requirements

5.4 Technical Evaluation – Construction

5.4.1 The DND SME Evaluation team will evaluate all the Pre-production ISS Generic Pouches set samples. 100% of the samples evaluated must pass the technical evaluation and all of the evaluator observations must be resolved before production starts. The number of pre-production samples to be evaluated must be agreed between DND and the Contractor. The number of pre-production items to be evaluated must be 1 as a minimum.

5.4.2 A maximum of five (5) construction infractions will be accepted in any of the samples. The infractions are restricted to the quality of the construction.

5.4.3 The Technical Evaluation will be carried out in accordance with Table 5 and their assessment Criteria will be as detailed in Table 6 above in section 3.

5.4.4 Should the pre-production sample fail the evaluation, a second set of pre-production samples must be submitted within 15 days. This cycle will be repeated until 100% of the pre-production samples pass the technical evaluation.

ANNEX CC TO VOLUME 2

CONTRACT DATA REQUIREMENTS LIST (CDRL) DATA ITEMS DESCRIPTION (DID)

FOR THE

ACQUISITION

OF THE

INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

RFP - N° de la DP
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Amendment No. - N° de la modif.

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1	1 SCOPE		
1.0-1	This Annex specifies the Deliverable Data required under the Acquisition Statement of Work (SOW) and the delivery of the data items.		
1.0-2	The Contract Data Requirements List (CDRL) specifies the Deliverable Data required. The Data Item Descriptions (DIDs) define data content, preparation instructions, format and intended use of the data.		
1.0-3	CDRLs are included at Appendix 1 and DIDs are included at Appendix 2 to this Annex.		
1.0-4	This Annex provides information on the CDRL layout in section 2 and DID layout in section 3.		
2	2 CONTRACT DATA REQUIREMENTS LIST (CDRL)		
2.1	2.1 Precedence of CDRL		
2.1.0-1	The requirements stated in Blocks 8 through 15 of the CDRL take precedence over any such requirements that may have been identified in the DIDs. Completion guidance for the fields in the CDRL form is shown below.		
2.2	2.2 CDRL Layout		
2.2.0-1	The following describes the layout and interpretation of the CDRL blocks.		
2.2.0-2	BLOCK	Title	Completion Guidance
	A	Annex Description	Enter the annex (and appendix, if applicable) designation with respect to the RFP/Contract
	B	Contract/ RFP Number	Enter the RFP number or other appropriate designator. Upon contract award, amend to read the contract number
	C	SOW Identifier	Enter the SOW identifier if the RFP has several SOWs, otherwise leave blank
	D	Data Category	Enter the category of the data for which the CDRL is being prepared.
	E	Contractor	On contract award, enter the contractor's name and the contractor's NATO Supply Code for Manufacturing
	1	Item Number	Enter a sequential AA-Xyy formatted number to uniquely identify the individual CDRL. (See Para 2.2.1)

	2	Title	Enter the title of the DID being referred to in this CDRL
	3	Subtitle	If the title requires further identification, enter a subtitle
	4	Data Item Number	Enter the DID number and title to which this CDRL refers
	5	Reference	Enter the applicable document down to the specific paragraph number which will assist in identifying the work effort associated with this item
	6	Technical Office	Enter the Technical Authority responsible for defining the requirement and ensuring the adequacy of the delivery data or item
	7	Inspection	Indicate the requirement for Inspection and Acceptance of the data or item using the following codes: · SS - Source, Source · DD - Destination, Destination · SD - Source, Destination · DS - Destination, Source The code refers to the location(s) where the Inspection and Acceptance are performed. Enter the appropriate code if applicable. If not, enter N/A.
	8	Approval Code	Enter the Approval Code required. (See Para 2.2.2)
	9	Review Period	Indicate timeframe in which DND reviews will take place (i.e. 5 Days, 2 weeks)
	10	Frequency	Indicate the frequency of delivery of the data. (See Para 2.2.3)
	11	As of Date	If the data or item is submitted only once insert the date that it is due. If constrained by a specific event or milestone, enter the constraint. If not applicable, leave blank
12	Date of First Submission	If multiple submissions are required, enter the date of the initial submission. If constrained by a specific event or milestone, enter the constraint. Leave blank for data or items submitted/delivered only once	
13	Date of Subsequent Submission	If the data or items are submitted more than once, enter the date(s) of the subsequent submission(s). If constrained by a specific event or milestone, enter the constraint (e.g. 15 days after the meeting)	
14	Remarks	Provide additional or clarifying information.	

	15	Distribution, Addressees	For data deliverables, enter the addressees in the Addressee Column. Mark an X in the Draft and Final Columns for each copy required by an addressee. Enter the number of copies and media type in the Media Column, Leave blank for equipment deliverable and insert the distribution in the Block 14 Remarks. (See Para 2.2.4)
	16	Prepared By	The Technical Authority who created this CDRL.
	17	Preparation Date	The date on which the CDRL was prepared.
	18	Approved By	The Canada Approval Authority who authorized the CDRL.
	19	Approval Date	The date on which the CDRL was approved.
2.2.1	2.2.1 Block 1		
2.2.1.0-1	Item Number denotes the sequential number assigned to the CDRL item. Some CDRL numbers may be "Reserved", "Deleted" or "Not allocated". The following identification numbering convention used is:		
2.2.1.0-1.0-1	AA-Xyy		
2.2.1.0-1.0-2	Where:		
2.2.1.0-1.0-2.0-1	AA would be the general area of interest:		
2.2.1.0-1.0-2.0-1.0-1	PM - Project Management		
2.2.1.0-1.0-2.0-1.0-2	SE - System Engineering		
2.2.1.0-1.0-2.0-1.0-3	CM - Configuration Management		
2.2.1.0-1.0-2.0-1.0-4	LS - Logistic Support		
2.2.1.0-1.0-2.0-1.0-5	DM - Data Management		
2.2.1.0-1.0-2.0-1.0-6	QA - Quality Assurance		
2.2.1.0-1.0-2.0-2	X would be the Contract reference:		
2.2.1.0-1.0-2.0-2.0-1	0 - Acquisition - Definition		
2.2.1.0-1.0-2.0-2.0-2	1 - Optimized Weapons System Support (OWSS)		
2.2.1.0-1.0-2.0-3	The yy is a two digit sequential number following the X prefix.		
2.2.2	2.2.2 Block 8		

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2.2.2.0-1	Approval Code denotes whether the data is to be submitted for approval, review or information. The following codes are used:
2.2.2.0-1.0-1	A Approval
2.2.2.0-1.0-1.0-1	The data listed as being deliverable must be submitted for Contract Authority approval. The Contractor must obtain this approval before using the data.
2.2.2.0-1.0-1.0-2	The Contractor must amend previously approved deliverable data within 10 working days from an agreement to amend the deliverable, and must obtain further Contract Authority approval before use.
2.2.2.0-1.0-2	R Review
2.2.2.0-1.0-2.0-1	The deliverable will be reviewed by Canada for acceptability of format, clarity and completeness. Once accepted, the data must be considered for information only.
2.2.2.0-1.0-3	I Information
2.2.2.0-1.0-3.0-1	The data is for information purposes only.
2.2.3	2.2.3 Block 10
2.2.3.0-1	Frequency denotes the frequency of delivery of the data (to be read in conjunction with Block 13). Frequencies may be expressed using the following codes:
2.2.3.0-1.0-1	ANNLY Annually
2.2.3.0-1.0-2	ASREQ As required
2.2.3.0-1.0-3	MNTHY Monthly
2.2.3.0-1.0-4	ONE/R One time plus revisions
2.2.4	2.2.4 Block 15
2.2.4.0-1	Distribution Addressees, Media and Quantity.
2.2.4.0-2	The following illustrate the designations that may be used for distribution addressees:
2.2.4.0-2.0-1	CA Contracting Authority
2.2.4.0-2.0-2	TA Technical Authority
2.2.4.0-2.0-3	OPI Office of Primary Interest

2.2.4.0-3	For Media and the number of copies in which the data item is to be delivered, the following codes may be used:		
2.2.4.0-3.0-1	x HC	Hard Copy	
2.2.4.0-3.0-2	x SC	Soft Copy	
2.2.4.0-3.0-3	EIE	Data is to be accessible through Electronic Information Environment (EIE) for all SC requirements with delivery notification to all addresses.	
2.2.4.0-3.0-4	The "x" represents the number of copies to be delivered.		
3	3 DATA ITEM DESCRIPTION (DID)		
3.1	3.1 DID Layout		
3.1.0-1	The Data Item Description is an information sheet that is used to define data deliverables that are called up in a SOW or specification (attached to the RFP) and that will ultimately be included in the resultant contract. Completion guidance for the fields in the form is shown below.		
3.1.0-2	BLOCK	Title	Completion Guidance
	1	Title	A short descriptive name that identifies its nature and distinguishes it from any other DID
	2	Data Item Number	A number assigned by the originator that uniquely identifies the DID for the originator’s use. For DID numbering convention see Para 3.2
	3	Description/ Purpose	A concise description (abstract) of the data content requirements or the item for product deliverables that identifies the purpose for which the DID is required
	4	Approval Date	Date that the DID was approved by the originator
	5	Office of Primary Interest (OPI)	The directorate or position responsible for the DID
	6	GIDEP Applicable	Insert an “X” if Government Industry Data Exchange Program (GIDEP) applicable, otherwise leave blank
	7	Application/ Interrelationship	Refers to applicable standards called up in the DID.
	8	Originator	Position title of the originator of the DID
	9	Applicable Forms	Identify any forms needed to prepare the data (i.e. Provisional Parts

			Breakdown, Material Safety Data Sheet)
	10	Preparation Instructions	Describe the data content and format that the contractor must satisfy. If used for a product deliverable, describe the product
3.2	3.2 Block 2		
3.2.0-1	Identification Number		
3.2.0-2	Denotes the sequential alphanumeric number assigned to the DID. Some DI Numbers may be "reserved", "deleted" or not "allocated". The following identification numbering conventions used is:		
3.2.0-2.0-1	AA-Xyy		
3.2.0-2.0-2	Where:		
3.2.0-2.0-2.0-1	AA would be the general area of interest:		
3.2.0-2.0-2.0-1.0-1	PM - Project Management		
3.2.0-2.0-2.0-1.0-2	SE - System Engineering		
3.2.0-2.0-2.0-1.0-3	CM - Configuration Management		
3.2.0-2.0-2.0-1.0-4	LS - Logistic Support		
3.2.0-2.0-2.0-1.0-5	DM - Data Management		
3.2.0-2.0-2.0-1.0-6	QA - Quality Assurance		
3.2.0-2.0-2.0-2	X would be the Contract reference:		
3.2.0-2.0-2.0-2.0-1	0 - Acquisition - Definition		
3.2.0-2.0-2.0-2.0-2	1 - Optimized Weapons System Support (OWSS)		
3.2.0-2.0-2.0-3	The yy is a two digit sequential number following the X prefix.		

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APPENDIX 1 TO ANNEX CC TO VOLUME 2

CONTRACT DATA REQUIREMENTS LIST (CDRL) FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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1 CDRL PM-001 Project Management Plan (PMP)

CONTRACT DATA REQUIREMENTS LIST

A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number W4x-09ISSP/A																								
C. SOW Identifier ISS ASOW	D. Data Category PM	E. Contractor																								
1. Item Number PM-001	2. Title Project Management Plan (PMP)	3. Subtitle																								
4. Data Item Number DID PM-001 Project Management Plan (PMP)	5. Reference Ann. CA to Vol. 2 (para. 3.1.4.0-2) Ann. CA to Vol. 2 (para. 3.2.2.0-1) Ann. CA to Vol. 2 (para. 3.2.2.1.0-1) Ann. CA to Vol. 2 (para. 3.2.2.1.2.0-1) Ann. CA to Vol. 2 (para. 3.2.9.2.0-2.0-2) Ann. CA to Vol. 2 (para. 3.3.3.0-1) Ann. CA to Vol. 2 (para. 3.3.3.1.0-2) Ann. CA to Vol. 2 (para. 4.2.0-1) Ann. CA to Vol. 2 (para. 4.3.3.0-1) Ann. CA to Vol. 2 (para. 4.7.1.0-1) Ann. CA to Vol. 2 (para. 5.2.5.0-4) Ann. CA to Vol. 2 (para. 3.1.2.0-1) Ann. CA to Vol. 2 (para. 3.3.2.0-4.0-1) Ann. CA to Vol. 2 (para. 6.3.0-4) App. 1 To Ann. CA To Vol. 2 (para. 2.5.0-1)	6. Technical Office PMO ISSP PCCO																								
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency ONE/R																							
11. As of Date	12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The draft PMP must be delivered to DND 10 WD after the System Qualification Phase kick-off meeting. Block 13. The Contractor must deliver the final version of the PMP no later than 2 MACA. Further updates (to reflect changes to the project) must be reviewed at a PRM; such		15. Distribution <table><tr><th rowspan="2">Addressee</th><th colspan="3">Copies</th></tr><tr><th>Draft</th><th>Final</th><th>Media</th></tr><tr><td>DND/TA</td><td>x</td><td></td><td>1 SC</td></tr><tr><td>DND/TA</td><td></td><td>x</td><td>1 SC 1 HC</td></tr><tr><td>Contracting Authority</td><td>x</td><td></td><td>1 SC</td></tr><tr><td>Contracting Authority</td><td></td><td>x</td><td>1 SC 1 HC</td></tr></table>		Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.			
16. Prepared By PMO ISSP PCCO	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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2 CDRL PM-002 Quality Assurance Plan (QAP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																								
C. SOW Identifier ISS ASOW		D. Data Category PM		E. Contractor																							
1. Item Number PM-002		2. Title Quality Assurance Plan (QAP)		3. Subtitle																							
4. Data Item Number DID PM-002 Quality Assurance Plan (QAP)		5. Reference Ann. CA to Vol. 2 (para. 3.1.6.0-1) Ann. CA to Vol. 2 (para. 3.3.4.0-3) Ann. CA to Vol. 2 (para. 4.7.1.0-1) Ann. CA to Vol. 2 (para. 8.1.0-6) Ann. CA to Vol. 2 (para. 3.1.2.0-4) Ann. CA to Vol. 2 (para. 3.3.3.0-2) Ann. CA to Vol. 2 (para. 3.3.2.0-4.0-3) Ann. CA to Vol. 2 (para. 3.3.6.2-10) App. 1 To Ann. CA To Vol. 2 (para. 2.5.0-3) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-10) App. 1 To Ann. CA To Vol. 2 (para. 3.4.4.0-2.0-7) App. 1 To Ann. CA To Vol. 2 (para. 3.4.2.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.4.3.0-3) App. 1 To Ann. CA To Vol. 2 (para. 3.4.5.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.4.6.0-3.0-2)		6. Technical Office PMO ISSP PCCO																							
7. Inspection DD		8. Approval Code R		9. Review Period 10 WD																							
				10. Frequency ONE/R																							
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																							
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MACA. Further updates (to reflect changes to the project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.			
16. Prepared By PMO ISSP PCCO	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011

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3 CDRL PM-003 Master Project Schedule (MPS) and Work Breakdown Structure (WBS)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category PM		E. Contractor																								
1. Item Number PM-003	2. Title Master Project Schedule (MPS) and Work Breakdown Structure (WBS)		3. Subtitle																								
4. Data Item Number DID PM-003 Master Project Schedule (MPS) and Work Breakdown Structure (WBS)	5. Reference Ann. CA to Vol. 2 (para. 4.2.1.0-1) Ann. CA to Vol. 2 (para. 4.2.1.0-4) Ann. CA to Vol. 2 (para. 3.1.2.0-6) Ann. CA to Vol. 2 (para. 3.2.2.0-2) Ann. CA to Vol. 2 (para. 3.3.2.0-4.0-5) App. 1 To Ann. CA To Vol. 2 (para. 2.1.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.1.3.0-6) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-9) App. 1 To Ann. CA To Vol. 2 (para. 3.2.6.0-3.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-9) App. 1 To Ann. CA To Vol. 2 (para. 3.4.3.0-5)		6. Technical Office PMO ISSP PCCO																								
7. Inspection DD	8. Approval Code R	9. Review Period 5 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The detailed MPS and WBS must be delivered to DND 5 WD before the System Qualification Phase kick-off meeting. DND's comments on the initial submission will be provided for review/ discussion at the System Qualification Phase kick-off meeting. Block 13. A MPS update must be delivered no later that 5 WD after the end of each		15. Distribution <table border="1"><thead><tr><th rowspan="2">Addressee</th><th colspan="3">Copies</th></tr><tr><th>Draft</th><th>Final</th><th>Media</th></tr></thead><tbody><tr><td>DND/TA</td><td>x</td><td></td><td>1 SC</td></tr><tr><td>DND/TA</td><td></td><td>x</td><td>1 SC</td></tr><tr><td>Contracting Authority</td><td>x</td><td></td><td>1 SC 1 HC</td></tr><tr><td>Contracting Authority</td><td></td><td>x</td><td>1 SC 1 HC</td></tr></tbody></table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC 1 HC	Contracting Authority		x	1 SC 1 HC
Addressee	Copies																										
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<p>calendar month following the System Qualification Phase kick off meeting and must coincide with the submission of the Progress Report (CDRL PM-004)</p> <p>MPS Baselines. The initial schedule baseline must be established based on the schedule agreed to at the System Qualification Phase kick-off meeting. All variances to schedule must be against that schedule, until such times as the schedule is re-baselined with DND approval.</p> <p>Changes to the MPS Baseline (to reflect changes to the project) must be reviewed at a PRM; such proposed changes must be provided to DND at least 10 WD before the PRM where they will be reviewed.</p>			
16. Prepared By PMO ISSP PCCO	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

4 CDRL PM-004 Progress Report

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number W4x-09ISSP/A																								
C. SOW Identifier ISS ASOW		D. Data Category PM		E. Contractor																							
1. Item Number PM-004		2. Title Progress Report		3. Subtitle																							
4. Data Item Number DID PM-004 Progress Report		5. Reference Ann. CA to Vol. 2 (para. 4.3.2.1.0-1) Ann. CA to Vol. 2 (para. 3.2.2.0-4) Ann. CA to Vol. 2 (para. 3.3.3.0-4)		6. Technical Office PMO ISSP PCCO																							
7. Inspection DD		8. Approval Code R		9. Review Period 5 WD																							
				10. Frequency MNTY																							
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																							
14. Remarks <p>Block 12. The first Progress Report must be submitted at the System Qualification Phase kick-off meeting and must cover all progress since contract award.</p> <p>Block 13. The Progress Report must be delivered no later than 5 WD after the end of each calendar month following the System Qualification Phase kick-off meeting.</p> <p>All Progress Reports must cover the period from the last report up to the end of the month being reported.</p> <p>The last Progress Report must cover the month in which the last Equipment or ILS element is delivered.</p>		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA				DND/TA		x	1 SC	Contracting Authority				Contracting Authority		x	1 SC 1 HC
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		DND/TA																									
		DND/TA		x	1 SC																						
Contracting Authority																											
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

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5 CDRL PM-005 Meeting Agenda

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW		D. Data Category PM		E. Contractor																								
1. Item Number PM-005		2. Title Meeting Agenda		3. Subtitle																								
4. Data Item Number DID PM-005 Meeting Agenda		5. Reference Ann. CA to Vol. 2 (para. 3.2.2.1.0-2) Ann. CA to Vol. 2 (para. 3.2.9.2.0-2.0-1) Ann. CA to Vol. 2 (para. 4.3.1.1.0-7) Ann. CA to Vol. 2 (para. 5.2.5.0-3) Ann. CA to Vol. 2 (para. 6.3.0-3) App. 1 To Ann. CA To Vol. 2 (para. 2.2.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.1.3.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.4.3.0-1)		6. Technical Office PMO ISSP PCCO																								
7. Inspection DD		8. Approval Code A		9. Review Period 2 WD																								
10. Frequency ASREQ																												
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission																								
14. Remarks Block 12. The Meeting Agenda must be submitted for review no later than 5 WD prior to each meeting.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC</td> </tr> </tbody> </table>				Addressee	Copies			Draft	Final	Media	DND/TA				DND/TA		x	1 SC	Contracting Authority				Contracting Authority		x	1 SC
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DND/TA		x	1 SC																									
Contracting Authority																												
Contracting Authority		x	1 SC																									
16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																								
19. Approval Date June 2011																												

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6 CDRL PM-006 Meeting Minutes

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category PM		E. Contractor																								
1. Item Number PM-006	2. Title Meeting Minutes		3. Subtitle																								
4. Data Item Number DID PM-006 Meeting Minutes	5. Reference Ann. CA to Vol. 2 (para. 3.2.2.1.0-3) Ann. CA to Vol. 2 (para. 3.2.9.2.0-2.0-3) Ann. CA to Vol. 2 (para. 4.3.1.1.0-8) Ann. CA to Vol. 2 (para. 5.2.5.0-5) Ann. CA to Vol. 2 (para. 6.3.0-5) App. 1 To Ann. CA To Vol. 2 (para. 2.3.2.0-5) App. 1 To Ann. CA To Vol. 2 (para. 3.1.5.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.5.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.6.0-3.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-8) App. 1 To Ann. CA To Vol. 2 (para. 3.3.5.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.4.5.0-1)		6. Technical Office PMO ISSP PCCO																								
7. Inspection DD	8. Approval Code A	9. Review Period See Block 14	10. Frequency ASREQ																								
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission																								
14. Remarks Block 9 and 12. Minutes of the meetings must be completed and signed-off by the Contractor and the TA by the end of the meeting.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA				DND/TA		x	1 SC 1 HC	Contracting Authority				Contracting Authority		x	1 SC 1 HC
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16. Prepared By	17. Preparation Date	18. Approved By	19. Approval Date																								

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

PMO ISSP PCCO	June 2011	PM ISSP	June 2011
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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

7 CDRL PM-007 Issue-Action Item Log (IAIL)

CONTRACT DATA REQUIREMENTS LIST		
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A
C. SOW Identifier ISS ASOW	D. Data Category PM	E. Contractor
1. Item Number PM-007	2. Title Issue-Action Item Log (IAIL)	3. Subtitle
4. Data Item Number DID PM-007 Issue-Action Item Log (IAIL)	5. Reference Ann. CA to Vol. 2 (para. 3.2.9.2.0-2.0-4) Ann. CA to Vol. 2 (para. 4.3.1.1.0-9) Ann. CA to Vol. 2 (para. 4.3.2.0-2) Ann. CA to Vol. 2 (para. 5.2.5.0-6) Ann. CA to Vol. 2 (para. 6.3.0-6) Ann. CA to Vol. 2 (para. 3.2.2.1.0-4) App. 1 To Ann. CA To Vol. 2 (para. 2.3.2.0-1) App. 1 To Ann. CA To Vol. 2 (para. 2.4.0-2.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.1.5.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-8) App. 1 To Ann. CA To Vol. 2 (para. 3.2.5.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.2.6.0-3.0-3) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-11) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-13) App. 1 To Ann. CA To Vol. 2 (para. 3.3.4.0-2.0-3) App. 1 To Ann. CA To Vol. 2 (para. 3.3.5.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.3.6.0-2.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.4.3.0-6) App. 1 To Ann. CA To Vol. 2 (para. 3.4.5.0-2)	6. Technical Office PMO ISSP PCCO

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

7. Inspection DD	8. Approval Code A	9. Review Period See Block 14	10. Frequency ASREQ																							
11. As of Date	12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																								
14. Remarks <p>Block 9 and 12. A draft Issue-Action Item Log, with issues and actions identified to-date, must be delivered to the TA, 5 WD after the System Qualification Phase kick-off meeting. TA comments on the draft Issue-Action Log will be provided within 5 WD.</p> <p>Block 13. The Contractor must update the Issue-Action Item Log based on the Issues-Actions resulting from meetings, reviews, working groups, technical interchange meetings, and correspondence between Canada and the Contractor.</p> <p>Updates to the Issue-Action Item Log will be done as mutually agreed between Canada and the Contractor.</p>		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th><th colspan="3">Copies</th></tr> <tr> <th>Draft</th><th>Final</th><th>Media</th></tr> </thead> <tbody> <tr> <td>DND/TA</td><td>x</td><td></td><td>1 SC</td></tr> <tr> <td>DND/TA</td><td></td><td>x</td><td>1 SC</td></tr> <tr> <td>Contracting Authority</td><td>x</td><td></td><td>1 SC</td></tr> <tr> <td>Contracting Authority</td><td></td><td>x</td><td>1 SC</td></tr> </tbody> </table>		Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC
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DND/TA		x	1 SC																							
Contracting Authority	x		1 SC																							
Contracting Authority		x	1 SC																							
16. Prepared By PMO ISSP PCCO	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																							

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8 CDRL PM-008 Environmental Health Safety Assessment (EHSA)

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW		D. Data Category PM		E. Contractor																								
1. Item Number PM-008		2. Title Environmental Health Safety Assessment (EHSA)		3. Subtitle																								
4. Data Item Number DID PM-008 Environmental, Health and Safety Assessment (EHSA)		5. Reference Ann. CA to Vol. 2 (para. 3.2.4.0-2) Ann. CA to Vol. 2 (para. 4.5.9.0-1) Ann. CA to Vol. 2 (para. 5.3.5.6.0-11.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.3.2.0-6)		6. Technical Office PMO ISSP PCCO																								
7. Inspection DD		8. Approval Code R		9. Review Period 15 WD																								
10. Frequency ONE/R																												
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission																								
14. Remarks Block 12. The draft EHSA must be submitted for review 30 WD before FQR.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>				Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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16. Prepared By PMO ISSP PCCO		17. Preparation Date June 2011		18. Approved By PM ISSP																								
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9 CDRL PM-009 Intellectual Property (IP) Lists

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW		D. Data Category PM		E. Contractor																								
1. Item Number PM-009		2. Title Intellectual Property (IP) Lists		3. Subtitle																								
4. Data Item Number DID PM-009 Intellectual Property (IP) Lists		5. Reference Ann. CA to Vol. 2 (para. 4.4.0-1)		6. Technical Office PMO ISSP PCCO																								
7. Inspection DD		8. Approval Code R		9. Review Period 10 WD																								
10. Frequency ONE/R																												
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission																								
14. Remarks Block 12. A draft Intellectual Property Lists must be delivered to the TA 10 WD before FQR.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>				Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

10 CDRL PM-010 Government Property Report

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category PM	E. Contractor																									
1. Item Number PM-010	2. Title Government Property Report	3. Subtitle																									
4. Data Item Number DID PM-010 Government Property Report	5. Reference Ann. CA to Vol. 2 (para. 4.8.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-16)	6. Technical Office PMO ISSP PCCO																									
7. Inspection DD	8. Approval Code A	9. Review Period 10 WD	10. Frequency ONE/R																								
11. As of Date	12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																									
14. Remarks Block 12. The draft Government Property Report must be delivered to the TA 10 WD after the System Qualification Phase kick-off meeting. TA comments on the initial submission will be provided within 10 WD following receipt of the first draft from the Contractor. Block 13. Further updates (to reflect changes to the project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

11 CDRL SE-001 System Engineering Management Plan (SEMP)

CONTRACT DATA REQUIREMENTS LIST																									
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																							
C. SOW Identifier ISS ASOW	D. Data Category SE		E. Contractor																						
1. Item Number SE-001	2. Title System Engineering Management Plan (SEMP)		3. Subtitle																						
4. Data Item Number DID SE-001 System Engineering Management Plan (SEMP)	5. Reference Ann. CA to Vol. 2 (para. 3.2.11.1.0-1) Ann. CA to Vol. 2 (para. 5.2.2.0-2) Ann. CA to Vol. 2 (para. 5.3.1.0-2) Ann. CA to Vol. 2 (para. 5.3.2.0-2) Ann. CA to Vol. 2 (para. 5.3.3.0-2) Ann. CA to Vol. 2 (para. 5.3.4.0-4) Ann. CA to Vol. 2 (para. 5.3.5.0-3) Ann. CA to Vol. 2 (para. 5.3.5.2.0-3) Ann. CA to Vol. 2 (para. 5.3.5.2.0-4) Ann. CA to Vol. 2 (para. 3.1.2.0-2) Ann. CA to Vol. 2 (para. 3.2.3.4.0-2) Ann. CA to Vol. 2 (para. 3.2.3.3.0-1.0-1) Ann. CA to Vol. 2 (para. 5.3.5.1.0-2) App. 1 To Ann. CA To Vol. 2 (para. 2.3.0-1) App. 1 To Ann. CA To Vol. 2 (para. 2.5.0-1)		6. Technical Office PMO ISSP SE																						
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency ONE/R																						
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																						
14. Remarks Block 12. The draft SEMP must be delivered to DND 10 WD after the System Qualification Phase kick-off meeting. Block 13. The Contractor must deliver the final version of the SEMP no later than 2 MACA. Further updates (to reflect changes to the		15. Distribution																							
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority	
Addressee	Copies																								
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DND/TA		x	1 SC 1 HC																						
Contracting Authority	x		1 SC																						
Contracting Authority		x	1 SC 1 HC																						

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.			
16. Prepared By PMO ISSP Chief Engineer	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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12 CDRL SE-002 Interface Control Document (ICD)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category SE		E. Contractor																								
1. Item Number SE-002	2. Title Interface Control Document		3. Subtitle																								
4. Data Item Number DID SE-002 Interface Control Document (ICD)	5. Reference Ann. CA to Vol. 2 (para. 3.2.3.2.0-1) Ann. CA to Vol. 2 (para. 3.2.5.0-3) Ann. CA to Vol. 2 (para. 3.2.3.2.0-2)		6. Technical Office PMO ISSP SE																								
7. Inspection DD	8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission 20 WD prior to FCA	13. Date of Subsequent Submission																								
14. Remarks		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
		Addressee	Copies																								
			Draft	Final	Media																						
		DND/TA	x		1 SC																						
DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP Chief Engineer		17. Preparation Date June 2011	18. Approved By PM ISSP																								
			19. Approval Date June 2011																								

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

13 CDRL SE-003 Battery System Description

CONTRACT DATA REQUIREMENTS LIST						
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A			
C. SOW Identifier ISS ASOW		D. Data Category SE		E. Contractor		
1. Item Number SE-003		2. Title Battery System Description		3. Subtitle		
4. Data Item Number DID SE-003 Battery System Description		5. Reference Ann. CA to Vol. 2 (para. 3.2.4.0-4)		6. Technical Office PMO ISSP SE		
7. Inspection DD		8. Approval Code R		9. Review Period 15 WD		
				10. Frequency ONE/R		
11. As of Date		12. Date of First Submission No later than 5 MACA		13. Date of Subsequent Submission 10 WD after receipt of TA comments		
14. Remarks		15. Distribution				
		Addressee		Copies		
				Draft	Final	Media
		DND/TA		x		1 SC
		DND/TA			x	1 SC 1 HC
Contracting Authority		x		1 SC		
Contracting Authority			x	1 SC 1 HC		
16. Prepared By PMO ISSP Chief Engineer		17. Preparation Date June 2011		18. Approved By PM ISSP		
				19. Approval Date June 2011		

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif. 004RA W8476-112965	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

14 CDRL SE-004 Verification and Qualification Plan (VQP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category SE		E. Contractor																								
1. Item Number SE-004	2. Title Verification and Qualification Plan (VQP)		3. Subtitle																								
4. Data Item Number DID SE-004 Verification Qualification Plan (VQP)	5. Reference Ann. CA to Vol. 2 (para. 3.2.8.0-3) Ann. CA to Vol. 2 (para. 3.2.8.1.0-1) Ann. CA to Vol. 2 (para. 3.2.8.1.0-11) Ann. CA to Vol. 2 (para. 5.2.3.0-1) Ann. CA to Vol. 2 (para. 5.3.6.0-2) Ann. CA to Vol. 2 (para. 5.3.6.0-5) Ann. CA to Vol. 2 (para. 5.3.6.2.0-2) Ann. CA to Vol. 2 (para. 3.2.5.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.1.3.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.1.4.0-2.0-6) App. 1 To Ann. CA To Vol. 2 (para. 3.1.5.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.2.2.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-13)		6. Technical Office PMO ISSP SE																								
7. Inspection DD	8. Approval Code A	9. Review Period 10 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The draft VQP must be delivered to DND 10 WD after the System Qualification Phase kick-off meeting. Block 13. The Contractor must deliver the final version of the VQP no later than 2 MACA.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th><th colspan="3">Copies</th></tr> <tr> <th>Draft</th><th>Final</th><th>Media</th></tr> </thead> <tbody> <tr> <td>DND/TA</td><td>x</td><td></td><td>1 SC</td></tr> <tr> <td>DND/TA</td><td></td><td>x</td><td>1 SC 1 HC</td></tr> <tr> <td>Contracting Authority</td><td>x</td><td></td><td>1 SC</td></tr> <tr> <td>Contracting Authority</td><td></td><td>x</td><td>1 SC 1 HC</td></tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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Contracting Authority	x		1 SC																								
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16. Prepared By	17. Preparation Date	18. Approved By	19. Approval Date																								

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PMO ISSP Chief Engineer	June 2011	PM ISSP	June 2011
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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

15 CDRL SE-005 Qualification Test Description and Procedures (QTDP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																								
C. SOW Identifier ISS ASOW		D. Data Category SE		E. Contractor																							
1. Item Number SE-005		2. Title Qualification Test Description and Procedures (QTDP)		3. Subtitle																							
4. Data Item Number DID SE-005 Qualification Test Description and Procedures (QTDP)		5. Reference Ann. CA to Vol. 2 (para. 3.2.8.1.0-6) Ann. CA to Vol. 2 (para. 3.2.8.1.0-10) Ann. CA to Vol. 2 (para. 5.3.6.2.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.2.2.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-2)		6. Technical Office PMO ISSP SE																							
7. Inspection DD		8. Approval Code A	9. Review Period 10 WD	10. Frequency ONE/R																							
11. As of Date		12. Date of First Submission 20 WD prior to conduct of test		13. Date of Subsequent Submission 5 WD prior to conduct of test																							
14. Remarks		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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			Draft	Final	Media																						
		DND/TA	x		1 SC																						
DND/TA		x	1 SC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP Chief Engineer		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif. 004RA W8476-112965	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

16 CDRL SE-006 Verification Qualification Test Report

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW		D. Data Category SE		E. Contractor																								
1. Item Number SE-006		2. Title Verification Qualification Test Report		3. Subtitle																								
4. Data Item Number DID SE-006 Verification Qualification Test Report		5. Reference Ann. CA to Vol. 2 (para. 3.2.8.1.0-13) Ann. CA to Vol. 2 (para. 5.3.6.1.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.3.4.0-2.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.6.0-2.0-4)		6. Technical Office PMO ISSP SE																								
7. Inspection DD		8. Approval Code A		9. Review Period 10 WD																								
10. Frequency ONE/R																												
11. As of Date		12. Date of First Submission 5 WD after conduct of Verification Qualification Test		13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 13. The contractor must submit a revised version 10 WD after receipt of TA comments. All verification reports are required at least 5 WD prior to TRR.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>				Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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DND/TA		x	1 SC																									
Contracting Authority	x		1 SC																									
Contracting Authority		x	1 SC 1 HC																									
16. Prepared By PMO ISSP Chief Engineer		17. Preparation Date June 2011		18. Approved By PM ISSP																								
19. Approval Date June 2011																												

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17 CDRL SE-007 System Acceptance Test Plan (SATP).

