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**SOLICITATION AMENDMENT**  
**MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

**Comments - Commentaires**

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K1A 0S5

<b>Title - Sujet</b> HEADQUARTERS SHELTER SYSTEMS (HQSS)		
<b>Solicitation No. - N° de l'invitation</b> W8476-155245/A		<b>Amendment No. - N° modif.</b> 004
<b>Client Reference No. - N° de référence du client</b> W8476-155245		<b>Date</b> 2015-05-27
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$QF-112-25083		
<b>File No. - N° de dossier</b> 112qf.W8476-155245	<b>CCC No./N° CCC - FMS No./N° VME</b>	
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2015-07-29</b>		<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT
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**Amendment No. 004**

This amendment is raised to provide some answers to questions submitted by Bidders.

For recording and tracking purpose, there is a number assigned to each question as received by PWGSC. The responses are being published as they become available but not necessarily reflect the original assigned numbering sequence.

**Question 8**

Annex A, 2.0, DND Publications: Please provide DND Drawing 9776280. This is the drawing for Shipping Container 8145-21-921-0858 called up in RVM item 6.2.1 and in numerous references throughout the RFP.

Response:

Drawing to be released together with entire technical data package through PWGSC. Current container supplier to Canadian Forces is Sea Box Inc. of East Riverton, New Jersey.

**Question 9**

Annex A, 2.0, DND Publications: Please provide the CFTO for the Aircraft Pallet described in 5.5.2.6.6?

Response:

CFTO B-GA-007-002/AF-001 will be provided with the technical data package.

**Question 10**

Annex A, 4.6.7.2: It is impossible to deliver IOC within 90 days of FDA. FDA presents the earliest possible start of manufacturing and 90 days is insufficient considering material lead-time, tooling, jig and fixture manufacture, establishment of production line and time to manufacture. Please accept our recommendation to change delivery to one year after FDA.

Response:

The bidder request to extend the IOC for more than 90 days after FDA was reviewed and not accepted due to impact on project delivery schedule. DND believes that the contractor will have around seven (7) months from the contract award to design and build the First Article Unit (FAU) during which period the bidder has already established tooling, jigs and fixture manufacturing for the FAU.

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**Question 11**

Question 11-E Annex A, 5.2.1.2: This indicates that the Contractor must maintain the EBS as the design evolves to indicate changes and CDRL SE-01 stipulates that the frequency of submittal is "once + revisions". As elements of the various components may change at various times between PDR and FDR, does Canada expect to receive updated EBS documents at a frequency greater than just a draft at PDR and a final version at CDR? Otherwise, how often between PDR and CDR does Canada expect to receive updated/revised EBS documents?

Response:

Canada expects to receive the Equipment Breakdown Structure (EBS) at the Preliminary Design Review (PDR) and Final Design Review (FDR), and updates to the EBS resulting from design changes treated on a case by case basis.

**Question 12**

Annex A, 5.3.1: Bullet 3: Please confirm that and requirement for testing is limited to only those items listed in the RVM (Vol 2, App AA) where the phrase "Test" is shown in the column identified as "Means of Compliance Post-Contract Award?"

Response:

Confirmed. The requirement for testing is limited to only those items listed in the RVM (Vol 2, App AA) where the phrase "Test" is shown in the column identified as "Means of Compliance Post-Contract Award"

**Question 13**

Annex A, 5.5.2.5: Please confirm that Canada will prepare the User Trial Test Plan?

Response:

Canada will provide the HQSS complex configuration plan for the User Trial. The contractor shall develop and provide the Qualification and Testing Plan (QTP) and procedures in accordance with HQSS-ACQ-SE-07 that includes Human Engineering and User Trial (HU&UT) Test Procedures and HE&UT Report in accordance with CDRL/DID HQSS-ACQ-SE-06.

**Question 14**

Annex A, 5.5.2.5.5: For planning and budgeting purposes, please advise the maximum time from completion of PDR until notice to ship equipment for HE&UT. Based on past experience, conducting HE&UT at CFB Gagetown can depend on weather/season, timing of military exercises and preparation of the User Trial Test Plan.

Response:

Please refer to Para 5.5.2.5.9, 5.5.2.5.4 and 5.5.2.5.5 of Annex A to Volume 2; the maximum allowed period for the HE&UT is ten (10) working days. The contractor shall be ready to ship the equipment for HE&UT within 120 days after the PDR and the contractor will have 30 days' notice prior to starting the HE&UT.

#### Question 15

Annex A, 5.5.2.6.6: Please confirm that the Stowage Plans involve 20 configurations as described in DID SE-011?

#### Response:

The Stowage Plan involves four (4) types of HQSS Complex configurations stowed into a selected number from four (4) types of cargo containers, therefore the maximum number of HQSS Stowage configuration will be sixteen (16) configuration. The Aircraft Pallet specified in Para 5.5.2.6.6 is provided for guidance only on the maximum allowed dimensions & weight of HQSS packaged elements that can be loaded on Aircraft pallet. Therefore the stowage plan described in HQSS-ACQ-SE-11 is amended to delete " – Air Force pallet, which is – HCU-6/E 88 X 108" – 463-L Dual rail pallet (NSN 1670-00-820-4896) IAW CFTO B-GA-007-002/AF-001."

Para 4.2.1 of HQSS-ACQ-SE-11 is amended to read as follows:

4.2.1 Comprise of 4 X 4 = 16 sub-plans that address the following combinations:

- Four (4) types of HQSS Complex configuration: type 1,2,3 and 4 as defined in table 1; and
- Four (4) types of cargo container:
  - 20' standard (NSN 8145-21-914-4367). P/N: DV-20, NCAGE: 3AH99;
  - 20' side opening (8145-21-921-0858) P/N: 9776280-1, NCAGE: 35907;
  - tricon (8145-01-537-6254) P/N: BXTDCGCDND003, NCAGE: 09PD1; and
  - bicon (8145-01-540-5854) P/N: BXTDCGCDND002, NCAGE: 09PD1."

#### Question 16

Annex A, 5.5.2.6.7: Please confirm whether the Contractor is required to actually perform the work involved in stowing the four complex types in the five container/pallet types? Also will Canada provide the aircraft pallets as GFE for this purpose?

#### Response:

The Contractor is required to actually perform the work involved in stowing the four complex types in the four container types and the shipment of these configurations to the final destination. No GFE will be provided by Canada. The Aircraft Pallet specified in Section 5.5.2.6.6 is provided for guidance only on the maximum allowed dimensions & weight of HQSS packaged elements that can be loaded on Aircraft pallet

**Question 17**

Annex A, 5.5.2.6.8: Please confirm that the acquisition contract deliverables are all required to be stowed and shipped only in the rigid containers and not on aircraft pallets.

**Response:**

Confirmed; with reference to Annex A, 5.5.2.6.8; the acquisition contract deliverables are all required to be stowed and shipped only in the rigid containers and not on aircraft pallets.

**Question 18**

Annex A, 5.5.2.7.2: It appears that the Qualification and Testing is to span the timeframe of the Human Engineering and User Trial (HE & UT) testing. Can Canada please confirm that the intent is that the HE & UT portion of the program form part of the Qualification and Testing portion of the program? If that is not Canada's intent, can Canada please confirm that the intent is to conduct Qualification and Testing of the HQSS in parallel with the HE & UT testing – i.e. that the contractor would have to have two systems in testing at the same time?

**Response:**

The Human Engineering and User Trial (HE & UT) testing forms part of the Qualification and Testing of the project. Please refer to Volume 2, Annex A, Section 5.5.2.5.1. The purpose of HE&UT is to obtain user feedback for the purpose of influencing the design. The intent is to ensure that user input is included in the design of the equipment and the final delivered product will satisfy the end user. Since the estimated period for the HE&UT is around two weeks and shall be conducted at the beginning of the qualification testing plan, the need to develop two systems is not foreseen.

**Question 19**

Annex A, 5.5.2.8.1: This appears to be incomplete as the reference to what the FAIT should be conducted in accordance with is missing.

**Response:**

Para 5.5.2.8.1 of Annex A is amended to to read:

"5.5.2.8.1 The Contractor shall conduct the FAIT in accordance with CDRL/DID-HQSS-ACQ-SE03, Contractor Requirement Verification Matrix within 30 days of completion of the QTP."

**Question 20**

Annex A, 8.2.4.1: It is understood that the publications, drawings and training material are required in bilingual side by side format but reviewing the DID's there appears to be additional scope to the bilingual

requirements. Please confirm that the System Requirement Review (DID SE-04), HE & UT report (DID SE-06), and Stowage plans (DID SE-11) are also required in bilingual format?

Response:

The stowage plan (DID-SE-11) out of the aforementioned references is one of the technical publications, Installation Instruction (ME) manual, and shall be provided in bilingual format.

**Question 21**

Can Canada please explain/quantify the schedule relationship between CDR and the FAIT (which is conducted in conjunction with the FCA and PCA)? These two activities do not appear to be linked in the SOW or CDRLs.

Response:

The CDR shall be conducted 15 days after the completion of HE&UT. The FAIT shall start after the Qualification Test Procedure and the Qualification Test Plan. The FAIT is scheduled to start within 60 days after the HE&UT. The FCA/PCA shall be conducted within 30 days of submitting the FAIT report.

Para 5.5.2.8 of Annex A is amended to add the following paragraph:

"5.5.2.8.6 The PCA/FCA shall be conducted within 30 days of submitting the FAIT Report."

**Question 22**

Appendix AA, Glossary, Documentation: Please advise how the Bidder can determine in advance and therefore how to budget, the Technical Authority's right to invoke test or analysis at the Contractor's Expense. Since it is impossible to determine the possibility or extent of such an occurrence please consider allowing the Contractor to charge the cost of such additional analysis or testing using the AWR methodology? Failure to accept this methodology will require bidders to budget additional costs due to the associated risk.

Response:

Please refer to the definition of "Documentation" specified under Appendix AA, Glossary. The Technical Authority reserves the right to invoke documentation provided for relevance or in the event of the contractor's failure to demonstrate or to substantiate that their HQSS meets the specified standard requirement.

**Question 23**

Appendix AA, 2.1.8.5: Please consider removing this constraint since Paragraph 2.8.1 provides incentive to maximize the size of shelter and length vs width constraints are already provided. As written, this constraint may prevent bidders from providing the optimal solution or worse gaining sufficient points to meet the minimum mandatory points to remain in the competition. Also the overall footprint in Volume 1,

Appendix BB, Figure 1 shows a dimension of 20 m X 20 m. Given the size of shelters the footprint will be much larger.

Response:

No change to the requirement specified in Para 2.1.8.5 of Appendix AA since it is not restricting and the user will not accept an operating shelter of more than 1961 ft². Further, Volume 1, Appendix BB, Figure 1 shows a dimension of 20 m X 30 m.

**Question 24**

Appendix AA, Paragraph 2.2.1: The requirement described differs significantly from the test method shown in Figure 2 of Volume 1, Appendix BB; please advise which is correct?

Response:

Paragraph 2.2.1 of Appendix AA to Annex A to Volume 2 is amended to read:

“2.2.1 The Effective Floor Area of the Operations Shelter, Planning Shelter, Office Shelter, Shelter Connector Hub, Vehicle Boot, and Black-out Vestibule shall be defined as that area with an enclosed clear height of at least 2030 mm, maximum overhead reach of 685 mm and maximum depth of reach 585 mm when the Shelter is set up on top of a flat level surface with the Semi-Rigid Flooring, in accordance with paragraph 4 and Soft Flooring in accordance with paragraph 2.5, installed.”