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category SE		E. Contractor																								
1. Item Number SE-007	2. Title System Acceptance Test Plan (SATP)		3. Subtitle																								
4. Data Item Number DID SE-007 System Acceptance Test Plan (SATP)	5. Reference Ann. CA to Vol. 2 (para. 3.2.9.1.0-1) Ann. CA to Vol. 2 (para. 3.2.10.1.0-1) Ann. CA to Vol. 2 (para. 5.2.4.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.2.0-5) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-3) App. 1 To Ann. CA To Vol. 2 (para. 3.2.5.0-3) App. 1 To Ann. CA To Vol. 2 (para. 3.2.6.0-2.0-2)		6. Technical Office PMO ISSP SE																								
7. Inspection	8. Approval Code A	9. Review Period See Block 14	10. Frequency ONE/R																								
11. As of Date	12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 9 and 12. The draft SATP must be delivered to the TA 60 WD prior to TRR. TA comments will be provided within 10 WD following receipt. Block 13. Subsequent submission of the SATP must be submitted for approval 10 WD after receipt of TA comments.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
		Addressee	Copies																								
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		DND/TA	x		1 SC																						
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RFP - N° de la DP
W8476-112965/B

Amendment No. - N° de la modif.

Buyer ID - Id de l'acheteur
004RA

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

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

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18 CDRL SE-008 System Acceptance Test Description and Procedures (SATDP)

CONTRACT DATA REQUIREMENTS LIST																									
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																						
C. SOW Identifier ISS ASOW		D. Data Category SE		E. Contractor																					
1. Item Number SE-008		2. Title System Acceptance Test Description and Procedures (SATDP)		3. Subtitle																					
4. Data Item Number DID SE-008 System Acceptance Test Description and Procedures (SATDP)		5. Reference Ann. CA to Vol. 2 (para. 3.2.9.3.0-1) Ann. CA to Vol. 2 (para. 3.2.9.3.0-2) Ann. CA to Vol. 2 (para. 3.2.9.3.1.0-1) Ann. CA to Vol. 2 (para. 3.2.10.1.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.2.0-6) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.2.5.0-4) App. 1 To Ann. CA To Vol. 2 (para. 3.2.6.0-2.0-3)		6. Technical Office PMO ISSP SE																					
7. Inspection DD		8. Approval Code A	9. Review Period See Block 14	10. Frequency ONE/R																					
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																					
14. Remarks Block 9 and 12. The draft SATDP must be delivered to the TA 30 WD prior to TRR. TA comments will be provided within 10 WD following receipt. Block 13. Subsequent submission of the SATDP must be submitted for approval 10 WD after receipt of TA comments.		15. Distribution																							
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority	
Addressee	Copies																								
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DND/TA		x	1 SC 1 HC																						
Contracting Authority	x		1 SC																						
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16. Prepared By PMO ISSP Chief Engineer		17. Preparation Date June 2011		18. Approved By PM ISSP																					
				19. Approval Date June 2011																					

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

19 CDRL SE-009 SAT Report

CONTRACT DATA REQUIREMENTS LIST																									
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																							
C. SOW Identifier ISS ASOW	D. Data Category SE	E. Contractor																							
1. Item Number SE-009	2. Title SAT Report	3. Subtitle																							
4. Data Item Number DID SE-009 SAT Report	5. Reference Ann. CA to Vol. 2 (para. 3.2.10.2.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.3.4.0-2.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.3.6.0-2.0-1)		6. Technical Office PMO ISSP SE																						
7. Inspection DD	8. Approval Code A	9. Review Period See Block 14	10. Frequency ONE/R																						
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																						
14. Remarks Block 9 and 12. The draft SAT report must be delivered to the TA within 15 WD prior to FQR. TA comments will be provided at FQR. Block 13. Subsequent submission of the SAT Report must be submitted for approval 10 WD after FQR.		15. Distribution																							
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority	
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16. Prepared By PMO ISSP Chief Engineer	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																						

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20 CDRL SE-010 Production Plan (ProdP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category SE		E. Contractor																								
1. Item Number SE-010	2. Title Production Plan (ProdP)		3. Subtitle																								
4. Data Item Number DID SE-010 Production Plan (ProdP)	5. Reference Ann. CA to Vol. 2 (para. 3.3.2.0-3) Ann. CA to Vol. 2 (para. 3.3.2.0-2) Ann. CA to Vol. 2 (para. 3.3.3.0-5) Ann. CA to Vol. 2 (para. 3.3.3.2.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.4.2.0-3) App. 1 To Ann. CA To Vol. 2 (para. 3.4.3.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.4.6.0-3.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.4.5.0-3)		6. Technical Office PMO ISSP SE																								
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission 10 WD prior to PRR	13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 13. The TA will submit comments at PRR. The Contractor must submit a revised Production Plan within 10 WD after PRR.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP Chief Engineer	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

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21 CDRL LS-001 Integrated Logistics Support Plan (ILSP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/001/RA																									
C. SOW Identifier ISS ASOW	D. Data Category LS		E. Contractor																								
1. Item Number LS-001	2. Title Integrated Logistics Support Plan (ILSP)		3. Subtitle																								
4. Data Item Number DID LS-001 Integrated Logistics Support Plan (ILSP)	5. Reference Ann. CA to Vol. 2 (para. 3.1.2.0-5) Ann. CA to Vol. 2 (para. 3.3.2.0-4.0-4) Ann. CA to Vol. 2 (para. 6.2.0-1) Ann. CA to Vol. 2 (para. 6.3.0-2)		6. Technical Office PMO ISSP ILSM																								
7. Inspection	8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																								
11. As of Date	12. Date of First Submission 10 WD after TRR		13. Date of Subsequent Submission 10 WD after Contract Amendment authorizing Production Phase																								
14. Remarks Block 13. Further updates (to reflect changes to the project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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Contracting Authority	x		1 SC																								
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16. Prepared By PMO ISSP ILSM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

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22 CDRL LS-002 Recommended Support Equipment Requirements List (RSERL)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/001/RA																								
C. SOW Identifier ISS ASOW		D. Data Category LS		E. Contractor																							
1. Item Number LS-002		2. Title Recommended Support Equipment Requirements List (RSERL)		3. Subtitle																							
4. Data Item Number DID LS-002 Recommended Support Equipment Requirements List (RSERL)		5. Reference Ann. CA to Vol. 2 (para. 6.7.4.0-1) Ann. CA to Vol. 2 (para. 3.3.8.0-2) Ann. CA to Vol. 2 (para. 6.6.6.0-1) Ann. CA to Vol. 2 (para. 3.3.8.0-3)		6. Technical Office PMO ISSP ILSM																							
7. Inspection		8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																							
11. As of Date		12. Date of First Submission 40 WD after Contract Amendment authorizing Production Phase		13. Date of Subsequent Submission																							
14. Remarks		15. Distribution																									
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23 CDRL LS-003 Recommended Spare Parts List (RSPL)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/001/RA																								
C. SOW Identifier ISS ASOW		D. Data Category LS		E. Contractor																							
1. Item Number LS-003		2. Title Recommended Spare Parts List (RSPL)		3. Subtitle																							
4. Data Item Number DID LS-003 Recommended Spare Parts List (RSPL)		5. Reference Ann. CA to Vol. 2 (para. 3.3.8.0-4) Ann. CA to Vol. 2 (para. 6.7.2.0-2)		6. Technical Office PMO ISSP ILSM																							
7. Inspection	8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission 40 WD after Contract Amendment authorizing Production Phase		13. Date of Subsequent Submission																							
14. Remarks		15. Distribution																									
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24 CDRL LS-004 Training Program Plan

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/001/RA																								
C. SOW Identifier ISS ASOW		D. Data Category LS		E. Contractor																							
1. Item Number LS-004		2. Title Training Program Plan		3. Subtitle																							
4. Data Item Number DID LS-004 Training Program Plan		5. Reference Ann. CA to Vol. 2 (para. 6.6.1.0-2) Ann. CA to Vol. 2 (para. 3.3.10.1.0-1) Ann. CA to Vol. 2 (para. 6.6.1.0-3) Ann. CA to Vol. 2 (para. 6.6.7.0-1) Ann. CA to Vol. 2 (para. 6.6.8.0-1) Ann. CA to Vol. 2 (para. 6.6.9.0-1)		6. Technical Office PMO ISSP ILSM																							
7. Inspection		8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																							
11. As of Date		12. Date of First Submission 10 WD after TRR		13. Date of Subsequent Submission 10 WD after Contract Amendment authorizing Production Phase																							
14. Remarks		15. Distribution																									
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Contracting Authority	x		1 SC																								
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16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

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25 CDRL LS-005 Maintenance Plan

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/001/RA																									
C. SOW Identifier ISS ASOW		D. Data Category LS		E. Contractor																								
1. Item Number LS-005		2. Title Maintenance Plan		3. Subtitle																								
4. Data Item Number DID LS-005 Maintenance Plan		5. Reference Ann. CA to Vol. 2 (para. 6.4.0-1)		6. Technical Office PMO ISSP ILSM																								
7. Inspection		8. Approval Code A		9. Review Period 15 WD																								
				10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission 10 WD after TRR		13. Date of Subsequent Submission 10 WD after Contract Amendment authorizing Production Phase																								
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DND/TA		x	1 SC 1 HC																									
Contracting Authority	x		1 SC																									
Contracting Authority		x	1 SC 1 HC																									
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP																								
				19. Approval Date June 2011																								

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26 CDRL LS-006 Software Documentation

CONTRACT DATA REQUIREMENTS LIST					
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/001/RA		
C. SOW Identifier ISS ASOW		D. Data Category LS		E. Contractor	
1. Item Number LS-006		2. Title Software Documentation		3. Subtitle	
4. Data Item Number DID LS-006 Software Documentation		5. Reference Ann. CA to Vol. 2 (para. 6.4.1.0-1)		6. Technical Office PMO ISSP ILSM	
7. Inspection		8. Approval Code A		9. Review Period 20 WD	
				10. Frequency ONE/R	
11. As of Date		12. Date of First Submission 120 WD after Contract Amendment authorizing Production Phase		13. Date of Subsequent Submission ASREQ	
14. Remarks		15. Distribution			
		Addressee		Copies	
				Draft	Final
		DND/TA	x		1 SC
		DND/TA		x	1 SC 1 HC
Contracting Authority	x		1 SC		
Contracting Authority		x	1 SC 1 HC		
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP	
				19. Approval Date June 2011	

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

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27 CDRL LS-007 Technical Publications

CONTRACT DATA REQUIREMENTS LIST

A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/001/RA	
C. SOW Identifier ISS ASOW	D. Data Category LS	E. Contractor	
1. Item Number LS-007	2. Title Technical Publications	3. Subtitle	
4. Data Item Number DID LS-007 Technical Publications	5. Reference Ann. CA to Vol. 2 (para. 6.5.1.0-2)	6. Technical Office PMO ISSP ILSM	
7. Inspection	8. Approval Code A	9. Review Period See Block 14	10. Frequency See Block 14
11. As of Date	12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14	

14. Remarks

Technical Publications will be processed in three phases:

Phase 1- Draft English Technical Publications:

Block 12. A draft of the English version of each technical publication must be delivered within 25WD after Contract Amendment authorizing Production Phase.

Block 9. TA will have 15WD to review and provide comments. TA comments will be on overall structure and depth of technical content.

Phase 2 - Validated English Technical Publications:

“Validated” means that the publication was verified/validated against the operation and maintenance of the equipment it is meant to address before resubmission

Block 12. The submission of the validated English Technical Publications must take

15. Distribution

Addressee	Copies		
	Draft	Final	Media
DND/TA	x		1 SC
DND/TA		x	1 SC 1 HC
Contracting Authority	x		1 SC
Contracting Authority		x	1 SC 1 HC

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Client Reference No. - N° de réf. du client
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File No. - N° du dossier
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place no later than 25WD after receipt of TA comments on the draft English Technical Publications.

Block 9. The TA will have 15WD from receipt to review and submit final comments.

Block 13. The final delivery of the Validated English Technical Publications must be no later than 15WD after receipt of the TA's final comments.

The Contractor cannot proceed with the 3rd phase of the process until the Validated English version of the Technical Publication has been approved by the TA.

Phase 3 - Bilingual (English/French)
Technical Publications:

Block 12. The delivery of each draft bilingual Technical Publication must be no later than 40WD after receipt of the approval of its validated English version by the TA.

Block 9. The TA will have 20WD from time of receipt to review and provide final comments.

Block 13. The final bilingual Technical Publications must be delivered with 10WD after receipt of TA's comments.

16. Prepared By
PMO ISSP ILSM

17. Preparation Date
June 2011

18. Approved By
PM ISSP

19. Approval Date
June 2011

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28 CDRL LS-008 Training Courses

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/001/RA																									
C. SOW Identifier ISS ASOW		D. Data Category LS		E. Contractor																								
1. Item Number LS-008		2. Title Training Courses		3. Subtitle																								
4. Data Item Number DID LS-008 Training Courses		5. Reference Ann. CA to Vol. 2 (para. 3.3.10.2.0-1) Ann. CA to Vol. 2 (para. 6.6.5.0-3) Ann. CA to Vol. 2 (para. 6.6.9.0-1)		6. Technical Office PMO ISSP ILSM																								
7. Inspection		8. Approval Code A		9. Review Period 10 WD																								
				10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																								
14. Remarks <p>Block 12. The draft Training Courses material for the Pilot ICT Instructor courses must be delivered to the TA no later than 60 WD after Contract Amendment authorizing Production Phase.</p> <p>Block 13. DND personnel selected to attend the Contractor delivered Pilot ICT Instructor courses will validate the training courses material and provide feedback within 10 WD of graduation. Within 30 WD of receipt of feedback, the Contractor must finalize the ICT Courseware, which DND will need to approve. Upon completion, the contractor must be ready to assist DND with the ICT Course serials.</p>			15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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29 CDRL LS-009 Equipment Identification Plate Data and Markings

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/001/RA																									
C. SOW Identifier ISS ASOW	D. Data Category LS		E. Contractor																								
1. Item Number LS-009	2. Title Equipment Identification Plate Data and Markings		3. Subtitle																								
4. Data Item Number DID LS-009 Equipment Identification Plate Data and Markings	5. Reference Ann. CA to Vol. 2 (para. 6.7.1.0-1) Ann. CA to Vol. 2 (para. 6.7.2.0-1)		6. Technical Office PMO ISSP ILSM																								
7. Inspection	8. Approval Code A	9. Review Period See Block 14	10. Frequency ASREQ																								
11. As of Date	12. Date of First Submission See Block 14		13. Date of Subsequent Submission																								
14. Remarks Block 9 and 12. Samples and drawings of Equipment Identification Plate Data must be delivered for review at the PRR. TA will deliver comments within 10 WD of receipt. Contractor must submit the final within 10 WD of receipt of TA comments.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
		Addressee	Copies																								
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DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP ILSM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

30 CDRL LS-010 Sparing Analysis Report

CONTRACT DATA REQUIREMENTS LIST					
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/001/RA		
C. SOW Identifier ISS ASOW		D. Data Category LS		E. Contractor	
1. Item Number LS-010		2. Title Sparing Analysis Report		3. Subtitle	
4. Data Item Number DID LS-010 Sparing Analysis Report		5. Reference		6. Technical Office PMO ISSP ILSM	
7. Inspection		8. Approval Code I		9. Review Period 15 WD	
10. Frequency ONE/R					
11. As of Date		12. Date of First Submission 40 WD after Contract Amendment authorizing Production Phase		13. Date of Subsequent Submission	
14. Remarks		15. Distribution			
		Addressee		Copies	
				Draft	Final
		DND/TA	x		1 SC
		DND/TA		x	1 SC 1 HC
Contracting Authority	x		1 SC		
Contracting Authority		x	1 SC 1 HC		
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP	
19. Approval Date June 2011					

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

31 CDRL LS-011 Supplementary Provisioning Technical Data (SPTD)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/001/RA																									
C. SOW Identifier ISS ASOW	D. Data Category LS		E. Contractor																								
1. Item Number LS-011	2. Title Supplementary Provisioning Technical Data (SPTD)		3. Subtitle																								
4. Data Item Number DID LS-011 Supplementary Provisioning Technical Data (SPTD)	5. Reference Ann. CA to Vol. 2 (para. 7.2.0-3) Ann. CA to Vol. 2 (para. 6.7.2.0-3)		6. Technical Office PMO ISSP ILSM																								
7. Inspection	8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																								
11. As of Date	12. Date of First Submission 40 WD after Contract Amendment authorizing Production Phase		13. Date of Subsequent Submission																								
14. Remarks CDRL to be submitted only if items provided do not have an established NATO Stock Number.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
		Addressee	Copies																								
			Draft	Final	Media																						
		DND/TA	x		1 SC																						
DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP ILSM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif. 004RA W8476-112965	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

32 CDRL LS-012 Consumable and Bulk Items List (CBIL)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/001/RA																								
C. SOW Identifier ISS ASOW		D. Data Category LS		E. Contractor																							
1. Item Number LS-012		2. Title Consumable and Bulk Items List (CBIL)		3. Subtitle																							
4. Data Item Number DID LS-012 Consumable and Bulk Items List (CBIL)		5. Reference Ann. CA to Vol. 2 (para. 6.7.2.0-4)		6. Technical Office PMO ISSP ILSM																							
7. Inspection	8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission 40 WD after Contract Amendment authorizing Production Phase		13. Date of Subsequent Submission																							
14. Remarks		15. Distribution																									
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		Addressee	Copies																								
			Draft	Final	Media																						
		DND/TA	x		1 SC																						
DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP																							
				19. Approval Date June 2011																							

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

33 CDRL LS-013 Packaging Data

CONTRACT DATA REQUIREMENTS LIST						
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/001/RA			
C. SOW Identifier ISS ASOW		D. Data Category LS		E. Contractor		
1. Item Number LS-013		2. Title Packaging Data		3. Subtitle		
4. Data Item Number DID LS-013 Packaging Data		5. Reference Ann. CA to Vol. 2 (para. 6.7.5.0-3) Ann. CA to Vol. 2 (para. 6.7.5.0-2)		6. Technical Office PMO ISSP ILSM		
7. Inspection		8. Approval Code R		9. Review Period 15 WD		
				10. Frequency ASREQ		
11. As of Date		12. Date of First Submission 40 WD after Contract Amendment authorizing Production Phase		13. Date of Subsequent Submission		
14. Remarks		15. Distribution				
		Addressee		Copies		
				Draft	Final	Media
		DND/TA		x		1 SC
		DND/TA			x	1 SC 1 HC
Contracting Authority		x		1 SC		
Contracting Authority			x	1 SC 1 HC		
16. Prepared By PMO ISSP ILSM		17. Preparation Date June 2011		18. Approved By PM ISSP		
				19. Approval Date June 2011		

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

34 CDRL CM-001 Configuration Management Plan (CMP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category CM	E. Contractor																									
1. Item Number CM-001	2. Title Configuration Management Plan (CMP)	3. Subtitle																									
4. Data Item Number DID CM-001 Configuration Management Plan (CMP)	5. Reference Ann. CA to Vol. 2 (para. 3.1.5.0-1) Ann. CA to Vol. 2 (para. 3.1.5.1.0-1) Ann. CA to Vol. 2 (para. 3.2.1.0-3) Ann. CA to Vol. 2 (para. 3.2.8.1.0-12) Ann. CA to Vol. 2 (para. 3.2.11.3.0-1) Ann. CA to Vol. 2 (para. 7.1.0-1) Ann. CA to Vol. 2 (para. 3.1.2.0-3) Ann. CA to Vol. 2 (para. 3.3.3.0-3) Ann. CA to Vol. 2 (para. 3.3.2.0-4.0-2) App. 1 To Ann. CA To Vol. 2 (para. 2.5.0-2)	6. Technical Office PMO ISSP CM																									
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency ONE/R																								
11. As of Date	12. Date of First Submission See Block 14	13. Date of Subsequent Submission See Block 14																									
14. Remarks Block 12. The draft CMP must be delivered to the TA 10 WD after the System Qualification Phase kick-off meeting. Block 13. The Contractor must deliver the final version of the CMP no later than 2 MACA. Further updates (to reflect changes to the project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC 1 HC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
Addressee	Copies																										
	Draft	Final	Media																								
DND/TA	x		1 SC																								
DND/TA		x	1 SC 1 HC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP CM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
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RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif. 004RA W8476-112965	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

35 CDRL CM-002 Engineering Change Proposal (ECP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category CM		E. Contractor																								
1. Item Number CM-002	2. Title Engineering Change Proposal (ECP)		3. Subtitle																								
4. Data Item Number DID CM-002 Engineering Change Proposal (ECP)	5. Reference Ann. CA to Vol. 2 (para. 3.1.5.1.0-1) Ann. CA to Vol. 2 (para. 7.3.0-1) Ann. CA to Vol. 2 (para. 3.2.3.1.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-5) App. 1 To Ann. CA To Vol. 2 (para. 3.4.3.0-4)		6. Technical Office PMO ISSP CM																								
7. Inspection DD	8. Approval Code A	9. Review Period 15 WD	10. Frequency ASREQ																								
11. As of Date		12. Date of First Submission When a requirement is identified	13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 13. The Contractor must provide updates 5 WD after receipt of TA comments.		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
		Addressee	Copies																								
			Draft	Final	Media																						
		DND/TA	x		1 SC																						
DND/TA		x	1 SC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP CM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

36 CDRL CM-003 Notice of Revision (NOR)

CONTRACT DATA REQUIREMENTS LIST					
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A		
C. SOW Identifier ISS ASOW		D. Data Category CM		E. Contractor	
1. Item Number CM-003		2. Title Notice of Revision (NOR)		3. Subtitle	
4. Data Item Number DID CM-003 Notice of Revision (NOR)		5. Reference Ann. CA to Vol. 2 (para. 7.3.0-5) Ann. CA to Vol. 2 (para. 3.2.3.1.0-3)		6. Technical Office PMO ISSP CM	
7. Inspection DD		8. Approval Code R		9. Review Period 15 WD	
10. Frequency ASREQ					
11. As of Date		12. Date of First Submission 10 WD after ECP approval by TA		13. Date of Subsequent Submission	
14. Remarks		15. Distribution			
		Addressee		Copies	
				Draft	Final
		DND/TA	x		1 SC
		DND/TA		x	1 SC
Contracting Authority	x		1 SC		
Contracting Authority		x	1 SC 1 HC		
16. Prepared By PMO ISSP CM		17. Preparation Date June 2011		18. Approved By PM ISSP	
19. Approval Date June 2011					

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

37 CDRL CM-004 Software Version Description Document (SVDD)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																								
C. SOW Identifier ISS ASOW		D. Data Category CM		E. Contractor																							
1. Item Number CM-004		2. Title Software Version Description Document (SVDD)		3. Subtitle																							
4. Data Item Number DID CM-004 Software Version Description Document (SVDD)		5. Reference Ann. CA to Vol. 2 (para. 7.4.0-2) Ann. CA to Vol. 2 (para. 3.3.7.0-1)		6. Technical Office PMO ISSP CM																							
7. Inspection DD	8. Approval Code R	9. Review Period 15 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission 10 WD prior to FCA		13. Date of Subsequent Submission 10 WD after receipt of TA comments																							
14. Remarks		15. Distribution																									
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
		Addressee	Copies																								
			Draft	Final	Media																						
		DND/TA	x		1 SC																						
DND/TA		x	1 SC																								
Contracting Authority	x		1 SC																								
Contracting Authority		x	1 SC 1 HC																								
16. Prepared By PMO ISSP CM		17. Preparation Date June 2011		18. Approved By PM ISSP																							
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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

38 CDRL CM-005 Equipment Breakdown Structure (EBS)

CONTRACT DATA REQUIREMENTS LIST																									
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																							
C. SOW Identifier ISS ASOW	D. Data Category CM		E. Contractor																						
1. Item Number CM-005	2. Title Equipment Breakdown Structure (EBS)		3. Subtitle																						
4. Data Item Number DID CM-005 Equipment Breakdown Structure (EBS)	5. Reference Ann. CA to Vol. 2 (para. 7.2.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.1.3.0-5) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-7) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-5) App. 1 To Ann. CA To Vol. 2 (para. 3.3.4.0-2.0-4)		6. Technical Office PMO ISSP CM																						
7. Inspection DD	8. Approval Code R	9. Review Period See Block 14	10. Frequency ONE/R																						
11. As of Date		12. Date of First Submission See Block 14	13. Date of Subsequent Submission																						
14. Remarks Block 9 and 12. The draft EBS must be delivered 5 WD prior to the System Qualification Phase SRAR meeting. The TA will provide feedback at the SRAR meeting. The contractor must deliver the final version of the EBS no later than 10 WD after SRAR.		15. Distribution																							
		<table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority	
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DND/TA	x		1 SC																						
DND/TA		x	1 SC																						
Contracting Authority	x		1 SC																						
Contracting Authority		x	1 SC 1 HC																						
16. Prepared By PMO ISSP CM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																						

RFP - N° de la DP W8476-112965/B	Amendment No. - N° de la modif.	Buyer ID - Id de l'acheteur 004RA
Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

39 CDRL CM-006 Request for Deviation (RFD)/ Request for Waiver (RFW)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category CM		E. Contractor																								
1. Item Number CM-006	2. Title Request for Deviation (RFD)/Request for Waiver (RFW)		3. Subtitle																								
4. Data Item Number DID CM-006 Request for Deviation (RFD)/Request for Waiver (RFW)	5. Reference Ann. CA to Vol. 2 (para. 7.3.0-3)		6. Technical Office PMO ISSP CM																								
7. Inspection DD	8. Approval Code A	9. Review Period 15 WD	10. Frequency ASREQ																								
11. As of Date	12. Date of First Submission When a requirement is identified		13. Date of Subsequent Submission																								
14. Remarks		15. Distribution																									
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16. Prepared By PMO ISSP CM	17. Preparation Date June 2011	18. Approved By PM ISSP	19. Approval Date June 2011																								

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Client Reference No. - N° de réf. du client W8476-112965	File No. - N° du dossier 004RA W8476-112965	Volume 2, Annex CC, Appendix 1

40 CDRL CM-007 Specification Change Notice

CONTRACT DATA REQUIREMENTS LIST																												
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW		D. Data Category CM		E. Contractor																								
1. Item Number CM-007		2. Title Specification Change Notice		3. Subtitle																								
4. Data Item Number DID CM-007 Specification Change Notice (SCN)		5. Reference Ann. CA to Vol. 2 (para. 7.3.0-4)		6. Technical Office PMO ISSP CM																								
7. Inspection DD		8. Approval Code R		9. Review Period 15 WD																								
10. Frequency ASREQ																												
11. As of Date		12. Date of First Submission 10 WD after ECP approval from TA		13. Date of Subsequent Submission																								
14. Remarks		15. Distribution																										
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41 CDRL CM-008 Configuration Status Accounting (CSA) Report

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs		B. Contract / RFP Number Wxxxx-09ISSP/A																									
C. SOW Identifier ISS ASOW	D. Data Category CM		E. Contractor																								
1. Item Number CM-008	2. Title Configuration Status Accounting (CSA) Report		3. Subtitle																								
4. Data Item Number DID CM-008 Configuration Status Accounting (CSA) Report	5. Reference Ann. CA to Vol. 2 (para. 7.4.0-1) App. 1 To Ann. CA To Vol. 2 (para. 3.2.3.0-6)		6. Technical Office PMO ISSP CM																								
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency MNTY																								
11. As of Date	12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																								
14. Remarks Block 12. The first CSA Report must be submitted at the System Qualification Phase kick-off mtg. Block 13. The CSA Report must be delivered no later than 5 WD after the end of each calendar month following the System Qualification Phase kick-off mtg. The last CSA Report will be delivered at the end of the System Qualification phase. Subsequent CSA reports will be submitted under OWSS contract.		15. Distribution																									
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42 CDRL CM-009 Configuration Audit Plan

CONTRACT DATA REQUIREMENTS LIST																							
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																				
C. SOW Identifier ISS ASOW		D. Data Category CM		E. Contractor																			
1. Item Number CM-009		2. Title Configuration Audit Plan		3. Subtitle																			
4. Data Item Number DID CM-009 Configuration Audit Plan (CAP)		5. Reference Ann. CA to Vol. 2 (para. 7.5.0-1)		6. Technical Office PMO ISSP CM																			
7. Inspection DD		8. Approval Code R		9. Review Period See Block 14																			
10. Frequency See Block 14		11. As of Date		12. Date of First Submission See Block 14																			
13. Date of Subsequent Submission See Block 14		14. Remarks Block 9 and 12. A CAP is required for each Audit. The FCA CAP is required to be submitted 15 WD prior to the FCA being conducted. The PCA CAP is required to be submitted 15 WD prior to the PCA being conducted. The TA will provide comments within 5 WD of receiving the CAP. Block 13. The revised CAP must be delivered within 5 WD of TA comment receipt.																					
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43 CDRL CM-010 Configuration Audit Report (CAR)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																								
C. SOW Identifier ISS ASOW		D. Data Category CM		E. Contractor																							
1. Item Number CM-010		2. Title Configuration Audit Report (CAR)		3. Subtitle																							
4. Data Item Number DID CM-010 Configuration Audit Report (CAR)		5. Reference Ann. CA to Vol. 2 (para. 7.5.0-2) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-10) App. 1 To Ann. CA To Vol. 2 (para. 3.3.3.0-12) App. 1 To Ann. CA To Vol. 2 (para. 3.3.4.0-2.0-5) App. 1 To Ann. CA To Vol. 2 (para. 3.3.6.0-2.0-3)		6. Technical Office PMO ISSP CM																							
7. Inspection DD		8. Approval Code R		9. Review Period 10 WD																							
10. Frequency ASREQ																											
11. As of Date		12. Date of First Submission 10 WD upon completion of the applicable Audit		13. Date of Subsequent Submission 5 WD after receipt of TA comments																							
14. Remarks		15. Distribution <table border="1"> <thead> <tr> <th rowspan="2">Addressee</th> <th colspan="3">Copies</th> </tr> <tr> <th>Draft</th> <th>Final</th> <th>Media</th> </tr> </thead> <tbody> <tr> <td>DND/TA</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>DND/TA</td> <td></td> <td>x</td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td>x</td> <td></td> <td>1 SC</td> </tr> <tr> <td>Contracting Authority</td> <td></td> <td>x</td> <td>1 SC 1 HC</td> </tr> </tbody> </table>			Addressee	Copies			Draft	Final	Media	DND/TA	x		1 SC	DND/TA		x	1 SC	Contracting Authority	x		1 SC	Contracting Authority		x	1 SC 1 HC
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44 CDRL DM-001 Technical Data Management Plan (TDMP)

CONTRACT DATA REQUIREMENTS LIST																											
A. Annex Description Annex CC Acquisition CDRLs			B. Contract / RFP Number Wxxxx-09ISSP/A																								
C. SOW Identifier ISS ASOW		D. Data Category DM		E. Contractor																							
1. Item Number DM-001		2. Title Technical Data Management Plan (TDMP)		3. Subtitle																							
4. Data Item Number DID DM-001 Technical Data Management Plan (TDMP)		5. Reference Ann. CA to Vol. 2 (para. 4.6.0-1) Ann. CA to Vol. 2 (para. 5.2.4.0-3)		6. Technical Office PMO ISSP CM																							
7. Inspection DD	8. Approval Code R	9. Review Period 10 WD	10. Frequency ONE/R																								
11. As of Date		12. Date of First Submission See Block 14		13. Date of Subsequent Submission See Block 14																							
14. Remarks Block 12. The draft TDMP must be submitted to the TA 10 WD after the System Qualification Phase kick-off meeting. Block 13. The Contractor must deliver the final version of the TDMP no later than 2 MACA. Further updates (to reflect changes to the project) must be reviewed at a PRM; such proposed updates must be provided to DND at least 10 WD before the PRM where they will be reviewed.		15. Distribution																									
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16. Prepared By PMO ISSP CM		17. Preparation Date June 2011		18. Approved By PM ISSP 19. Approval Date June 2011																							

APPENDIX 2 TO ANNEX CC TO VOLUME 2

DATA ITEMS DESCRIPTION (DID) FOR THE ACQUISITION OF THE INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

RFP - N° de la DP
W8476-112965/B

Amendment No. - N° de la modif.

Buyer ID - Id de l'acheteur
004RA

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

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

Volume 2, Annex CC, Appendix 2

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Revision	Date	Description

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1 PROJECT MANAGEMENT

1.1 DID PM-001 Project Management Plan (PMP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Project Management Plan (PMP)	2 Data Item Number PM-001	
3 Description / Purpose 3.0-1 The PMP describes the Contractor's plan for integrating all management, planning and control activities for the acquisition contract, including the transition and linkages between the System Qualification and Production phases as well as preparing the transition of the in-service support.		
4 Approval Date June 2011	5 OPI Project Management Office (PMO) Integrated Soldier System Project (ISSP) Project Control and Coordination Officer (PCCO)	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Format 10.1.0-1 The PMP must be prepared in the Contractor's format. 10.2 General 10.2.0-1 The PMP must define the management processes, administrative procedures and organizational structure that will be used to manage the Contractor's work. The PMP must be a stand-alone document that provides sufficient detail to allow DND to assess the Contractor's understanding of the work of the project as well as the Contractor's ability to carry out and manage the work of the contract to a successful conclusion. It must allow the reader to understand how the project will be managed without referring to other documents. It is not acceptable to simply reference a document, procedure or standard without providing an overview of the material referenced. 10.3 Content 10.3.0-1 The following paragraphs outline the framework of the PMP. This framework should not limit the Contractor in developing the PMP, which must reflect how the Contractor plans to implement and manage the Contract. The PMP must contain, as a minimum, the following information: 10.3.1 Overview 10.3.1.0-1 Purpose, Background, Scope and Objectives; 10.3.1.0-2 Assumptions, Constraints and Risks; 10.3.1.0-3 Project Deliverables; 10.3.1.0-4 Organization Summary; and 10.3.1.0-5 Schedule Summary. 10.3.2 Organization 10.3.2.0-1 Project Management Organizational Chart, including internal and external organizations		

as they pertain to this contract;

10.3.2.0-2 Roles and Responsibilities, including internal and external organizations;

10.3.2.0-3 Escalating Lines of Communication;

10.3.2.0-4 Description of Project Management Organization type; and

10.3.2.0-5 Detailed resume with relevant experience for each of the activity managers.

10.3.3 Management Processes

10.3.3.0-1 Project Management Approach and Procedures;

10.3.3.0-2 Scope Management, including the development and use of the Work Breakdown Structure (WBS);

10.3.3.0-3 Integration and Control Management;

10.3.3.0-4 Subcontractor Management, including approved and to-be-approved subcontractors along with description of relationship and responsibilities;

10.3.3.0-5 Schedule Management and Control, describing the procedures the Contractor will use to track and maintain the schedule that includes, as a minimum:

10.3.3.0-5.0-1 Processes for tracking tasks against the project schedule to identify slippage;

10.3.3.0-5.0-2 Processes specific to critical path items;

10.3.3.0-5.0-3 Processes for updating and communicating schedule changes; and

10.3.3.0-5.0-4 Processes to assess schedule impact of new tasks.

10.3.3.0-6 Resource Allocation;

10.3.3.0-7 Budget Control;

10.3.3.0-8 Quality Management System;

10.3.3.0-9 Performance Monitoring;

10.3.3.0-10 Progress Reporting;

10.3.3.0-11 Communications Management;

10.3.3.0-12 Problem Identification and Resolution;

10.3.3.0-13 Project Work Tasks/Elements Closing;

10.3.3.0-14 Process Improvement;

10.3.3.0-15 Risk Management, describing how the Contractor will implement Risk Management that will systematically and continuously manage items that are considered to be of a high-risk nature that includes, as a minimum:

10.3.3.0-15.0-1 The methodology for risk identification;

10.3.3.0-15.0-2 The procedures and systems for assessing and monitoring risks;

10.3.3.0-15.0-3 The system for resolving or mitigating risk situations; and

10.3.3.0-15.0-4 The procedure for reporting on current risk status.

10.3.3.0-16 All sectors, areas of responsibilities and disciplines affecting the project (including Environmental Health and Safety (EHS));

10.3.3.0-17 Data Management;

10.3.3.0-18 Change Control Processes; and

10.3.3.0-19 Issue/Action Item Management.

10.3.4 Transition to in-service support

10.3.4.0-1 Internal processes and oversight to ensure the transition from the Production Phase to the Optimized Weapon System Support (OWSS) Contract is executed efficiently; and

10.3.4.0-2 Handover between the Project Manager and the In-Service Support Manager.

1.2 DID PM-002 Quality Assurance Plan (QAP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Quality Assurance Plan (QAP)	2 Data Item Number PM-002	
3 Description / Purpose 3.0-1 The QAP provides Canada with information on the Contractor's quality system and its application as it relates to ISSP. 3.0-2 The QAP provides Canada with an understanding of the Contractor's quality assurance program and it will be used to guide the quality program during the performance of the contract.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The QAP is a subordinate plan of the PMP. 7.0-2 The QAP refers to DID PM-003 , Master Project Schedule (MPS) and Work Breakdown Structure (WBS). 7.0-3 The QAP must conform to the following standards and specifications, as per the requirements below: 7.0-4 ISO 9001:2008 Quality Requirements 7.0-5 ISO/IEC 90003 Software and System Engineering Guidelines for the Application of ISO 9001:2000 to Computer Software		
8 Originator PMO ISSP PCCO	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The QAP must completely describe the Contractor's quality system and how the system will be implemented for the successful completion of the contract. 10.0-2 The QAP must be prepared in the Contractor's format and should contain the following information: 10.0-2.0-1 Title Page; 10.0-2.0-2 Table of Contents; 10.0-2.0-3 Document Control Log; 10.0-2.0-4 Revision Record: 10.0-2.0-4.0-1 The document must provide a change history that identifies each change made, the date of issue, the version/revision incorporating the change and the title and rationale for the change. 10.0-2.0-5 Plan Subject Matter; 10.0-2.0-6 Notes; and 10.0-2.0-7 Appendices. 10.0-3 The QAP must provide details on the methods and organization with which the Contractor will implement an effective QAP. The plan must identify all procedures, processes and associated planning data necessary for the attainment of the required QAP. 10.0-4 The QAP subject matter must be broken down into the following sections: 10.0-4.0-1 <u>Section I - General</u> . This section of the plan must define the scope, purpose and application of the QAP, related documents, and mechanisms to amend the plan. 10.0-4.0-2 <u>Section II - Elements In Place</u> . The section must describe what elements and/or		

resources of the Quality Assurance (QA) program are already in place, and what is additionally required. It should include a clear demonstration that the Contractor's QAP and System are in conformity with the ISO 9001:2008 Quality Requirements. In the event that the Contractor's Quality Management System is not in full conformity with the ISO 9001:2008 Quality Requirements, the QAP must include a requirements traceability matrix cross referencing the Contractor's QAP elements to the applicable elements of the ISO 9001:2008 Quality Requirements. The QAP section describing Software Quality Management must conform to ISO/IEC 90003 Software and System Engineering Guidelines for the Application of ISO 9001:2000 to Computer Software;

10.0-4.0-3 Section III - Major Subcontractors. The plan must identify the major subcontractors who are subject to the application of the Contractor's quality system. The plan should include a description of the subcontractor's area of responsibility and to whom they are accountable;

10.0-4.0-4 Section IV - Management/Organization. This section must describe the Contractor's QA organization, subcontractor's QA organization, management procedures, interfaces and reporting/tracking systems established to control QA activities. The plan should identify the Contractor's QA Manager and support personnel by name in a QA Organizational Chart.

10.0-4.0-5 Section V - WBS/Schedule of Activities and Milestones. This section must include summary tasks and milestone events extracted from the MPS and WBS (**DID PM-003**) to show the time-phased workflow of the QA related tasks, events, and deliverables.

10.0-4.0-6 Section VI - Relationships. This section must describe the following relationships:

10.0-4.0-6.0-1 Between the various Contractor's QA elements and QA Manager;

10.0-4.0-6.0-2 Between the Contractor's QA Manager and the Contractor's Project Management, Systems Engineering, and Subcontractors programs; and

10.0-4.0-6.0-3 Between the Contractor's and Department of National Defence (DND) QA Organization.

10.0-4.0-7 Section VII - Meetings and Reviews. The requirements for QA meetings throughout the conduct of the project must be outlined in the QAP.

10.0-4.0-8 Section VIII - Production acceptance. This section must detail the process that will be implemented in order to carry out the First Article Inspection (FAI), sampling and inspection methods of the product on each Integrated Soldier System (ISS) System element and on the ISS System as a whole before delivery. It must describe or reference the procedures that will be used for performing FAI and sampling inspection. It must provide the details of the functional and performance checks that the Contractor will perform during the pre-production and production phase. The production acceptance method and procedures may have to be amended by the Contractor order to address any quality issues identified by the Technical Authority (TA) or DND QA Representative (QAR) during the contract.

10.0-4.0-9 Section IX - Non-Conforming product - This section must detail the process that will be implemented in order to withhold non-conforming product, its disposition, and to take the corrective action necessary.

1.3 DID PM-003 Master Project Schedule (MPS) and Work Breakdown Structure (WBS)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Master Project Schedule (MPS) and Work Breakdown Structure (WBS)	2 Data Item Number PM-003	
3 Description / Purpose 3.0-1 The WBS details all activities covering the complete duration of the Contract (System Qualification and Production phases) in predefined work packages. The MPS details the sequencing, activity duration, dependencies, schedule of all events against a calendar time base, milestones and all WBS activities for the requirements of the Contract. The MPS and WBS updates further provide Canada with the visibility of accomplishments to date.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The MPS must depict the entire scope of the project, including milestones, major events and major deliverables for the duration of the contract. The MPS must detail the schedule of all events against a calendar time base, milestones and all WBS activities that must occur to meet the objectives and requirements of the contract. 10.0-2 The schedule requirements are as follows: 10.0-2.0-1 A time scaled bar-chart showing the WBS elements/codes and work activities along the vertical axis and the time scale along the horizontal axis. Each WBS element and work activity must have an identification code shown on the vertical axis to the left of the description; 10.0-2.0-2 The time-phased sequence of activities and events, and their relationship to the WBS. Activities to include as a minimum: 10.0-2.0-2.0-1 Events, activities, deliverable items and milestones, with: 10.0-2.0-2.0-1.0-1 The scheduled start/finish dates; total duration and total float; 10.0-2.0-2.0-1.0-2 Sequencing with applicable predecessor/successors; and 10.0-2.0-2.0-1.0-3 Progress or percent complete. 10.0-2.0-2.0-2 Critical Path(s); 10.0-2.0-2.0-3 The baseline and current information for each detailed activity to a tier three level for all project activities when possible; 10.0-2.0-2.0-4 The capability to roll up activities to a summary level; 10.0-2.0-2.0-5 Proposed payment milestones; 10.0-2.0-2.0-6 Identify the person/section or organization responsible for the work; 10.0-2.0-2.0-7 Delivery of associated documentation for review, approval and final delivery; and 10.0-2.0-2.0-8 Project dates for any major accomplishments not already covered as milestones. 10.0-2.0-3 During the System Qualification Phase of the contract, all reference to the work to be performed during the Production Phase of the contract will be referred to in time as "x number		

of weeks after a Contract Amendment authorizing the Production Phase". It is suggested that a period of 3 months between the completion of the System Qualification Phase and the Issuance by Canada of the Letter of Authorisation be factored in.

10.0-2.0-4 The MPS must include, as required, all progress review meetings, design review meetings, Contractor demonstrations, testing, inspections, deliverable preparation time frames, installation activities, training activities as well as acceptance and hand over activities.

10.0-2.0-5 The MPS must clearly portray the inter-dependencies among all tasks, events, activities and deliverables. The requirements for delivery or preparation of Government Furnished Equipment (GFE) and Government Furnished Information (GFI), including equipment and facilities, must be clearly indicated.

10.0-2.0-6 The MPS status reporting requirements must be as follows:

10.0-2.0-6.0-1 The "as of date" must be indicated by a vertical line extending from the appropriate point of the time scale and clearly labelled in both written form and graphically on any charts (Gantt etc.);

10.0-2.0-6.0-2 Progress indications and planned or actual schedule slippage/accelerations of the current schedule must be clearly shown in relation to the baseline schedule; and

10.0-2.0-6.0-3 Updates to the MPS must clearly indicate actual progress to a specific date against a schedule baseline. Any changes in activity duration that impact on the baseline completion date for the project must be agreed to between the contractor and Canada.

10.0-2.0-7 The MPS must also include the associated network diagram (activity-on-node) showing network logic, mandatory, discretionary and external activity dependencies.

10.0-2.0-8 The MPS must include a detailed legend depicting the meaning of all symbols, abbreviations and colours utilized; and

10.0-2.0-9 The MPS must include a listing of constraints and assumptions used in order to develop the MPS activity duration, activity dependencies and associated network logic.

1.4 DID PM-004 Progress Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Progress Report		2 Data Item Number PM-004
3 Description / Purpose 3.0-1 The Progress Report summarizes the Contractor's progress in relation to the project milestones, schedules, plans and deliverable end items. It provides the status of the work achieved versus that planned, highlights problem areas and the corrective actions being taken to resolve the issues.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 The Progress Report must be prepared in the Contractor's format and must include the following information: 10.0-1.0-1 Executive summary covering significant elements of the report; 10.0-1.0-2 Description of progress on the MPS with concise explanation of any discrepancies; 10.0-1.0-3 Risk Status Update: a. Identification of any new risks; b. update on medium and high risks; and c. update on risk priority listing; 10.0-1.0-4 Progress against milestones, expected date of completion of near milestones, problem areas and work around plans where required; 10.0-1.0-5 Production status against each major deliverable, the time phase of significant stages of production and the time phase of testing, verification, demonstration and acceptance activities requiring DND participation; 10.0-1.0-6 Current status of all technical, management and logistical problems, actions take or planed to resolve them, and their impact; 10.0-1.0-7 Status of data deliverables as called up in the CDRL; 10.0-1.0-8 Status of any Contract Change Proposals (CCP), Engineering Change Proposals (ECPs), Request For Deviation (RFDs) and Requests For Waiver (RFDs); 10.0-1.0-9 Outstanding action items as well as new problems/issues and any other areas of concern, interest or importance; 10.0-1.0-10 Overall financial review; and 10.0-1.0-11 Planned activities for the following reporting period.		

1.5 DID PM-005 Meeting Agenda

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Meeting Agenda		2 Data Item Number PM-005
3 Description / Purpose 3.0-1 Meeting Agendas provide an outline of the purpose, objectives and areas to be formally discussed at meetings.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 This DID integrates with DID PM-006 , Meeting Minutes.		
8 Originator PMO ISSP PCCO		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 Meeting Agendas must be prepared in the Contractor's format. 10.0-2 Meeting Agendas must include, as a minimum, the following: 10.1 General 10.1.0-1 Meeting identification, number, scope, purpose and objectives; 10.1.0-2 Meeting venue, date, time, location, expected attendees and Level of Security; 10.2 Discussion Items 10.2.0-1 Opening remarks; 10.2.0-2 Agenda review; 10.2.0-3 Review of previous Minutes; 10.2.0-4 If the purpose of the meeting is a Project Review Meeting (PRM) the following agenda items must be included: 10.2.0-4.0-1 Review of Progress Report; 10.2.0-4.0-2 Review of Project Schedule - Status of current activities (in-progress & completed) - new duration estimates - impact on critical dates and milestones. 10.2.0-4.0-3 Review of Issue-Action Item Log (IAIL); 10.2.0-4.0-4 Review of Significant Risks; 10.2.0-5 If the purpose of the meeting is other than a PRM the following agenda items must be included: 10.2.0-5.0-1 Review of progress since last meeting; 10.2.0-5.0-2 Review of items by area of responsibility; Engineering and Technical, Integrated Logistics Support (ILS), EHS, Other; 10.2.0-5.0-3 Review of IAIL items pertinent to area of responsibility; 10.2.0-6 Open Discussion Items; 10.2.0-7 Next Meeting Date and Venue; and 10.2.0-8 Closing Remarks. 10.3 Special Requirements 10.3.0-1 This section must detail the requirement for visit clearances, security clearances, security arrangements, facilities, and any other pertinent information such as specific instruction on the timely distribution of any Canada/Contractor documentation or presentation material to be presented at the meeting.		

1.6 DID PM-006 Meeting Minutes

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Meeting Minutes		2 Data Item Number PM-006
3 Description / Purpose 3.0-1 Meeting Minutes record significant discussion and documents decisions taken at meetings.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 This DID integrates with DID PM-005 , Meeting Agenda		
8 Originator PMO ISSP PCCO		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 Meeting Minutes must be prepared in the Contractor's format. The format of the first submission will be subject to approval by Canada, and once approved, must become the standard for future submissions. 10.0-2 Meeting Minutes must include, as a minimum, the following: 10.0-2.0-1 Meeting identification, number, scope, purpose and objectives; 10.0-2.0-2 List of all attendees detailing title, responsibility and contact information; 10.0-2.0-3 Discussion Items - Including a summary record of proceedings and discussions, all agenda items must be covered; 10.0-2.0-4 Record of decisions taken, issue/Action Item (AI) responsibility and target date of completion of issues/AIs; 10.0-2.0-5 Proposed date, time and location of next meeting; 10.0-2.0-6 Signature blocks for both Contractor and Canada responsible representatives; and 10.0-2.0-7 Copies of all data and information tabled at the meeting. 10.0-3 Meeting Minutes must include a disclaimer that the minutes are a record of discussions only and do not constitute approval for contractual changes.		

1.7 DID PM-007 Issue-Action Item Log (IAIL)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Issue-Action Item Log (IAIL)	2 Data Item Number PM-007	
3 Description / Purpose 3.0-1 The IAIL consists of itemized, dated and up-to-date records of all Contractor and Canada issue items with appropriate action/decisions detailed.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The IAIL must be prepared in the Contractor's format. The format of the first submission will be subject to approval by Canada, and once approved, must become the standard. 10.0-2 The IAIL must contain the itemized records of issue/action items and must include, as a minimum: 10.0-2.0-1 Date opened; 10.0-2.0-2 Identification number; 10.0-2.0-3 Issue/AI description; 10.0-2.0-4 Meeting references to documents, minutes, reports or activity; 10.0-2.0-5 Issue/AI description; 10.0-2.0-6 Issue/AI raised by; 10.0-2.0-7 Due date for completion and actual date closed; 10.0-2.0-8 Issue/AI Owner; 10.0-2.0-9 Action Required/Decision; and 10.0-2.0-10 Status (Open or Closed).		

1.8 DID PM-008 Environmental, Health and Safety Assessment (EHSA)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Environmental, Health and Safety Assessment (EHSA)	2 Data Item Number PM-008	
3 Description / Purpose 3.0-1 The due diligence EHSA (Environmental Assessment) identifies and documents the environmental health and safety impact of the project, system, equipment, material and/or service provided by the Contractor throughout the various life cycle phases (design, engineering and manufacturing, test and evaluation, production and delivery, operation and maintenance, and demilitarization and disposal) and the mitigation measures required to reduce or eliminate significant environmental safety and health risks.		
4 Approval Date January 2009	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The EHSA must conform to the following standards and specifications, as per the requirements below: 7.0-1.0-1 A-EN-007-000/FP-001 DND Environmental Assessment Manual 7.0-1.0-2 Canadian Environmental Protection Act (CEPA), Schedule 1 < http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=24374285-1&offset=14&toc=show#1 > 7.0-1.0-3 Accelerated Reduction/Elimination of Toxics (ARET) < http://admmat.mil.ca/dglepm/dleps/documents/DLEPS6_ARETSubstancesList_e.pdf > 7.0-1.0-4 National Pollutant Release Inventory (NPRI) < http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm > 7.0-1.0-5 List of Challenge Substances < http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list_eng.html >		
8 Originator PMO ISSP PCCO	9 Applicable Forms Figure 1 - Figure 5 to Annex CC, Appendix 2	
10 Preparation Instructions 10.1 Format 10.1.0-1 The EHSA must be in the Contractor's format and as further described herein, conformant to Electronic Information Environment (EIE) requirements. 10.2 Content 10.2.0-1 The EHSA must follow the principles and guidance contained within the DND Environmental Assessment Manual (A-EN-007-000/FP-001) but present the required information in the manner identified within this DID. The EHSA must identify and document the environmental, health and safety impact of the project, system, equipment, materiel and/or services provided by the Contractor throughout the life cycle, and the mitigation measures required to reduce or eliminate significant environmental, health and safety risks. The EHSA must address the above points in detail through the following parts and sections: 10.2.1 PART I - Registration Information 10.2.1.0-1 Title - The title must identify the primary system being reported upon (ISS) and a brief paragraph is to be located under the title that provides the description, purpose and primary role of		

the system being provided.

10.2.1.0-2 Base/Unit - This section must identify the applicable site specific affected by the provided equipment, materiel and/or support services

10.2.1.0-3 Registration -This section must state registration identifier of the EHSA - For ISSP, the registration number is DGLEPM 1484.

10.2.1.0-4 Project Location - This section must identify the physical locations affected by the provided equipment, materiel and/or support services, and/or as specified within the contract requirements.

10.2.1.0-5 Project Description Summary - this section must contain a brief description of the system, equipment, material and/or services being provided under following sub paragraphs:

10.2.1.0-5.0-1 General Description of the System. The section shall provide a description of the role, purpose, concept of operation, design characteristics, and performance capabilities of the system, throughout its entire life span. The major/significant construction materials, products and activities that contribute to the EHS impact shall be identified; and

10.2.1.0-5.0-2 Major Sub System. This section shall identify the major sub components of the system and provide a description of their purpose, function and/or role including any relevant steps or phases, such as operation and maintenance. The major/significant construction materials, products and activities that contribute to their EHS impact shall be identified.

10.2.1.0-6 Assessment Contact - this paragraph must contain the name, title, company name, phone number, and email address of the author of the report.

10.2.2 PART II - Environmental, Health and Safety Impact Assessment

10.2.2.0-1 Design - This section shall provide an overview on the origin of the project, system, equipment, materiel and/or service or activity being assessed and its design impact on environmental health and safety. Alternatives to the activities that were considered are to be included within this section, including reasons for non-adoption.

10.2.2.0-2 Major Sub System Assessment - This section shall provide, in tabular format, the following information (Figure 1 illustrates an example of the tabular format):

10.2.2.0-2.0-1 A listing of the EHS aspects (a sample list of possible aspects can be found at Enclosure A) and their hazards associated with each major sub system and component for each life cycle phase (engineering and manufacture, test and evaluation, production and delivery, operation and maintenance, demilitarization and disposal);

10.2.2.0-2.0-2 Clear identification of whether each major component and its consumables are a source of any of the following EHS hazards:

10.2.2.0-2.0-2.0-1 Ionising radiation (location and exposure levels) (for each activity the radiation hazard must be considered in both normal and non-normal situations);

10.2.2.0-2.0-2.0-2 Electromagnetic radiation (location and frequencies);

10.2.2.0-2.0-2.0-3 Noise (location and intensity);

10.2.2.0-2.0-2.0-4 Vibration (location and frequency);

10.2.2.0-2.0-2.0-5 Hazardous gases;

10.2.2.0-2.0-2.0-6 Hazardous liquids;

10.2.2.0-2.0-2.0-7 Hazardous solids (source, concentration or quantity); and

10.2.2.0-2.0-2.0-8 Other - any other hazard associated with the specific equipment (e.g., CEPA Schedule 1, heavy metals, asbestos, ARET substances, NPRI substances, and Challenge Substances).

10.2.2.0-2.0-3 The identification of the substance(s) of concern with its chemical abstract

number (CAS #), and the identification of its control listing (e.g. NPRI, ARET, Challenge, CEPA Schedule 1);

10.2.2.0-2.0-4 The significance (amount or level) of the identified hazard, including compliance to regulatory requirements;

10.2.2.0-2.0-5 Justification for the use of all regulated products and those containing substances identified within the Accelerated Reduction/Elimination of Toxics (ARET,

<http://admmat.mil.ca/dglepm/dleps/documents/DLEPS6_ARETSubstancesList_e.pdf>),

National Pollutant Release Inventory (NPRI, http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm)

and/or List of Challenge Substances (http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list_eng.html), and also for products containing heavy metals (heavy metals are those

identified within Schedule 1 of the Canadian Environmental Protection Act (CEPA)

<<http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=24374285-1&offset=14&toc=show#1>>);

10.2.2.0-2.0-6 The associated potential environmental, health and safety impacts from the identified hazards;

10.2.2.0-2.0-7 The mitigation measures or preventive measures necessary to reduce or eliminate the identified impacts or risks;

10.2.2.0-2.0-8 Compliance monitoring requirements (compliance monitoring verifies that mitigation measures were implemented);

10.2.2.0-2.0-9 Follow-Up plans (follow-ups plans verify the accuracy of an Environmental Assessment (EA) and/or determines the effectiveness of any mitigation measure). Identify the type and nature of any required follow-up plans; and

10.2.2.0-2.0-10 Reference to the applicable Material Safety Data Sheets (MSDS) for each identified hazardous substance.

10.2.2.0-3 Table of Hazardous Products. This section shall contain a list of all products, which are subject to the Hazardous Products Act and require a MSDS, and were identified in paragraph

10.2.2.0-2.0-2. The list shall include the product description/name, the product part number, the manufacturer name and address, the manufacturer's National Supply Code for Manufacturers (NSCM)/ Commercial and Government Entity (CAGE) Code, NATO Stock Number (NSN - if applicable) and unique Defence Resource Management Information System (DRMIS) identifier (if it exists), all Workplace Hazardous Materials Information System (WHMIS) Class(es) (eg A [Class A-Compressed Gas], B5 [Class B Flammable and Combustible Material, Division 5: Flammable Aerosol]), the full Transportation of Dangerous Goods Class (eg 2.3 [Class 2 Compressed Gases, Division 3: Poisonous Gases]), and the cross-reference to Figure 5 MSDS identifier. MSDS of these products shall be appended to the EHSA within Figure 5 and clearly marked with their cross-linked identifier at the top right of the page. An example of this listing is provided at Figure 2.

10.2.2.0-4 Mercury. This section shall contain a list of information pertaining to all occurrences of mercury associated with the major sub-systems and components, or project activity. The listing shall contain the following information in tabular format (Figure 3 illustrates an example of the tabular format):

10.2.2.0-4.0-1 Equipment NSN (for equipment containing mercury);

10.2.2.0-4.0-2 Equipment Description;

10.2.2.0-4.0-3 NSN or DRMIS unique identifier of the item containing mercury (if it exists);

10.2.2.0-4.0-4 Manufacturer of mercury-containing item;

10.2.2.0-4.0-5 Date of manufacture of the mercury-containing item;

10.2.2.0-4.0-6 Manufacturer part number of mercury-containing item;
10.2.2.0-4.0-7 NSCM/CAGE Code of items containing mercury;
10.2.2.0-4.0-8 Description of mercury-containing item;
10.2.2.0-4.0-9 The form of mercury (e.g. liquid, vapour, amalgam, metal halide);
10.2.2.0-4.0-10 Quantity of mercury (kg mass);
10.2.2.0-4.0-11 Volume of mercury (L) and its concentration in ppm (either 10.2.2.0-4.0-10 or 10.2.2.0-4.0-11 is required, however, both can be provided);
10.2.2.0-4.0-12 The location of the mercury-containing item(s);
10.2.2.0-4.0-13 Quantity of mercury containing item per reported equipment; and
10.2.2.0-4.0-14 Total Quantity of mercury within the reported equipment (for kg mass and volume/concentration).

10.2.2.0-5 Consultation

10.2.2.0-5.0-1 Internal. This section must list all applicable internal consultations performed in order to produce the EHSA; and

10.2.2.0-5.0-2 External. This section must list all applicable external consultation performed in order to produce the EHSA.

10.2.2.0-6 Documentation

10.2.2.0-6.0-1 Regulations and Policies. This section must list all applicable Canadian regulations and policies; and

10.2.2.0-6.0-2 Other references. This section must list the references and material used to produce the EHSA.

10.2.2.0-7 Site Visits - This section must comment on the reasons and results of visits conducted; otherwise it must be titled and identified as "No site visits required".

10.2.2.0-8 Existing Environment - This section must identify the boundaries of the environment considered and provide an appropriate description of the environment(s) affected.

10.2.2.0-9 Environmental Effects - This section must contain a completed matrix for each of the applicable activities (and their associated sub-activities) involving the system throughout the life cycle phases (design, engineering and manufacturing, test and evaluation, production and delivery, operation and maintenance, demilitarization and disposal). For components with Ionizing Radiation Hazard, each activity must be considered in both normal and non-normal situations.

10.2.2.0-10 To identify potential environmental, health and safety effects, each matrix must be completed as follows:

10.2.2.0-10.0-1 In the left-hand column, list the system components/activities. Across the top of the matrix, list the Valued Ecosystem Components (VECs) relevant to the study area.

10.2.2.0-10.0-2 Examine each place where a component intersects with an environmental component for each life cycle and determine whether there is a potential significant effect.

Figure 4 illustrates a sample matrix. The VECs on the matrix are only a guide to typical environmental components. Adapt the matrix as needed in accordance with the site specific VECs.

10.2.2.0-11 Summary of Hazards and Impacts - This section shall present the written results on the investigations of the impact of the environmental, health and safety aspects/hazards throughout the different life cycle phases. Each sub-system or activity shall be addressed for their environmental impact or risks as identified in Figure 1 and Figure 4. All regulated substances/activities shall be assessed for compliance and problem areas identified with mitigations measures. Each sub-system or activity shall be addressed under the following headings (sub-titles may be used for each Life

Cycle Phase, Sub-System/Activity):

10.2.2.0-11.0-1 Description of Subsystem/Component/Activity: A description of the subsystem, equipment, component, material, service or activity and its interaction with the environment;

10.2.2.0-11.0-2 EHS Aspect: Identify the EHS Aspects (Enclosure A refers) associated with the Subsystem/Component/Activity throughout all life cycle phases (Figure 1 refers).

10.2.2.0-11.0-3 VECs Affected: Identify the VECs associated with the Subsystem/Component/Activity throughout all life cycle phases (Figure 4 refers)

10.2.2.0-11.0-4 Component/Activity Impact: Prediction of the environmental effects from each interaction and its impact, as well as any impacts that will require mitigation measures;

10.2.2.0-11.0-5 Mitigations Measures: Identify the appropriate mitigation measures required. Mitigation is the elimination, reduction, or control of adverse environmental effects, including restitution for any damage to the environment through replacement, restoration, compensation, or any other means.

10.2.2.0-11.0-6 Significance: Assess/Determine the environmental impact with mitigation measures in place. The EA must determine whether the environmental affects are adverse, likely, and are they significant.

10.2.2.0-11.0-7 Compliance Monitoring: Identify what compliance monitoring is required and the responsible person/office to conduct the monitoring.

10.2.2.0-11.0-8 Follow-Up Plans: Predict any cumulative/residual effects and the need to follow-up. Identify the follow-up plans with the reasons for them.

10.2.3 PART III - Conclusion

10.2.3.0-1 This section shall summarize the main findings of the EHSA and identify the major mitigation measures taken or required to assure sustainable development, and identify the major follow-up measures necessary.

10.2.4 Figures and Enclosures

10.2.4.0-1 Figure 1 - Major Subsystem Assessment Table

10.2.4.0-2 Figure 2 - Table of Hazardous Products

10.2.4.0-3 Figure 3 - Items Containing Mercury

10.2.4.0-4 Figure 4 - Environmental Effects Matrix

10.2.4.0-5 Figure 5 - MSDS (Figure 5 shall contain the MSDS for all hazardous products identified in section 10.2.2.0-2.0-2 and 10.2.2.0-3.)

10.2.4.0-6 Enclosure A - Listing of Possible EHS Aspects

10.2.5 For all figures, see section 5, Figures.

10.2.6 Enclosure A - Listing of Possible EHS Aspects

10.2.6.0-1 An EHS aspect is defined as an activity, product or service that can interact with the environment, human health or safety. The list provided herein is not inclusive, and is only an example of what might be considered when preparing an EHSA. Aspects and their risk are those associated with the activity, product or service being specifically addressed. Regulations or standards may, or may not, apply to the specific EHS aspect.