**Question 25**

Appendix AA, 2.3.9/2.3.10: It is impossible to produce shelters that are completely airtight and the specification mandates fresh air intake. Therefore please provide the threshold level above which exhaust gas is deemed acceptable and please provide information on the specific location and amount of exhaust gas produced by the specified vehicles? Alternatively please restate the specification such that any test will provide a quantitative or qualitative result that is considered acceptable?

Response:

There is no requirement in the HQSS project to produce an airtight shelter. However, Please refer to ASHRAE Standard 62 for the maximum threshold level for the Indoor Air Quality. A gas analyzer shall be used to verify the acceptable limit.

Paragraph 2.3.9 of Appendix AA to Annex A to Volume 2 is amended to read:

“2.3.9 Shelters shall meet ASHRAE standard 62 for the maximum threshold level for the Indoor Air Quality in order to minimize the ingress of exhaust gases from any vehicle or equipment operating at a distance of one (1) m or greater from the Shelter.”

Paragraph 2.3.10 of Appendix AA to Annex A to Volume 2 is amended to read:

“2.3.10 Shelters shall meet ASHRAE standard 62 for the maximum threshold level for the Indoor Air Quality in order to minimize exhaust gases from the connected vehicles in accordance with paragraph 2.9.2 and 2.19.2.1.5.2 from entering inside the Shelter.”

#### Question 26

Appendix AC: The CDRLs for various reports (ex. SE-08, SE-09, among others) specify response times for the TA but do not differentiate between review times for draft deliverables and review times for final deliverables. For scheduling and estimating purposes, can Canada please confirm that the TA's estimated review periods for both draft and final deliverables would be identical and in accordance with the estimated times provided in the CDRLs?

#### Response:

Confirmed. The estimated time for TA review periods for both draft and final deliverables would be identical and in accordance with the estimated times provided in the CDRLs.

#### Question 28

Annex B, OLIN 0115: Immediately below this OLIN is a Note that we respectfully request Canada remove? The note is improperly written as stated and further it is totally unreasonable to require Bidders to constrain prices of Options to within 20% of firm prices especially where Canada is requesting price breaks down to one unit. The cost to produce one unit is significantly higher than a large quantity especially when the production line may no longer be “hot”. Please accept that Bidders are motivated to offer their best prices already by virtue of the evaluation criteria.

#### Response:

OLIN 115 to remain as is.

#### Question 29

Annex B, Firm Labor Rate Table: Below the table is Note 1, please consider removing this as it is not material in the context of determining hourly rates.

#### Response:

Note 1 to remain unchanged.

#### Question 30

Technical Evaluation Bid, Appendix BA, Annex B, page 3 Para 1.2 Draft Plans and Documents Req #7 Preliminary Quality Plan

The Bidder must submit with their proposal a preliminary Quality Plan as per CDRL/DID HQSS- ISSQA-01 (to be provided with final RFP). CDRL/DID HQSS-ISS-QA-01 is not included in Appendix AA or Appendix AB, Annex A, Volume 3



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**Response:**

Para 1.2 of Appendix BA to Annex A is amended to read:

“The Bidder must submit with their proposal a preliminary Quality Plan as per ISO 9001:2008”

**Question 31**

Technical Evaluation Bid, Appendix BA, Annex B, page 3 1.2 Draft Plans and Documents Req #9  
Preliminary Equipment Environmental Assessment

The Bidder must submit with their proposal a preliminary Equipment Environmental Assessment as per  
CDRL/DID HQSSISS- EH-01

The CDRL is incorrect and should be CDRL/DID HQSS-ACQ-EH- 01

**Response:**

Agreed. Item 8 of Para 1.2 of Appendix BA to Annex A is amended to read:

“The Bidder must submit with their proposal a preliminary Equipment Environmental Assessment as per  
CDRL/DID HQSS- ACQ-EH-01”

**Question 32**

Acquisition, Statement of Work, Annex A, Volume 2, page 20 4.4 Project Scheduling item 4.4.4

The Contractor shall include all the Acquisition Contract related activities and Integrated Logistics  
Support (ILS) requirements of the ISS Contract in the HQSS Master Project Schedule.

Integrated Logistics is part of the Acquisition SOW in section 8 and not the In-Service Support SOW.

**Response:**

Correct; Integrated Logistics is part of the Acquisition SOW in Section 8 and not the In-Service Support  
SOW.

**Question 33**

Acquisition, Statement of Work, Annex A, Volume 2, page 31 5.5.2.6 Critical Design Review item  
5.5.2.6.8

The Contractor shall ship the HQSS complex types in accordance with the identified cargo containers in  
a short term preservation status developed within the ISS Contract under CDRL/DID HQSS-ILS PH-01,

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Preservation and Preparation for Shipment Procedures Appendix AA to Annex A to Volume 3 does not include any CDRL with ILS in the number. This should read CDRL/DID HQSSISS- MS-03.

Response:

Agreed. Section 5.5.2.6.8 of Annex A to Volume 2 is amended to read:

"The Contractor shall ship the HQSS complex types in accordance with the identified cargo containers in a short term preservation status developed within the ISS Contract under CDRL/DID HQSS-ILS-MS-03, Preservation and Preparation for Shipment Procedures."

**Question 34**

Acquisition, Statement of Work, Annex A, Volume 2, page 38 8.1.3 Interim Spare Parts List item 8.1.3.1

The Contractor shall develop and submit for Technical Authority review and acceptance an ISPL in accordance with CDRL/DID HQSS-ACQ-03, Interim Spare Parts List. This should read CDRL/DID HQSS-ACQ-LSA-03 Reference the correct DID for ISPL

Response:

Agreed.

Para 8.1.3.1 of Annex A to Volume 2 is amended to read:

"The Contractor shall develop and submit for Technical Authority review and acceptance an ISPL in accordance with CDRL/DID HQSS-ACQ—LSA-03, Interim Spare Parts List."

**Question 35**

Acquisition, Statement of Work, Annex A, Volume 2, page 38 8.1.3 Interim Spare Parts List item 8.1.3.2

When developing the ISPL, the Contractor shall take into consideration the predicted annual usage as described in CDRL/DID HQSS-ACQ-01 and predicted item failure rates from the approved Failure Predication Report. This should read CDRL/DID HQSS-ACQ-LSA-01 Reference the correct DID for FPR.

Response:

Agreed. Para 8.1.3.2 of Annex A to Volume 2 is amended to read:

"When developing the ISPL, the Contractor shall take into consideration the predicted annual usage as described in CDRL/DID HQSS-ACQ-LSA-01 and predicted item failure rates from the approved Failure Predication Report."

**Question 36**

Publications, Generic Statement of Work, Appendix AF, Annex A, Volume 2, page 3 4.2 Option 1:

#### Newly Written DND Manuals item 4.2.4

Certificates shall be provided to this effect in accordance with para Error! Reference source not found  
there is a reference error for provision of certificates

#### Response:

Para 4.2.4 of Appendix AF of Annex A to Volume 2 is amended to read:

"Certificates shall be provided to this effect in accordance with para 7.0."

#### **Question 37**

Publications, Generic Statement of Work, Appendix AF, Annex A, Volume 2, page 3 4.2 Option 2:  
Existing Commercial or Foreign Government Manuals item 4.3.4

Certificates shall be provided to this effect in accordance with para Error! eference source not found  
there is a reference error for provision of certificates

#### Response:

Para 4.3.4 of Appendix AF of Annex A to Volume 2 is amended to read:

"Certificates shall be provided to this effect in accordance with para 7.0."

#### **Question 39**

Repair and Overhaul, Appendix BB to Annex B to Volume 3, HQSS In-Service Support Resulting  
Contract

The "Firm or Hourly Rate Year 1" shaded column notes that "no pricing is requested". In the same document for "repair and Overhaul, Option Period 1nad 2" , the columns are also shaded but there is no note that pricing is not required. Does Industry have to supply pricing for " Repair and Overhaul, Option period 1 and 2?

#### Response:

Bidders do not have to supply pricing for Repair and Overhaul option periods. Bidders are to provide prices solely for the contract period. Prices for option periods will be escalated using Year 5 Contract prices with an escalation of 2% per year.

#### **Question 40**

Acquisition, Statement of Work, Annex A, Volume 2, page 14

2.0 Applicable Documents Other Documents

ASTM E-2074 Standard Test Method For Fire Tests of Door Assemblies, Including Positive Pressure Testing of Side Hinged and Pivoted Swinging Doors This standard has been withdrawn by ASTM with no replacement

Can't use test methods for a withdrawn or cancelled standard

Response:

The reference ASTM E-2074 will be deleted from Volume 2, Annex A, Section 2.1 and replaced with the following:

"NAFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING

ASTM E 119 STANDARD TEST METHODS FOR FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS

ANSI/UL 263 FIRE RESISTANCE RATING"

Volume 2, Annex A, Appendix AA, Section 2.10.2.13.2 is amended to read :

"The Hard Doors shall meet the 30 minute fire rating requirement of National Fire Protection Association (NFPA-80) Standard for Fire Doors and Other Openings, the American Society for Testing and Materials (ASTM E-119) Standard Test Methods for Fire Tests of Building Construction and Materials and (ANSI/UL 263) Fire Resistance Ratings."

**Question 41**

Acquisition, Statement of Work, Annex A, Volume 2, page 13

2.0 Applicable Documents DND Publications

D-01-100-215/SF-000, SPECIFICATION FOR PREPARATION OF MATERIEL CHANGE NOTICES

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

Response:

CFTO D-01-100-215/SF-000, SPECIFICATION FOR PREPARATION OF MATERIEL CHANGE NOTICES will be released with the Technical Data Package. A41-F

**Question 42**

Acquisition, Statement of Work, Annex A, Volume 2, page 13

2.0 Applicable Documents DND Publications

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**D-01-400-002/SF-000, SPECIFICATION FOR LEVELS OF ENGINEERING DRAWINGS AND ASSOCIATED LISTS**

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

**Response:**

CFTO D-01-400-002/SF-000, SPECIFICATION FOR LEVELS OF ENGINEERING DRAWINGS AND ASSOCIATED LISTS will be provided with the Technical Data Package.

**Question 43**

Acquisition, Statement of Work, Annex A, Volume 2, page 13

2.0 Applicable Documents DND Publications

DCIEM 98-CR-15, DEFENCE AND CIVIL INSTITUTE OF ENVIRONMENTAL MEDICINE

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

**Response:**

CFTO DCIEM 98-CR-15, DEFENCE AND CIVIL INSTITUTE OF ENVIRONMENTAL MEDICINE will be released with the Technical Data Package.

**Question 44**

Acquisition, Statement of Work, Annex A, Volume 2, page 13

2.0 Applicable Documents DND Publications

DND DWG 8190124, CONSTRUCTION REQUIREMENTS FOR CANVAS COMPONMENTS

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

**Response:**

DND DWG 8190124, CONSTRUCTION REQUIREMENTS FOR CANVAS COMPONMENTS will be released with the Technical Data Package.

**Question 45**

Acquisition, Statement of Work, Annex A, Volume 2, page 13

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## 2.0 Applicable Documents DND Publications

DL-385233-1, TENT SECTION, CENTRE, (TEMS) NSN 8340-21-859-3166

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

Response:

DL-385233-1, TENT SECTION, CENTRE, (TEMS) NSN 8340-21-859-3166 will be released with the Technical Data Package.