10.2.6.0-2 1. ARET substances

10.2.6.0-3 2. Adhesives and Sealants

10.2.6.0-4 3. Air Conditioning Agents / Refrigerants

10.2.6.0-5 4. Asbestos

10.2.6.0-6 5. Batteries

10.2.6.0-7	6.	Bulk and Weight of Components
10.2.6.0-8	7.	CEPA Schedule 1 Substances
10.2.6.0-9	8.	Challenge to Industry Substances
10.2.6.0-10	9.	Cleaning and cleaners
10.2.6.0-11	10.	Coatings/Painting
10.2.6.0-12	11.	Compressed Gases/Fluids
10.2.6.0-13	12.	Contamination / Decontamination
10.2.6.0-14	13.	Demilitarization and Disposal
10.2.6.0-15	14.	Disposal
10.2.6.0-16	15.	Electrical and Power Sources
10.2.6.0-17	16.	Emission Hazards - Enclosed Spaces
10.2.6.0-18	17.	Equipment Condition
10.2.6.0-19	18.	Exhaust Emissions
10.2.6.0-20	19.	Fire Extinguishing Systems
10.2.6.0-21	20.	Firing Damage and Damage from operations
10.2.6.0-22	21.	Floorboards and Hull Plates
10.2.6.0-23	22.	Fuel Consumption
10.2.6.0-24	23.	Fuels, Fluids and Lubricants
10.2.6.0-25	24.	Hazardous consumables
10.2.6.0-26	25.	Heavy Metals
10.2.6.0-27	26.	High Temperature Hazards
10.2.6.0-28	27.	Ionizing Radiation - Normal and Abnormal
10.2.6.0-29	28.	Iron / Aluminum Metal Work (Thermite)
10.2.6.0-30	29.	Lasers
10.2.6.0-31	30.	Materials of environmental concern
10.2.6.0-32	31.	Mercury Sources
10.2.6.0-33	32.	Metal Work
10.2.6.0-34	33.	Modifications
10.2.6.0-35	34.	NPRI substances
10.2.6.0-36	35.	Noise, Vibrations and Ground Pressure
10.2.6.0-37	36.	Non-Ionizing Radiation - Lasers, UV, Radio, Radar
10.2.6.0-38	37.	Operator Safety
10.2.6.0-39	38.	Ozone Depleting Substances
10.2.6.0-40	39.	Precious Metals
10.2.6.0-41	40.	Polychlorinated Biphenyls
10.2.6.0-42	41.	Radars
10.2.6.0-43	42.	Recycling and Reusing
10.2.6.0-44	43.	Regulated Activity/Material/Substance
10.2.6.0-45	44.	Rubbers, Plastics, Polymers and Composites
10.2.6.0-46	45.	Shielding
10.2.6.0-47	46.	Spills and Spill Reporting
10.2.6.0-48	47.	Storage - Fuels, Fluids and Lubricants
10.2.6.0-49	48.	Tires
10.2.6.0-50	49.	Wastes - Solids, Liquids and Gases
10.2.6.0-51	50.	Wastes - Hazardous Solids, Liquids and Gases

1.9 DID PM-009 Intellectual Property (IP) Lists

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Intellectual Property (IP) Lists	2 Data Item Number PM-009	
3 Description / Purpose 3.0-1 The IP Lists provide a complete list of all intellectual property, both Background and Foreground IP, used by the Contractor and Subcontractors for the design, development and manufacture of the ISSP. The lists also include any Background IP related to the ISSP, which the Contractor does not own and which the Contractor cannot provide access to Canada.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The IP Lists must be prepared in Contractor format. 10.0-2 The IP Lists must list Background and Foreground IP separately. 10.0-3 The IP Lists must include the following information for Foreground IP: 10.0-3.0-1 Document Number; 10.0-3.0-2 Revision Level; 10.0-3.0-3 Document Title; 10.0-3.0-4 IP Registration Number if applicable (e.g. patent number); 10.0-3.0-5 Date of Issue; 10.0-3.0-6 Originator (Company Name and Address); 10.0-3.0-7 Current Owner (if different from Originator); and 10.0-3.0-8 Licensed rights to DND, if applicable. 10.0-4 The IP Lists must include the following information for Background IP that the Contractor can provide access to: 10.0-4.0-1 Document Number; 10.0-4.0-2 Revision Level; 10.0-4.0-3 Document Title; 10.0-4.0-4 IP Registration Number if applicable; 10.0-4.0-5 Date of Issue; 10.0-4.0-6 Originator (Company Name and Address); 10.0-4.0-7 Current Owner (if different from Originator); and 10.0-4.0-8 Licensed rights to DND, if applicable. 10.0-5 The IP Lists must include that Background IP related to the ISSP System that the Contractor does not own and cannot provide Canada access to. For any such Background IP the following information is required: 10.0-5.0-1 Document Number (if available/releasable); 10.0-5.0-2 Revision Level (if available/releasable); 10.0-5.0-3 Document Title (if available/releasable);		

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10.0-5.0-4 IP Registration Number if applicable;
10.0-5.0-5 Date of Issue (if available/releasable);
10.0-5.0-6 Originator (Company Name and Address); and
10.0-5.0-7 Current Owner (if different from Originator).
10.0-6 A brief description of the Background IP must be provided for those items where the requested information at 10.0-5 is not provided.

1.10 DID PM-010 Government Property Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Government Property Report		2 Data Item Number PM-010
3 Description / Purpose 3.0-1 The Government Property Report provides the status of GFE and GFI.		
4 Approval Date June 2011	5 OPI PMO ISSP PCCO	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP PCCO		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 The Government Property Report must be prepared in Contractor format. 10.0-2 The report must provide an inventory of GFE and GFI. 10.0-3 The report must include the following information for Government Property in the Contractor's possession: 10.0-3.0-1 For each item of GFE: 10.0-3.0-1.0-1 GFE item number; 10.0-3.0-1.0-2 The Contractor's assigned serial number (if applicable); 10.0-3.0-1.0-3 A narrative description of the item; 10.0-3.0-1.0-4 Manufacturer's Part Number / Manufacturer's Reference Number; 10.0-3.0-1.0-5 NSCM; 10.0-3.0-1.0-6 NSN; 10.0-3.0-1.0-7 Nomenclature; 10.0-3.0-1.0-8 The estimated value of the item; 10.0-3.0-1.0-9 Location of the item; 10.0-3.0-1.0-10 The status and condition of the item; and 10.0-3.0-1.0-11 The expected date of the next required re-calibration or overhaul (if required). 10.0-3.0-2 For each item of GFI: 10.0-3.0-2.0-1 GFI item number; and 10.0-3.0-2.0-2 A narrative description of the item. 10.0-4 The report must provide a listing of any shortages in the supply of Government Property. The listing must include Government Property type and item number, quantity short or overdue and due date.		

2 SYSTEM ENGINEERING

2.1 DID SE-001 System Engineering Management Plan (SEMP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title System Engineering Management Plan (SEMP)	2 Data Item Number SE-001	
3 Description / Purpose 3.0-1 The SEMP describes the Contractor's Engineering policies, plans and processes for scheduling, planning, organizing, directing, conducting, controlling and coordinating all Engineering effort under the contract and sets forth the Contractor's Engineering Program.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The SEMP is a subordinate plan of the PMP. 7.0-2 The Configuration Management (CM) Program documented in the CM Plan (CMP) supports the activities described in the SEMP. 7.0-3 The Quality of the process and outcomes resulting from performing the activities described in the SEMP must be assured by the processes described in the QAP. 7.0-4 The Technical Data Management Plan (TDMP) is a supporting plan to the SEMP. It describes the process that is to be used to manage the documentation resulting from performing the engineering work. 7.0-5 The Verification and Qualification Plan (VQP) is a subordinate plan to the SEMP which establishes the process by which the Contractor verifies the Work and Qualifies the System and its System Elements. 7.0-6 The System Acceptance Test Plan (SATP) is a subordinate plan to the SEMP. 7.0-7 The SEMP conforms to ISO/IEC 15289, references: 7.4, 10.18, 10.20, 10.79.		
8 Originator PMO ISSP Chief Engineer	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Source documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor's own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The SEMP must conform to the requirements for the generic content guidelines for plans, section 7.4 of ISO/IEC 15289. 10.3.0-2 The SEMP must conform with the requirements of ISO/IEC 15289 sections 10.18, 10.20, 10.79 in as tailored to meet the requirements of the SOW. 10.3.0-3 The SEMP must contain the following information, as it applies to Engineering: 10.3.0-3.0-1 Organisation 10.3.0-3.0-2 Roles and Responsibilities 10.3.0-3.0-3 Engineering Management processes 10.3.0-3.0-4 Engineering Processes		

10.3.0-3.0-5 Review process

10.4 Specific Content

10.4.1 Organisation

10.4.1.0-1 The SEMP must describe the Contractor's engineering organisation and that of any integral sub-contractors. The SEMP must clearly describe the relationship between the contractor and the Engineering organisations of any companies that the contractor may be teamed or partnered with.

10.4.2 Roles and Responsibilities

10.4.2.0-1 The SEMP must describe the roles and responsibilities of all groups in the engineering process and the relationship between the Contractor and sub-contractors. The SEMP must detail the Engineering Section's internal operating relationships within the company including integration with the overall Project Management Organization, and the external operating relationships with subcontractors, for the Contract.

10.4.3 Engineering Management

10.4.3.0-1 The SEMP must describe the contractor's tools and processes for managing the engineering work to ensure the engineering work is conducted in accordance with the plan.

10.4.4 Engineering Processes

10.4.4.0-1 The SEMP must describe how the Contractor will perform the activities (process descriptions) for the Engineering Work requirements specified in the SOW. Specifically the SEMP must define the processes and standards to be used for each of the engineering service areas of the SOW:

- 10.4.4.0-1.0-1 Systems Engineering;
- 10.4.4.0-1.0-2 Human Factors Engineering (HFE);
- 10.4.4.0-1.0-3 Hardware Engineering;
- 10.4.4.0-1.0-4 Software Engineering;
- 10.4.4.0-1.0-5 Speciality Engineering, including Testing, Reliability and Maintainability (RAM), Electromagnetic Compatibility (EMC), and Security; and
- 10.4.4.0-1.0-6 Safety.

10.4.4.1 RAM Program

10.4.4.1.0-1 The SEMP must describe the Contractor's RAM Program for ISS. The RAM process must describe the activities to achieve the ISS Reliability, Maintainability, Built-In-Test (BIT) and Service Life performance requirements specified in the TPS (Annex CB).

10.4.4.1.0-2 The RAM Program must cover:

- 10.4.4.1.0-2.0-1 hardware, software and firmware.
- 10.4.4.1.0-2.0-2 the full system life cycle

10.4.4.1.0-3 The RAM Program must identify any special RAM risks or issues associated with the contractor's solution, and describe the planned mitigation action.

10.4.4.1.0-4 The RAM process description must provide the following information for each activity:

- 10.4.4.1.0-4.0-1 describe the specific objective of the activity and rationale for selection;
- 10.4.4.1.0-4.0-2 describe how the activity will be conducted;
- 10.4.4.1.0-4.0-3 identify the specific product or outcome expected from the activity;
- 10.4.4.1.0-4.0-4 show how the activity fits into the overall program (i.e., schedule and dependencies); and
- 10.4.4.1.0-4.0-5 identify any standards (commercial, military and/or company) that will guide or

govern the activity.

10.4.4.1.0-5 The RAM Program must also describe:

10.4.4.1.0-5.0-1 how the selected RAM activities will be integrated into the product design and manufacturing processes; and

10.4.4.1.0-5.0-2 how the results of the RAM activities will be used to support other activities, such as logistics planning, supportability analysis, safety analysis, etc.

10.4.4.1.0-5.0-3 For non-developmental or Commercial Off The Shelf (COTS) products making up part or all of the system, the RAM Program for these products can be limited to the design and validation of any integration or required modifications, plus assurances that the manufacturing process retains the inherent designed in RAM characteristics.

10.4.5 Reviews

10.4.5.0-1 The SEMP must describe the technical reviews the Contractor plans to conduct in support of the work of the SOW. The description of the various technical reviews must include detailed descriptions of the review methodologies, entry criteria, review tasks and exit criteria, for each specific review.

10.4.6 Performance Measurement

10.4.6.0-1 The Contractor must describe the proposed Engineering Performance Measures and the associated Measurement and Analysis process.

2.2 DID SE-002 Interface Control Document (ICD)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Interface Control Document (ICD)		2 Data Item Number SE-002
3 Description / Purpose 3.0-1 The ICD describes the designed hardware and software interface of the ISS-S to allow for the integration with an external system. Note that a single document may be used to capture the interface design for multiple interfacing entities by repeating relevant sections for each interface.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The ICD describes the interface specification between the ISS-S and a potential External device or the interface specification between two ISS-S internal devices.		
8 Originator PMO ISSP Chief Engineer		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 This DID is not meant to be restrictive, and may be tailored by the contractor with the agreement of the Technical Authority. The resultant document may be prepared in contractor’s format, and shall contain sufficient detail to fully address the following subjects: 10.1 Introduction 10.1.0-1 Give a high-level overview of the document. Present a system context using appropriate diagrams and description. The Contractor may use the Department of National Defence Architectural Framework (DNDAF) view, copy the System Abstract paragraph from the System Overview (SOV) document to establish the system context. Identify the interfacing entities (e.g. system-of-interest, system elements, Computer Software Configuration Items (CSCIs), users or computer software units), and describe the purpose of the interface at a high level. 10.2 Applicable Standards and Specifications 10.2.0-1 Applicable version of ISO/IEC 15289 at contract time. 10.2.0-2 DND/CF Architecture Framework (DNDAF) Version 1.6 10.3 Design Constraints 10.3.0-1 Describe the design features resulting from any a-priori decisions constraining this design document. 10.4 Required Interface 10.4.1 General 10.4.1.0-1 In the subsections that follow, provide the detailed description, responsibilities, coordinate systems, and numerical specifications as they relate to the interface boundaries. 10.4.1.1 Interface Description 10.4.1.1.0-1 Describe the hardware and software interface as defined in the system specification. Use tables, figures, or drawings as appropriate. 10.4.1.2 Interface Responsibilities 10.4.1.2.0-1 Define interface hardware, software and interface boundary responsibilities to depict the interface plane. Use tables, figures, or drawings as appropriate. 10.4.1.3 Engineering Units, Tolerances, and Conversions 10.4.1.3.0-1 Define the measurement units along with tolerances. If required, define the conversion		

between measurement systems.

10.4.2 Interface Specifications

10.4.2.0-1 In the subsections that follow, define limiting values (structural, data wise, etc.) at the interface. The safety and security aspect will be described in these subsections. The various interface controls (mechanical, electronic and software) need to be describe when required in their proper section.

10.4.3 Interface boundary

10.4.3.0-1 Define the interface specifications on each side of the interface boundary.

10.4.3.1 Envelope

10.4.3.1.0-1 Define the mechanical dimensions and range of motions of the interface when appropriate.

10.4.3.2 Structural/Mechanical

10.4.3.2.0-1 Define the derived interface specification based on the allocated specifications contained in the applicable specification pertaining to that side of the interface.

10.4.3.2.0-2 For example, this subsection should cover attachment, stiffness, latching, and mechanisms.

10.4.3.3 Fluid

10.4.3.3.0-1 Define the derived interface specification based on the allocated specifications contained in the applicable specification pertaining to that side of the interface. E.g. this subsection should cover fluid areas such as thermal control, O2, potable, fuel cell fuel and water.

10.4.3.4 Electrical (Power)

10.4.3.4.0-1 Define the derived interface specification based on the allocated specifications contained in the applicable specification pertaining to that side of the interface. For example, this subsection should cover various electric current, voltage, wattage, and resistance levels.

10.4.3.5 Electronic (Signal)

10.4.3.5.0-1 Define the derived interface specification based on the allocated specifications contained in the applicable specification pertaining to that side of the interface.

10.4.3.5.0-2 For example, this subsection should cover various signal types such as audio, video, command data handling, and navigation.

10.4.3.6 Software and Data

10.4.3.6.0-1 Define the derived interface specification based on the applicable specification pertaining to that side of the interface. For example, this subsection should cover various data standards, message timing, protocols, error detection/correction, functions, initialization, and status. This section should also cover when appropriate: special processing or data handling functions pertaining to security, safety, reliability, integrity, authentication, encryption/decryption, encoding, compression, buffering, burst transmission, etc.

10.4.3.7 Environments

10.4.3.7.0-1 Define the derived interface specification based on the allocated specifications contained in the applicable specification pertaining to that side of the interface, e.g. temperature and humidity limitations of the interface, explosive environment, Electromagnetic Interference (EMI)/EMC.

10.4.3.7.1 Electromagnetic Effects

10.4.3.7.1.1 EMC

10.4.3.7.1.1.0-1 Define the appropriate electromagnetic compatibility specifications.

10.4.3.7.1.2 EMI

10.4.3.7.1.2.0-1 Define the appropriate electromagnetic interference specifications.

10.4.3.7.1.3 Grounding

10.4.3.7.1.3.0-1 Define the appropriate grounding specifications.

10.4.3.7.1.4 Bonding

10.4.3.7.1.4.0-1 Define the appropriate bonding specifications.

10.4.3.7.1.5 Cable and Wire Design

10.4.3.7.1.5.0-1 Define the appropriate cable and wire design specifications.

10.4.3.8 Acoustic

10.4.3.8.0-1 Define the appropriate acoustics specifications. Define the acoustic noise levels on each side of the interface in accordance with program or project specifications.

10.4.3.9 Structural Loads

10.4.3.9.0-1 Define the appropriate structural loads specifications. Define the mated loads that each end item must accommodate.

10.4.3.10 Vibroacoustic

10.4.3.10.0-1 Define the appropriate vibroacoustic specifications. Define the vibroacoustic loads that each end item must accommodate.

10.4.4 Other Types of Interface Specifications

10.4.4.0-1 Define other types of unique interface specifications that may be applicable.

10.5 Performance

10.5.0-1 State the expected performance of the interface based on the proposed design. Use appropriate metrics (e.g. baud rate, processing time, response time, throughput, etc).

10.6 Specification Traceability

10.6.0-1 Cross-reference the interface design features and trace them to the relevant requirements in the ISS-S TPS when applicable.

2.3 DID SE-003 Battery System Description

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Battery System Description	2 Data Item Number SE-003	
3 Description / Purpose 3.0-1 To provide the required information such that the PMO can procure a charging capability and other ancillary equipment, while respecting the warranty condition of the battery manufacturers.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Battery System Description conforms to ISO/IEC 15289, references: 7.3, 10.71, 10.72 and 10.73.		
8 Originator PMO ISSP Chief Engineer	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Source documents 10.2 Format 10.3 General 10.3.0-1 The Battery System Description must conform to the requirements for the generic content guidelines for descriptions, section 7.3 of ISO/IEC 15289. 10.3.0-2 The Battery System Description must be consistent with the requirements of ISO/IEC 15289 sections 10.71, 10.72 and 10.73 in the appropriate sections. 10.3.0-3 The Battery System Description must capture the technical information on all ISS-S power sources identified as follows: <ul style="list-style-type: none"> • ISS Non-Rechargeable Batteries; • ISS Rechargeable Batteries; and • ISS-ES Internal Batteries (if provided). As the ISS-S may require more than one battery to ensure proper functioning and meet the autonomy requirements, each of the battery types or models used will need to be technically described. Batteries can be categorised by type (rechargeable or non-rechargeable) and by model e.g. two batteries could be of the same type, same chemistry but have a different size therefore a different model part number. Through this DID, the main contractor will need to fill for each battery type and model a Battery System Description. The required information content is described in the following sub-section and sections and need to be group to produce a Battery System Description for each battery used on the ISS-S.		
10.4 General, Battery System Core Information 10.4.0-1 The battery characteristics need to be captured hereafter.		
10.4.1 Conformance to Standards 10.4.1.0-1 This section must describe the international, national, military and industry standards to which the batteries and their components complies with e.g. MIL-PRF-32052, MIL-PRF-32271, MIL-B-18E and MIL-STD-461, ER14505, SMBus.		
10.4.2 Battery Core Electrical Specification 10.4.2.0-1 This section must describe the technical specifications of all supported batteries. This section must at least present the information found in the Technical Datasheet e.g. Chemistry type,		

NSN (if it exists), voltage range, average or nominal voltage, cut-off voltage, nominal capacity at a specific temperature and discharge rate, maximum discharge current, energy density, operating temperature range, storage temperature range, standard charge rate and current, dimensions, operation life in number of cycles, transportation details.

10.4.3 Battery Core Physical Dimension

10.4.3.0-1 This section must include the detailed physical aspects of all supported batteries. This section must include the following characteristics of the item(s): width, length and height, weight. Furthermore, unusual dimensions due to form factors need to be specified. The type, number of contacts and Original Equipment Manufacturer (OEM) part number of the connector(s) need to be included here. This can easily be presented in a technical drawing with its tolerances.

10.5 ISS Non-Rechargeable Batteries Specificity

10.5.1 ISS Non-Rechargeable Battery Communication Interface

10.5.1.0-1 This section must include the detailed communication protocol to interrogate the ISS Non-Rechargeable Batteries on its State-Of-Health which include its State-Of-Charge (if State-of-Health and State-Of-Charge capabilities are provided). The content parameters, format and the content meaning must be explained.

10.6 ISS Rechargeable Batteries Specificity

10.6.1 ISS Rechargeable Battery Charging Specific Details

10.6.1.0-1 This section must contain the specific details and processes that will permit the charge and recharge of the ISS Rechargeable Batteries in a safe manner for the users and from the stand point of the battery warranty as stated above. Such information includes the nominal charge rate (slow charge), the maximum recharge current (fast charge), the charging cut-off temperature, the standard charging algorithm for the specific battery chemistry and any departures from it should be specified to ensure that the charging regime does not present a safety hazards and conform to the warranty life time terms and references.

10.6.2 ISS Rechargeable Battery Specificity, Standards, Modifications or Departures

10.6.2.0-1 If the ISS Rechargeable Batteries conform to a known and recognised standard (e.g. the System Management Bus (SMBus) version 1.1), any departure or addition to the standard which would have an impact on the charging regime of the batteries must be described.

10.6.2.0-2 Furthermore, for batteries using and gathering State-of-Health, the content parameters, format of the intelligent battery or batteries State-of-Health and its State-of-Charge need to be also described, its content meaning explained and the methodology to access it.

10.7 ISS-ES Internal Batteries Specificity

10.7.1 ISS-ES Internal Battery Charging Specific Details

10.7.1.0-1 This section must contain the specific details and processes that will permit the charge and recharge of the ISS-ES Internal Batteries in a safe manner for the users and from the stand point of the battery warranty as stated above. Such information includes the nominal charge rate (slow charge), the maximum recharge current (fast charge), the charging cut-off temperature, the standard charging algorithm for the specific battery chemistry and any departures from it should be specified to ensure that the charging regime does not present a safety hazards and conform to the warranty life time terms and references.

10.7.2 ISS-ES Internal Battery Specificity, Standards, Modifications or Departures

10.7.2.0-1 If the ISS-ES Internal Batteries conform to a known and recognised standard (e.g. the System Management Bus (SMBus) version 1.1), any departure or addition to the standard which would have an impact on the charging regime of the batteries must be described.

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10.7.2.0-2 Furthermore, for batteries using and gathering State-of-Health, the content parameters, format of the intelligent battery or batteries State-of-Health and its State-of-Charge need to be also described, its content meaning explained and the methodology to access it.

2.4 DID SE-004 Verification Qualification Plan (VQP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Verification Qualification Plan (VQP)	2 Data Item Number SE-004	
3 Description / Purpose 3.0-1 The VQP describes the Contractor's plans and processes for scheduling, planning, organizing, directing, conducting, controlling and coordinating all Verification and Qualification effort under the contract and sets forth the Contractor's Verification Program.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The VQP is a subordinate plan of the SEMP. 7.0-2 The VQP and information items, records and data described in the VQP are placed under CM in accordance with the CMP. 7.0-3 The VQP describes elements of ISO/IEC/IEEE 15288:2008 reference: 6.4.6.3, ISO/IEC/IEEE 12207:2008 references: 6.4.6, 7.1.7, 7.2.4. 7.0-4 The VQP conforms to ISO/IEC 15289, references: 7.4, 10.82.		
8 Originator PMO ISSP Chief Engineer	9 Applicable Forms Requirements Traceability Verification Matrix (RTVM)	
10 Preparation Instructions 10.1 Source Documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor's own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The VQP must conform to the requirements for the generic content guidelines for plans, section 7.4 of ISO/IEC 15289. 10.3.0-2 The VQP must conform to the requirements of ISO/IEC 15289 clause 10.82 specific information items, as tailored to meet the requirements of the SOW. 10.4 Specific Content 10.4.1 Verification 10.4.1.0-1 The VQP will address unit, system, software and qualification tests. It enables an assessment of the adequacy of planning for testing. It includes the following: 10.4.1.0-1.0-1 the verification strategy and how the verification process will be conducted 10.4.1.0-1.0-2 system and software products subject to verification 10.4.1.0-1.0-3 the required verification tasks to address all TPS requirements in order to fully achieve the Verification and Qualification (VQ) of the ISS. 10.4.1.0-1.0-4 the organizational relationships and degrees of independence between development activities and verification activities 10.4.1.0-1.0-5 preliminary test requirements and a schedule for software and system integration 10.4.1.0-1.0-6 the scope, approach, resources, and schedule of the testing activities. As events near the schedule for each test type, the test schedule should be updated to provide more		

detailed information.

10.4.1.0-1.0-7 the methods used for verification, such as analysis, evaluation, review, inspection, assessment, and testing of the products and the processes that produced the products

10.4.1.0-1.0-8 test objectives, mapping of tests to covered requirements

10.4.1.0-1.0-9 For each software integration task and test, a list of applicable software units, software components and previously integrated software items

10.4.1.0-1.0-10 the items to be tested, the features to be tested, the testing tasks to be performed

10.4.1.0-1.0-11 the assigned responsibilities for executing the test procedures, including the locations and organizations for the test manager, testers, quality assurance, configuration management, test evaluation and reporting, and supplier involvement in testing

10.4.1.0-1.0-12 description of the test environment, test tools, and supporting hardware and software

10.4.2 Analysis and Inspection Verification Methods

10.4.2.0-1 Canada has specified Verification/Qualification Methods for each requirement of the TPS and UAPS.

10.4.2.0-2 The VQP must describe the process for analysis and inspection methods.

10.4.3 Verification Cross-reference Matrix

10.4.3.0-1 The VQP must refer to the RTVM, or contain a traceability cross-reference matrix which traces and cross-references the TPS and UAPS requirement to the Verification/Qualification method, applicable Qualification and Test Description and Procedures (QTDPs) and the applicable Test or Verification Report.

2.5 DID SE-005 Qualification Test Description and Procedures (QTDP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Qualification Test Description and Procedures (QTDP)		2 Data Item Number SE-005
3 Description / Purpose 3.0-1 The QTDP documents how qualification testing of an ISS system element or service will be conducted, and the conditions that are to be satisfied before qualification. The qualification test procedure provides a set of tests so that each qualification requirement is addressed for the system or software items. It includes mapping of requirements to qualification tests and overall requirements to perform qualification testing, test objectives, test criteria, test configurations, preparations, test cases (inputs, steps, and outputs), expected results, and post-test analysis procedures.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 QTDP is subordinate to the VQP. 7.0-2 The QTDP conforms to ISO/IEC 15289, references: 7.3, 7.5, 10.50.		
8 Originator PMO ISSP Chief Engineer		9 Applicable Forms N/A
10 Preparation Instructions 10.1 Source Documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor’s own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The QTDP must satisfy the requirements of ISO 15289 clause 7.3 Descriptions and 7.5 Procedures generic information types. 10.4 Specific Content 10.4.0-1 The QTDP must satisfy the specific information item requirements of ISO 15289 clause 10.50. 10.4.0-2 The QTDP must provide information on the items listed below. 10.4.1 Test Purpose 10.4.1.0-1 ISS System Element to be qualified 10.4.1.0-2 Test objective 10.4.1.0-3 Test witnessing 10.4.2 Testing Conditions 10.4.2.0-1 Test facility 10.4.2.0-2 Environmental conditions 10.4.2.0-3 Test equipment and recording equipment 10.4.3 Software to Run Test 10.4.3.0-1 Set up 10.4.3.0-2 Calibration		

10.4.3.0-3 Pre-test checks

10.4.3.0-4 Initialisation of test item

10.4.3.0-5 Operation conditions of test Item

10.4.3.0-6 Inputs, loads, outputs

10.4.4 Test Procedure

10.4.4.0-1 Physical layout of the equipment under test

10.4.4.0-2 Test procedures and methods

10.4.4.0-3 Safety precautions

10.4.4.0-4 Modes of operation

10.4.4.0-5 Test interruptions

10.4.4.0-6 Design parameters and tolerances

10.4.4.0-7 Parameters to be measured

10.4.4.0-8 Definition of failure

10.4.4.0-9 Pass/fail criteria

10.4.5 Test Recording and Reporting

10.4.5.0-1 Format for recording test results

10.4.5.0-2 Data collection and analysis

10.4.5.0-3 QA certification.

10.4.6 Cross-reference to RTVM

10.4.6-1 Canada has specified Verification/Qualification Methods for each requirement of the TPS and UAPS. The QTDP must provide a cross-reference to the Qualification Method identified in the TPS using the RTVM.

2.6 DID SE-006 Verification Qualification Test Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Verification Qualification Test Report	2 Data Item Number SE-006	
3 Description / Purpose 3.0-1 The Verification Qualification Test Report provides the results of the verification activities and qualification test, and states whether the requirements under verification or test were satisfied.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Verification Qualification Test Report must conform to ISO/IEC 15289:2006, references: 7.6, 10.51.		
8 Originator PMO ISSP Chief Engineer	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Source Documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor's own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The Verification Qualification Test Report must conform to the Report generic information contents of ISO 15289:2006 clause 7.6, and specific requirements of clause ISO 15289:2006 10.51. 10.4 Specific 10.4-1 The qualification test report documents that the system was tested in accordance with the approved plan and procedures. 10.4-2 It provides the results of each verification activities and qualification test and states whether all requirements were satisfied. It includes ISS system element identification and overview, TPS Verification Methods and Criteria, qualification requirements and criteria, overview of results, identification of items tested, demonstrated, inspected or analysed and dates of testing, detailed results and problems encountered. 10.4-3 The report must identify any problem reports, IAIL register entries, opened as a result of the conduct of the Verification Qualification Test.		

2.7 DID SE-007 System Acceptance Test Plan (SATP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title System Acceptance Test Plan (SATP)		2 Data Item Number SE-007
3 Description / Purpose 3.0-1 The SATP describes the Contractor's plans and processes for scheduling, planning, organizing, directing, conducting, controlling and coordinating all System Acceptance Test (SAT) effort under the contract.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The SATP is a subordinate plan of the SEMP. 7.0-2 The SATP and information items, records and data described in the SATP are placed under CM in accordance with the CM Plan. 7.0-3 The SATP describes elements of ISO/IEC/IEEE 15288:2008, reference: 6.4.8. 7.0-4 The SATP describes elements of ISO/IEC/IEEE 12207:2008, references: 6.4.8, 7.2.5. 7.0-5 The SATP must conform to ISO/IEC 15289, references: 7.4, 10.78.		
8 Originator PMO ISSP Chief Engineer		9 Applicable Forms N/A
10 Preparation Instructions 10.1 Source Documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor’s own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The SATP must conform to the generic plan information item description at ISO/IEC 15289 clause 7.4. 10.3.0-2 The SATP must conform to the specific plan information item description at ISO/IEC 15289 clause 10.78. 10.3.0-3 The SATP must incorporate the applicable elements from SAT System Scenario instruction provided at Annex CB Appendix 6. 10.4 Specific Content 10.4.0-1 The SAT Plan is to document: 10.4.0-1.0-1 SAT strategy 10.4.0-1.0-2 SAT Conduct 10.4.0-1.0-3 Cross-reference to SAT criteria and RTVM 10.4.0-1.0-4 Resources and organisation 10.4.0-1.0-5 Responsibilities 10.4.0-1.0-6 Tools 10.4.0-1.0-7 Schedule 10.4.0-1.0-8 Description of the system under test (P(SAT)). 10.4.0-1.0-9 organizational relationships and degrees of independence between development organisation and SAT organisation		

2.8 DID SE-008 System Acceptance Test Description and Procedures (SATDP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title System Acceptance Test Description and Procedures (SATDP)	2 Data Item Number SE-008	
3 Description / Purpose 3.0-1 The SATDP documents how qualification testing of the ISS will be conducted, and the conditions that are to be satisfied before SAT qualification. The SATDP provides a set of tests so that each SAT level qualification requirement is addressed for the system or software items. It includes mapping of requirements to SAT qualification tests and overall requirements to perform system acceptance testing, test objectives, test criteria, test configurations, preparations, test cases (inputs, steps, and outputs), expected results, and post-test analysis procedures. The SAT is to be conducted as a field engineering exercise at a DND furnished Main Operating Base (MOB).		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The SATDP is a subset of the SATP. 7.0-2 The SATDP (DID SE-008) must be based on, build from and comply with the SAT Scenario Instruction provided at Annex CB Appendix 6. 7.0-3 The SATDP must conform to ISO/IEC 15289, references: 7.3, 7.5, 10.50, 10.80		
8 Originator PMO ISSP Chief Engineer	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Source Documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor's own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The SATDP must satisfy the requirements of ISO/IEC 15289 clause 7.3 Descriptions and 7.5 Procedures generic information types. 10.4 Specific Content 10.4.0-1 The SATDP must satisfy the specific information item requirements of ISO 15289 clauses 10.50 and 10.80. 10.4.0-2 The SATDP must provide information on the items listed below. 10.4.1 Test Purpose 10.4.1.0-1 Description of the system under test (P(SAT)). 10.4.1.0-2 Test objective 10.4.1.0-3 Test witnessing 10.4.2 Testing Conditions 10.4.2.0-1 Test facility 10.4.2.0-2 Environmental conditions 10.4.2.0-3 Test equipment and recording equipment 10.4.3 Software to Run Test		

10.4.3.0-1 Set up

10.4.3.0-2 Calibration

10.4.3.0-3 Pre-test checks

10.4.3.0-4 Initialisation of test item

10.4.3.0-5 Operation conditions of test Item

10.4.3.0-6 Inputs, loads, outputs

10.4.4 Test Procedures

10.4.4.0-1 Physical layout of the equipment under test

10.4.4.0-2 Test procedures and methods

10.4.4.0-3 Test cases and scenarios

10.4.4.0-4 Safety precautions

10.4.4.0-5 Modes of operation

10.4.4.0-6 Test interruptions

10.4.4.0-7 Design parameters and tolerances

10.4.4.0-8 Parameters to be measured

10.4.4.0-9 Definition of failure according to Volume 2, Annex CB, Appendix 4

10.4.4.0-10 Pass/fail criteria

10.4.5 Test Recording and Reporting

10.4.5.0-1 Format for recording test results

10.4.5.0-2 Data collection and analysis including, but not limited to failure data collection and analysis according to Volume 2, Annex CB, Appendix 4

10.4.5.0-3 Quality Assurance certification.

10.4.6 Cross-reference to RTVM

10.4.6.0-1 Canada has specified which requirement of the TPS and UAPS is to be verified/qualified during SAT. The SATDP must provide a cross-reference to the requirements identified in the TPS using the RTVM.

2.9 DID SE-009 SAT Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title SAT Report		2 Data Item Number SE-009
3 Description / Purpose 3.0-1 The SAT Report.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The SAT report provides the results of the SAT activities and states whether all requirements under the test were satisfied. 7.0-2 The SAT Report must conform to ISO/IEC 15289:2006, references 7.6, 10.51.		
8 Originator PMO ISSP Chief Engineer		9 Applicable Forms N/A
10 Preparation Instructions 10.1 Source Documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor's own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The SAT Report must conform to the Report generic information contents of ISO 15289:2006 clause 7.6, and specific requirements of clause ISO 15289:2006 10.51. 10.4 Specific 10.4.0-1 The SAT report documents that the system was tested in accordance with the approved plan and procedures. 10.4.0-2 It provides the results of SAT activities and states whether all SAT requirements were satisfied. It includes ISS system element identification and overview, TPS Verification Methods and Criteria, requirements to be demonstrated and tested and criteria, overview of results, identification of items demonstrated, tested, analysed and inspected and dates of testing, detailed results and problems encountered. 10.4.0-3 The report must identify any problem reports, IAIL entries, opened as a result of the conduct of the Verification Qualification Test.		

2.10 DID SE-010 Production Plan (ProdP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Production Plan (ProdP)	2 Data Item Number SE-010	
3 Description / Purpose 3.0-1 The ProdP describes the Contractor's plans and processes for scheduling, planning, organizing, directing, conducting, controlling and coordinating all Production efforts under the contract.		
4 Approval Date June 2011	5 OPI PMO ISSP Chief Engineer	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The ProdP is a subordinate plan of the SEMP. 7.0-2 The ProdP and information items, records and data described in the ProdP are placed under CM in accordance with the CM Plan. 7.0-3 The ProdP must conform to ISO/IEC 15289:2006, reference 7.4.		
8 Originator PMO ISSP Chief Engineer	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Source Documents 10.1.0-1 The applicable issue of the documents cited herein, including their approval dates, and dates of any applicable amendment notices and revisions must be as specified in the contract. 10.2 Format 10.2.0-1 The Contractor's own format compliant with the EIE requirements. 10.3 General 10.3.0-1 The ProdP must comply with ISO 15289/IEC clause 7.4 generic information for plans. 10.4 Specific 10.4.0-1 The ProdP must describe: 10.4.0-1.0-1 the existing and planned facilities, 10.4.0-1.0-2 tooling and test equipment, 10.4.0-1.0-3 manufacturing methods and controls, 10.4.0-1.0-4 material and manpower resources, 10.4.0-1.0-5 production engineering, 10.4.0-1.0-6 quality control and assurance provisions, 10.4.0-1.0-7 production management organization, 10.4.0-1.0-8 production technical data 10.4.0-1.0-9 software/firmware control 10.4.0-1.0-10 implementation of engineering changes, 10.4.0-1.0-11 design reviews and producibility analysis, 10.4.0-1.0-12 process change controls, 10.4.0-1.0-13 production training, 10.4.0-1.0-14 technology transfer, 10.4.0-1.0-15 Manufacturing information transfer, 10.4.0-1.0-16 Rework, modification and repair and overhaul processes, 10.4.0-1.0-17 quarantine and disposition of non-conformant product		

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10.4.0-2 The ProdP must describe the following controls over major production subcontractors:

10.4.0-2.0-1 Control of subcontractor production engineering;

10.4.0-2.0-2 activity planning

10.4.0-2.0-3 performance audit

10.4.0-2.0-4 subcontractor production plans

3 LOGISTIC SUPPORT

3.1 DID LS-001 Integrated Logistics Support Plan (ILSP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Integrated Logistics Support Plan (ILSP)	2 Data Item Number LS-001	
3 Description / Purpose 3.0-1 The ILSP describes the methods used by the Contractor to provide ILS. It serves as the principal management and planning document for execution of the ILS program.		
4 Approval Date June 2011	5 OPI PMO ISSP ILS Manager (ILSM)	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The ILSP must be consistent with the MPS and WBS. 7.0-2 The ILSP must be consistent with the PMP.		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The ILSP must be prepared in the Contractor's format, acceptable to DND, and consistent with EIE requirements. 10.0-2 Best Commercial practices must be used for charts, tables, matrices, page numbering and document control numbering. 10.0-3 The plan must include the following sections: 10.1 Section I - Introduction 10.1.0-1 This section must define the scope, purpose and application of the ILSP, together with applicable policies, objectives, definitions, references and a mechanism to update the plan. 10.2 Section II - Management/Organization 10.2.0-1 This section must describe the Contractor's ILS organization, subcontractor's ILS organization, management procedures and reporting/ tracking system. The Contractor's ILS manager and logistic element managers must be identified by name in an ILS Organization chart. A resume of duties for the ILS manager and each of the logistic element managers must be provided. The following information must also be provided: 10.2.0-1.0-1 Detail responsibility of each ILS element managers including line of authority and functional interface; 10.2.0-1.0-2 Identification of subcontractors, including their functional interface; and 10.2.0-1.0-3 Description of the method of subcontractor interface, management and control. 10.3 Section III - Schedule/Milestones 10.3.0-1 ILS activities and tasks must be included in the MPS and WBS DID PM-003 . The ILS Plan must provide a summary of ILS major milestone and dates and point to DID PM-003 . 10.4 Section IV - Relationships 10.4.0-1 This section must describe the following relationships: 10.4.0-1.0-1 Between the various ILS elements; 10.4.0-1.0-2 With the Systems Engineering program; 10.4.0-1.0-3 With the Configuration Management; and 10.4.0-1.0-4 With any other impacted project programs.		

10.5 Section V - Logistics Support Analysis (LSA)

10.5.0-1 Describe any supportability analyses, tasks or procedures that are proposed or have been completed to provide for the ILS requirements of the Contract.

10.6 Section VI - ILS Program Elements

10.6.0-1 Provide a detailed overview of the support and support processes to be provided by the Contractor and any subcontractors. As a minimum the following subjects must be addressed:

- Maintenance Plan;
- Supply Support;
- Special Tools and Test Equipment (STTE);
- Technical Publications;
- Training and Training Support; and
- Packaging, Handling, Storage, and Transportation (PHST).

10.7 Section VII - ILS Reviews

10.7.0-1 The ILSP must identify the numbers and frequency of ILS Review meetings.

10.7.0-2 The ILS Reviews must include the following discussion points: Maintenance Planning, LSA requirements, Training (Review progress), outstanding action for the Contractor and PMO ISSP, a review of the schedule, anticipated problem areas, and new business.

3.2 DID LS-002 Recommended Support Equipment Requirements List (RSERL)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Recommended Support Equipment Requirements List (RSERL)		2 Data Item Number LS-002
3 Description / Purpose 3.0-1 This data is required to identify the support equipment needed to operate, maintain, transport and handle the system/equipment and to train personnel. 3.0-2 This data may be submitted/accessed in electronic media.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The RSERL is associated with the Maintenance Plan. 7.0-2 The RSERL is associated with the Training Program Plan.		
8 Originator PMO ISSP ILSM		9 Applicable Forms PMO ISSP ILSM
10 Preparation Instructions 10.1 Format 10.1.0-1 The RSERL must be prepared in the Contractor's format, acceptable to DND, and consistent with EIE requirements. 10.2 Content 10.2-1 For each required item of Support Equipment include: 10.2-1.0-1 Support Equipment Item Name; 10.2-1.0-2 Support Equipment Reference (Manufacturer's Part) Number; 10.2-1.0-3 NSCM/CAGE Code; 10.2-1.0-4 NSN (if available); 10.2-1.0-5 Recommended Buy Quantity; 10.2-1.0-6 Standard Unit Price; and 10.2-1.0-7 Date of First Article Delivery. 10.2-2 For complex, expensive or STTE, including automatic test equipment include the following: 10.2-2.0-1 <u>Description, Function and Characteristics of the STTE</u> - Enter the description, function and characteristics of the STTE, describe the SE required to satisfy the functional requirements; 10.2-2.0-2 <u>Type Activity</u> - Enter the level/type of activity at which the STTE under review will be used: e.g., training site, test site, operational/base, etc; 10.2-2.0-3 <u>Maintenance Level for STTE</u> - Enter the level at which the proposed STTE will be used: e.g., first line, second line, depot, contractor, or a combination thereof; 10.2-2.0-4 <u>Calibration Interval</u> - Enter the frequency in months between which the item or STTE must be calibrated; 10.2-2.0-5 <u>Calibration Procedure</u> - Enter the instruction title/number that specifies the calibration procedure; 10.2-2.0-6 <u>Calibration Standard</u> - Indicate the requirement for the item or STTE to be calibrated to a standard; 10.2-2.0-7 <u>Operating Dimensions</u> - Enter the dimensions of the proposed STTE while it is in an		

operational configuration (i.e., ready for use in the operational environment);

10.2-2.0-8 Operating Weight - Enter the weight of the proposed STTE while it is in an operational configuration (i.e., ready for use in the operational environment);

10.2-2.0-9 Environmental Conditions - Conditions under which the STTE item must be used;

10.2-2.0-10 Description, Function and Characteristics of STTE - For the description and function of the STTE, describe the support equipment required to satisfy the functional requirements;

10.2-2.0-11 Installation Factors - Identify briefly any unique considerations required for the installation or support such as vibration and shock mounting requirements, special foundations, utilities connections, and environmental factors. Also, include any equipment necessary to install the item. If the data are extensive, refer to a separate submission of Installation data;

10.2-2.0-12 Type of Technical Publications - Enter the type of technical publications, which are required to support the proposed item of STTE.

10.2-3 The RSERL may be divided into sections as appropriate:

10.2-3.0-1 Common Hand Tools;

10.2-3.0-2 Special Purpose Tools;

10.2-3.0-3 Operations Support Equipment;

10.2-3.0-4 Maintenance Support Equipment;

10.2-3.0-5 Calibration Equipment;

10.2-3.0-6 Technical Publications Viewers, Readers and Consoles;

10.2-3.0-7 Test, Measurement and Diagnostic Equipment (TMDE);

10.2-3.0-8 Maintenance Jigs and Fixtures;

10.2-3.0-9 Automatic Test Equipment (ATE) and its Test Program Set;

10.2-3.0-10 Test and Diagnostic Facility;

10.2-3.0-11 Computer Resources Support Requirement;

10.2-3.0-12 Training Support; and/or

10.2-3.0-13 Other

10.2-4 If ATE is required, identify the adapter/interconnect devices and test program sets/instructions.

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3.3 DID LS-003 Recommended Spare Parts List (RSPL)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Recommended Spare Parts List (RSPL)		2 Data Item Number LS-003
3 Description / Purpose 3.0-1 The RSPL lists all spares recommended, by the Contractor, for procurement. It is used by the crown as a guide for the procurement of spare parts.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The RSPL conforms to specification D-01-100-214/SF-000, Specification for Preparation of Provisioning Documentation for Canadian Forces Equipment. 7.0-2 The RSPL is related to the Sparing Analysis Report.		
8 Originator PMO ISSP ILSM		9 Applicable Forms N/A
10 Preparation Instructions 10.1 Format 10.1.0-1 The RSPL data must be provided electronically in the format required for input into the automated supply system as defined in D-01-100-214/SF-000. 10.2 Content 10.2.0-1 The RSPL must contain the data elements as specified in the attached Table 1. 10.3 Tables 10.3.0-1 Table 1 - Provisioning Data Requirements		

DATA FIELDS REQUIRED	RSPL	CBIL
Item Sequence Number (unique sequence no. for each list)	M	M
Indenture Code	O	NR
Item Name	M	M
Manufacturer's Reference (manufacturer's part) No.	M	M
NSCM/CAGE Code	M	M
OEM's Part Number	R	R
NATO Stock Number	R	R
Quantity Per Assembly	M	NR
Standard Unit Price	M	M
Unit Of Issue (UOI)	M	NR
Unit of Measure	NR	M
Repairability Indicator	R	NR
Procurement Lead Time	M	NR
Reference Designation	R	NR
Shelf Life (SL)	R	M
Usage Rate	R	NR
Recommended Buy Quantity	M	M
Source Maintenance and Recoverability (SMR) Code	R	NR
Demilitarization Code (DMC)	R	NR

Notes:

M = Mandatory R = Required if known O = Optional NR = Not Required

3.4 DID LS-004 Training Program Plan

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Training Program Plan		2 Data Item Number LS-004
3 Description / Purpose 3.0-1 Data is required to define the management, organization, procedures, schedule and detailed plan to be used by the Contractor in meeting the requirements for the development of a Training Program.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Training Program Plan must conform to ISO/IEC 15289:2006, Systems and software engineering - Content of systems and software life-cycle process information products (Documentation), reference 7.4. 7.0-2 The Training Program Plan references the MPS and WBS.		
8 Originator PMO ISSP ILSM		9 Applicable Forms N/A
10 Preparation Instructions 10.1 Format 10.1.0-1 The Contractor's own format compliant with the EIE requirements. 10.2 General 10.2-1 The Training Program Plan must conform to ISO/IEC TR 15289:2006 clause 7.4 Generic content guidelines for plans, as tailored to meet the information requirements of this DID. 10.2-2 Best commercial practices are to be used for charts, tables and matrices. 10.2-3 The Training Program Plan must contain the following documentation management information: 10.2-3.0-1 Title Page; 10.2-3.0-2 Document Control log; 10.2-3.0-3 Revision record and history; and, 10.2-3.0-4 Scope 10.3 Specific content 10.3.1 Introduction and Concept of Operations (ConOp) 10.3.1.0-1 This Section must provide a brief overview of the purpose and expected application of the document. The Concept of Operations (CONOPS) must provide an overview of the Contractor's proposed training and training support activities in meeting all of the Operator and Technician training requirements, including operator-level preventive and corrective maintenance tasks. 10.3.2 Assumptions and Constraints 10.3.2.0-1 All assumptions and constraints must be documented as they pertain to the Training Program plan and which may impact the development or conduct of the training, particularly the location and timing of training. 10.3.3 Canadian Forces individual Training and Education System (CFITES) 10.3.3.0-1 The Training Program plan must describe how the requirements of the CFITES must be met throughout all phases of the Training Program Plan (i.e. Analysis, Design, Conduct and Evaluation).		

10.3.4 WBS/Schedule of Activities and Milestones

10.3.4.0-1 This section must include summary tasks and milestone events extracted from the MPS and WBS (**DID PM-003**) to show the time-phased workflow of the Training tasks, events, deliverables, as well as key inter-dependencies from other areas.

10.3.5 Training Reviews

10.3.5.0-1 This section describes the Training Review approach, process

10.3.6 Training Transition

10.3.7 Training Quality Control and Continuous Improvement

10.3.7.0-1 The Training Program Plan must include the Contractor's approach and methodology for Training Quality Control, continuous improvement of continuous training and support.

3.5 DID LS-005 Maintenance Plan

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Maintenance Plan	2 Data Item Number LS-005	
3 Description / Purpose 3.0-1 This plan describes the Maintenance Program of the system.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Maintenance Plan must be consistent with the e Maintenance Support Concept and Support For Operations sections of the Support Concept in Appendix 2 to Annex CA. 7.0-2 The Equipment Breakdown Structure (EBS) is a subset of the Maintenance Plan.		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 General 10.1.0-1 The Maintenance Plan must be prepared in the Contractor's format, acceptable to DND, and consistent with EIE requirements. 10.1.0-2 Best commercial practices must be used for charts, tables, matrices, page numbering and document control numbering. 10.2 Content 10.2.0-1 The Maintenance Plan must describe the maintenance tasks to be performed by Line Replaceable Units (LRUs) required to support the ISS. 10.2.0-2 All LRUs included in the EBS must be included. 10.2.0-3 The proposed Maintenance Plan must be based on appropriate supportability analysis techniques to provide the most cost effective maintenance solution. 10.2.0-4 As a minimum the Contractor's proposed Maintenance Plan must include the following: 10.2.0-4.0-1 Introduction: To include a description of the methods and analyses used to establish the proposed optimized Maintenance Plan 10.2.0-4.0-1.0-1 Tabular results to include: <ul style="list-style-type: none"> •Identification of the LRU •Identification of any lower level repairable items •Failure rate of the LRU / repairable item •If the LRU is to be repaired or discarded •Identify all preventive and corrective maintenance tasks to be performed by DND •Identify all the maintenance tasks to be performed by the Contractor •Description of the maintenance tasks •Line of maintenance where the maintenance tasks are to be done. If performed by the operator or if it is a system management function, identify as Operator Maintenance. •Required spares (with quantity), consumables and STTE •Expected task frequency •Mean elapsed time and labour hours. Indicate if these are measured or estimated values 10.2.0-4.0-1.0-2 Summary of Results: Compile the maintenance tasks by Line of Maintenance or Operator Maintenance. Include the weighted average elapsed time for maintenance actions by		

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type (CM, PM) and by line of maintenance.

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3.6 DID LS-006 Software Documentation

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Software Documentation		2 Data Item Number LS-006
3 Description / Purpose 3.0-1 This data is required to provide the documentation needed for software maintenance and support.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP ILSM		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 The software documentation provided to facilitate maintenance and support must be specified as appropriate for the project. The documentation must, at minimum, include: 10.0-1.0-1 a Software family tree for each computer program identifying each CSCI by: 10.0-1.0-1.0-1 CSCI Number; and 10.0-1.0-1.0-2 CSCI Name. 10.0-1.0-2 Functional description of each CSCI; and 10.0-1.0-3 List of computer programs.		

3.7 DID LS-007 Technical Publications

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Technical Publications		2 Data Item Number LS-007
3 Description / Purpose 3.0-1 Data is required to provide the data needed to identify, procure and manage Technical Publications.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Technical Publications must conform to the following standards and specifications, as per the requirements below: 7.0-1.0-1 C-01-100-100/AG-005 Acceptance of Commercial and Foreign Government Publications as Adopted Publications 7.0-1.0-2 C-01-100-100/AG-006 Specification - Writing, Format and Production of Technical Publications 7.0-1.0-3 A-LM-505-010/JS-001 Material Management Instruction - Official Languages Requirements for Technical Documentation 7.0-1.0-4 ISO 9660 Information Processing - Volume and File Structure of CDROM for Information Interchange 7.0-2 The Technical Publications are referenced in the Maintenance Plan.		
8 Originator PMO ISSP ILSM		9 Applicable Forms The Contractor must complete the following forms: DND 590, 591 and 642.
10 Preparation Instructions 10.1 SS-S Quick Reference Guide (QRG) / (English and French Versions) 10.1.0-1 The ISS-S QRG (separate English and French versions) must present an integrated overview of the ISS-S as a brief, complete, and compact guide in the form of a memory aide. 10.1.0-2 It is to be used after initial training, and must describe and illustrate the set-up and operation of the equipment, including basic troubleshooting. 10.1.0-3 The QRG must be weatherproof as it is intended for field use. 10.1.1 Format 10.1.1.0-1 The QRG must be made with a light grey background with a non-reflective finish. The QRG will be used under various field conditions, which must be taken into account when selecting materials. 10.1.1.0-2 The QRG must be relatively small in size, approximately (18 cm wide x 20 cm high x 1 cm deep) in terms of dimensions as it is meant to be carried on the soldier when in the field. 10.1.2 Content 10.1.2.0-1 The QRG must summarize, through text and illustrations, the mounting, set-up, operation and basic maintenance (troubleshooting) of the ISS-S. 10.1.2.0-2 The QRG must make reference to the ISS-S User Manual (UM) as the main reference for further details concerning the operation, maintenance, and systems management for the system. 10.1.2.0-3 The QRG must summarize EHS issues, including basic procedures for handling and disposing of such materials.		

10.2 ISS-S USER MANUAL (UM)

10.2.0-1 The UM must cover all ISS-S being procured and provide detailed information associated with the operation, care and maintenance, storage as well as personnel and equipment safety.

10.2.1 Format

10.2.1.0-1 The UM must be bilingual English and French.

10.2.1.0-2 The English and French versions must be back to back and upside down to each other so that the one side begins with the English version and the other side begins with the French version.

10.2.1.0-3 The manual must have three hard covers:

10.2.1.0-3.0-1 The top (title) page of the manual must represent the cover (top) page of the English version of the manual;

10.2.1.0-3.0-2 The second hard cover must be a different colour from the top cover and must act as the divider of the English and French versions. This hard cover page must follow immediately after the content (last page) of the English version; and

10.2.1.0-3.0-3 The third hard cover must be the top (title) page of the French version.

10.2.1.0-4 The English and French cover sheets must bear the following:

10.2.1.0-4.0-1 DND document configuration number (to be provided by Canada) on the top right hand corner;

10.2.1.0-4.0-2 Picture of the applicable equipment;

10.2.1.0-4.0-3 Document title;

10.2.1.0-4.0-4 Item name (e.g. Basic ISS-S) and nomenclature;

10.2.1.0-4.0-5 NSN; and

10.2.1.0-4.0-6 Version Date.

10.2.2 Content

10.2.2.0-1 The UM must cover all aspects associated with the operation, care and maintenance, storage as well as personnel and equipment safety of the ISS-S. As a minimum, the UM must address the following:

10.2.2.0-1.0-1 Brief technical description;

10.2.2.0-1.0-2 Data summary (e.g. specifications for the ISS-S and LRUs, if applicable);

10.2.2.0-1.0-3 ISS-S set-up and mounting procedures;

10.2.2.0-1.0-4 Description of controls;

10.2.2.0-1.0-5 Pre-use testing or inspection;

10.2.2.0-1.0-6 Operating procedures;

10.2.2.0-1.0-7 User maintenance and care, including user preventive maintenance, limited corrective maintenance and consumable replacements;

10.2.2.0-1.0-8 Basic diagnosis and/or fault finding;

10.2.2.0-1.0-9 Storage;

10.2.2.0-1.0-10 Safety, including personnel and equipment;

10.2.2.0-1.0-11 Hazardous material issues associated with the operation and care of the ISS-S, including the required procedures for handling and disposing of such materials;

10.2.2.0-1.0-12 Tools used for User maintenance; and

10.2.2.0-1.0-13 References to Technical Manual(s) (i.e. OEM COTS/Military Off The Shelf (MOTS) pubs required to do in-depth corrective maintenance).

10.2.2.0-2 The UM must be organized in the following manner:

10.2.2.0-2.0-1 The initial front sheets must contain:

10.2.2.0-2.0-1.0-1 Summation of all WARNING text contained in the document;

10.2.2.0-2.0-1.0-2 Summation of all CAUTION text contained in the document;
10.2.2.0-2.0-1.0-3 "Safety Data" table containing a summation of all safety related issues;
10.2.2.0-2.0-1.0-4 Table of Contents;
10.2.2.0-2.0-1.0-5 List of Figures;
10.2.2.0-2.0-1.0-6 List of Tables; and
10.2.2.0-2.0-1.0-7 How To Use This Manual (general description of the manual organization etc.).

10.2.2.0-2.0-2 Chapter 1 General Information

10.2.2.0-2.0-2.0-1 This chapter must include the following:
10.2.2.0-2.0-2.0-1.0-1 Equipment name and model numbers;
10.2.2.0-2.0-2.0-1.0-2 Purpose of equipment;
10.2.2.0-2.0-2.0-1.0-3 Manufacturer;
10.2.2.0-2.0-2.0-1.0-4 Nomenclature cross reference table (if required);
10.2.2.0-2.0-2.0-1.0-5 List of abbreviations; and
10.2.2.0-2.0-2.0-1.0-6 Picture of figure of the ISS-S.

10.2.2.0-2.0-3 Chapter 2 Equipment Description

10.2.2.0-2.0-3.0-1 This chapter must include the following:
10.2.2.0-2.0-3.0-1.0-1 General Characteristics: weight, dimensions, size, performance etc.; and
10.2.2.0-2.0-3.0-1.0-2 Description of ISS-S components: insert a picture of the ISS-S with a table and an itemized listing of all components contents cross-referenced with the photo contents. Each itemized item must then be described at a high level.

10.2.2.0-2.0-4 Chapter 3 Operating Instructions

10.2.2.0-2.0-4.0-1 This chapter must include the following:
10.2.2.0-2.0-4.0-1.0-1 Operating instructions for the various contents that comprise the ISS-S;
10.2.2.0-2.0-4.0-1.0-2 Tables showing operating modes vis-à-vis applicable equipment settings and remarks; and
10.2.2.0-2.0-4.0-1.0-3 Figures or photos to aid with the operation description (when necessary).

10.2.2.0-2.0-5 Chapter 4 Equipment Set-Up and Interconnection Procedures

10.2.2.0-2.0-5.0-1 This chapter must include the following:
10.2.2.0-2.0-5.0-1.0-1 Details of how equipment is to be assembled/mounted for use for all configurations; and
10.2.2.0-2.0-5.0-1.0-2 Figures or photos to aid in procedure description (when necessary).

10.2.2.0-2.0-6 Chapter 5 ISS-S Troubleshooting Procedures

10.2.2.0-2.0-7 Chapter 6 ISS-S User Maintenance and Cleaning

10.2.2.0-2.0-8 Removal and Installation of Parts

10.2.2.0-2.0-9 Index

10.3 Technical Manuals

10.3.0-1 In order to minimize cost, the Contractor must make use of existing commercial or foreign government COTS/MOTS technical manual(s) for the specific sub-systems or component that make up the ISS-S. The Contractor must link the technical manual(s) to the UM.

10.3.0-2 All technical publications provided as existing commercial or foreign government off-the-

shelf manuals must be in both English and French, in one of the following formats: two (2) columns, facing pages or separate publication issues. They must meet the requirements of the current issue of C-01-100-100/AG-005.

10.3.0-3 If either the English or the French version is not available, the Contractor is responsible to translate into the second language and provide in commercial format. The contractor must certify that the technical content of the translated version is technically accurate. Certificates must be provided to this effect.

10.3.0-4 The rights that the Crown / DND has been granted under the Terms and Conditions of the applicable contract must be clearly marked on the front matter of the Publication.

10.4 Newly written DND Manuals

10.4.0-1 All new publications must be produced in both English and French.

10.4.0-2 The selected format must be in accordance with the current issue of C-01-100-100/AG-006. The contractor must certify that the technical content of the translated version is technically accurate.

10.4.0-3 The Contractor must validate the final English version of the Canadian Forces Technical Orders (CFTOs) for technical accuracy, appropriate security classification/designation and health and safety related issues (HAZMAT, WHMIS etc.).

10.4.0-4 The validated English language manuals must be available for Initial Cadre Training (ICT).

10.5 Delivery

10.5.0-1 A QRG must be issued with each ISS-S.

10.5.0-2 A UM must be issued with each ISS-S.

10.5.0-3 Technical manual(s) required to do advanced maintenance must be issued to maintenance facilities.

10.5.0-4 For each final publication produced or amended the Contractor must provide master read only files. Using the completed Master Document file(s), the Contractor must provide a Portable Document Format (PDF) file that must contain the complete publication (with changes incorporated as applicable). This file(s) is considered the "Master Read Only" file for printing/reproduction/viewing purposes. All pages contained in the PDF file must be oriented such that they do not require rotation when viewing. This file must contain "thumbnails" of each of the pages. The Master Read Only File is not a replacement for the Master Document files or the Master Image files. The Contractor must ensure that a quality check is done on the Read Only (PDF) file to verify that the content reflects the same content/formatting as the Master Document file and the Reproducible copy. The requirements for hyperlinks within the Read Only File must be specified on the individual task or tasks. In the case of changes, a second PDF file that contains only the changed sheets is also required.

10.5.0-5 The Contractor must provide the electronic files on CD-ROM written in accordance with ISO 9660. Files must not be compressed or zipped other than as specified herein. The CD-ROM must be clearly labelled with the NDID number, publication title, corresponding file number(s) and type, Contract number and task or requisition number.

10.5.0-6 Where applicable, the electronic files and hard copy technical publications must be delivered simultaneously.

10.5.0-7 For the English draft and the English Validated manuals, the Contractor must provide a soft copy in either MS Word or PDF format.

10.6 Official Languages

10.6.0-1 All bilingual technical publications must meet the official language requirements following the guidelines of A-LM-505-010/JS-001, Official Languages Requirements for Technical Documentation. All changes to bilingual publications must be translated and issued simultaneously.

10.6.0-2 The language quality of the translation must be consistent with and equivalent to the source text and must be suited to the typical user/technician's ability in the language (Refer to C-01-100-100/AG-006).

10.6.0-3 The Contractor must subject all translated material to the Translation Accuracy Check (TAC) process prior to the production of reproducible copy.

10.6.0-4 TAC must be carried out at the Contractor's facility.

10.6.0-5 The Contractor must be responsible for TAC when signing the Certificate of TAC, certifying the accuracy of the translated text.

10.7 Certificates

10.7.0-1 Technical Publications must be accompanied by the following Certificates of Compliance (refer to C-01-100-100/AG-006, part 12, section 2):

10.7.0-1.0-1 Validation (DND 590) for submission to the TA;

10.7.0-1.0-2 TAC;

10.7.0-1.0-3 Reproducible Copy (DND 642); and

10.7.0-1.0-4 Compliance (DND 591).

10.8 Cover Page

10.8.0-1 The Contractor must insert a CFTO cover page on all publications whether existing, revised or new.

3.8 DID LS-008 Training Courses

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Training Courses		2 Data Item Number LS-008
3 Description / Purpose 3.0-1 The training documentation will be used by the Contractor to support the delivery of the ICT serials. It will also be used subsequently by DND to support the courseware development of post ICT training within DND. It is expected that training documentation (courseware) will already have been developed for existing customers.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Training Courses must conform to the following standards as per the requirements below: 7.0-1.0-1 A-P9-050-000/PT-001 CFITES, Volume 1 - Introduction/Description 7.0-1.0-2 A-P9-050-000/PT-005 CFITES, Volume 5 - Development of Instructional Programmes 7.0-1.0-3 A-P9-050-000/PT-004 CFITES, Volume 4 - Design of Instructional Programmes		
8 Originator PMO ISSP ILSM		9 Applicable Forms N/A
10 Preparation Instructions 10.1 General 10.1.0-1 The Courses, standards, lesson plans must comply with standard A-P9-050-000/PT-001. 10.2 Format 10.2.0-1 The Course Material must conform to CFITES Format and Content requirements A-P9-050-000/PT-005. 10.3 Content 10.3.0-1 For each course, produce: 10.3.0-1.0-1 Performance Objectives (POs) and Enabling Objectives; 10.3.0-1.0-2 Training Standards and Plans; 10.3.0-1.0-2.0-1 Performance Statement; 10.3.0-1.0-2.0-2 Performance Conditions; and 10.3.0-1.0-2.0-3 Performance Standards. 10.3.0-1.0-3 Training Strategy - Derived from the training strategy and its elements described in Chapter 2 of A-P9-050-000/PT-004; 10.3.0-1.0-4 Lesson Specifications; 10.3.0-1.0-4.0-1 Teaching Points; 10.3.0-1.0-4.0-2 Courseware; 10.3.0-1.0-4.0-3 Course Schedule; 10.3.0-1.0-4.0-4 Training documentation including lesson plans, student handouts, course agendas and training references; and 10.3.0-1.0-4.0-5 Evaluation Plans, including testing materials and answer keys. 10.3.0-1.0-5 Training Aids and Materials. The Contractor must list all the necessary equipment, materials, and trainers required for training including all course material, and other associated equipment required to make the training realistic. This must include the following:		

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10.3.0-1.0-5.0-1 QRG. An all encompassing visual schematic diagram that shows all the major components of the ISS and how they relate to each other; and

10.3.0-1.0-5.0-2 Multimedia (e.g. DVD video, PowerPoint) if currently available.