### Question 46

Acquisition, Statement of Work, Annex A, Volume 2, page 13

## 2.0 Applicable Documents DND Publications

DND DWG 385721, FRAME SECTION, TENT NSN 8340-21-859-3213

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

Response:

DND DWG 385721, FRAME SECTION, TENT NSN 8340-21-859-3213 will be provided with the Technical Data Package.

### Question 47

Acquisition, Statement of Work, Annex A, Volume 2, page 13

## 2.0 Applicable Documents DND Publications

DND DWG 385737, PURLIN, TENT NSN 8340-21-859-3214

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

Response:

DND DWG 385737, PURLIN, TENT NSN 8340-21-859-3214 will be provided with the Technical Data Package.

### Question 48

Acquisition, Statement of Work, Annex A, Volume 2, page 13

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## 2.0 Applicable Documents DND Publications

### NRC TEST PLAN, SHELTER SYSTEM THERMAL PERFORMANCE MEASUREMENT METHOD

This publication is required to be provided by Canada since it is not publicly available

Standard is required to ensure requirements are achieved

Response:

Please refer to Volume 1, Annex B, Appendix BB, Section 6.7, U Factor test for the required procedures.

#### Question 49

Acquisition, Statement of Work, Annex A, Volume 2, page 15

## 2.0 Applicable Documents Other Documents

### DEF STAN 00-35, DEFENCE STANDARD: ENVIRONMENTAL HANDBOOK FOR DEFENCE MATERIEL (PART 5)/3 INDUCED MECHANICAL ENVIRONMENTS

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

Response:

Canada will not provide DEF STAN 00-35, DEFENCE STANDARD: ENVIRONMENTAL HANDBOOK FOR DEFENCE MATERIEL (PART 5)/3 INDUCED MECHANICAL ENVIRONMENTS. This document is accessible from IHS.

#### Question 50

Acquisition, Statement of Work, Annex A, Volume 2, page 16

## 2.0 Applicable Documents Other Documents

### MIL-STD-7365D, MILITARY SPECIFICATION - HOSE, AIR DUCT, FOR GROUND HEATERS

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

Response:

Canada will not provide MIL-STD-7365D, MILITARY SPECIFICATION - HOSE, AIR DUCT, FOR GROUND HEATERS This document is accessible from IHS.

#### Question 51

Acquisition, Statement of Work, Annex A, Volume 2, page 16

## 2.0 Applicable Documents Other Documents

### STANAG 2835, NATO ULTRAVIOLET REFLECTIVE WHITE COLOUR FOR THE CAMOUFLAGE OF MILITARY EQUIPMENTS IN SNOW ENVIRONMENTS

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

#### Response:

STANAG 2835, NATO ULTRAVIOLET REFLECTIVE WHITE COLOUR FOR THE CAMOUFLAGE OF MILITARY EQUIPMENTS IN SNOW ENVIRONMENTS will be deleted.

Para 2.4.3.4.3.1 of Appendix AA to Annex A of Volume 2 is amended to read:

"2.4.3.4.1. First Preference: FED-STD-595C colour: 37875 White

And Para 2.4.3.4.3.1.1 will be deleted.

#### **Question 52**

Acquisition, Statement of Work, Annex A, Volume 2, page 16

## 2.0 Applicable Documents Other Documents

### STANAG 4418, COUNTERSURVEILLANCE REQUIREMENTS CFTO B-GA-007-002/AF-001 = 1 CANADIAN AIR DIVISION MANUAL OF AIR MOVEMENTS VOLUME 2 TECHNIQUES & EQUIPMENT

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

#### Response:

STANAG 4418, COUNTERSURVEILLANCE REQUIREMENTS CFTO B-GA-007-002/AF-001 = 1 CANADIAN AIR DIVISION MANUAL OF AIR MOVEMENTS VOLUME 2 TECHNIQUES & EQUIPMENT will be deleted.

#### **Question 53**

In-Service Support, Statement of Work, Annex A, Volume 3, page 10

## 2.0 Applicable Documents 2.2 DND Publications

### A-GG-040-004/AG-001, GENERAL SAFETY PROGRAM – VOLUME 1, POLICY AND PROGRAM, 2005-09-10

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved



Solicitation No. - N° de l'invitation

W8476-155245/A

Client Ref. No. - N° de réf. du client

W8476-155245

Amd. No. - N° de la modif.

004

File No. - N° du dossier

112qfW8476-155245

Buyer ID - Id de l'acheteur

112qf

CCC No./N° CCC - FMS No/ N° VME

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**Response:**

A-GG-040-004/AG-001, GENERAL SAFETY PROGRAM – VOLUME 1, POLICY AND PROGRAM, 2005-09-10 will be provided with the Technical Data Package.

**Question 54**

In-Service Support, Statement of Work, Annex A, Volume 3, page 10

2.0 Applicable Documents 2.2 DND Publications

B-GL-342-001/FP-000, LAND EQUIPMENT MANAGEMENT SYSTEM, 2001-09-10

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

**Response:**

B-GL-342-001/FP-000, LAND EQUIPMENT MANAGEMENT SYSTEM, 2001-09-10 will be provided with the Technical Data Package.

**Question 55**

In-Service Support, Statement of Work, Annex A, Volume 3, page 10

2.0 Applicable Documents 2.2 DND Publications

C-01-100-100/AG-005, ACCEPTANCE OF COMMERCIAL AND FOREIGN GOVERNMENT PUBLICATIONS AS ADOPTED PUBLICATIONS, 1996-02-29

This publication is required to be provided by Canada since it is not publicly available

Standard is required to ensure requirements are achieved

**Response:**

C-01-100-100/AG-005, ACCEPTANCE OF COMMERCIAL AND FOREIGN GOVERNMENT PUBLICATIONS AS ADOPTED PUBLICATIONS, 1996-02-29 will be provided with the Technical Data Package.

**Question 56**

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In-Service Support, Statement of Work, Annex A, Volume 3, page 10

2.0 Applicable Documents 2.2 DND Publications

C-01-100-100/AG-006, SPECIFICATION - WRITING, FORMAT AND PRODUCTION OF TECHNICAL PUBLICATIONS, 1996-03-01

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

Response:

C-01-100-100/AG-006, SPECIFICATION - WRITING, FORMAT AND PRODUCTION OF TECHNICAL PUBLICATIONS, 1996-03-01 will be provided with the Technical Data Package.

**Question 57**

In-Service Support, Statement of Work, Annex A, Volume 3, page 10

2.0 Applicable Documents 2.2 DND Publications

C-02-008-001/TS-000, GENERAL SAFETY LITHIUM BATTERIES HANDLING, STORAGE PRESERVATION AND DISPOSAL INSTRUCTIONS, 1995-02-08

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

Response:

C-02-008-001/TS-000, GENERAL SAFETY LITHIUM BATTERIES HANDLING, STORAGE PRESERVATION AND DISPOSAL INSTRUCTIONS, 1995-02-08 will be provided with the Technical Data Package.

**Question 58**

In-Service Support, Statement of Work, Annex A, Volume 3, page 10

2.0 Applicable Documents 2.2 DND Publications

C-02-015-001/AG-000, UNSATISFACTORY CONDITION REPORTING, 2004-01-30

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

Response:

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C-02-015-001/AG-000, UNSATISFACTORY CONDITION REPORTING, 2004-01-30 will be provided with the Technical Data Package.

**Question 59**

In-Service Support, Statement of Work, Annex A, Volume 3, page 10

2.0 Applicable Documents 2.2 DND Publications

D-01-002-007/SG-001, REQUIREMENTS FOR THE PREPARATION OF CONFIGURATION MANAGEMENT PLANS

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

Response:

D-01-002-007/SG-001, REQUIREMENTS FOR THE PREPARATION OF CONFIGURATION MANAGEMENT PLANS will be provided with the Technical Data Package.

**Question 60**

In-Service Support, Statement of Work, Annex A, Volume 3, page 10

2.0 Applicable Documents 2.2 DND Publications

D-01-100-211/SF-000, SPECIFICATION PRESERVATION, STORAGE AND HANDLING INSTRUCTIONS, 1991-06-01

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

Response:

D-01-100-211/SF-000, SPECIFICATION PRESERVATION, STORAGE AND HANDLING INSTRUCTIONS, 1991-06-01 will be provided with the Technical Data Package.

**Question 61**

In-Service Support, Statement of Work, Annex A, Volume 3, page 11

2.0 Applicable Documents 2.2 DND Publications

D-01-100-214/SF-000, SPECIFICATION FOR PREPARATION OF PROVISIONING DOCUMENTATION FOR CANADIAN FORCES EQUIPMENT, 2002-05-01

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

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**Response:**

D-01-100-214/SF-000, SPECIFICATION FOR PREPARATION OF PROVISIONING DOCUMENTATION FOR CANADIAN FORCES EQUIPMENT, 2002-05-01 will be provided with the Technical Data Package.

**Question 62**

In-Service Support, Statement of Work, Annex A, Volume 3, page 11

2.0 Applicable Documents 2.2 DND Publications

D-01-100-215/SF-000, SPECIFICATION FOR PREPARATION OF MATERIEL CHANGE NOTICES (MCN) FOR CANADIAN EQUIPMENT, 2002-05-01

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

**Response:**

D-01-100-215/SF-000, SPECIFICATION FOR PREPARATION OF MATERIEL CHANGE NOTICES (MCN) FOR CANADIAN EQUIPMENT, 2002-05-01 will be provided with the Technical Data Package.

**Question 63**

In-Service Support, Statement of Work, Annex A, Volume 3, page 11

2.0 Applicable Documents 2.2 DND Publications

D-01-400-002/SF-000, SPECIFICATION FOR LEVELS OF ENGINEERING DRAWINGS AND ASSOCIATED LISTS, 2011-03-01

This publication is required to be provided by Canada since it is not publicly available Standard is required to ensure requirements are achieved

**Response:**

D-01-400-002/SF-000, SPECIFICATION FOR LEVELS OF ENGINEERING DRAWINGS AND ASSOCIATED LISTS, 2011-03-01 will be provided with the Technical Data Package.

**Question 67**

Volume 3, RFP 6.3.1 b): We cannot find any labour rate listed for BER activity- please clarify?

**Response:**

See Volume 3, Annex A, Section 15.21.2, ISS Statement of Work. The DND Technical Authority will direct that material sent for repair and overhaul and deemed beyond economical repair (BER) be treated in one of two ways: (1) scrap/disposal – fixed rate applies; or (2) cannibalize – hourly repair rate applies.

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Volume 3, Annex B, Appendix BB, Repair and Overhaul Pricing Schedule will be updated on an upcoming amendment.

**Question 68**

Volume 3, RFP 6.4.1: Is this referring to the mark-up rates in App BE since there are no mark-up rates in App BD which deals with Task Authorizations?

Response:

Yes, this is correct.

**Question 78**

Volume 3, RFP 9.3.1: While it is understood that delivery destinations are 7 and 25 CFSD, please confirm that all prices in Annex B are FOB Contractor's Canadian plant?

Response:

As indicated in Vol 3, RFP 9.2, only Repair and Overhaul prices will be considered FCA Free Carrier at Contractor's facility.

**Question 79**

Volume 3, Annex A, 5.3.14: Please consider changing the time to begin LCMM-CSP to the date of IOC since it is impossible to predict a start time in advance of an event?

Response:

No; The LCMM-CSP position shall be staffed 30 days prior to IOC as specified under Para 5.3.14 of Annex A to Volume 3. This is the minimum time needed for DND to provide DWAN accounts, building pass and office space.

**Question 80**

Volume 3, Annex A, 6.2.2: For planning purposes, is the warehouse size to be determined based on the firm deliverables (CLIN 0009 – 0023) or does this include some quantity of optional equipment (OLIN 0101 – 0115) and if so what quantity of each option?

Response:

As a minimum, the size of warehouse shall be based on the firm deliverables, not including optional quantities. Section 6.2.2 is amended to read as follows: "As a minimum, the warehouse shall accommodate a surge of up to ten percent (10%) of each firm deliverable as defined in the Acquisition Contract."

**Question 81**

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Volume 3, Annex A, 6.2.2: Does the warehouse need to be sized to accommodate the shipping and storage containers?

Response:

The warehouse needs to be sized to accommodate shipping and storage containers; however, it is not necessary to store the containers indoors.

**Question 82**

Volume 3, Annex A, 6.2.2: Due to the security requirements and the Controlled Goods nature of the equipment, does the warehouse need to be in Canada and does the warehouse need to be included in the Facility Security Clearance required in RFP 1.1.1?

Response:

The warehouse does not need to be located in Canada. Whether it is located in Canada or outside Canada, it needs to be included in the Facility Security Clearance required in Volume 3, RFP 1.1.1.

**Question 83**

Volume 3, Annex A, 7.1.4: Please confirm that this clause applies to all prices in the contract as affected by changes in legislation?

Response:

Changes in legislation with a potential to affect contract prices will be reviewed on a case by case basis.

**Question 84**

Volume 3, Annex A, 7.5.6: Please confirm that this is the only requirement for entering data in DRMIS related to the ISS contract?

Response:

Correct. Requirement 7.5.6 of Annex A to Volume 3 is only requirement for entering data in DRMIS related to the ISS contract.

**Question 85**

Volume 3, Annex A, 8.1.1.2: Please confirm that any root cause analysis will be treated as a Task Authorization since it is impossible to predict the cost of this type of work at the bid stage?

Response:

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No. The contractor shall conduct the root cause analysis as per Section 8.1.1.2 as part of core maintenance support services using contractor personnel as specified under Section 6.3.1 and Section 9 of Annex A to Volume 3.

**Question 86**

Volume 3, Annex A, 8.2.1: Please confirm that obsolescence management work will be treated as a Task Authorization since it is impossible to predict obsolescence in advance?

**Response:**

No. The contractor shall conduct obsolescence management as per Para 8.2.1 as part of core maintenance support services using contractor personnel as specified under Section 6.3.1 and Section 9 of Annex A to Volume 3. Task authorizations will be limited to equipment upgrades and design changes on a case by case basis.

**Question 87**

Volume 3 , Annex A, 13.1.2: Please confirm that the cost of FSR for support to combat operations will be calculated using negotiated rates and only FSR support to CFB's (as described in 13.1.1) is covered in CLIN 1912?

**Response:**

Firm hourly rate for FSR is applicable to all potential locations.

**Question 89**

Volume 3, App BA, CLIN 0231 – 0245: The SOW does not provide any scope of work for activities with these CLIN descriptions- please consider removing these CLIN's?

**Response:**

CLINs to be updated through an upcoming RFP amendment. Scope of Work for Logistic Support Analysis and Logistic Support Products can be found in Volume 2, Annex A, Statement of Work, Sections 8.1 and 8.2.

**Question 91**

This publication is required to be provided by Canada since it is not publicly available:

A-DS-100-100/AG-002 Writing, Format and Production Guide; C-01-000-001/AG-001 Specification – Authoring Publishing & Distribution (APDS) Deliverables Requirements; C-01-100-100/AG-006

Specification - Writing, Format; and C-01-100-100/AG-008 Specification – Writing Guide for D-LM-008-022/SG-000 Standard for Packaging of Documentation

Response:

Publication will be released together with the entire technical data package.

**Question 92**

Appendix BA to Annex B to Volume 1 Table 3 of Attachment 1 - Management, page 17, 3.8 The Technical staff includes at least one (1) certified technician in each field: - Mechanical. Please define "mechanical technician". Unable to locate specific definition that would apply to equipment required under this RFP. Service Canada only defines "mechanical engineer technician" but not just a "mechanical technician". <http://www.servicecanada>

Response:

Please refer to Canadian Council of Technicians and Technologists (CCTT) for the definition. A Certified Technician is a member of a provincial association recognized by CCTT or equivalent, has completed DND DP-2, known as QL-5, qualification as a trade Technician.

**Question 93**

Reference: HQSS Requirements Verification Matrix, Appendix AA, Annex A, Volume 2

Section 3.4. Air Conditioner - General Requirements, Page 109, 3.4.1 The Air Conditioner shall be designed to provide cooling, heating and ventilation to the Operations Shelter, Planning Shelter, and Office Shelter in accordance with paragraph 2.

Section 3.5. Air Conditioner - Interior Temperature, Humidity, and Temperature Uniformity, Page 112

3.5.1 Operations Shelters, Planning Shelters and Office Shelters each in conjunction with the Air Conditioner(s) shall: be able to achieve an interior shelter air temperature between 20°C and 26 °C within two (2) hours of starting the Air Conditioner(s) in cooling mode and a minimum temperature of 10°C in heating mode during operation in any of the NATO Climatic Categories A1, A2, A3, B1, B2, B3, and C0 in accordance with paragraphs 1.40.2.2, 1.40.2.3, and 1.40.2.1; and maintain the temperature within the range.

3.5.1.3 Assume Shelters do not contain people, furniture and operating equipment.



3.6. Air Conditioner – Growth Potential, Page 113; 3.6.1 Each Air Conditioner should be provided with 15% additional heat load capacity than its calculated design values in accordance with the HQSS-RVM to allow for future increases in load.

It is unclear as to what DND's intended design loads are for the A/C system. Could DND clarify whether the A/C equipment is intended to be sized to support each shelter's design occupancy and electrical

loads in A1 to C0 conditions while providing an internal environment in accordance with MIL-STD-1472G section 5.5.2.1 (which specifies fresh air requirements based on volume and occupancy), or whether the

A/C system is simply intended to be capable of providing ventilation as per MIL-STD-1472G without simultaneously meeting other MIL-STD-1472G temperature or humidity requirements, but while also being able to pass the closed system test specified in 3.5.1?

Without clarification, the bidders are left to make assumptions as to how DND will evaluate compliance of the proposed system, number of A/C units required per shelter and compliance of the 15% additional A/C capacity. Resulting bids may include unnecessarily undersized or oversized HVAC equipment, depending on how the bidders interprets the various lines in the HQSSRVM related to HVAC and overall HQSS system performance.

#### Response:

Please refer to Para 2.1.8.6, 2.1.9.5, 2.1.10.5, 2.17 and 2.19.1.5 for occupancy and workstations numbers to calculate the HVAC load for the shelter with the minimum acceptable fresh air required. The additional 15% is required for A/C load only.

#### **Question 94**

Reference: HQSS Requirements Verification Matrix, Appendix AA, Annex A, Volume 2

Section 3.17. Heater – General Requirements, Page 123;

3.17.1 - The Heater shall be designed to provide heating and ventilation to the Operations Shelter, Planning Shelter; and Office Shelter in accordance with paragraph 2.

3.18. Heater - Interior Temperature, and Temperature Uniformity, Page 126

3.18.1 Operations Shelters, Planning Shelters and Office Shelters each in conjunction with the Heater(s) shall be able to achieve an

interior shelter air temperature between 18°C and 23°C within two (2) hours of starting the Heater during operation in any of the NATO Climatic Categories C0, C1, C2 and C3 in accordance with paragraph 1.40.2.1.1 and wind conditions in accordance with paragraph 1.40.2.8.2; and maintain the temperature within the range.

3.18.1.3 Assume Shelters do not contain people, furniture and operating equipment.

It is unclear as to what DND's intended design loads are for the diesel fired heaters. Could DND clarify whether the diesel fired heater is intended to be sized to support each shelter's design occupancy in C0 to C3 conditions while providing an internal environment in accordance with MIL-STD-1472G section 5.5.2.1 (which specifies fresh air requirements based on volume and occupancy), or whether the heater is simply intended to be capable of providing ventilation as per MIL-STD-1472G without simultaneously meeting other MIL-STD-1472G temperature requirements, but while also being able to pass the closed system test specified in 3.18.1?

Without clarification, the bidders are left to make assumptions as to how DND will evaluate compliance of the proposed system and number of heaters required per shelter. Resulting bids may include unnecessarily undersized or oversized heaters, depending on how the bidders interpret the various lines in the HQSSRVM related to heater and overall HQSS system performance.

Response:

Please refer to Para 2.1.8.6, 2.1.9.5, 2.1.10.5, 2.17 and 2.19.1.5 for occupancy and workstation numbers to calculate the HVAC load for the shelter with the minimum acceptable fresh air required.

**Question 95**

Reference: HQSS Requirements Verification Matrix, Appendix AA, Annex A, Volume 2

Section 2.2. Effective Floor Area, Page 59; 2.2.1 The Effective Floor Area of the Operations Shelter,

Planning Shelter, Office Shelter, Shelter Connector Hub, Vehicle Boot, and Black-out Vestibule shall be defined as that area with an enclosed clear height of at least 2030 mm, when the Shelter is set up on a flat level surface with both the Semi-Rigid Flooring in accordance with paragraph 4 and Soft Flooring in accordance with paragraph 2.5 installed.

Section 2.1.8. Operations Shelter, Page 55; 2.1.8.2 The Operations Shelter should have between 74.3 m<sup>2</sup> (800 ft<sup>2</sup>) and 92.9 m<sup>2</sup> (1,000 ft<sup>2</sup>) Effective Floor Area in accordance with paragraph 2.2. The Effective Floor Area of the Office Shelter, shall be defined as the effective floor area as per the human engineering Mil-HBK-759 standard that area with an enclosed clear height of at least 2030 mm, when the Shelter is set up on a flat level surface.

Section 2.1.9. Planning Shelter, Page 56; 2.1.9.2 The Planning Shelter should have between 37.3 m<sup>2</sup> (400ft<sup>2</sup>) and 65.0 m<sup>2</sup> (700ft<sup>2</sup>) Effective Floor Area in accordance with paragraph 2.2. The Effective Floor Area of the Office Shelter, shall be defined as the effective floor area as per the human engineering Mil-HBK-759 standard that area with an enclosed clear height of at least 2030 mm, when the Shelter is set up on a flat level surface.