3.9 DID LS-009 Equipment Identification Plate Data and Markings

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Equipment Identification Plate Data and Markings		2 Data Item Number LS-009
3 Description / Purpose 3.0-1 This data is required to obtain design approval for the manufacturing of Equipment Identification Plates.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Equipment Identification Plate Data and Markings must conform to the following standards and specifications as per the requirements below: 7.0-1.0-1 D-02-002-001/SG-001 Canadian Forces Standard - Identification Marking of Canadian Military Property 7.0-1.0-2 MIL-HDBK-454A General Guidelines for Electronic Equipment. 7.0-1.0-3 ANSI/AIM BC4-1999 Linear (One-Dimensional) Bar Code Symbolologies 7.0-1.0-3.0-1 MIL-STD 196 Joint Electronics Type Designation System 7.0-1.0-4 STANAG 2290 Ed 2 NATO Unique Identification of Items		
8 Originator PMO ISSP ILSM		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 This DID is not meant to be restrictive, and may be tailored by the Contractor with the agreement of the DND TA. The resultant document may be prepared in the Contractor's format, and must contain sufficient detail to fully address the information requirements. 10.0-2 The data must be provided in accordance with CF Specification D-02-002-001/SG-001 for the following: 10.0-2.0-1 Prime equipment, spares and electronic components; 10.0-2.0-2 Support equipment (excluding tools); 10.0-2.0-3 Training equipment; and 10.0-2.0-4 Automatic Test Equipment. 10.0-3 Each deliverable item must have a Data Plate. The Data Plate must be manufactured and affixed to the unit in accordance with MIL-HDBK-454A and D-02-002-001/SG-001. The Data Plate must contain the following human readable information: 10.0-3.0-1 Nomenclature (as applicable under MIL-STD 196) or description; 10.0-3.0-2 Short part description; 10.0-3.0-3 Customer purchase order; 10.0-3.0-4 Prime contract number; 10.0-3.0-5 Serial number; 10.0-3.0-6 Manufacturing date; 10.0-3.0-7 Specification number; 10.0-3.0-8 Part number; 10.0-3.0-9 NCAGE;		

10.0-3.0-10 NSN; and

10.0-3.0-11 Bar code.

10.0-4 The data plate must contain a machine readable data complying with the ANSI/AIM BC4-1999, International Symbology Specification - Code 128. The data plate must contain the following with no spaces between:

10.0-4.0-1 The four character Tactical Asset Configuration Information System (TACIS) serial number prefix in Upper Case only: XXXX (to be supplied by the TACIS Project Office); and

10.0-4.0-2 The Serial Number identical to the human readable item above.

10.0-5 In addition, equipment must be labelled with a Unique Identifier in accordance with NATO Standardization Agreement (STANAG) 2290 Edition 2.

3.10 DID LS-010 Sparing Analysis Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Sparing Analysis Report		2 Data Item Number LS-010
3 Description / Purpose 3.0-1 Sparing Analysis is performed to determine the optimum selection, quantity and distribution of spares. This report documents the results of Sparing Analysis.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The Sparing Analysis Report relates to the Maintenance Plan.		
8 Originator PMO ISSP ILSM		9 Applicable Forms N/A
10 Preparation Instructions 10.0-1 This Report must include: 10.1 Format 10.1.0-1 The Sparing Analysis Report must be prepared in the Contractor's format, acceptable to DND, and consistent with EIE requirements. 10.2 Content 10.2.0-1 This Report must include: 10.3 Introduction 10.3.0-1 Purpose 10.3.0-2 Applicable References 10.3.0-3 Definitions and Acronyms 10.4 Method and Rationale 10.4.0-1 Description of Sparing Analysis Model 10.4.0-2 Sparing Analysis Results 10.4.0-2.0-1 For Repairables 10.4.0-2.0-2 For Consumables 10.5 Sparing Analysis Results 10.5.0-1 Maintenance Scenario Data 10.5.0-2 For Repairables in each Line Replaceable Unit 10.5.0-2.0-1 Item Input Data 10.5.0-2.0-2 Results of Sparing Analysis 10.5.0-3 For Consumables 10.5.0-3.0-1 Input Data 10.5.0-3.0-2 Results of Calculations 10.6 Conclusions and Recommendations 10.6.0-1 For each LRU 10.6.0-1.0-1 Recommended buy of Repairables 10.6.0-1.0-2 Recommended buy of Consumables 10.6.0-1.0-3 The recommended buy of Repairables must be broken out as follows: 10.6.0-1.0-3.0-1 Recommended quantity first line; 10.6.0-1.0-3.0-2 Recommended quantity second line; and		

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10.6.0-1.0-3.0-3 Recommended quantity to support training.

3.11 DID LS-011 Supplementary Provisioning Technical Data (SPTD)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Supplementary Provisioning Technical Data (SPTD)	2 Data Item Number LS-011	
3 Description / Purpose 3.0-1 Data is required to uniquely identify, for cataloguing purposes, each item in each provisioning list (that has not already been assigned a NSN).		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The SPTD must include sufficient data to clearly define each item for cataloguing. 10.0-2 The SPTD must include: 10.0-2.0-1 Item Name; 10.0-2.0-2 Reference (Manufacturer's Part) No.; and 10.0-2.0-3 CAGE Code. 10.0-3 The SPTD must include, as applicable: 10.0-3.0-1 Configuration - drawing of item; assembly, wiring or schematic drawing; illustrated parts list; 10.0-3.0-2 Technical specification, including relevant standards; 10.0-3.0-3 Physical characteristics, such as dimensions, tolerances, materials, mandatory processes, surface finish, protective coating; 10.0-3.0-4 Electrical characteristics; 10.0-3.0-5 Performance data, including the environmental and operating conditions under which the item must perform; 10.0-3.0-6 Mounting requirements (if any); 10.0-3.0-7 Special features which contribute to the uniqueness of the item; and 10.0-3.0-8 Commercial catalogue data. 10.0-4 The SPTD must be sequenced in the same order as the provisioning list that it supplements. 10.0-5 The SPTD must include identification of any limitations on the use or publication of any data provided.		

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3.12 DID LS-012 Consumable and Bulk Items List (CBIL)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Consumable and Bulk Items List (CBIL)	2 Data Item Number LS-012	
3 Description / Purpose 3.0-1 This CBIL will be used by the Crown to identify items of consumable hardware, raw materiel and fabricated items required to support the ISS at all lines of maintenance.		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The CBIL conforms to specification D-01-100-214/SF-000. 7.0-2 The CBIL shares information with the Sparing Analysis Report.		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Format 10.1.0-1 The CBIL data must be provided electronically in the format required for input into the automated supply system as defined in D-01-100-214/SF-000. 10.2 Content 10.2-1 The CBIL must include all consumable hardware, raw materiel and fabricated items required. The CBIL must contain the data elements as specified in the RSPL (DID LS-003).		

3.13 DID LS-013 Packaging Data

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Packaging Data	2 Data Item Number LS-013	
3 Description / Purpose 3.0-1 To identify packaging requirements for items to be shipped to or stored at a Crown facility (such as spare parts, bulk items, special tools and test equipment, support equipment, and training equipment)		
4 Approval Date June 2011	5 OPI PMO ISSP ILSM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP ILSM	9 Applicable Forms N/A	
10 Preparation Instructions 10.1 Format 10.1.0-1 The Packaging Data must be provided in electronic form suitable for entry into the DND DRMIS. 10.2 Content 10.2.0-1 The Contractor must provide the following information: 10.2.1 Item Identification 10.2.1.0-1 Item Name; 10.2.1.0-2 Reference (Manufacturer's Part) Number; 10.2.1.0-3 NSCM/CAGE code; 10.2.1.0-4 NSN (if assigned) ; 10.2.2 Packaging Data 10.2.2.0-1 Unit Weight Packed; 10.2.2.0-2 Unit Size Packed (length, width, depth); 10.2.2.0-3 Unit Weight Unpacked; 10.2.2.0-4 Unit Size Unpacked (length, width, depth); 10.2.2.0-5 Unit Pack Cube (cubic dimensions); 10.2.2.0-6 Packaging Code (A, B, C); 10.2.2.0-7 Hazardous Code (Regulated or Non-regulated); 10.2.2.0-8 Special Packaging Instruction; and 10.2.2.0-9 Special Material Content Code. 10.2.2-1 Notes: 1. To reduce the need for redundant data, similar items may be grouped with the same packaging data applying to the group. 2. The Canadian Forces Supply System requires size in meters and weight in kilograms		

4 CONFIGURATION MANAGEMENT

4.1 DID CM-001 Configuration Management Plan (CMP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Configuration Management Plan (CMP)	2 Data Item Number CM-001	
3 Description / Purpose 3.0-1 The Contractor's CMP describes the Contractor's CM program, how it is organized, how it will be conducted, and the methods, procedures and controls used to assure effective configuration identification, change control, status accounting, and audits of the total configuration, including hardware, software and firmware. The principal purpose is to provide the Crown a basis for review, evaluation, and monitoring of the CM program and its proposed components.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The CMP conforms to the following standards: 7.0-1.0-1 DND Standard D-01-002-007/SG-001 Part 5 - Requirements for the preparation of CM Plans 7.0-1.0-2 MIL-STD-973 Configuration Management 7.0-1.0-3 ANSI/EIA 649A National Consensus Standard for CM		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The CMP must provide in one document all policies, procedures, organizational descriptions and scheduled events relating to CM. It must describe the CI or CIs to which it refers, the procedures for CM application, all CM tasks, CM participants and their roles. 10.0-2 The Contractor must continually update (maintain) it's CMP throughout the life of the contract. 10.0-3 The CMP must be prepared in the Contractor's format and must contain the following information: 10.1 Title Page 10.1.0-1 The document must include a title page containing, as applicable: document number; volume number; version/revision indicator; security markings or other restrictions on the handling of the document; date; document title; name, abbreviation, and any other identifier for the system, subsystem, or item to which the document applies; Contract number; CDRL item number; organization for which the document has been prepared; name and address of the preparing organization; and distribution statement. For data in a database or other alternative form, this information must be included on external and internal labels or by equivalent identification methods. 10.2 Record of reviews and history 10.3 Table of Contents 10.3.0-1 The document must contain a table of contents providing the number, title, and page number of each titled paragraph, figure, table, and appendix. For data in a database or other alternative form, this information must consist of an internal or external table of contents containing		

pointers to, or instructions for accessing, each paragraph, figure, table, and appendix or their equivalents

10.4 Section 1 - Introduction

10.4.0-1 Purpose and Scope

10.4.0-2 Description of the Configuration Items (CIs)

10.4.0-3 Special Features

10.4.0-3.0-1 Underlying assumptions

10.4.0-3.0-2 Strategy

10.4.0-4 Policies and Standards related to CM

10.4.0-5 Reference Documents

10.4.0-6 Definitions

10.4.0-7 Milestones

10.5 Section 2 - Organization

10.5.0-1 Project management structure

10.5.0-2 CM structure

10.5.0-2.0-1 CM personnel and respective responsibilities

10.5.0-2.0-2 Configuration control board; composition and duties/responsibilities

10.5.0-3 Subcontractor/vendor control;

10.6 Section 3 - Configuration Management Procedures

10.6-1 Configuration identification

10.6-1.0-1 CIs

10.6-1.0-2 Engineering release system

10.6-1.0-3 Engineering release record

10.6-1.0-4 Nomenclature

10.6-1.0-5 Documentation numbering

10.6-1.0-6 Hardware identification

10.6-1.0-7 Firmware identification

10.6-1.0-8 Software identification

10.6-1.0-8.0-1 Developmental configuration identification

10.6-1.0-9 Non-developmental item and commercial off-the-shelf

10.6-1.0-10 Functional baseline (FBL)

10.6-1.0-11 Allocated baseline (ABL)

10.6-1.0-12 Product baseline

10.6-2 Configuration control

10.6-2.0-1 Procedures

10.6-3 Configuration status accounting (CSA)

10.6-3.0-1 CSA capabilities

10.6-3.0-2 Database description

10.6-3.0-3 Database procedures

10.6-3.0-4 Reporting

10.6-4 Configuration audits

10.7 Section 4 - Technical Reviews

10.8 Section 5 - Interface management

10.8.0-1 Documentation

10.8.0-2 Interface Control

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10.9 Section 6 - Technical Data Management

10.9.0-1 TDMP

10.9.0-2 EIE

10.10 Section 7 - Acquisition to OWSS Handover

10.10.0-1 Transition of CM Responsibilities

10.10.0-2 Transfer of Information

10.10.0-3 Transition Plan

4.2 DID CM-002 Engineering Change Proposal (ECP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Engineering Change Proposal (ECP)	2 Data Item Number CM-002	
3 Description / Purpose 3.0-1 Contractor request for authorization to make changes to the approved product baseline.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The ECP must conform to Mil-Std-973 Appendix D.		
8 Originator PMO ISSP CM	9 Applicable Forms Figure 6 to Annex CC, Appendix 2	
10 Preparation Instructions 10.0-1 ECP must be provided using the ECP Template provided with this DID. 10.0-2 The ECP must fully describe and substantiate the engineering change required. 10.1 ECP Template Field Descriptions 10.1.1 DATE 10.1.1.0-1 (YY/MM/DD). Enter the submittal date of the ECP. 10.1.2 PROCURING ACTIVITY 10.1.2.0-1 Project Code. 10.1.3 Block 1 10.1.3.0-1 ORIGINATOR NAME AND ADDRESS. Enter name, address and contact information for Contractor authority submitting the ECP. 10.1.4 Block 2 10.1.4.0-1 CLASS OF ECP. Enter the class of ECP either "Class I" or "Class II". Classifications of changes are determined in accordance with referenced paragraphs in Mil-Std-973: 10.1.4.0-1.0-1 Class I: Subject to Government Approval (Para. 5.4.2.2.1.). 10.1.4.0-1.0-2 Class II: Subject to Government Approval for Classification Only (Para. 5.4.2.4.). Info copy of completed Class II change provided to Canada. 10.1.5 Block 3 10.1.5.0-1 JUSTIFICATION CODE. (Reference Mil-Std-973) 10.1.5.0-1.0-1 B - Interface 10.1.5.0-1.0-2 C - Compatibility 10.1.5.0-1.0-3 D - Deficiency 10.1.5.0-1.0-4 O - Operational or Logistics Support 10.1.5.0-1.0-5 P - Production Stoppage 10.1.5.0-1.0-6 R - Cost Reduction 10.1.5.0-1.0-7 S - Safety 10.1.5.0-1.0-8 V - Value Engineering 10.1.6 Block 4 10.1.6.0-1 PRIORITY. Contractor recommendation for processing: 10.1.6.0-1.0-1 E - Emergency. Vital modification required to rectify a condition which may result in a serious hazard to personnel or equipment, or may seriously compromise national security. ECP to be acted upon within 24 hours.		

10.1.6.0-1.0-2 U - Urgent. Urgent modification required to rectify a condition that results in degraded mission effectiveness. ECP to be acted upon within 5 days.

10.1.6.0-1.0-3 R - Routine. ECP to be acted upon within 30 days.

10.1.7 Block 5

10.1.7.0-1 ECP DESIGNATION. Model/Type. - Enter model or type designation of the CI for which this proposal is being filled out. For CSCIs enter the CSCI identification number.

10.1.7.0-2 CAGE Code. - CAGE Code for the activity originating the ECP.

10.1.7.0-3 System Designation. - The system or the top-level CI designation or nomenclature assigned by DND if known.

10.1.7.0-4 ECP No. - Format "ECP-Y-NNN"

10.1.7.0-4.0-1 Y - C (Contractor) or P (Project Office - Canada) indicating Originator

10.1.7.0-4.0-2 NNN - Serial number unique for each change

10.1.7.0-5 Type - P (Preliminary) or F (Formal)

10.1.7.0-6 Rev - Enter revision indicator to identify version

10.1.8 Block 6

10.1.8.0-1 BASELINE AFFECTED. Place an "X" in the box(es) according to the baseline(s) affected.

10.1.9 Block 7

10.1.9.0-1 OTHER SYS. CONFIG. ITEMS AFFECTED. Enter an "X" in the "yes" or "no" box as applicable to indicate whether there is an effect on other systems or CIs which will require the submittal of related Class I ECPs. Supply details in Blocks 25 and 27.

10.1.10 Block 8

10.1.10.0-1 SPECIFICATIONS AFFECTED. If specifications cited in the contract are affected by the ECP, their identity by the CAGE code of the design activity, document number, revision letter, and the Specification Change Notice (SCN) (or Notice of Revision (NOR)) number of the SCN (or NOR) being submitted with the ECP, must be entered.

10.1.11 Block 9

10.1.11.0-1 DRAWINGS AFFECTED. List all drawings or documents affected by the change. Copies of the drawings showing proposed changes must be submitted with the ECP in order to assess the impact of the change. Attach separate list as required.

10.1.12 Block 10

10.1.12.0-1 TITLE OF CHANGE. Enter a brief title to identify the component or system affected by the change. Include the WEAPON SYSTEM CODE OR DESIGNATION in block 10.a.

10.1.13 Block 11

10.1.13.0-1 CONTRACT No. AND LINE ITEM(S). Insert the contract number and identify reference areas of the contract, annexes, appendices and attachments, line item numbers etc., affected by the change.

10.1.14 Block 12

10.1.14.0-1 PROCURING CONTRACTING OFFICER. Enter the procuring contracting officer's name, code and telephone number applicable to the CI shown in block 13.

10.1.15 Block 13

10.1.15.0-1 CONFIGURATION ITEM NOMENCLATURE. Enter the Government assigned name and type designation, CSCI name and number if applicable, or authorized name and number of the CI(s) affected by the ECP.

10.1.16 Block 14

10.1.16.0-1 IN PRODUCTION. The “yes” box must be marked if deliveries have not been completed on the contract (s). The “no” box must be marked if the deliveries have been completed. This block is not always applicable to software. If not applicable, so indicate.

10.1.17 Block 15

10.1.17.0-1 LOWEST ASSEMBLY AFFECTED. For hardware, an appropriate complete descriptive name of the CI must be given here without resorting to such terms as “Numerous bits and pieces”. The part number must also be entered. Additionally, applicable NSNs must be entered.

10.1.17.0-2 For CSCIs, enter the name and identifier of each lower level CI and computer software unit affected.

10.1.18 Block 16

10.1.18.0-1 DESCRIPTION OF CHANGE. The description of the proposed change must include the purpose and must be given in sufficient detail to adequately describe what is to be accomplished. It must be phrased in definitive language such that, if it is repeated in the contractual document authorizing the change, it will provide the authorization desired. A description as to which part of the item or system is being changed must be provided. Supplemental drawings and sketches must be provided to the extent necessary to clearly portray the proposed change. If the proposed change is an interim solution, it must be so stated. If additional space is needed, use continuation pages for details but provide an overview in this block. Information must be included as to whether the revision is a resubmission, replacing the existing ECP in its entirety, or provides change pages to the existing ECP.

10.1.19 Block 17

10.1.19.0-1 NEED FOR CHANGE. Provide an explanation of the need for the change and indicated the benefit to Canada (enhanced performance, range, reliability, maintainability, etc). The nature of the defect, failure, incident, malfunction, etc. substantiating the need for the change must be provided in detail.

10.1.20 Block 18

10.1.20.0-1 PRODUCTION EFFECTIVITY BY SERIAL NUMBER. For hardware, indicate the estimated date of when change will be incorporated on the production line. Also indicate the planned serial number or lot number of when the change will be implemented.

10.1.20.0-2 For CSCIs, identify the CSCI version number into which the change will be incorporated. Where applicable, the effectivity of the end item CI and vehicle (aircraft, tank, ship, etc.) into which the capability represented by the new version of the software is proposed to be incorporated must also be provided. If the impact of the ECP merits the release of a new software version, Block 18 of the ECP submittal must include a recommendation to this effect. Serial numbers may be used in lieu of version numbers if approved by the appropriate TA.

10.1.21 Block 19

10.1.21.0-1 EFFECT ON PRODUCTION DELIVERY SCHEDULE. Indicated the production delivery schedule for items incorporating the change and identify if the change is a variance from the current established production and delivery schedule. If there will be no effect on the delivery schedule, so state.

10.1.22 Block 20

10.1.22.0-1 RETROFIT. Applicable when the change must be accomplished in accepted items by retrofit.

10.1.22.0-1.0-1 a. RECOMMENDED ITEM EFFECTIVITY. Indicate the lot numbers or serial numbers of the item(s) to be retrofitted as a result of the change.

10.1.22.0-1.0-2 b. SHIP/VEHICLE CLASS AFFECTED. When the delivered CI is installed in one or more ship/vehicle classes, enter the identification of such classes. Not applicable when ECP Short Form procedure is specified by contract.

10.1.22.0-1.0-3 c. ESTIMATED KIT DELIVERY SCHEDULE. State estimated kit delivery schedule by quantity and date. When special tooling for retrofit is required for Government use, reference an enclosure in Block 20.b on which is specified the dates of availability of tools, jigs, and test equipment required in conjunction with the kits to accomplish the change.

10.1.22.0-1.0-4 d. LOCATIONS OR SHIP/VEHICLE NUMBERS AFFECTED. State the location(s) at which retrofit is to be accomplished. If retrofit is to be accomplished in ships (or in vehicles for which the serial numbers are not shown in Block 23), enter the ship hull numbers (or vehicle numbers). Not applicable when ECP Short Form procedure is specified by contract.

10.1.22.0-1.0-5 e. For CSCI'S, this block must apply if the change is part of a hardware or equipment change and implementation of the CSCI change is per a hardware retrofit schedule, or the fielded version of the software is to be replaced. If the CSCI change is part of a larger hardware or equipment change and incorporation of the CSCI change is per a hardware retrofit schedule, that information will be included here either directly or by reference.

10.1.23 Block 21

10.1.23.0-1 ESTIMATED COSTS/SAVINGS UNDER CONTRACT. Indicate the total estimated costs/savings of the ECP on the contract.

10.1.24 Block 22

10.1.24.0-1 ESTIMATED NET TOTAL COSTS/SAVINGS. Indicate the total estimated costs/savings impact on the basic and all related ECPs, including other costs/savings to the Government. Not applicable when ECP short form procedures are specified by contract.

10.1.25 Block 23

10.1.25.0-1 SUBMITTING ACTIVITY AUTHORIZED SIGNATURE. An authorized official of the activity entered in the PROCURING ACTIVITY Block must sign this block and provide title in Block 23b. This indicates the ECP has the official sanction of the submitting activity.

10.1.26 Block 24

10.1.26.0-1 This block is for use by the Government. [Note: The Contract Administration Office will review all engineering changes. It will recommend approval or disapproval of Class I ECPS by marking Block 24.a and completing Block 24.d. It will concur or not concur in the classification of Class II engineering changes by marking Block 24.c accordingly and by completing Block 24.d, e and f. When the Government requires approval of Class II engineering changes prior to contractor implementation, the designated approval activity will mark Block 24.b accordingly and will complete Block 24d. For Class I ECPS, the Government contracting officer will mark Block 24.g accordingly and will complete Blocks 24.h, i and j.

10.1.27 ECP (page 2 of 6)

10.1.27.0-1 EFFECTS ON FUNCTIONAL/ALLOCATED CONFIGURATION IDENTIFICATION. This page is to be completed only if the proposed change affects the system specification or the item development specification(s). If a separate product function specification is used, effects on such specification of changes proposed after the PBL has been established must be described either on Page 3 of the ECP form or on enclosures referenced thereon.

10.1.28 Block 25

10.1.28.0-1 OTHER SYSTEMS AFFECTED. Insert data if Block 7 is checked "yes".

10.1.29 Block 26

10.1.29.0-1 OTHER CONTRACTORS/ACTIVITIES AFFECTED. Identify other contractors or government activities which will be affected by this engineering change.

10.1.30 Block 27

10.1.30.0-1 CONFIGURATION ITEMS AFFECTED. Enter the names and numbers of all CIs, maintenance and operator training equipment, and support equipment affected.

10.1.31 Block 28

10.1.31.0-1 EFFECTS ON PERFORMANCE ALLOCATIONS AND INTERFACES IN SYSTEM SPECIFICATION. Describe the changes in performance allocations and in the functional/physical interfaces defined in the system specification.

10.1.32 Block 29

10.1.32.0-1 EFFECTS ON EMPLOYMENT, INTEGRATED LOGISTICS SUPPORT, TRAINING, OPERATIONAL EFFECTIVENESS OR SOFTWARE. For hardware, describe the effects of the proposed change on employment, deployment, logistics, and/or personnel and training requirements which have been specified in the approved system and/or CI specifications, including any changes or effects on the operability of the system. In particular, there must be an entry detailing any effect on interoperability.

10.1.32.0-2 For CSCIS, the following information must be entered as applicable to the degree of design development of the CSCI at the time of ECP submission:

10.1.32.0-2.0-1 Identify any required changes to the data base parameters or values, or to data base management procedures;

10.1.32.0-2.0-2 Identify and explain any anticipated effects of the proposed change on acceptable computer operating time and cycle-time utilization;

10.1.32.0-2.0-3 Provide an estimate of the net effect on computer software storage; and

10.1.32.0-2.0-4 Identify and explain any other relevant impact of the proposed change on utilization of the system.

10.1.33 Block 30

10.1.33.0-1 EFFECTS ON CONFIGURATION ITEM SPECIFICATIONS. The effect of the proposed change on performance must be described in quantitative terms as it relates to the parameters contained in the CI development specifications.

10.1.34 Block 31

10.1.34.0-1 DEVELOPMENTAL REQUIREMENTS AND STATUS. For hardware, when the proposed engineering change requires a major revision of the development program (e.g., new prototypes, additional design review activity, tests to be reaccomplished), the nature of the new development program must be described in detail, including the status of programs already begun.

10.1.34.0-2 For CSCIS, the contractor must identify the scheduled sequence of computer software design and test activities which will be required. ECPS initiated after preliminary design which affects the FBL and/or the ABL must identify, as appropriate, significant requirements for computer software redesign, recoding, repetition of testing, changes to the software engineering/test environments, special installation, adaptation, checkout, and live environment testing. In addition, the specific impact of these factors on approved schedules must be identified. The impact of the software change on the hardware design and input/output cabling must also be detailed.

10.1.35 Block 32

10.1.35.0-1 TRADE-OFFS AND ALTERNATIVE SOLUTIONS. A summary of the various solutions considered must be included with an analysis showing the reasons for adopting the solution proposed by the ECP.

10.1.36 Block 33

10.1.36.0-1 DATE BY WHICH CONTRACTUAL AUTHORITY IS NEEDED. Enter the date contractual authority will be required in order to maintain established schedule.

10.1.37 ECP (page 3 of 6)

10.1.37.0-1 EFFECTS ON PRODUCT CONFIGURATION IDENTIFICATION, LOGISTICS AND OPERATIONS. Certain information required this page may have been required on pages 1 and 2 or does not apply to computer software. When such information has already been supplied, a cross-reference to such information will be adequate.

10.1.37.0-1.0-1 For hardware, if any specific logistic interoperability factors are affected, the contractor must provide information detailing the possible impact on the operational configuration on an attached page.

10.1.37.0-1.0-2 For CSCIs, the software engineering and test environments are usually not affected by changes in the product configuration of a CSCI. In Block 39, the Contractor must provide information about the status of the software redesign and retesting effort. There must also be a review of the intent of Blocks 37, 38, 42, 43, 44 and 46, to document CSCI impacts in these areas.

10.1.38 Block 34

10.1.38.0-1 EFFECT ON PRODUCT CONFIGURATION IDENTIFICATION OR CONTRACT. The effects on the approved CI product specifications must be described by reference to the SCNs, NORs or other enclosure(s) which cover such proposed text changes in detail. The effects on performance, weight, moment, etc., which are covered in the enclosure(s), must be indexed by proper identification adjacent to the factor affected. The effects on drawings, when not completely covered on Page 1, must be described in general terms by means of a referenced enclosure. Such enclosure may consist of a list of enclosed NORs if submittal of an NOR for each drawing affected is a requirement of the contract. Indicate any technical data submittal which is not provided for in the CDRL by means of a referenced enclosure. Address nomenclature change when applicable.

10.1.39 Block 35

10.1.39.0-1 EFFECT ON INTEGRATED LOGISTICS SUPPORT (ILS) ELEMENTS. The effects of the engineering change on logistic support of the item must be indicated by checking the appropriate boxes. These effects must be explained in detail on an enclosure indexed by appropriate identification adjacent to the subject under discussion. The information required must indicate the method to be used to determine the integrated logistic support plans and items which will be required for the support of the new configuration as well as retrofitting previously delivered items to the same configuration. The following must be covered as applicable:

10.1.39.0-1.0-1 Effects on schedule and content of the ILS plan.

10.1.39.0-1.0-2 Effect on maintenance concept and plans for the levels of maintenance and procedures.

10.1.39.0-1.0-3 LSA tasks to be accomplished and LSA data requiring update wherever it exists in the contract.

10.1.39.0-1.0-4 Extension/revision of the interim support plan.

10.1.39.0-1.0-5 Spares and repair parts that are changed, modified, obsolete or added, including detailed supply data for interim support spares. (Failure to include detailed supply data will delay ECP processing).

10.1.39.0-1.0-6 Revised or new technical manuals.

10.1.39.0-1.0-7 Revised or new facilities requirements and site activation plan.

10.1.39.0-1.0-8 New, revised, obsolete or additional support equipment (SE), test procedures and software. For items of SE and trainers which require change, furnish a cross reference to the related ECPS, and for any related ECP not furnished with the basic ECP, furnish a brief description of the proposed change(s) in SE and trainers.

10.1.39.0-1.0-9 Qualitative and quantitative personnel requirements data which identify additions or deletions to operator manpower in terms of personnel skill levels, knowledge and numbers required to support the CI as modified by the change.

10.1.39.0-1.0-10 New operator training requirements in terms of training equipment, trainers and training software for operator courses. This information must include identification of specific courses, equipment, technical manuals, personnel, etc. required to set up the course at either the contractor or Government facility.

10.1.39.0-1.0-11 Qualitative and quantitative personnel requirements data which identify additions or deletions to maintenance manpower in terms of personnel skill levels, knowledge and numbers required to support the CI as modified by the change.

10.1.39.0-1.0-12 New maintenance training requirements in terms of training equipment, trainers and training software for maintenance courses. This information must include identification of specific courses, equipment, technical manuals, personnel, etc. required to set up the course at either the contractor or Government facility.

10.1.39.0-1.0-13 Any effect on contract maintenance that increases the scope or dollar limitation established in the contract.

10.1.39.0-1.0-14 Effects on packaging, handling, storage, and transportability resulting from changes in materials, dimensions, fragility, inherent environmental or operating conditions.

10.1.40 Block 36

10.1.40.0-1 EFFECT ON OPERATIONAL EMPLOYMENT. The effects of the engineering change of CI utilization must be indicated by checking the appropriate factors and providing details by enclosures. Quantitative values must be used whenever practicable but are required when reliability and service life are impacted. Survivability includes nuclear survivability

10.1.41 Block 37

10.1.41.0-1 OTHER CONSIDERATIONS. The effects of the proposed engineering change on the following must be identified on an enclosure indexed by appropriate identification adjacent to the factor affected:

10.1.41.0-1.0-1 Interfaces having an effect on adjacent or related items (output, input, size, mating connections, etc.)

10.1.41.0-1.0-2 GFE or GFI changed, modified or obsolete.

10.1.41.0-1.0-3 Physical constraints. Removal or repositioning of items, structural rework, increase or decrease in overall dimensions.

10.1.41.0-1.0-4 Software (other than operational, maintenance, and training software) requiring a change to existing code and/or, resources or addition of new software.

10.1.41.0-1.0-5 Rework required on other equipment not included previously which will effect the existing operational configuration.

10.1.41.0-1.0-6 Additional or modified system test procedures required.

10.1.41.0-1.0-7 Any new or additional changers having an effect on existing warranties or guarantees.

10.1.41.0-1.0-8 Changes or updates to the parts control program.

10.1.41.0-1.0-9 Effects on life cycle cost projections for the configuration item or program,

including projections of operation and support costs/savings for the item(s) affected over the contractually defined life and projections of the costs/savings to be realized in planned future production and spares buys of the item(s) affected.

10.1.42 Block 38

10.1.42.0-1 ALTERNATE SOLUTIONS. A summary of the various alternative solutions considered, including the use of revised operation or maintenance procedures, revised inspection or servicing requirements, revised part replacement schedules, etc., must be included. The contractor must provide an analysis of the alternatives, identify the advantages and disadvantages inherent in each feasible alternative approach, and show the reasons for adopting the alternative solution proposed by the ECP. When the contractor's analysis addresses new concepts or new technology, supporting data (to include LSA if contractually required) must be presented with the proposal to authenticate the trade-off analysis.

10.1.43 Block 39

10.1.43.0-1 DEVELOPMENTAL STATUS. When applicable, the contractor must make recommendations as to the additional tests, trials, installations, prototypes, fit checks, etc., which will be required to substantiate the proposed engineering change. These recommendations must include the test objective and test vehicle(s) to be used. The contractor must indicate the development status of the major items of GFE which will be used in conjunction with the change and the availability of the equipment in terms of the estimated production incorporation point.

10.1.44 Block 40

10.1.44.0-1 RECOMMENDATIONS FOR RETROFIT. When applicable, the contractor must make recommendations for retrofit of the engineering change into accepted items with substantiating data, any implications thereto, and a brief description of the action required. Where retrofit is not recommended, an explanation of this determination must be provided. Reference must be made to any enclosure required to state recommended retrofit effectivity (See Block 20a).