Section 2.1.10. Office Shelter, Page 57; 2.1.10.2 The Office Shelter should be between 16.3 m<sup>2</sup> (175ft<sup>2</sup>) and 27.9 m<sup>2</sup> (300ft<sup>2</sup>) Effective Floor Area in accordance with paragraph 2.2. The Effective Floor Area of the Office Shelter, shall be defined as the effective floor area as per the human engineering

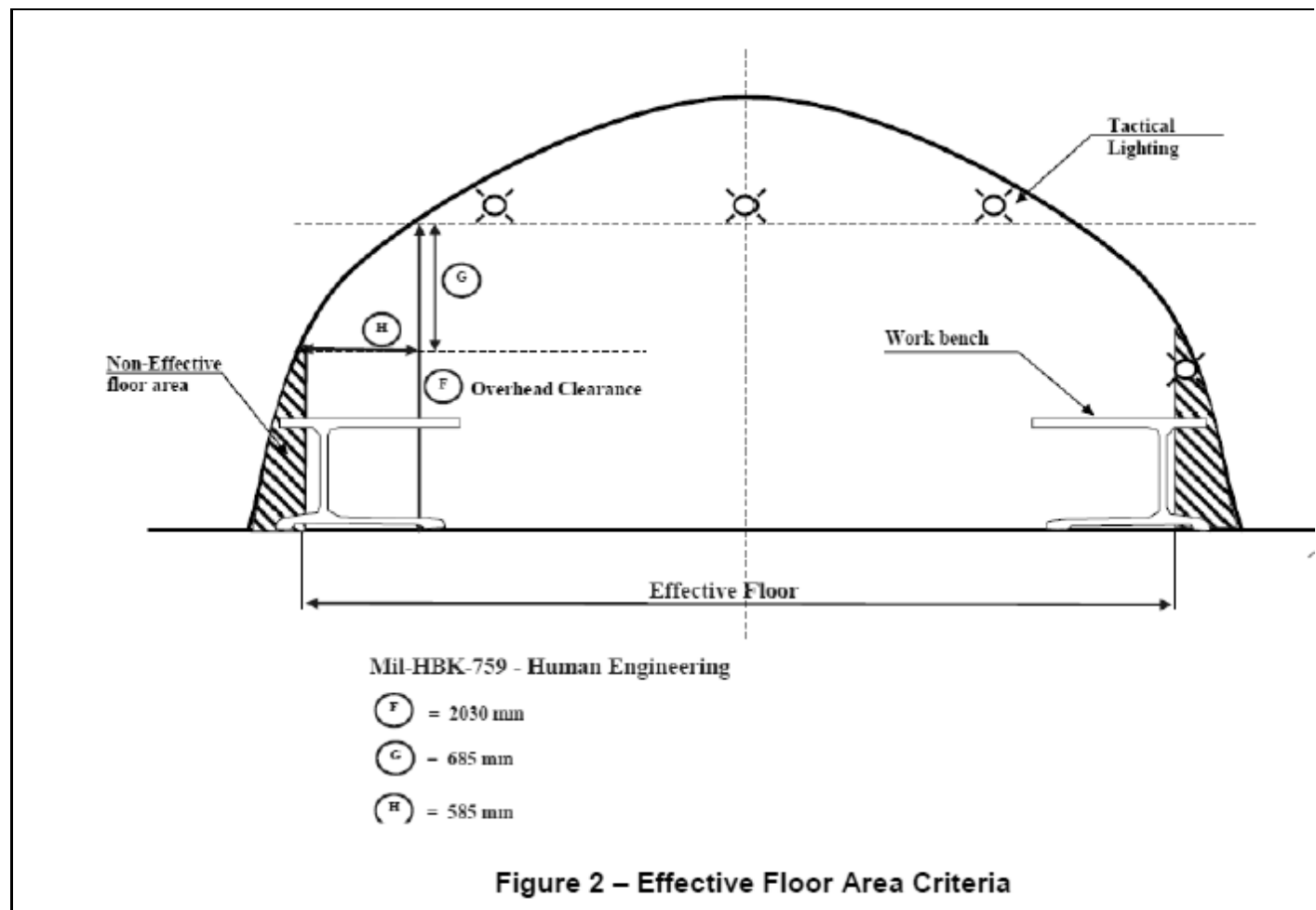
Mil-HBK-759 standard that area with an enclosed clear height of at least 2030mm, when the Shelter is set up on a flat level surface.

Section 2.1.11. Shelter Connector Hub, Page 57; 2.1.11.3 The Shelter Connector Hub should be between 4.6 m<sup>2</sup> (50ft<sup>2</sup>) and 13.9 m<sup>2</sup> (150ft<sup>2</sup>) Effective Floor Area. The Effective Floor Area of the Shelter Connector Hub, shall be defined as the effective floor area as per the human engineering

Mil-HBK-759 standard that area with an enclosed clear height of at least 2030 mm, when the Shelter is set up on a flat level surface.

Reference: Third Party Verification Test Plan, Appendix BB, Annex B,

Volume 1, Section 6.3.7 Verification Procedure, Page 23 6.3.7.1 Effective Floor Area - The effective floor area shall be measured by Third Party personnel as per the criteria shown in Figure 2 – Effective Floor Area Criteria, and verified by DND personnel.



The definition of Effective Floor Area in the HQSSRVM matches that in HQSS Acquisition and In-Service Evaluation, Appendix BA,

Annex B, Volume 1, Table 5, page 27, but does not match that in Appendix BB - Third Party Verification, page 22 of 48. It would be impossible to produce Figure 2 from section 6.3.7.1 in Appendix BB - Third Party Verification from the description of Effective Floor Area in the HQSSRVM combined with

MIL-HDBK-759. Figure 2 allows a portion of the Effective Floor Area to be a reduced height space, which isn't implied by the HQSSRVM, Appendix BA - Technical Bid Evaluation, or MIL-HDBK-759.

MILHDBK-759 has no section related to the Effective Floor Area of shelters. Would DND please confirm which method of determining Effective Floor Area is correct?

This affects shelter fabric, frame, and floor sizes, components weights, the fitment of the Semi-Rigid Floor, the calculation of fresh air requirements based on shelter volume per occupant, and HVAC capacity calculations that include ventilation requirements.

#### Response:

Volume 2, Annex A, Appendix AA, Section 2.2.1 is amended to read:

"2.2.1 The Effective Floor Area of the Operations Shelter, Planning Shelter, Office Shelter, Shelter Connector Hub, Vehicle Boot, and Black-out Vestibule shall be defined as that area with an enclosed clear height of at least 2030 mm, maximum overhead reach of 685 mm and maximum depth of reach of 585 mm when the Shelter is set up on top of a flat level surface with the Semi-Rigid Flooring in accordance with paragraph 4, and Soft Flooring in accordance with paragraph 2.5, installed."

#### **Question 96**

Reference: HQSS Requirements Verification Matrix, Appendix AA, Annex A, Volume 2

Section 2.6. Thermal Properties, Page 69; 2.6.1 The Operations Shelter, Planning Shelter, and Office Shelter shall have a heat transmission rate (U Factor) no greater than 131.8 Watts/° per m2, when tested in accordance with the Third Party Verification Test Plan.

2.6.2 The Operations Shelter, Planning Shelter, and Office Shelter should have a heat transmission rate (U Factor) no greater than

58.0 Watts/° per m2, when tested in accordance with Third Party Verification Test Plan.

Reference: Third Party Verification Test Plan, Appendix BB, Annex B, Volume 1

Section 6.7 U Factor Test, Page 33;

6.7.6 - Verification Procedure 1. The Bidder personnel will position the office shelter inside climate chamber.

2. The Third Party test personnel place baseboard heaters inside the shelter at least 6" from the walls. The number of heaters will be based on the size of the Bidder's office shelter.

3. The Third Party test personnel will place thermocouples on stands inside shelter at least 6" from any surface

4. The Third Party test personnel will lower and maintain chamber temperature to  $-18 \pm 1^\circ\text{C}$  and the office shelter will be allowed to cold soak until its components temperature is within  $\pm 1^\circ\text{C}$  of  $-18^\circ\text{C}$ .

5. The Third Party test personnel will turn on baseboard heaters and monitor power supply with transducers and a data acquisition system.

6. The Third Party test personnel will adjust power level to maintain a  $56^\circ\text{C}$  difference between the interior and exterior of the shelter, if possible.

7. Allow temperatures to stabilize for a minimum of ten (10) hours, whereby the temperature does not change by more than  $\pm 1^\circ\text{C}$  per hour.

8. Compute U Factor from resulting data.

The values of 58.0 & 131.8 Watts/ $^\circ$  per m2 from the HQSSRVM, when combined with U-Factor formula, reference section 6.7.6 of the Third Party Verification, page 34, produce heat loads that are outside of our expectations for this program. Taking into account the shelter size ranges, the thermal transmission rates stated, and using the minimum shelter sizes with the minimum thermal transmission rate to obtain the low end numbers, and the maximum shelter sizes with the maximum thermal transmission rate to obtain the high end numbers, we come up with the following results:

- Office shelter heat loads of 220,000 - 870,000 Btu/hr

- Planing shelter heat loads of 510,000 - 2,020,000 Btu/hr

- Operations shelter heat loads of 1,010,000 - 2,880,000 Btu/hr

Could the Crown please confirm that their current approach to thermal performance verification as outlined in the RFP is as desired.

Response:

Please refer to Section 6.7.6, paragraph 2, of Volume 1, Annex B, Appendix BB for the U Factor test procedure. The third party will place the baseboard heater inside the shelter. The number of heaters will be based on the size of the shelter. The idea is to maintain a temperature difference of  $56^\circ\text{C}$  between the internal and the external sides of the shelter material if possible. A power meter will measure the thermal load in watts, or the Btu inputs inside the shelter. Using the formula provided, the U factor will be calculated. The input thermal load is dependent on the internal volume of the shelter, and the heat transmission rate which is dependent on the insulation factor. The heat load numbers provided in the question above do not appear to be accurate.

Reference to volume 2, Appendix AA to Annex A, Para 2.6.1 and Para 2.6.2 is amended to read:

" 2.6.1 The Operations Shelter, Planning Shelter, and Office Shelter shall have a heat transmission rate (U Factor) no greater than 5.47 Watts/° per m2, when tested in accordance with the Third Party Verification Test Plan. As Mandatory; and

2.6.2 The Operations Shelter, Planning Shelter, and Office Shelter shall have a heat transmission rate (U Factor) no greater than 2.67 Watts/° per m2, when tested in accordance with the Third Party Verification Test Plan. As Desirable requirement"

Reference to Volume 1 Appendix BB to Annex B, Table Appendix A: Mandatory Criteria Verification, Requirement # 4, RVM reference 2.6.1 and Appendix B: Point Rated Criteria Verification, Item 45, RVM reference 45 and Para 6.7.5 ON Page 33 of 48 is amended to read:

" 2.6.1 The Operations Shelter, Planning Shelter, and Office Shelter shall have a heat transmission rate (U Factor) no greater than 5.47 Watts/° per m2, when tested in accordance with the Third Party Verification Test Plan;

45	2.6.2	The Office Shelter should have a heat transmission rate (U Factor) no greater than 5.47 Watts/°2, when tested in accordance with National Research Council Canada, Test Plan - Shelter System Thermal Performance Measurement Method.	5.47	5.19	4.91	4.63	4.35	3.79	3.51	3.23	2.95	2.67			
			>	>	>	>	>	>	>	>	>		Perf. Level #	Weight	Points Scored (Per Level x Weight)
			X	X	X	X	X	X	X	X	X	Watts / °			
			=	=	=	=	=	=	=	=	=	m2			
			5.19	4.91	4.63	4.35	4.07	3.79	3.51	3.23	2.95	2.67	> X		
			Watts / °	Watts / °	Watts / °	Watts / °	Watts / °	Watts / °	Watts / °	Watts / °	Watts / °	Watts / °			
			att	att	att	att	att	att	att	att	att	att			
			m2	m2	m2	m2	m2	m2	m2	m2	m2	m2			
			0	1	2	3	4	5	6	7	8	9	10	0.9	

and

**6.7.5 Mandatory Requirement**  
**Verification**  
**Matrix Req# Rated**

---

4	Mandatory	The Office Shelter must have a heat transmission rate (U Factor) no greater than 5.47 Watts/° when tested in accordance with the National Research Council Canada, Test Plan - Shelter System Thermal Performance Measurement Method.
	2.6.1	
45	Rated	The Office Shelter should have a heat transmission rate (U Factor) no greater than 2.67 Watts/° when tested in accordance with National Research Council Canada, Test Plan - Shelter System Thermal Performance
	2.6.2	

**Question 98**

Reference: Third Party Verification Test Plan, Appendix BB, Annex B, Volume 1.

Section Appendix B: Point Rated Criteria Verification, Page 48. Total points scored on the rated criteria evaluated @ / 123.

The points total for this section is 126, not 123 as stated in this section. Please confirm.

Response:

The total in TABLE 2 OF ATTACHMENT 1 – TECHNICAL POINT RATED CRITERIA, on page 12 of 32 of Appendix BA to Annex B to Volume 1 is amended to read:

“Total Points scored on the Point Rated Criteria – Technical = 114”

The total in TABLE 5 OF ATTACHMENT 2 – NRC VERIFICATION (TECHNICAL) POINT RATED CRITERIA, on page 32 of 32 of Appendix BA to Annex B to Volume 1 is amended to read:

“Total Points scored on the rated criteria evaluated @ / 126 ”

**Question 99**

Reference: HQSS Requirements Verification Matrix (HQSS-RVM), Appendix AA, Annex A, Volume 2.

## Section 5.7. Tactical Lighting Kit - Performance Characteristics, Page 152.

5.7.1. When operating in Normal Lighting Mode, the Tactical Lighting Fixtures shall emit white light with a colour temperature 5100K.

No range or tolerance is provided for the colour temperature. Range or tolerance is required for design purposes.

### Response:

Please use a white color range from 5000K to 5300K.

Para 5.7.1 of Appendix AA to Annex A to Volume 1 is amended to read:

"When operating in Normal Lighting Mode, the Tactical Lighting Fixtures shall emit white light with a colour within the range of 5000K to 5300K"

### **Question 100**

Reference: HQSS Requirements Verification Matrix, Appendix AA, Annex A, Volume 2, Page 107

Section 3.3. HVAC - External Air Ducts; 3.3.2. The HVAC External Air Ducting shall be designed in accordance with Society of Automotive Engineers (SAE) AS7365 A (12" diameter)

Specifying a 12" diameter ducting will significantly increase the velocity of the air from the Air Conditioner. This will result in an increase in the system pressure that the fan must work against and adversely affect operating efficiency. Higher velocity air will also cause an increase in noise. Therefore, we recommend removing the 12" diameter requirement or specifying an upper limit of at least 16" diameter ducting. Specifying 12" diameter ducting limits design options and will not yield optimal operating efficiency.

### Response:

Please refer to Friction Chart ASHRAE HANDBOOK. The Friction loss in inches of water per 100 ft long ducting as follows:

For 12" duct diameter @ 1000 CFM = 0.125 Inches of water per 100 ft.

For 16" duct diameter @ 1000 CFM = 0.086 Inches of water per 100 ft.

For 12" duct diameter @ 2000 CFM = 0.45 Inches of water per 100 ft.

For 16" duct diameter @ 2000 CFM = 0.3 Inches of water per 100 ft.

The performance between 12" & 16" ducting are within the acceptable limits. No change to the requirement specified under 3.3.2 will be required.

### **Question 101**



Reference : HQSS Requirements Verification Matrix, Appendix AA, Annex A, Volume 2, Page 148

Section 5.2. Tactical Lighting Kit - General; 5.2.4. The Tactical Lighting Kit in each Shelter shall be certified for compliance by the Canadian Standards Association (CSA) or by a certification body accredited by the CSA or the Standards Council of Canada (SCC).

Please confirm that all components of the sub-kits (e.g. Lighting and Power Panel, Power Outlet Assembly) must be certified for compliance by CSA or by a certification body accredited by the CSA or the Standards Council of Canada (SCC). Must ensure that all components are certified to avoid dangerous non-certified products.

Response:

All components of the sub-kits (e.g. Lighting and Power Panel, Power Outlet Assembly) shall be certified for compliance by CSA or by a certification body accredited by the CSA or the Standards Council of Canada (SCC).

**Question 102**

Reference: HQSS Requirements Verification Matrix, Appendix AA, Annex A, Volume 2, Page 159

Section 6. HQSS – Shipping and Storage Containers; 6.1. Four (4) types of containers shall be provided:

6.1.1. 20 foot standard – 8 foot height (NSN 8145-21-914-4367)

6.1.2. 20 foot side opening – 8 foot height (NSN 8145-21-921-0858)

6.1.3. TriCon – 8 foot height, Three Side Opening (NSN 8145-01-537-6254)

6.1.4 BiCon – 8 foot height (NSN 8145-01-540-5854) Mandatory

Could you please provide detailed specifications and/or drawings for the ISO container with NSN numbers: 8145-21-914-4367, 8145-21-921-0858, 8145-01-537-6254, and 8145-01-540-5854. We require to know what standard features these ISO containers are equipped with including configuration of tie-downs, if any, as well as placement of electrical or lighting fixtures, if any. This is needed to determine if additional tie-downs are required, and what the internal available stowage space is.

Response:

Detailed specifications or drawings for ISO containers need to be acquired from the OEM of the container.

- 20' standard (NSN 8145-21-914-4367). P/N: DV-20, NCAGE: 3AH99;
- 20' side opening (8145-21-921-0858) P/N: 9776280-1, NCAGE: 35907;
- tricon (8145-01-537-6254) P/N: BXTDCGCDND003, NCAGE: 09PD1; and
- bicon (8145-01-540-5854) P/N: BXTDCGCDND002, NCAGE: 09PD1."

DND will provide the drawing for the 20' side opening NSN 8145-21-921-0858, P/N: 9776280-1, NCAGE: 35907 only.

#### Question 104

HQSS-RVM, Appendix AA to Annex A to Volume 2 , page 134

3.26 Heater - Safety Requirements; 3.26.1.2 The Heater shall contain a Carbon Monoxide (CO) and Carbon Dioxide (CO<sub>2</sub>) detector with alarm and positive fuel and fan shutoff.

CO monitors are commonly used in installations (e.g. household, boats, recreational vehicles) where combustion by-products have a chance to enter the living space. However, CO<sub>2</sub> detectors are not normally used for these types of installations. Research indicates that -51°C CO<sub>2</sub> detectors are not readily commercial available and therefore we recommend that the requirement for a CO<sub>2</sub> detector to be removed. It's technologically not possible to comply with this requirement under all of the climatic conditions listed under paragraph 1.40.2.1. Low Temperature. Only the CO detector is required to detect a breach in the heat exchanger to signal the heater to generate an alarm and positively shut-off the fuel and fan.

#### Response:

HQSS-RVM, Appendix AA to Annex A to Volume 2 , page 134, 3.26 Heater - Safety Requirements; 3.26.1.2 is amended to read:

"3.26.1.2 The heater shall contain a Carbon Monoxide (CO) detector with alarm and positive fuel and fan shutoff."

#### Question 105

We seek clarification on Requirement 5.7.15 of Appendix AA to Annex A to Volume 2 (HQSS Requirements Verification Matrix).

Requirement 5.7.15 states a light level required in the first 5 minutes after turning on the lighting system at -51C. We have a proprietary system that would allow the lights to work at this temperature, but will produce no light for the first few minutes and then 100% of the light output thereafter. The 100% output will be achieved before the 5 minute limit imposed in 5.7.15. The wording of the 5.7.15 requirement is a bit confusing. Can you please confirm that the solution detailed above would meet the requirement?

#### Response:

With reference to requirement 5.7.15, the light fitting will be soaked at -51C. When the fitting has reached a temperature of -51C ±1 C, the power will be turned on and the illumination intensity will be measured after 5 minutes from starting the light. The illumination intensity shall not drop more than 30% from the value of room temperature illumination intensity, and after 20 minutes from starting the light, the illumination intensity shall recover to 100% of its room temperature value. A system able to achieve 100% illumination intensity within 5 minutes will be deemed compliant. .

**Question 106**

Reference: Volume 1 - Bidder Instructions and Requirements

Section: Part 3, Para 3.1.2 of Volume 1 - Bidder Instructions and Requirements, page 8 and Part 2, para 2.3 of Volume 1 - Bidders Instructions and Requirements, Appendix AA to Annex A

"Section V: Industrial and Technological Benefits Proposal (six (6) hard copies) and (one (1) soft copy on CD/USB)" contradicts "Eight (8) hard copies and one electronic copy of the Proposal are required"

Type: Number of copies for bid submission

Question: Can you please confirm the requirement?

Response:

Canada requests that the bidder submit eight (8) hard copies and one electronic copy of the Industrial and Technological Benefits Proposal. Article 3.1.2 of Part 3 to Volume 1, Article 2.3 of Appendix AA to Annex A to Volume 1 and Article 2.3 of Appendix AB to Annex A to Volume 1 have been amended.

**Question 107**

Reference: Volume 1 ? Bidder Instructions and Requirement, Attachment BE1 to Appendix BE to Annex B, HQSS Acquisition ITB Bid Evaluation

Section: Point 4, Paragraphs 4.1.1, and 4.1.2, page 7

4.1.1 "The extent to which the Bidders' Commitment to achieve VP Activities..." and 4.1.2 "The extent to which the Bidder identifies VP Activities...."

Type: Clarification of "commitment" and "identification"

Question: Please specify the required evidence to be submitted with the proposal that would confirm a Bidder's "Commitment" to achieving VP Activities? Please also specify the required evidence to be submitted with the proposal that would confirm the "identification" of VP Activities. In both cases, should the Transactions be defined and submitted?

Response:

In reference to Article 4.1.1 of Attachment BE1 to Appendix BE to Annex B to Volume 1, the Bidder should provide a statement that indicates the Bidder's Commitment to achieve Transactions within the Identified Market Segment that meet the Eligibility Criteria. Transactions are not required to be submitted to receive VP points for this Rated Requirement. The Bidder's VP Commitment will be incorporated into any ensuing contract in Article 2.1.2 of Annex D to Volume 2. Article 6.4.2 of Appendix AA to Annex A to Volume 1 and Appendix DE to Annex D to Volume 2 have been amended.

**Question 109**

Vol 2, App AA, 1.1.14: COTS equipment is not designed and tested to meet military standards and STANAG's, please advise whether offering COTS equipment takes precedence and negates any

requirement to meet military standards or STANAG's and subsequent testing as may be specified for that equipment?

Response:

Volume 2, Annex A, Appendix AA, Section 1.1.14. states "the requirement of the HQSS are to be met, to the extent possible, with equipment that is Commercial off-the-shelf (COTS) and/or Modified COTS (MCOTS)." Therefore, COTS product does not take precedence over the performance of the HQSS. The proposed HQSS shall meet the entire mandatory requirement to become a compliant product.

A109-F

**Question 110**

Vol 2, App AA, 1.3.1: Following a review of Vol 1, App BB, not all aspects of this specification appear to be conducted in the third party verification tests. For example Vol 1, App BB, Figure 1 does not specify provision of the cargo containers referenced in 1.3.1.1- please clarify.

Response:

Please refer to Volume 1, Annex B, Appendix BB, Para 6.1.3 which specifies that cargo containers will be provided by the Contractor.