10.1.45 Block 41

10.1.45.0-1 WORK-HOURS PER UNIT TO INSTALL RETROFIT KITS. Complete blocks 40.a through 40.d to show the amount of work which must be programmed for various activities to install retrofit kits. Estimate work-hours to install retrofit kits when weapon system is undergoing overhaul.

10.1.46 Block 42

10.1.46.0-1 WORK-HOURS TO CONDUCT SYSTEM TESTS AFTER RETROFIT. Enter the work-hours required to test the system or the item following installation of the retrofit kit.

10.1.47 Block 43

10.1.47.0-1 THIS CHANGE MUST BE ACCOMPLISHED. Where previously approved engineering changes must be incorporated in a specific order in relation to the proposed change, such order must be specified.

10.1.48 Block 44

10.1.48.0-1 IS CONTRACTOR FIELD SERVICE ENGINEERING REQUIRED? Check applicable box. If "yes", attach proposed program for contractor participation.

10.1.49 Block 45

10.1.49.0-1 OUT OF SERVICE TIME. Estimate the total time period from removal of the equipment from operational service until equipment will be returned to operational status after being retrofitted.

10.1.50 Block 46

10.1.50.0-1 EFFECT OF THIS ECP AND PREVIOUSLY APPROVED ECPs ON ITEM. The contractor must summarize the cumulative effect upon performance, weight, electrical load, etc., of this ECP and previously approved ECPS when design limitations are being approached or exceeded. Consequences of ECP disapproval may be stated in this block or in a referenced enclosure.

10.1.51 Block 47

10.1.51.0-1 DATE CONTRACTUAL AUTHORITY NEEDED FOR. The contractor must provide the date by which contractual authority to proceed is needed to maintain the estimated effectiveness specified in the ECP and to provide concurrent ILS and logistics support item deliveries. The contractor must consider the targets for decision allowing additional time for review, mailing, and other incidental handling and processing requirements.

10.1.52 ECP (page 4 of 6)

10.1.52.0-1 Page 4 is intended as the summary of the estimated net total cost/savings impact of a single ECP. In blocks 48.a through d, each cost factor associated with the ECP must be considered as to whether such cost or portion thereof under the subject contract is recurring or nonrecurring. Enter cost/savings in columns 1 and 4, as applicable, using entries in the “unit” and “quantity” columns when appropriate. Savings must be enclosed with parentheses. Other costs/savings to the Government resulting from approval of this ECP must be entered in column 6 to the extent these costs can be determined by the contractor. This estimate of cost impact will be used for planning purposes and for a cost reduction or VE ECP analysis as to the net saving that would result. Firm cost proposals must be submitted, together with the appropriate cost breakdown.

10.1.53 Block 48

10.1.53.0-1 ESTIMATED NET TOTAL COST IMPACT. (Use parentheses for savings).

10.1.53.1 Block 48.a

10.1.53.1.0-1 PRODUCTION COSTS/SAVINGS. Enter the estimate of costs/savings applicable to production of the CI resulting from incorporation of the change. Show redesign costs for the CI at the line titled “engineering, engineering data revisions” when the item is in production. Enter the projected life cycle costs/savings applicable to the planned production and spares buys of the item that are not yet on contract on the CONFIGURATION ITEM/CSCI line in column 6. Enter the subtotal of production costs (both nonrecurring and recurring) in the fifth column.

10.1.53.2 Block 48.b

10.1.53.2.0-1 RETROFIT COSTS. Enter the estimate of costs applicable to retrofit of the item, including installation and testing costs. When Government personnel accomplish, or are involved in, the installation and/or testing activities, the estimated costs must be entered in column 6 on the affected lines. Show design costs of the retrofit kit and data revision costs strictly related to retrofit when the CI is in production; show all redesign and data revision costs when the item is not in production. Costs of modifications required to existing GFE and subsequent testing also must be shown. Enter the subtotal of retrofit costs in the fifth column. If some or all of the retrofit activities and costs will have to be deferred and placed on contract at a future date, show that deferred portion of the cost applicable to each line of Block 51b in column 6.

10.1.53.3 Block 48.c

10.1.53.3.0-1 INTEGRATED LOGISTICS SUPPORT COSTS/SAVINGS. Enter the estimated cost of the various elements of ILS applicable to the item covered by the ECP. On the line titled “interim support,” estimated costs must be entered based upon the period of time between initial installation/operation of the item (aircraft, tank, etc.) as modified by the ECP and Government

attainment of support capability. Such “interim support” costs must include costs estimates of contractor recommended/provided spares and repair parts, special support equipment, training equipment and personnel training program. On the line titled “maintenance manpower” must be entered the estimated costs/ savings for the contracted maintenance support for the remainder of existing maintenance contracts. Enter the subtotal of ILS costs/savings in column 5. Enter the operation and support portion of the life cycle cost/savings on the subtotal line in column 6.

10.1.53.4 Block 48.d

10.1.53.4.0-1 OTHER COSTS/SAVINGS. If there are other costs under the contract which do not fall under the production, retrofit or ILS headings, enter the total of such costs in Block 48.d, column 5. If there are other costs to the Government which do not fall under the production, retrofit or ILS headings or under Block 48.g, “coordination changes by Government”, enter the total of such costs in Block 48.d, column 6.

10.1.53.5 Block 48.e

10.1.53.5.0-1 SUBTOTAL COSTS/SAVINGS. Enter the subtotals of columns 1, 4, 5, and 6 on this line. The subtotal in column 5 must be the sum of columns 1 and 4. This subtotal under the contract then must be entered on the line so titled in column 6 and on Page 1, Block 21.

10.1.53.6 Block 48.f

10.1.53.6.0-1 COORDINATION OF CHANGES WITH OTHER CONTRACTORS. This term applies to interface changes to items other than GFE, and changes to GFE being covered under 48.b. If such coordination changes are covered by related ECPs, the estimated costs thereof must be entered in Block 48.f, when available.

10.1.53.7 Block 48.g

10.1.53.7.0-1 COORDINATION CHANGES BY GOVERNMENT. Enter in this block an estimate of the cost to the Government of interface changes which must be accomplished in delivered items (aircraft, ships, facilities, etc.) to the extent such costs are not covered in Block 48.b.

10.1.53.8 Block 48.h

10.1.53.8.0-1 ESTIMATED NET TOTAL COSTS/SAVINGS. Enter the sum of all costs/savings in column 6 and block 22 on page 1.

10.1.54 ECP (HARDWARE) (page 5 of 6)

10.1.54.0-1 Required only with hardware related ECPs.

10.1.55 Block 49

10.1.55.0-1 MILESTONE CHART. Enter the symbols (see legend on form), as appropriate for the activity, to show the time phasing of the various deliveries of items, support equipment, training equipment, and documentation incorporating the basic and related ECPS. Enter other symbols and notations to show the initiation or termination of significant actions. All dates are based upon months after contractual approval of the basic ECP.

10.1.56 ECP (SOFTWARE) (page 6 of 6)

10.1.56.0-1 Required only with software related ECPs.

10.1.57 Block 50

10.1.57.0-1 MILESTONE CHART. Enter the symbols (See legend on form.) , as appropriate for the activity, to show the time phasing of the various deliveries of items, training equipment and documentation incorporating the basic and related ECPs . Enter other symbols and notations to show the initiation or termination of significant actions. All dates are based upon months after contractual approval of the basic ECP.

RFP - N° de la DP
W8476-112965/B

Amendment No. - N° de la modif.

Buyer ID - Id de l'acheteur
004RA

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

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

Volume 2, Annex CC, Appendix 2

4.3 DID CM-003 Notice of Revision (NOR)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Notice of Revision (NOR)	2 Data Item Number CM-003	
3 Description / Purpose 3.0-1 A NOR depicts changes that must be made to technical documentation (drawings, associated lists, or other applicable documents) controlled by another contractor or Government agency following approval of an ECP. 3.0-2 A NOR is used to direct the custodian of each drawing, associated list, or other applicable document(s) to make the required documentation changes.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The NOR follows the approval of an ECP. 7.0-2 The NOR must conform to Mil-Std 973, Appendix G.		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 Format and Content - Contractor format is acceptable. Content must be in accordance with Appendix G of MIL-STD-973. 10.0-2 The NOR must fully describe the changes. 10.0-3 The following information must be included and detailed: 10.1 Block 1 10.1.0-1 Date. Enter the submittal date of the NOR. Normally this date will be identical to the ECP submittal date. 10.2 Block 2 10.2.0-1 Procuring activity number. 10.3 Block 3 10.3.0-1 DODAAC. 10.4 Block 4 10.4.0-1 Originator name and address. Enter the name and address of the activity submitting the proposed NOR. 10.5 Block 5 10.5.0-1 CAGE code. Enter the originator's CAGE code of the design activity for the drawing/document identified in Block 8. 10.6 Block 6 10.6.0-1 NOR number. The originator must either assign a number or enter the document number and new revision letter as the NOR number. When the requirement in the contract identifies the NOR by ECP number, the originator must attach a dash number (i.e., xxx-I). 10.7 Block 7 10.7.0-1 CAGE code. Enter the CAGE code of the activity whose NOR number is assigned. 10.8 Block 8 10.8.0-1 Document number. Enter the number of the drawing, standard, list or other document(s) to be revised.		

10.9 Block 9

10.9.0-1 Title of document. Enter the title of the document to which the NOR applies.

10.10 Block 10

10.10.0-1 Revision letter.

10.10.1 Block 10.a

10.10.1.0-1 Current. Show the existing revision of the document for which the NOR is prepared.

10.10.2 Block 10.b

10.10.2.0-1 New. Show the revision letter proposed for the revision covered by the NOR. Usually the new letter will be the one following the current letter in alphabetical sequence, unless there are known outstanding NORs which may not have been incorporated.

10.10.2.0-2 NOTE: The Government may change the new revision letter proposed by the contractor in order to retain a proper sequence of approved revisions.

10.11 Block 11

10.11.0-1 ECP number. Enter the number of the ECP describing the engineering change which necessitates the document revision covered by this NOR.

10.12 Block 12

10.12.0-1 Configuration Item (or system) to which ECP applies. Enter Government assigned system designation (if any); otherwise, enter the name and type designation of the CI to which the ECP applies (see Blocks 8a, 8c and 16 on ECP).

10.13 Block 13

10.13.0-1 Description of revision. Describe the revision in details, giving the exact wording of sentences or paragraphs that are to be added, or that are to replace designated sentences or paragraphs of the current document. State the dimensions, tolerances and other quantitative requirements that are to replace current requirements. Attach a marked print when necessary to clearly explain the desired revision. Use a "From - To" format in the description of the change. If additional space is needed, use continuation pages.

10.14 Block 14

10.14.0-1 Section for Government use only.

10.14.1 Block 14.a

10.14.1.0-1 Document status. The Government approving activity will enter an "X" in the first box if manufacturer may proceed using the existing document as modified by this NOR. If SO, a copy of the approved NOR will be furnished both to the contractor submitting the ECP and to the custodian of the master document. The Government approving activity will enter an "X" in the second box if the contractor is not authorized to incorporate the change proposed by the submitted NOR until receipt of the revised document. The Government approving activity will enter an "X" in the third box directing the custodian to make the change and distribute copies of the revised document. The distribution list may be entered in Block 14, on a referenced enclosure, or in a letter of transmittal.

10.14.2 Block 14.b

10.14.2.0-1 Activity authorized to approve change. The name of the activity authorized to approve the ECP and the associated NORs for the Government will be entered by such activity.

10.14.3 Blocks 14.d., 14.e. and 14.f

10.14.3.0-1 Title, signature and date. If the referenced ECP is approved and the NOR also is approved as written or corrected, an authorized representative of the Government approving activity will sign in this block, including entry of the date of approval

10.15 Block 15

10.15.0-1 Activity.

10.15.1 Block 15.a

10.15.1.0-1 Activity accomplishing revision. The name of the activity (custodian) that is directed to make the revision in the master document will be entered by the approving activity.

10.15.2 Blocks 15.b. and 15.c

10.15.2.0-1 Revision completed and date. An authorized representative of the custodian must sign in this block to certify that the revision described by the NOR has been accomplished, including entry of the date of the accomplishment. The signed original must be returned to the Government or held by the activity that maintains the master document.

4.4 DID CM-004 Software Version Description Document (SVDD)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Software Version Description Document (SVDD)	2 Data Item Number CM-004	
3 Description / Purpose 3.0-1 The SVDD identifies and describes a software version comprising one or more CSCIs. It is used to release, track and control software versions. The SVDD is applicable to the initial release of software, subsequent Block Changes or releases, as well as any site-specific variants of the software.		
4 Approval Date June 2011	5 Office of Primary Interest (OPI) PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The SVDD must be prepared in the Contractor's format. 10.0-2 This document must be updated and resubmitted upon new software release of the related CSCI. 10.0-3 The SVDD must contain the following: 10.1 Title Page 10.1.0-1 The document must include a title page containing, as applicable: document number; volume number; version/revision indicator; security markings or other restrictions on the handling of the document; date; document title; name, abbreviation, and any other identifier for the system, subsystem, or item to which the document applies; Contract number; CDRL item number; organization for which the document has been prepared; name and address of the preparing organization; and distribution statement. For data in a database or other alternative form, this information must be included on external and internal labels or by equivalent identification methods. 10.2 Record of reviews and history 10.3 Table of contents 10.3.0-1 The document must contain a table of contents providing the number, title, and page number of each titled paragraph, figure, table, and appendix. For data in a database or other alternative form, this information must consist of an internal or external table of contents containing pointers to, or instructions for accessing, each paragraph, figure, table, and appendix or their equivalents. 10.4 Scope 10.4.0-1 This section must be divided in the following paragraph: 10.4.0-1.0-1 Identification. This paragraph must contain a full identification of the system and the software to which this document applies, including, as applicable, identification number(s), title(s), abbreviation(s), version number(s), and release number(s). 10.4.0-1.0-2 System Overview. This paragraph must briefly state the purpose of the system and the software to which this document applies. It must describe the general nature of the system		

and software; summarize the history of system development, operation, and maintenance, developer and support agencies; and list other relevant documents.

10.4.0-1.0-3 Document Overview. This paragraph must summarize the purpose and contents of this document and must describe any security or privacy considerations associated with its use.

10.5 Referenced Documents

10.5.0-1 This section must list the number, title, revision, and date of all documents referenced in this document. This section must also identify the source for all documents not available through normal Government stocking activities.

10.6 Version Description

10.6.0-1 This section must be divided into the following paragraphs.

10.6.0-1.0-1 Inventory of Materials Released. This paragraph must list by identifying numbers, titles, , version numbers, and release numbers, as applicable, all physical media (for example, listings, tapes, disks) and associated documentation that make up the software version being released. It must include applicable security and privacy considerations for these items, safeguards for handling them, such as concerns for static and magnetic fields, and instructions and restrictions regarding duplication and license provisions.

10.6.0-1.0-1.0-1 Media. This paragraph must describe the media on which the released version of the CSCI has been stored. It must state the number of copies that have been produced and provide information on the media identification.

10.6.0-1.0-1.0-2 Support. This paragraph must identify the hardware and software tools, either commercial off the shelf or developed, needed for the generation and maintenance of the software (compiler, environment, etc) and for the installation of the executable on the target system (hardware, environment, etc). This paragraph must also describe the step by step procedure to build the executable program or refer to an external document in which the build procedure is described.

10.6.0-1.0-2 Inventory of Software Contents. This paragraph must list by identifying numbers, titles, abbreviations, dates, version numbers, and release numbers, as applicable, all computer files that make up the software version being released. Any applicable security and privacy considerations must be included.

10.6.0-1.0-3 Changes Installed. Describe the changes, which have been implemented in the current software version, as compared to the previous one. This may include both enhancements as well as fault fixes. This paragraph must identify, as applicable, the problem reports, change proposals, and change notices associated with each change. This paragraph is not applicable to the initial release of software.

10.6.0-1.0-4 Target Platform Configuration. Specify the required configuration of the target platform before this software version can be installed and executed, or reference a hardware specification document.

10.6.0-1.0-5 Adaptation Data. For the initial software release, describe the site-specific data or customizations featured in this version of the software, corresponding to the target platform above. For subsequent releases, describe any changes to the site-specific data.

10.6.0-1.0-6 Interface Compatibility. This paragraph must indicate other systems and CSCIs affected by the changes incorporated in this version. It must also indicate which version(s) of the interfaced CSCI(s) is (are) compatible with the current version of the software.

10.6.0-1.0-7 Related Documents. List any other documents, which are applicable to the software version being released, but which are physically not included in this release. Indicate the

document titles, document numbers, version numbers, version dates, and publication source.

10.6.0-1.0-8 Summary of Changes. This paragraph must describe the operational effect, if any, of the changes listed in 3.3 above.

10.6.0-1.0-9 Installation Instructions. This paragraph must provide or reference the following information, as applicable.

10.6.0-1.0-9.0-1 Instructions for installing the software version.

10.6.0-1.0-9.0-2 Identification of other changes that have to be installed for this version to be used, including site-unique adaptation data not included in the software version.

10.6.0-1.0-9.0-3 Security, privacy, or safety precautions relevant to the installation.

10.6.0-1.0-9.0-4 Procedures for determining whether the version has been installed properly.

10.6.0-1.0-9.0-5 Point-of-contact in case difficulties are encountered with the software installation.

10.6.0-1.0-10 Possible Problems and Known Errors. This paragraph must identify any possible problems or known errors with the software version at the time of release, any steps being taken to resolve the problems or errors, and instructions (either directly or by reference) for recognizing, avoiding, correcting, or otherwise handling each one. The information presented must be appropriate to the intended recipient of the SVDD (for example, a user agency may need advice on avoiding errors, a support agency on correcting them).

10.7 Supplementary Notes

10.7.0-1 Any additional information about the software version, which may facilitate installer or user understanding (e.g. acronyms, definitions, background information, and rationale).

4.5 DID CM-005 Equipment Breakdown Structure (EBS)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Equipment Breakdown Structure (EBS)	2 Data Item Number CM-005	
3 Description / Purpose 3.0-1 The EBS defines the system and is comprised of a list and a pictorial representation of the system decomposition down to its lowest CI, including the identification of each item. The EBS also identifies the associated product baseline data and documents, including drawings for each item. 3.0-2 It can be developed as a physical breakdown of the components and be presented in the format of a family tree. 3.0-3 The EBS provides the breakdown structure of the equipment for purposes of: 3.0-3.0-1 Identifying the candidate items or maintenance significant items for logistics analyses; and 3.0-3.0-2 Identifying CIs as detailed in the CMP.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The EBS must conform to DND Standard D-01-002-007/SG-006 Criteria for selection of Configuration Items. 7.0-2 The EBS must be consistent with the Maintenance Plan. 7.0-3 The EBS must encompass the ISS-S requirements in Appendix 1 to Annex CB of the ASOW.		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The Contractor must provide an EBS in the Contractor's format and must contain the following information: 10.0-1.0-1 Title Page. 10.0-1.0-2 Revision Record. 10.0-1.0-3 Table of Contents. 10.0-2 EBS - list and provide a pictorial representation of the system decomposition down to the CI level, including identification of each item, the associated product baseline data and documents, including drawings for each item. A family tree format can be used. 10.0-2.0-1 The EBS must clearly define down to the lowest repairable assembly the relationship of the ISS items which combine to perform the same function. 10.0-2.0-2 The EBS must identify all LRUs, as determined by the Contractor and consistent with DID LS-005 Maintenance Plan. The LRUs identified must completely encompass all of the requirements of the ISS-S as detailed in the TPS of Appendix 1 to Annex CB to Volume 2. 10.0-2.0-3 The EBS must clearly define down to the Lowest Replaceable Unit (LoRU) the relationship of the ISS items which combine to perform the same function. 10.0-3 Common Configuration List (if applicable) - The Contractor must list those items of common configuration as identified in the ISS-S EBS. This list will be used by the TA to rationalize test requirements for the ISS-S and to identify common repair parts that were procured during the ISS program.		

4.6 DID CM-006 Request for Deviation (RFD)/Request for Waiver (RFW)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Request for Deviation (RFD)/Request for Waiver (RFW)	2 Data Item Number CM-006	
3 Description / Purpose 3.0-1 A RFD describes a proposed (prior to manufacture) departure from configuration documentation for a specific number of units or for a specified period of time. A RFD enables the Crown to determine the impact on performance, operational readiness, logistics support or other affected areas. Normally, for the units affected, the different configuration will be permanent. 3.0-2 A RFW is used to obtain authorization to deliver non-conforming material which does not meet the prescribed configuration documentation but is suitable for use "as is" or after repair. A RFW enables the Crown to evaluate and authorize acceptance of an item not conforming to contractual requirements.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The RFD and RFW must conform to MIL-STD 973 Appendix E.		
8 Originator PMO ISSP CM	9 Applicable Forms Figure 7 to Annex CC, Appendix 2	
10 Preparation Instructions 10.0-1 Format and Content - Contractor format is acceptable. Content must be in accordance with Appendix E of MIL-STD-973. 10.0-2 The RFD/RFW must fully describe and substantiate the request. 10.1 RFD/RFW Template Field Descriptions 10.1.1 Block 1 10.1.1.0-1 DATE (YY/MM/DD). Enter the submittal date of the RFD/RFW. 10.1.2 Block 2 10.1.2.0-1 Procuring Activity Number. 10.1.3 Block 3 10.1.3.0-1 Department of Defense Activity Address Code (DODAAC). Enter the DODAAC of the procuring activity. 10.1.4 Block 4 10.1.4.0-1 Originator name and address. Enter name, address and contact information for authority submitting the RFD/RFW. 10.1.5 Block 5 10.1.5.0-1 DEVIATION or WAIVER. Enter an "X" in the appropriate box. 10.1.6 Block 6 10.1.6.0-1 CLASSIFICATION: Enter an "X" in the appropriate box. 10.1.6.0-1.0-1 Minor: The deviation / waiver consists of a departure which does not involve the factors listed for Major or Critical. 10.1.6.0-1.0-2 Major: The deviation / waiver consists of a departure involving (a) health, (b) performance, (c) interchangeability, reliability, survivability, maintainability, or durability of the item or its repair parts; (d) effective use or operation; (e) weight and size; or (6) appearance		

(when a factor).

10.1.6.0-1.0-3 Critical: The deviation / waiver consists of a departure involving safety.

10.1.7 Block 7

10.1.7.0-1 Designation for DEVIATION / WAIVER

10.1.7.0-1.1 Block 7.a

10.1.7.0-1.1.0-1 Model/Type. Enter model or type designation of the CI for which this request is being submitted. For CSCIs, enter the CSCI identification number.

10.1.7.0-1.2 Block 7.b

10.1.7.0-1.2.0-1 CAGE Code. Enter the CAGE code for the activity originating the deviation/waiver.

10.1.7.0-1.3 Block 7.c

10.1.7.0-1.3.0-1 System designation. The system or top level CI designation or nomenclature assigned by the Government must be entered, if known.

10.1.7.0-1.4 Block 7.d

10.1.7.0-1.4.0-1 Deviation/Waiver number.

10.1.7.0-1.4.0-1.0-1 No. - Format "AAA-Y-NNN"

10.1.7.0-1.4.0-1.0-2 AAA = RFD or RFW (Deviation or Waiver)

10.1.7.0-1.4.0-1.0-3 Y = C (Contractor) or P (Project Office - Gov) indicating Originator.

10.1.7.0-1.4.0-1.0-4 NNN = Serial number unique for each Request

10.1.8 Block 8

10.1.8.0-1 Configuration baseline affected. Check the applicable box for the affected baseline.

10.1.9 Block 9

10.1.9.0-1 Other system/configuration affected. Check applicable box. If yes, provide summary data in block 20.

10.1.10 Block 10

10.1.10.0-1 TITLE OF DEVIATION / WAIVER. Enter a brief descriptive title of the deviation or waiver.

10.1.11 Block 11

10.1.11.0-1 CONTRACT NUMBER AND LINE ITEM. Insert the contract number and identify reference areas of the Contract, Annexes, Appendices and Attachments, Line Item Numbers etc. affected by the deviation / waiver.

10.1.12 Block 12

10.1.12.0-1 PROCURING CONTRACT OFFICER. Enter the name and Phone number for the Contractor's procuring contract officer applicable to the item(s) in Block 9.

10.1.13 Block 13

10.1.13.0-1 Configuration item nomenclature. Enter the Government assigned name and type designation, if applicable, or authorized name and number of the CI to which the deviation or waiver will apply.

10.1.14 Block 14

10.1.14.0-1 Classification of Defect (CD).

10.1.14.1 Block 14.a

10.1.14.1.0-1 CD number. Enter the CD # assigned if applicable.

10.1.14.2 Block 14.b

10.1.14.2.0-1 Defect number. If a CD applies, enter the defect number (s) which correspond(s) with the characteristic(s) from which an authorized deviation or waiver is desired.

10.1.14.3 Block 14.c

10.1.14.3.0-1 Defect classification. If a CD applies, check the box which states the proper classification of the defect number (s) entered in block 14.b.

10.1.15 Block 15

10.1.15.0-1 Name of lowest part/assembly affected. Give an appropriate descriptive name of the part (s) without resorting to such terms as "Numerous bits and pieces".

10.1.16 Block 16

10.1.16.0-1 Part number or type designation. Enter the part number(s) of part(s) named in Block 15 or type designation/nomenclature if applicable.

10.1.17 Block 17

10.1.17.0-1 EFFECTIVITY. If lot numbers have been assigned, enter the number(s) applicable to the lot(s) for which the deviation / waiver is being requested. Lot may also be defined by serial numbers of the affected items.

10.1.18 Block 18

10.1.18.0-1 Recurring deviation/waiver. Show whether the same deviation or waiver has been requested and approved previously by placing an "X" in the proper box. If "yes," reference the previous correspondence, the request number, and corrective action to be taken in Block 24. In addition, if yes, provide rationale why recurrence was not prevented by previous corrective action and/or accomplished design change.

10.1.19 Block 19

10.1.19.0-1 EFFECT ON COST / PRICE. Enter the estimated reduction or price adjustment. If no change, so state with rationale. The request for deviation or waiver must include the specific consideration that will be provided to the Government if this "non-conforming" unit(s) is accepted by the Government.

10.1.20 Block 20

10.1.20.0-1 EFFECT ON DELIVERY SCHEDULE. State the effects on the contract delivery schedule that will result from both approval and disapproval of the request for deviation or waiver.

10.1.21 Block 21

10.1.21.0-1 Effect on integrated logistics support, interface or software. If the deviation / waiver have an impact on integrated logistics support or the interface, describe the effects in an enclosure and reference the enclosure in this block. Attach additional documentation as required and reference those enclosures in the block.

10.1.22 Block 22

10.1.22.0-1 DESCRIPTION OF DEVIATION / WAIVER. Describe the nature of the proposed departure from the technical requirements. Marked drawings for the systems / sub-systems must be included when necessary to provide a better understanding of the deviation / waiver.

10.1.23 Block 23

10.1.23.0-1 NEED FOR DEVIATION / WAIVER. Provide an explanation of why it is impossible or unreasonable to comply with the configuration documentation within the specified delivery schedule. Include an explanation why a deviation or waiver is proposed in lieu of a permanent design change.

10.1.24 Block 24

10.1.24.0-1 CORRECTIVE ACTION TAKEN. Describe action being taken to correct non-conformance to prevent a future occurrence.

10.1.25 Block 25

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10.1.25.0-1 SUBMITTING ACTIVITY. Print the name of the individual authorized to submit the Deviation / Waiver and have the Deviation / Waiver signed and dated.

10.1.26 Block 26

10.1.26.0-1 APPROVAL / DISAPPROVAL. To be completed and signed by the Government Authority authorized to make the decision on the acceptance or rejection of the deviation / waiver.

4.7 DID CM-007 Specification Change Notice (SCN)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Specification Change Notice (SCN)	2 Data Item Number CM-007	
3 Description / Purpose 3.0-1 The SCN is used to transmit and record changes to specification(s). The SCN is used to delineate the exact change(s) in a specification that will be distributed to users when the SCN is approved.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The SCN must conform to Mil-Std 973 Appendix F. 7.0-2 The SCN refers to the DLA Cataloguing Handbook H4/H8.		
8 Originator ISSP PMO CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 Format and Content - Contractor format is acceptable. Content must be in accordance with Appendix F of MIL-STD-973. 10.0-2 The SCN must fully describe the changes. 10.0-3 The following information must be included and detailed: 10.0-3.1 Block 1 10.0-3.1.0-1 Date. Enter the submittal date of the SCN. 10.0-3.2 Block 2 10.0-3.2.0-1 Procuring Activity Number. 10.0-3.3 Block 3 10.0-3.3.0-1 DODAAC. 10.0-3.4 Block 4 10.0-3.4.0-1 Originator name and address. 10.0-3.5 Block 5 10.0-3.5.0-1 SCN Type. Indicate by an "X" in the appropriate block if this is a proposed SCN. If the SCN is being submitted to the Government for final technical approval, prior to distribution according to the contract, both blocks must be left blank. The approved block will be marked by the Government upon approval/contractual implementation. 10.0-3.6 Block 6 10.0-3.6.0-1 CAGE Code. Enter the CAGE Code of the design activity for the specification identified in Block 7. DLA Cataloguing Handbook H4/H8 contains these codes. 10.0-3.7 Block 7 10.0-3.7.0-1 Specification Number. Enter the identification number, including revision letter, of the specification being changed. 10.0-3.8 Block 8 10.0-3.8.0-1 CAGE Code. Enter the CAGE code of the activity preparing the SCN. 10.0-3.9 Block 9 10.0-3.9.0-1 SCN Number. Enter the identification number for the SCN being submitted. SCN numbers are issued sequentially for each specification and revision, starting with the number "1".		

10.0-3.10 Block 10

10.0-3.10.0-1 System Designation. Enter the type, model, series (or the nomenclature number) for the system (or major item of equipment, if it is not a system) affected.

10.0-3.11 Block 11

10.0-3.11.0-1 Related ECP number. Enter the complete ECP number (including dash numbers and revisions) that identifies the related engineering change.

10.0-3.12 Block 12

10.0-3.12.0-1 Contract number. Enter the complete contract number(s) affected by this SCN, if applicable.

10.0-3.13 Block 13

10.0-3.13.0-1 Contractual authorization. There must be no entry in this block on a proposed SCN. For the approved SCN only, enter the number of the contract modification document used to contractually implement the change. If a unilateral change order is utilized for initial authorization, its number must be entered in this block.

10.0-3.14 Block 14

10.0-3.14.0-1 Configuration item nomenclature. Enter the nomenclature (name and number) of the CI affected by the change. Normally this will be different than block 10.

10.0-3.15 Block 15

10.0-3.15.0-1 Effectivity.

10.0-3.15.0-1.0-1 For hardware, enter the serial numbers of the items for which this SCN is effective. Usually this will include the applicable production line items plus items approved for a retrofit or modification program.

10.0-3.15.0-1.0-2 For CSCIS, enter the revision or version of the CSCI to which the change applies. If a new version is warranted by the incorporation of this ECP, the new version number must be entered here.

10.0-3.16 Block 16

10.0-3.16.0-1 Pages affected by this SCN. The entries in this section must provide information about the pages affected by the SCN being submitted. Enter a listing of all pages being changed by this SCN and indicate whether the pages are being superseded or added (by entering an "S" or an "A" in the column) or deleted (by printing the word "deleted" after the page numbers so affected). A separate line must be used for each category of page change. Once the SCN has been approved by the Government, enter the approval date (from Block 18) in this block.

10.0-3.17 Block 17

10.0-3.17.0-1 Summary of previously changed pages.

10.0-3.17.1 Block 17.a

10.0-3.17.1.0-1 SCN number. For all SCNS previously submitted, enter the identification number of each SCN starting with SCN number 1 at the top of the column.

10.0-3.17.2 Block 17.b

10.0-3.17.2.0-1 Related ECP number. Enter the identification number (including revision designator and dash numbers) of each ECP affected by each previously issued SCN against this specification revision.

10.0-3.17.3 Block 17.c

10.0-3.17.3.0-1 Pages. List the pages changed by each previously issued SCN against this specification. A separate line must be used for each category of page change.

10.0-3.17.4 Block 17.d

10.0-3.17.4.0-1 Date submitted. For a proposed SCN, enter the submittal date for each previously submitted SCN opposite the appropriate SCN number in Block 17. For the approved SCN, enter the submitted date for each previously submitted SCN that has been approved opposite the appropriate SCN number in Block 17.

10.0-3.17.5 Block 17.e

10.0-3.17.5.0-1 Type of change. Indicate whether the pages are being superseded or added (by entering an "S" or an "A" in the column).

10.0-3.17.6 Block 17.f

10.0-3.17.6.0-1 Approval date. For each approved SCN previously submitted, enter its approval date on the same line as the SCN number in Block 17.

10.0-3.18 Block 18

10.0-3.18.0-1 Government activity. The Government contracting officer, or a duly appointed representative, will affix an approval signature and the date in this block, and will mark an "X" in the approved box, to designate approval of the SCN. The signature denotes technical concurrence with the contents of the Form and attached change pages. When Block 18 has been signed and the approved box has been marked, the status of the SCN changes from a proposed SCN to an approved SCN.

4.8 DID CM-008 Configuration Status Accounting (CSA) Report

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Configuration Status Accounting (CSA) Report	2 Data Item Number CM-008	
3 Description / Purpose 3.0-1 The CSA Report details the information required to effectively manage CIs and provide visibility of CM activities, including the status of deviations, waivers and engineering changes.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The CSA Report must conform to Mil-Std 973, section 5.5. 7.0-2 The CSA Report relates to all ECPs, RFDs, RFWs, SCNs, and NORs.		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The CSA Report must be in the Contractor's format. 10.0-2 The CSA Report must provide as a minimum the identification of each CI and list all new, outstanding and historical ECPs, RFDs, RFWs, SCNs and NORs including their status against each CI. The report must include but not be limited to: 10.0-2.0-1 An ECP index listing the ECPs (number, revision, correction, date raised, title, type, class, status, and cross reference to Subcontractor raised ECP, if applicable) and the CI, part and documentation affected. 10.0-2.0-2 A Deviation Index listing the deviations (number, date raised, title, status, and cross reference to subcontractor raised Deviation, if applicable) and their effectivity. 10.0-2.0-3 A Waiver Index listing the waivers (number, date raised, title, part affected, status, and cross reference to subcontractor raised waivers, if applicable) and their effectivity. 10.0-2.0-4 A SCN index recording all SCNs against a specification. For each specification, the Contractor format index must contain; the spec number, rev, title, the SCN number, associated ECP, date of submission and approval and any other related ECPs/SCN information. 10.0-2.0-5 A NOR index listing the NORs (number, date raised, the document number, title and revision of the document affected, associated ECP, date revision authorised, date revision completed).		

4.9 DID CM-009 Configuration Audit Plan (CAP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Configuration Audit Plan (CAP)	2 Data Item Number CM-009	
3 Description / Purpose 3.0-1 The CAP describes the detailed procedural requirements for the conduct of the configuration audit. It is provided in accordance with the requirements of the CMP.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The CAP must conform to Mil-Std 973 section 5.6 7.0-2 The CAP is a subset of the CMP.		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The CAP must be in the Contractor's format. 10.0-2 The CAP must provide, as a minimum, an overview of the audit procedures followed for the particular audit and contain as a minimum the following items and reference material: 10.0-2.0-1 Type of audit (PCA or FCA); 10.0-2.0-2 Audit date, location and a list of attendees; 10.0-2.0-3 Identification of proposed hardware/software and documentation to be audited; 10.0-2.0-4 Identification of reference documents to be used in conducting the audit; 10.0-2.0-5 Audit procedures to be used; 10.0-2.0-6 Serial number of CI to be audited; 10.0-2.0-7 Identification of approved deviation(s) and approved or proposed waiver(s) applicable to the CI serial number to be audited; 10.0-2.0-8 Security clearance information, if required.		

4.10 DID CM-010 Configuration Audit Report (CAR)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Configuration Audit Report (CAR)	2 Data Item Number CM-010	
3 Description / Purpose 3.0-1 The CAR is a document that reports in details the results of the audit. It is provided in accordance with the requirements of the CMP.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 The CAR must conform to Mil-Std 973 section 5.6. 7.0-2 The CAR integrates with the CAP, DID CM-009 . 7.0-3 The CAR must be in accordance with the CMP, DID CM-001 .		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The CAR must be in the Contractor's format. 10.0-2 The CAR must provide, as a minimum, the results of those audits, and a summary of any outstanding action required to rectify gaps found in the audited CI as a result of the audits. It must contain, but not be limited to, the following: 10.0-2.0-1 Identification of hardware/software and documentation audited; 10.0-2.0-2 Identification of reference documentation used during conduct of the audit; 10.0-2.0-3 Identification of the audit agenda; 10.0-2.0-4 A list of the personnel involved; 10.0-2.0-5 Action items identified, responsible individuals assigned to each action item and scheduled date of clearing each action item.		

4.11 DID DM-001 Technical Data Management Plan (TDMP)

DATA ITEM DESCRIPTION		DND Form 1409
1 Title Technical Data Management Plan (TDMP)	2 Data Item Number DM-001	
3 Description / Purpose 3.0-1 The TDMP is a document that defines the management, organization, procedures, schedules and detailed plan to be used by the Contractor in meeting the requirements for the development and the delivery of technical data. It is provided in accordance with the requirements of the CMP.		
4 Approval Date June 2011	5 OPI PMO ISSP CM	6 GIDEP Application N/A
7 Application / Interrelationship 7.0-1 N/A		
8 Originator PMO ISSP CM	9 Applicable Forms N/A	
10 Preparation Instructions 10.0-1 The TDMP may be prepared in the Contractor's format, and must contain sufficient detail to fully address the information requirements. 10.0-2 The TDMP must describe the Contractor's plan to provide for the preparation, delivery and control of all Technical Data required to acquire, operate, manage and support the system/equipment. The Plan must clearly define the intended purpose of each data item and explain the interfaces and overlaps among the data items. The Plan must include but not be limited to the following: 10.0-2.0-1 A description of the system/equipment for which the TDMP is applicable. 10.0-2.0-2 A description of the management, organisation and responsibilities of the Contractor's Technical Data personnel and their relationship to other disciplines within the Contractor's organisation. 10.0-2.0-3 Identify each data item. 10.0-2.0-4 State the proposed digital format in which the data item is to be provided for Text, Graphics and Product Data. 10.0-2.0-5 State the media i.e., On-Line Access e.g., Contractor Integrated Technical Information System (CITIS), Physical media e.g., optical disk, magnetic tape or disk. 10.0-2.0-6 Provide a delivery schedule with relevant milestones for preparation, validation, translation (if required), and delivery of the data items. 10.0-2.0-7 Describe methods and procedures for controlling each data item. 10.0-2.0-8 Detail how the Contractor intends to identify intellectual property and proprietary issues. 10.0-2.0-9 Identify the methodology for the identification and integration of data items from the LSA process and other relevant studies. 10.0-2.0-10 Detail the Contractors methodology for ensuring that DND will be self sufficient in technical data during the system/equipment life cycle.		

5 FIGURES

5.1 Figure 1 - Major Subsystem EHS Impact Table

EHS Hazard Type

A- Ionizing Radiation

B- Electromagnetic Radiation

C- Noise

D- Vibration

E- Hazardous Gases

F- Hazardous Liquids

G- Hazardous Solids

H- Others

Life Cycle Phase

1- Engineering and Manufacture

2- Test and Evaluation

3- Production and Deployment

4- Maintenance and Operations

5- Demilitarization and Disposal

[illegible]

1. Major Sub-system - Enter the appropriate sub-system with which the identified hazard is associated. All sub-systems identified in the allocated baseline must be included as the Sub-systems.

2. **Significance** - This column shall provide the measurement of the hazard for validation of significance (e.g., for noise, indicate decibel levels).

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Left blank intentionally.

5.2 Figure 2 - Table of Hazardous Products

[illegible]

5.3 Figure 3 - Items Containing Mercury

Ser	Information Requested	Mercury Containing Item Details			
		Item 1	Item 2	Item 3	Item 4...
1	Equipment NSN (for equipment containing mercury)				
2	Equipment Description				
3	NSN and Defence Resource Management Information System (DRMIS) unique identifier of the item containing mercury (if it exists)				
4	Manufacturer of mercury-containing item				
5	Date of manufacture of the mercury-containing item				
6	Manufacturer part number of mercury-containing item				
7	National Supply Code for Manufacturers of items containing mercury: (NSCM)/Commercial and Government Entity (CAGE) Code				
8	Description of mercury-containing item;				
9	The form of mercury (egs liquid, vapour, amalgam, metal halide)				
10	Quantity of mercury (kg mass)				
11	Volume of mercury (L) and its concentration in ppm [provide either mass (Serial 11) or volume/concentration of mercury, but not both]				
12	The location of the mercury-containing item(s)				
13	Quantity of mercury containing item per reported equipment				
14	Total Quantity of mercury within the reported equipment (for kg mass and volume/concentration);				

5.4 Figure 4 - Environmental Effects Matrix

PROJECT Subsystem/Activity Enter each subsystem e.g. device/component, activity, condition (normal/abnormal), etc, as applicable	Valued Ecosystem Components (Add to/ delete from matrix below as necessary) Show potential effects with a "X"																	
	Physical							Biological					Social					
	Atmosphere	Surface water	Ground water	Soils	Terrain	Vibration	Noise	Terrestrial animals	Terrestrial habitat	Aquatic animals	Aquatic habitat	Vegetation	Heritage/historical	Recreation/Aesthetic	People/health	Economy	Services	Land use

5.5 Figure 5 - Material Safety Data Sheets (MSDSs)

[illegible]

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5.6 Figure 6 - ECP Template

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1. ORIGINATOR NAME AND ADDRESS					2. CLASS OF ECP			
					3. JUSTIFICATION		4. PRIORITY	
5. ECP DESIGNATION					6. BASELINE AFFECTED			
a. MODEL/TYPE		b. CAGE CODE		c. SYSTEM DESIGNATION		<input type="checkbox"/> FUNCTIONAL <input type="checkbox"/> ALLOCATED <input type="checkbox"/> PRODUCT		
d. ECP No.			e. TYPE		f. REV		7. OTHER SYS. CONFIG. ITEMS AFFECTED	
							<input type="checkbox"/> YES <input type="checkbox"/> NO	
8. SPECIFICATIONS AFFECTED - TEST PLANS AFFECTED					9. DRAWINGS AFFECTED			
	CAGE CODE	SPEC/DOC No.	REV	SCN	CAGE CODE	NUMBER	REV	NOR
a. SYSTEM								
b. ITEM								
c. TEST PLAN								
10. TITLE OF CHANGE					10. a. WEAPON SYSTEM CODE OR DESIGNATION			
11. CONTRACT No. AND LINE ITEM(S)					12. PROCURING CONTRACTING OFFICER			
13. CONFIGURATION ITEM NOMENCLATURE					TEL			
					14. IN PRODUCTION			
					<input type="checkbox"/> YES <input type="checkbox"/> NO			
15. LOWEST ASSEMBLY AFFECTED								
NOMENCLATURE			PART No.			NSN		
16. DESCRIPTION OF CHANGE								
17. NEED FOR CHANGE								
18. PRODUCTION EFFECTIVITY BY SERIAL NUMBER					19. EFFECT ON PRODUCTION DELIVERY SCHEDULE			
20. RETROFIT								
a. RECOMMENDED ITEM EFFECTIVITY					b. SHIP/VEHICLE CLASS AFFECTED			
c. ESTIMATED KIT DELIVERY SCHEDULE					d. LOCATIONS OR SHIP/VEHICLE NUMBERS AFFECTED			
21. ESTIMATED COSTS/SAVINGS UNDER CONTRACT					22. ESTIMATED NET TOTAL COSTS/SAVINGS			
23. SUBMITTING ACTIVITY					23. b. TITLE			
a. AUTHORIZED SIGNATURE								
24. APPROVAL/DISAPPROVAL								
a. CLASS I			b. CLASS II			c. CLASS II		
<input type="checkbox"/> APPROVAL RECOMMENDED <input type="checkbox"/> DISAPPROVAL RECOMMENDED			<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED			<input type="checkbox"/> CONCUR IN CLASSIFICATION OF CHANGE <input type="checkbox"/> DO NOT CONCUR CLASSIFICATION OF CHANGE		
d. GOVERNMENT ACTIVITY			e. SIGNATURE			f. DATE (YYMMDD)		
g. APPROVAL			h. GOVERNMENT ACTIVITY			i. SIGNATURE		
<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED						j. DATE (YYMMDD)		

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EFFECTS ON FUNCTIONAL/ALLOCATED CONFIGURATION IDENTIFICATION

25. OTHER SYSTEMS AFFECTED

26. OTHER CONTRACTORS/ACTIVITIES AFFECTED

27. CONFIGURATION ITEMS AFFECTED

28. EFFECTS ON PERFORMANCE ALLOCATIONS AND INTERFACES IN SYSTEM SPECIFICATION

29. EFFECTS ON EMPLOYMENT, INTEGRATED LOGISTICS SUPPORT, TRAINING, OPERATIONAL EFFECTIVENESS OR SOFTWARE

30. EFFECTS ON CONFIGURATION ITEM SPECIFICATIONS

31. DEVELOPMENTAL REQUIREMENTS AND STATUS

32. TRADE-OFFS AND ALTERNATIVE SOLUTIONS

33. DATE BY WHICH CONTRACTUAL AUTHORITY IS NEEDED

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EFFECTS ON PRODUCT CONFIGURATION IDENTIFICATION, LOGISTICS AND OPERATIONS

(X)	FACTOR	ENC L	PAR	(X)	FACTOR	ENCL	PAR
	34. EFFECT ON PRODUCT CONFIGURATION IDENTIFICATION OR CONTRACT				36. EFFECT ON OPERATIONAL EMPLOYMENT		
	a. PERFORMANCE				a. SAFETY		
	b. WEIGHT BALANCE STABILITY (<i>Aircraft</i>)				b. SURVIVABILITY		
	c. WEIGHT-MOMENT (<i>Other Equipment</i>)				c. RELIABILITY		
	d. CDRL, TECHNICAL DATA				d. MAINTAINABILITY		
	e. NOMENCLATURE				e. SERVICE LIFE		
					f. OPERATING PROCEDURES		
	35. EFFECT ON INTEGRATED LOGISTICS SUPPORT (ILS) ELEMENTS				g. ELECTROMAGNETIC INTERFERENCE		
	a. ILS PLANS				h. ACTIVATION SCHEDULE		
	b. MAINTENANCE CONCEPT, PLANS AND PROCEDURES				i. CRITICAL SINGLE POINT FAILURE ITEMS		
	c. LOGISTICS SUPPORT ANALYSIS				j. INTEROPERABILITY		
	d. INTERIM SUPPORT PROGRAMS						
	e. SPARES AND REPAIR PARTS				37. OTHER CONSIDERATIONS		
	f. TECH MANUALS/PROGRAMMING TAPES				a. INTERFACE		
	g. FACILITIES				b. OTHER AFFECTED EQUIPMENT/GFE/ GFI		
	h. SUPPORT EQUIPMENT				c. PHYSICAL CONSTRAINTS		
	i. OPERATOR TRAINING				d. COMPUTER PROGRAMS AND RESOURCES		
	j. OPERATOR TRAINING EQUIPMENT				e. REWORK OF OTHER EQUIPMENT		
	k. MAINTENANCE TRAINING				f. SYSTEM TEST PROCEDURES		
	l. MAINTENANCE TRAINING EQUIPMENT				g. WARRANTY/GUARANTEE		
	m. CONTRACT MAINTENANCE				h. PARTS CONTROL		
	n. PACKAGING, HANDLING, STORAGE, TRANSPORTABILITY				i. LIFE CYCLE COSTS		
38. ALTERNATE SOLUTIONS							
39. DEVELOPMENTAL STATUS							
40. RECOMMENDATIONS FOR RETROFIT							
41. WORK-HOURS PER UNIT TO INSTALL RETROFIT KITS				42. WORK-HOURS TO CONDUCT SYSTEM TESTS AFTER RETROFIT			
a. ORGANIZATION b. INTERMEDIATE c. DEPOT d. OTHER							
43. THIS CHANGE MUST BE ACCOMPLISHED <input type="checkbox"/> BEFORE <input type="checkbox"/> WITH <input type="checkbox"/> AFTER THE FOLLOWING CHANGES				44. IS CONTRACTOR HELD SERVICE ENGINEERING REQUIRED? <input type="checkbox"/> YES <input type="checkbox"/> NO		45. OUT OF SERVICE TIME	
46. EFFECT OF THIS ECP AND PREVIOUSLY APPROVED ECPs ON ITEM				47. DATE CONTRACTUAL AUTHORITY NEEDED FOR PRODUCTION RETROFIT _____			

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48. ESTIMATED NET TOTAL COST IMPACT (Use parentheses for savings)

FACTOR	COSTS/SAVINGS UNDER CONTRACT					OTHER COSTS/ SAVINGS TO THE GOVERNMENT
	NON- RECURRING	UNIT	QUANTITY	TOTAL (Recurring)	TOTAL	
	(1)	(2)	(3)	(4)	(5)	
a. PRODUCTION COSTS/SAVINGS						
CONFIGURATION ITEM/CSCI						
FACTORY TEST EQUIPMENT						
SPECIAL FACTORY TOOLING						
SCRAP						
ENGINEERING, ENG. DATA REVISION						
REVISION OF TEST PROCEDURES						
QUALIFICATION OF NEW ITEMS						
SUBTOTAL OF PROD. COSTS/SAVINGS						
b. RETROFIT COSTS						
ENGINEERING DATA REVISION						
PROTOTYPE TESTING						
KIT PROOF TESTING						
RETROFIT KITS FOR OPERATIONAL SYSTEMS						
SPECIAL TOOLING FOR RETROFIT						
CONTRACTOR FIELD SERVICE ENGINEERING						
GOVT PERSONNEL INSTALLATION						
TESTING AFTER RETROFIT						
MODIFICATION OF GFE						
QUALIFICATION OF GFE						
SUBTOTAL OF RETROFIT COSTS/ SAVINGS						
c. INTEGRATED LOGISTICS SUPPORT COSTS/SAVINGS						
SPARES/REPAIR PARTS REWORK						
NEW SPARES AND REPAIR PARTS						
SUPPLY/PROVISIONING DATA						
SUPPORT EQUIPMENT						
RETROFIT KITS FOR SPARES						
OPERATOR TRAINING COURSES						
MAINTENANCE TRAINING COURSES						
REV. OF TECH MAN/PROGRAMMING TAPES						
NEW TECH MAN/PROGRAMMING TAPES						
TRAINING/TRAINERS						
INTERIM SUPPORT						
MAINTENANCE MANPOWER						
COMPUTER PROGRAMS/ DOCUMENTATION						
SUBTOTAL OF ILS COSTS/SAVINGS						
d. OTHER COSTS/SAVINGS						
e. SUBTOTAL COSTS/SAVINGS						
SUBTOTAL UNDER CONTRACT						
f. COORDINATION OF CHANGES WITH OTHER CONTRACTORS						
g. COORDINATION CHANGES BY GOVERNMENT						
h. ESTIMATED NET TOTAL COSTS/SAVINGS						

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ENGINEERING CHANGE PROPOSAL (HARDWARE) (Page 5 of 6)

MILESTONE CHART

49. DATE AUTHORIZATION TO PROCEED
RECEIVED BY CONTRACTOR →



START OF DELIVERY



COMPLETE DELIVERY



PROGRESS

	No. MONTHS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
C O N F I G U R A T I O N I T E M	PRODUCTION																																				
	TECH MANUALS																																				
	RETROFIT																																				
	SPARES/REPAIR PARTS																																				
S U P P O R T E Q U I P M E N T	PRODUCTION																																				
	TECH MANUALS/PROG. TAPES																																				
	RETROFIT																																				
	REPAIR PARTS																																				
T R A I N I N G	OPERATOR																																				
	MAINTENANCE																																				
	No. OF MONTHS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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ENGINEERING CHANGE PROPOSAL (SOFTWARE) (Page 6 of 6)

MILESTONE CHART

50. DATE AUTHORIZATION TO PROCEED
RECEIVED BY CONTRACTOR →



START OF DELIVERY



COMPLETE DELIVERY



PROGRESS

	No. MONTHS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
C O N F I G U R A T I O N I T E M	SOFTWARE ENGINEERING																																				
	SOFTWARE DOCUMENTATION																																				
	SOFTWARE REPLICATION																																				
	SOFTWARE DISTRIBUTION																																				
S U P P O R T E Q U I P M E N T	SOFTWARE ENGINEERING ENVIRONMENT UPGRADE																																				
	SOFTWARE TEST ENVIRONMENT UPGRADE																																				
T R A I N I N G	OPERATOR																																				
	MAINTENANCE																																				
	No. OF MONTHS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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5.7 Figure 7 Notice or Revision (NOR)

NOTICE OF REVISION (NOR) THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.		1. DATE (YYMMDD)	Form Approved OMB No. 0704-0188
<p>Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188) Washington, DC 20503.</p> <p>PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT / PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</p>		2. PROCURING ACTIVITY NUMBER	
		3. DODAAC	
4. ORIGINATOR	b. ADDRESS (Street, City, State, Zip Code)	5. CAGE CODE	6. NOR NO.
a. TYPED NAME (First, Middle Initial, Last)		7. CAGE CODE	8. DOCUMENT NO.
9. TITLE OF DOCUMENT	10. REVISION LETTER		11. ECP NO.
	a. CURRENT	b. NEW	
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES			Sheet of
13. DESCRIPTION OF REVISION			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	(1.) Existing document supplemented by this NOR may be used in manufacture.		
	(2.) Revised document must be received before manufacture may incorporate this change.		
	(3.) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT		c. TYPED NAME (First, Middle Initial, Last)	
d. TITLE	e. SIGNATURE	f. DATE SIGNED (YYMMDD)	

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5.8 Figure 8 Request for Deviation/Waiver

REQUEST FOR DEVIATION / WAIVER (RFD/RFW)				1. DATE (YYMMDD)		<i>Form Approved</i> OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.						2. PROCURING ACTIVITY NUMBER	
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.						3. DODAAC	
4. ORIGINATOR		b. ADDRESS (Street, City, State, Zip Code)				5. (X one)	
a. TYPED NAME (First, Middle Initial, Last)						<input type="checkbox"/> DEVIATION <input type="checkbox"/> WAIVER 6. (X one) <input type="checkbox"/> MAJOR <input type="checkbox"/> MINOR <input type="checkbox"/> CRITICAL	
7. DESIGNATION FOR DEVIATION / WAIVER				8. BASELINE AFFECTED		9. OTHER SYSTEM/CONFIGURATION ITEMS AFFECTED	
a. MODEL/TYPE	b. CAGE CODE	c. SYS DESIG	d. DEV/WAIVER NO	<input type="checkbox"/> FUNCTIONAL <input type="checkbox"/> PRODUCT	<input type="checkbox"/> ALLOCATED	<input type="checkbox"/> YES <input type="checkbox"/> NO	
10. TITLE OF DEVIATION / WAIVER							
11. CONTRACT NO. AND LINE ITEM				12. PROCURING CONTRACTING OFFICER			
				a. NAME (First, Middle Initial, Last)			
				b. CODE		c. TELEPHONE NO	
13. CONFIGURATION ITEM NOMENCLATURE				14. CLASSIFICATION OF DEFECT			
				a. CD NO	b. DEFECT NO	c. DEFECT CLASSIFICATION	
						<input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> CRITICAL	
15. NAME OF LOWEST PART / ASSEMBLY AFFECTED				16. PART NO. OR TYPE DESIGNATION			
17. EFFECTIVITY						18. RECURRING DEVIATION / WAIVER	
						<input type="checkbox"/> YES <input type="checkbox"/> NO	
19. EFFECT ON COST / PRICE				20. EFFECT ON DELIVERY SCHEDULE			
21. EFFECT ON INTEGRATED LOGISTICS SUPPORT, INTERFACE OR SOFTWARE							
22. DESCRIPTION OF DEVIATION / WAIVER							
23. NEED FOR DEVIATION / WAIVER							
24. CORRECTIVE ACTION TAKEN							
25. SUBMITTING ACTIVITY							
a. TYPED NAME (First, Middle Initial, Last)		b. TITLE			c. SIGNATURE		
26. APPROVAL / DISAPPROVAL		a. RECOMMEND		APPROVAL		DISAPPROVAL	
b. APPROVAL		c. GOVERNMENT ACTIVITY					
<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED							
d. TYPED NAME (First, Middle Initial, Last)		e. SIGNATURE				f. DATE SIGNED (YYMMDD)	
g. APPROVAL		h. GOVERNMENT ACTIVITY					
<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED							
i. TYPED NAME (First, Middle Initial, Last)		j. SIGNATURE				k. DATE SIGNED (YYMMDD)	

Previous editions are obsolete

ANNEX CD TO VOLUME 2

TERMS AND CONDITIONS OF LOAN AGREEMENTS TO CONTRACTORS

**THE TERMS AND CONDITIONS OF LOAN AGREEMENTS IS HEREBY
INCORPORATED IN THIS ANNEX CD BY REFERENCE AND
HAS THE SAME FORCE AND EFFECT AS IF IT WERE ATTACHED HERETO.**

**THE COMPLETE DOCUMENT IS ATTACHED IN ITS ENTIRETY AS
ANNEX CD TO THE OPTIMISED WEAPON SYSTEM SUPPORT CONTRACT.**

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ANNEX CE TO VOLUME 2

REFERENCES, ACRONYMS AND GLOSSARY

**THE DICTIONARY OF REFERENCES, ACRONYMS AND GLOSSARY IS HEREBY
INCORPORATED IN THIS ANNEX CE BY REFERENCE AND
HAS THE SAME FORCE AND EFFECT AS IF IT WERE ATTACHED HERETO.**

**THE COMPLETE DOCUMENT IS ATTACHED IN ITS ENTIRETY AS
ANNEX CE TO THE OPTIMISED WEAPON SYSTEM SUPPORT CONTRACT.**

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Amendment No. - N° de la modif.

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ANNEX CF TO VOLUME 2

CONTRACT DELIVERABLES LIST

FOR THE

ACQUISITION OF

THE

INTEGRATED SOLDIER SYSTEM (ISS)

17 JANUARY 2013

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HISTORY

Revision	Date	Description

RFP - N° de la DP
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1 Table 1 Contract Line Item Numbers for P (Sat) ISS-S Batch

Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
100 Series	Main Equipment					
101	ISS-ES	Y	Each	32	25 CFSD	44
102	Universal Canalphone Set	Y	Each	32	25 CFSD	44
103	ISS Rechargeable Battery Set	Y	Each	32	25 CFSD	44
104	ISS Non-Rechargeable Battery Set	Y	Each	64	25 CFSD	44
105	MLCS Platform Small	Y	Each	22	25 CFSD	44
106	MLCS Platform Medium	Y	Each	10	25 CFSD	44
107	MLCS ISS Pouch Set	Y	Each	32	25 CFSD	44
200 Series	Accessory Items					
201	DAGR Interface Cable	Y	Each	5	25 CFSD	44
202	CORAL-CR-C Interface Cable	Y	Each	5	25 CFSD	44
203	LCSS Radio Interface Cable Set	Y	Each	5	25 CFSD	44
400 Series	Support Equipment					
401	SEP-Suite	Y	Each	3	PMO ISSP	44
402	BMS Software for CF Laptop w/licence	Y	Each	3	PMO ISSP	44
403	Battery Charger Set	Y	Each	32	25 CFSD	44

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2 Table 2 Contract Line Item Numbers for Phase B Production

2.1 Table 2-1 Training Deliverables

Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
500 Series	Training					
501	Pilot ICT Operator Instructors Course - English		Each	1	Contractor's Facility	110
502	Pilot ICT Operator Instructors Course -French		Each	1	Contractor's Facility	150
503	Pilot ICT System Manager Instructors Course - English		Each	1	Contractor's Facility	110
504	Pilot ICT System Manager Instructors Course - French		Each	1	Contractor's Facility	150
505	Pilot ICT Maintainer' Instructors Course - English		Each	1	Contractor's Facility	110
506	Pilot ICT Maintainer' Instructors Course - French		Each	1	Contractor's Facility	150
507	ICT Operator Course – Language of Instruction to be determined once TF designated.		Each	2	DND TBD	TBD
508	ICT System Managers Course – Language of Instruction to be determined once TF designated.		Each	2	DND TBD	TBD
509	ICT Maintainers Course - Language of Instruction to be determined once TF designated.		Each	2	DND TBD	TBD

2.2 Table 2-2 Initial Batches

2.2.1 Table 2-2-1 Initial Training Batch

Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
110 Series	Main Equipment					
111	ISS-ES	Y	Each	168	25 CFSD	154

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Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
112	Universal Canalphone Set	Y	Each	168	25 CFSD	
113	ISS Rechargeable Battery Set	Y	Each	168	25 CFSD	
114	ISS Non-Rechargeable Battery Set	Y	Each	336	25 CFSD	
115	MLCS Platform Small	Y	Each	153	25 CFSD	
116	MLCS Platform Medium	Y	Each	66	25 CFSD	
117	MLCS ISS Pouch Set	Y	Each	168	25 CFSD	
210 Series	Accessory Items					
211	DAGR Interface Cable	Y	Each	25	25 CFSD	
212	CORAL-CR-C Interface Cable	Y	Each	2	25 CFSD	
213	LCSS Radio Interface Cable Set	Y	Each	25	25 CFSD	
310 Series	Technical Documentation					
311	User Manual - Bilingual	Y	Each	168	25 CFSD	
312	Technical Manual(s) - Bilingual	Y	Each	12	25 CFSD	
313	Quick Reference Guide - Bilingual	Y	Each	168	25 CFSD	
410 Series	Support Equipment					
411	SEP-Suite	Y	Each	10	PMO ISSP	
412	BMS Software for CF Laptop w/licence	Y	Each	28	PMO ISSP	
413	Battery Charger Set	Y	Each	168	25 CFSD	

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2.2.2 Table 2-2-2 Operational Stock Batch

Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
120 Series	Main Equipment					176
121	ISS-ES	Y	Each	176	25 CFSD	
122	Universal Canalphone Set	Y	Each	176	25 CFSD	
123	ISS Rechargeable Battery Set	Y	Each	352	25 CFSD	
124	ISS Non-Rechargeable Battery Set	Y	Each	704	25 CFSD	
125	MLCS Platform Small	Y	Each	160	25 CFSD	
126	MLCS Platform Medium	Y	Each	68	25 CFSD	
127	MLCS ISS Pouch Set	Y	Each	176	25 CFSD	
220 Series	Accessory Items					
221	DAGR Interface Cable	Y	Each	25	25 CFSD	
222	CORAL-CR-C Interface Cable	Y	Each	2	25 CFSD	
223	LCSS Radio Interface Cable Set	Y	Each	25	25 CFSD	
320 Series	Technical Documentation					
321	User Manual - Bilingual	Y	Each	176	25 CFSD	
322	Technical Manual(s) - Bilingual	Y	Each	12	25 CFSD	
323	Quick Reference Guide - Bilingual	Y	Each	176	25 CFSD	
420 Series	Support Equipment					
421	SEP-Suite	Y	Each	10	PMO ISSP	
422	BMS Software for CF Laptop w/licence	Y	Each	28	PMO ISSP	
423	Battery Charger Set	Y	Each	176	25 CFSD	

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2.3 Table 2-3 Task Force Batches

2.3.1 Table 2-3-1 Task Force Batch Composition

Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
130 Series	Main Equipment					
131	ISS-ES	Y	Each	628	25 CFSD	
132	Universal Canalphone Set	Y	Each	628	25 CFSD	
133	ISS Rechargeable Battery Set	Y	Each	0	25 CFSD	
134	ISS Non-Rechargeable Battery Set	Y	Each	2512	25 CFSD	
135	MLCS Platform Small	Y	Each	572	25 CFSD	
136	MLCS Platform Medium	Y	Each	244	25 CFSD	
137	MLCS ISS Pouch Set	Y	Each	628	25 CFSD	
230 Series	Accessory Items					
231	DAGR Interface Cable	Y	Each	130	25 CFSD	
232	CORAL-CR-C Interface Cable	Y	Each	40	25 CFSD	
233	LCSS Radio Interface Cable Set	Y	Each	130	25 CFSD	
330 Series	Technical Documentation					
331	User Manuals - Bilingual	Y	Each	628	25 CFSD	
332	Technical Manuals - Bilingual	Y	Each	20	25 CFSD	
333	Quick Reference Guide - Bilingual	Y	Each	628	25 CFSD	
430 Series	Support Equipment					
431	SEP-Suite	Y	Each	9	PMO ISSP	

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432	BMS Software for CF Laptop w/License	Y	Each	20	PMO ISSP	
433	Battery Charger Set	Y	Each	0	25 CFSD	

2.3.2 Table 2-3-2 Task Force Batch Deliveries

Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
600 Series	Task Force Batches					
601	Task Force 1	Y	As per Table 2-3-1	1 TF Batch	25 CFSD	176
602	Task Force 2	Y	As per Table 2-3-1	1 TF Batch	25 CFSD	220

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3 Table 3 Contract Line Item Numbers for Options

Contract Line Item No.	Description	QA Code	Unit of issue	Total Qty	Destination ¹	Required Delivery (No later than) in WD after Contract Amendment authorizing Production Phase
610 Series	Additional Task Force Batches			Up To		
610	Complete Task Force (As per Table 2-3-1)	Y	TF	8	TBC	TBC
611	ISS Rechargeable Battery Set	Y	Each	6280	25 CFSD	
612	ISS Non-Rechargeable Battery Set	Y	Each	20096	25 CFSD	
440 Series	Support Equipment					
441	BMS Software for CF Laptop w/License	Y	Each	108	PMO ISSP	
442	Battery Charger Set	Y	Each	6280	25 CFSD	
510 Series	Additional Training					TBC
511	ICT Operator Course - English		Each	6	TBD	
512	ICT Operator Course - French		Each	2	TBD	
513	ICT System Managers Course - English		Each	6	TBD	
514	ICT System Managers Course - French		Each	2	TBD	
515	ICT Maintainers Course - English		Each	6	TBD	
516	ICT Maintainers Course - French		Each	2	TBD	

Note 1: Destination Shipping Address for 25 CFSD is: 25 Canadian Forces Supply Depot, Montreal, 6363 Rue Notre Dame East, Montreal, QC, H1N 3R9. For Delivery by Appointment only call 514-252-2777 Extension 2363.

Destination Shipping Address for PMO ISSP: Attention PMO ISSP/DSSPM 10, 101 Colonel By Drive, Ottawa, Ontario, K1A 0K2. For Delivery by Appointment only call 819-997-0481