**Question 111**

Vol 2, App AA, 1.3.1/1.4.1: Demonstration for all 20 stowage configurations listed in Vol 2, Annex A, 5.5.2.6.6, over terrain and set-up/withdrawal for all shelters in all environmental conditions represents an enormous, complex and expensive task. Please clarify whether this is the requirement or provide a specific specification in the event the demonstration is less onerous?

Response:

Demonstration will be required for one HQSS configuration as proof compliance for other HQSS configurations. However, the configuration selected for the demonstration shall contain all elements of the HQSS.

**Question 112**

Vol 2, App AA, 1.3.1.3.5/ 1.4.1.3.5: Please consider relaxing the environmental demonstration requirement unless you can advise bidders where a test facility is available that can simultaneously provide facilities large enough to set-up and operate a HQSS System to be demonstrated at -51C, with winds of 80Km/hr gusting to 110 Km/hr, with all other environmental factors? Also please advise if this demonstration is to be performed on all 20 stowage configurations? Alternatively please specify the demonstration requirements should the requirement be relaxed.

Response:

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With reference to the environmental demonstration, if the contractor cannot find an environmental test facility to demonstrate the entire HQSS complex, individual testing of HQSS elements will be acceptable. The demonstration will be required for one HQSS configuration that will be adequate to prove compliance of other HQSS configurations. However, the configuration selected for the demonstration shall contain all elements of the HQSS.

**Question 113**

Vol 2, App AA, 1.5 to 1.20: Demonstration for all configurations specified is onerous, please consider relaxing the requirement as recommended for 1.3.1/1.4.1?

Response:

Demonstration will be required for one HQSS configuration that will be adequate to prove compliance of other HQSS configurations. However, the configuration selected for the demonstration shall contain all elements of the HQSS.

**Question 114**

Vol 2, App AA, 1.3.1/1.6.1/1.10.1/1.12.1/1.14.1: Where performance has been demonstrated during third party verification please consider removing the requirement for demonstration after contract award?

Response:

No change to the requirement. However, the test will not be repeated after contract award. The test result and the data will be reviewed and included in the FAIT report and the Functional Configuration Audit.

**Question 115**

Vol 2, App AA, 1.21.2.2: Please consider removing the requirement to demonstrate compliance over the full range of cold temperature as this is a cost prohibitive requirement.

Response:

No change to the requirement Vol 2, App AA, 1.21.2.2. The cold weather demonstration can be done using the cold weather clothing only.

**Question 116**

Vol 2, App AA, 1.22.1.1: How will this requirement be measured- Mil STD 1472G?

Response:

This is correct. Requirement Vol 2, App AA, 1.22.1.1 shall be designed to meet Mil-Std-1472G.

**Question 117**

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Vol 2, App AA, 1.22.1.2: Please specify the carrying weight per person in order to determine the quantity of handles?

Response:

Please refer to Mil-Std-1472 Section 5.9.11.3 to determine the carrying weight per person.

**Question 118**

Vol 2, App AA, 1.23.1/1.23.2/1.23.10: Please consider changing the term HVAC to Air Conditioner since HVAC was earlier defined in 1.1.7 as consisting of both the air conditioner and heater? The weight of the heater is understood to be 186 Kg or less according to 1.23.9.

Response:

Reference to Vol 2, App AA, 1.23.1/1.23.2/1.23.10 is amended to replace term "HVAC" with "Air Conditioning Unit (ACU)".

**Question 119**

Vol 2, App AA, 1.24.1.1: Please clarify the intent of "securely stowed". Does this mean stacked in such a manner that the cargo is secure or does the requirement include the provision of restraint systems such as nets/straps etc to restrain the cargo? If the latter, bidders will be required to conduct a preliminary stowage analysis in order to determine the need and quantity of stowage equipment? This will also require bidders to be advised how many of each Complex Type as specified in AB, Table 4 are intended to be stowed in each container type and vice versa.

Response:

Reference to Vol 2, App AA, 1.24.1.1. The requirement includes the design and provisioning of a restraining system to be secured during stowage and transportation of HQSS configuration inside the Cargo containers by land (ie- road / off-road and trail), sea and air.

**Question 120**

Vol 2, App AA, 1.24.1.2: Please consider removing this requirement since the container types were specified by DND and presumably in so doing were confirmed to meet these transportability requirements?

Response:

No change to the requirement in Vol 2, App AA, 1.24.1.2.

**Question 121**

Vol 2, App AA, 1.24.2.1: There is no indication that pallets will be provided as GFE, nor is an equipment Contractor normally responsible to secure cargo on aircraft pallets. As a result the term "Inspection" after

contract award is not understood. Please consider removing the post award requirement since the activity is covered under DID SE-11?

Response:

The aircraft pallets will not be provided by Canada. The Aircraft Pallet specified in Para 5.5.2.6.6 is provided for guidance only on the maximum allowed dimensions and weight of HQSS packaged elements that can be loaded on an aircraft pallet. The physical inspection on the HQSS to ensure the packaging of HQSS components meets the requirement for aircraft pallets.

**Question 122**

Vol 2, App AA, 1.24.3.1: The post award requirement is to test. Will DND provide all vehicles and is the test to be performed in 16 configurations of complex type/container for each of the vehicles resulting in 48 tests? Please provide the test distance and breakdown of terrain type?

Response:

The requirement specified under Vol 2, App AA, 1.24.3.1. the cargo should be qualified to the same level of shock and vibration subjected to the carrier truck. The 16 HQSS configurations shall be tested and qualified to the highest limit of the three specified carriers. The test distance and terrain types as follows:

- On-Road profile = 250 KM
- Off-road profile = 300 KM as follows:
  - \* Sand terrain = 125 KM
  - \* Gravel terrain = 160 KM
  - \* Side sloped portion 20%, 30% & 40% = 2 KM (one kilometer with road-side up and one kilometer with curb-side up)
  - \* Belgian block = 10 KM
  - \* granite block = 2 KM
  - \* Concrete sine wave = 1 KM.

**Question 123**

Vol 2, App AA, 1.24.3.2: The vehicles listed are PLS while the requirement states "weather deck cargo", please provide the correct vehicle descriptions and suggest including the LSVW. Similar to the prior questions please confirm this means 64 tests assuming the LSVW makes four vehicle types?

Response:

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The requirement specified under Vol 2, App AA, 1.24.3.1: the cargo should be qualified to the same level of shock and vibration subjected to the carrier truck. The 16 HQSS configurations shall be tested and qualified to the highest limit of the three specified carriers.

**Question 124**

Vol 2, App AA, 1.24.4.1: Please confirm this requires 16 tests and advise if this means rail impact tests iaw MIL-STD 810F 4.5.8?

Response:

Reference to Vol 2, App AA, 1.24.4.1: the HQSS 16 Cargo configuration shall meet rail impact tests as per MIL-STD 810F 4.5.8.

**Question 125**

Vol 2, App AA, 1.24.6.4: Will components be installed on a pallet or slung by their carrying handles? What is the maximum acceleration of the CH-147?

Response:

Reference to Vol 2, App AA, 1.24.6. The components will be on a pallet and not slung by their carrying handles.

**Question 126**

Vol 2, App AA, 1.24.6.5: How will Inspection be performed, will the Contractor be required to load components on a CH-147?

Response:

Reference to Vol 2, App AA, 1.24.6.5. The Contractor will not be required to load components on a CH-147. The inspection is required to ensure the weight and the dimensions are within the acceptable limits of the aircraft pallet.

**Question 127**

Vol 2, App AA, 1.24.6.5.1: Please consider removing the requirement since components must already be shown to fit in the smaller cargo compartment of the LSVW in 1.24.3.3.1.2?

Response:

No change to the requirement specified in Vol 2, App AA, 1.24.6.5.1

**Question 128**

Vol 2, App AA, 1.26/1.33.1-6: 15 year service life lists analysis or endurance test as the means of compliance post contract award. What criteria will Canada use to determine if the analysis provided is sufficient and, if it is not, what endurance test would Canada require to prove compliance?



**Response:**

Please refer to Volume 2, Appendix AA, Sections 1.26.1, 1.26.1.1, 1.26.1.2 and 1.26.1.3. The total number of operating hours per year is 4368 hours and the number expected number to be moved, set-up and stricken down is 36 times a year. Reliability block diagram including reliability and failure prediction data from original equipment manufacturer for the component will be sufficient to determine the compliance with Para 1.26 and 1.33.

**Question 129**

Vol 2, App AA, 1.27.1: Does Canada expect the function of all fabric or component fastening to be demonstrated in the presence of all materials listed i.e. Dirt, mud, ice, and snow?

**Response:**

Reference to Volume 2, Appendix AA, Section, 1.27.1: The function of all fabric or component fastening is to be demonstrated in the presence of all materials listed i.e. Dirt, mud, ice, and snow.

**Question 130**

Vol 2, App AA, 1.27.3/1.27.4/1.27.5: Please confirm this applies to access panels and items to be accessed during first level maintenance?

**Response:**

This is correct. Reference to Volume 2, Appendix AA, Section 1.27.3/1.27.4/1.27.5: This applies to access panels and items to be accessed during first level maintenance.

**Question 131**

Vol 2, App AA, 1.31: Please consider removing the requirement to demonstrate post contract since the third party verification will provide this?

**Response:**

No change to the requirement. However, the test will not be repeated after contract award. The test result and the data will be reviewed and included in the FAIT report and the Functional Configuration Audit.

**Question 132**

Vol 2, App AA, 1.32.1.1: Please clarify- this requirement is inconsistent with 2.3.14/15?

**Response:**

Reference to Volume 2, Appendix AA, Sections 1.32.1.1 & Para 2.3.14/15: Section 1.32.1.1 is a mandatory requirement and Section 2.3.14 & 15 is desirable between different shelters.

### Question 133

Vol 2, App AA, 1.34.1: Please acknowledge that it will depend upon the type of repair whether this can be done through the full range of environments. For example high winds or the coldest temperatures may limit some types of repairs.

#### Response:

Reference to Volume 2, Appendix AA, Section 1.34.1: This is a mandatory requirement for 1<sup>ST</sup> and 2<sup>nd</sup> line repairs that need to be conducted under all climatic and environmental conditions according to Section 1.40. Temporary tarpaulins around the repaired area to provide environmental protection will be acceptable.

### Question 134

Vol 2, App AA, 1.34.3: Please provide a list of repairs since some repairs may not be achievable with the shelter remaining erect and operational. This list is also required to determine the effort involved to demonstrate post award. Please also confirm that repaired components used for demonstration can be part of the contract deliverables?

#### Response:

Please refer to Volume 2 Appendix AA, Section 1.34.2. 1<sup>ST</sup> level repairs shall be achieved within one hour and 2<sup>ND</sup> level repairs within three hours. 1<sup>ST</sup> and 2<sup>nd</sup> level repairs are listed under Volume 2. Appendix AA, Sections 1.34.5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and any other work that can be done within 3 hours.

### Question 135

Vol 2, App AA, 1.34.6: Please confirm this means replacing the zippered soft door panel with a like soft door panel?

#### Response:

Section 1.34.6 means replacing the zippered enclosure (assembly) on a soft door with a like zippered assembly. The door panel is not necessary to be replaced every time the zipper needs to be replaced.

### Question 136

Vol 2, App AA, 1.34.11: Please confirm this applies to the Operations Shelter only?

#### Response:

No. Please refer to Volume 2, Appendix AA, Section 1.34.11 "While replacing the arch center joint in any shelter.....".

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**Question 137**

Vol 2, App AA, 1.35.1.1: According to the reference the 95<sup>th</sup> percentile male weighs 103.35 Kg, please consider changing 2.19.1.3.2 to be consistent?

Response:

No change to the requirement 2.19.1.3.2. The chair shall be designed for person weight of 136 kg.

**Question 138**

Vol 2, App AA, 1.35.2: Please confirm Canada will provide the litter carrier for the demonstration?

Response:

Confirmed. Canada will provide the litter carrier during human engineering and user trial (HE&UT) for demonstration.

**Question 139**

Vol 2, App AA, 1.35.3: Sections 4 and 5 of the reference constitute 302 pages of specification. Please advise which subsections are applicable? In order to demonstrate compliance the Contractor needs to know what is considered to apply?

Response:

Please refer to Mil-Std-1472 section 4 and section 5 (General and detailed requirement). The applicable subsections as follows:

- 4.1 Objectives;
- 4.2 Standardization;
- 4.3 Function allocation;
- 4.4 Human engineering design;
- 4.5 Fail safe design;
- 4.6 Simplicity of design;
- 4.7 Interaction;
- 4.8 Safety;
- 4.9 Ruggedness;
- 4.10 Design for NBC Survivability;

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- 4.11 Design for electromagnetic pulse (EMP) hardening;
  - 4.12 Automation;
  - 4.13 Functional use of color;
  - 5.2.1.4.3 Orientation display faces;
  - 5.2.1.4.8 Lines of sight for frequently used display;
  - 5.2.6.12.8.4 Symbol brightness;
  - 5.2.5.3 Optical projection;
  - 5.2.6.6 Light-emitting diodes (LEDs);
  - 5.2.6.9 Liquid crystal displays (LCDs);
  - 5.2.6.12.8.4 Symbol brightness;
  - 5.2.6.12.8.5 Symbol line width;
  - 5.3.1.3 Audio display signal meaning;
  - 5.3.1.5 Audio display use with several visual displays;
  - 5.3.1.8 Audio display manual overrides;
  - 5.3.1.9.2 Failure;
  - 5.4 Controls (as applicable to equipment control panels, switches, touch-screen controls and display);
  - 5.5 Labeling;
  - 5.5.6 Equipment labeling
  - 5.7 Workspace design;
  - 5.8 Environment;
  - 5.8.1 Heating, ventilating, and air conditioning;
  - 5.8.2 Illuminance;
  - 5.8.3 Acoustical noise;
  - 5.8.4 Vibration. (equipment);
  - 5.8.5 Virtual environments (VE) (with respect to display, briefing, presentation and training);

5.9 Design for maintainers;

5.10 Design of equipment for remote handling;

5.11 Small systems and equipment;

5.13 Hazards and safety;

5.14 User-computer interface; and.

5.15 Visual display terminals (VDTs).

#### **Question 140**

Vol 2, App AA, 1.35.4: Please consider removing this requirement since 4.1 of the reference states that items listed or certified to CSA are considered to meet the standard? CSA is already called up in 1.36.5.

#### Response:

No change to Vol 2, App AA, 1.35.4. However, CSA certified equipment will be deemed compliant with requirement 1.35.4.

#### **Question 141**

Vol 2, App AA, 1.35.5: Please advise how this will be demonstrated as this could be an onerous task given the general nature of the requirement?

#### Response:

The requirement 1.35.5 will be verified during the Human Engineering and User Trial (HE&UT) in which unsafe situations will be eliminated by influencing the design of the equipment.

#### **Question 142**

Vol 2, App AA, 1.36.3: Please consider removing the requirement for certification post contract since by definition this must be provided by an independent third party and to do so would require the Contractor to engage (and pass the cost on to Canada) a third party to review the entire HQSS.

#### Response:

No change to the requirement specified in Volume 2, Appendix AA, Section 1.36.3 since CSA certification is required after contract award.

#### **Question 143**

Vol 2, App AA, 1.36.4: In the post award column is a reference to EHSIR- is this supposed to refer to DID EH-01 instead or is a EHSIR required also?

#### Response:

Section 1.36.4 of Volume 2 to Appendix AA: Means of compliance is amended to read “

“Compliance Statement/ DID HQSS-ACQ-EH-01”

#### Question 144

Vol 2, App AA, 1.38.1: Please confirm that this only refers to non-current-carrying metal parts of electrical equipment as specified in 1.2 b) I of the referenced CSA standard and not the entire HQSS?

#### Response:

Correct, this refers to the non-current carrying metal parts. The CSA 22.2 NO 41-13 Specify under Para 1.2 b i.:

“b) equipment for making electrical connections between

- i. the grounding conductors used in electrical power systems, non-current-carrying metal parts of electrical equipment, armored grounding wires, metal raceways, and the like; and “

If the Shelter structure is made of metal parts and used to support electrical equipment and the cables and wires as raceway, a bonding conductor will be required between the electrical panel, shelter metal frame and the ground electrode.

#### Question 145

Vol 2, App AA, 1.38.2: Please confirm this relates only to the electrical equipment?

#### Response:

Please refer to answer 144.

#### Question 146

Vol 2, App AA, 1.39.3.1: Please advise whether this can be tested at an ancillary level?

#### Response:

Correct. This can be tested at an ancillary level.

#### Question 147

Vol 2, App AA, 1.40.2.1.3: Please confirm that the tests required post contract will actually have to be performed since this is a very significant cost driver? Please advise whether the HQSS System must be tested as a whole or whether sub-systems and ancillaries may be tested individually?

#### Response:

Sub-systems and ancillaries may be tested individually. Test will not be required for any component from the HQSS that was tested and verified prior to contract award.

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**Question 149**

Vol 2, App AA, 2.6.1: Please advise whether the test results from the third party verification can be used to negate the need for further testing post contract?

Response:

Correct: The test results from the third party verification can be used to negate the need for further testing post contract.

**Question 150**

Vol 2, App AA, 2.6.3: The post contract demonstration is considered very onerous if all temperatures, wind conditions and other environmental factors of 1.40 are required. Please consider providing a specific instruction for the configuration and environmental conditions under which the demonstration shall be performed?

Response:

Volume 2, Appendix AA, Section 2.6.3 is amended to replace reference "1.40" with "1.40.2.3.1".

**Question 151**

Vol 2, App AA, 2.9.13.1: The quantity is inconsistent with 2.10.4.1.1?

Response:

No contradiction exists between the requirement specified under Sections 2.9.13.1 and 2.10.4.1.1. The six (6) soft doors specified contain two (2) emergency exit doors that will not be used as points of interconnection.

**Question 152**

Vol 2, App AA, 2.9.14.1: The quantity is inconsistent with 2.10.4.2.1?

Response:

No contradiction exists between the requirement specified under Sections 2.9.14.1 and 2.10.4.2.1. The six (6) soft doors specified contain two (2) emergency exit doors that will not be used as points of interconnection.

**Question 153**

Vol 2, App AA, 2.9.16.1: It is understood that doors are also required at each end IAW 2.10.4.4.1, therefore IAW 1.31.2 please confirm that the shelter connector hub is in fact a fully enclosed shelter that could be erected as a stand alone shelter?

Response:

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Correct. The shelter connector hub is in fact a fully enclosed shelter that could be erected as a stand-alone shelter

**Question 154**

Vol 2, App AA, 2.9.17.1: Please confirm that the vehicle connection end will not contain all of the attributes as a Point of Connection described in 2.9?

Response:

Please refer to Volume 2, Appendix AA, Section 2.18.5 for the vehicle boot interconnection

**Question 155**

Vol 2, App AA, 2.9.18.1: It is understood that doors are required at each end IAW 2.10.4.5.1 while 2.9.18.1 only requires one point of interconnection- please clarify? Assuming 2.10.4.5.1 is correct, IAW 1.31.2 please confirm that the blackout vestibule is in fact a fully enclosed shelter that could be erected as a stand alone shelter?

Response:

The blackout vestibule is a fully enclosed shelter that could be erected as a stand-alone shelter. Please refer to Volume 2, Appendix AA, Section 2.9.19 for the interconnection requirement.

**Question 156**

Vol 2, App AA, 2.10.1: The terms emergency door and regular door are confusing. Is the emergency door the same as the hard door and the regular door the same as the soft door described in 2.10.2.

Response:

Please refer to Section 2.10.1.2: Each door opening shall be capable of serving as either an emergency exit or regular door. Therefore, the emergency door is the same as the hard door, and the regular door is the same as the soft door.

**Question 157**

Vol 2, App AA, 2.10.2.13.2: Please consider removing the fire rating requirement for the door since the shelter is not fire rated?

Response:

No change to the requirement.

**Question 158**



Vol 2, App AA, 2.10.4.5.2: Please clarify whether each Blackout Vestibule is provided with one set of hard doors since the deliverables list Table 1 of Appendix AB lists the same quantity of hard doors as blackout vestibules-leading to possible duplication of the requirement?

Response:

There is no duplication of the requirement with respect to number of hard doors. The intent from the requirement specified in Section 2.10.4.5.2 is that the hard door will be installed on blackout vestibule.

**Question 159**

Vol 2, App AA, 3.5.1/3.5.2: Please provide a specific test requirement since testing all shelters in all environmental conditions will prove onerous and costly?

Response:

Testing the equipment at the extreme cold / hot temperature combined with extreme wind/humidity condition will be sufficient to qualify the other environmental condition. Please refer to the following test procedures from Mil-Std-810:

- High temperature – Test Method. 501.5 for climatic A1 category.

Low temperature – Test Method. 502.5 for climatic C2 category.

**Question 160**

Vol 2, App AA, 3.6.1: Please clarify the requirement since the same air conditioner is required for each type of shelter in varying quantities and there are three shelter sizes each of which has a range of specified size?

Response:

Reference to Volume 2, Appendix AA, Section 3.6.1: The heat load specified is dependent on the number of occupants and the equipment used inside the shelter. Please refer to Sections 2.1.8.6, 2.1.9.5 & 2.1.10.5

**Question 161**

Vol 2, App AA, 3.10.3.8: Please remove this requirement since it is not achievable?

Response:

Agreed. Section 3.10.3.8 will be deleted.

**Question 162**

Vol 2, App AA, 3.11.3/3.24.3: Please clarify whether the wheels are to be lockable from pivoting or lockable from rolling?

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**Response:**

Reference to Volume 2, Appendix AA, Sections 3.11.3 / 3.24.3. Lockable means lockable from rolling.

**Question 163**

Vol 2, App AA, 3.10.3.2/3.23.3.1.1: Since multiple air conditioners and heaters are used for the planning and operations shelters, please consider specifying a minimum cable length since the remote should not be located too far such that it interferes with the operation of a different heater or air conditioner?

**Response:**

Reference to Volume 2, Appendix AA, Section 3.10.3.2 / 3.23.3.1.1. the minimum cable length for the in-shelter control / display shall be 50ft.

**Question 164**

Vol 2, App AA, 3.13.1.6/ 3.26.1.11: If a power cord is provided with a receptacle at the end connecting to the air conditioner or heater please consider this will act as the "disconnect switch" since simply unplugging the power cord will serve the same purpose?

**Response:**

This is not acceptable. Unplugging the power cord under load may create a spark that will damage the plug and receptacle. A disconnect switch is required by code.

**Question 165**

Vol 2, App AA, 3.18.1: Please consider removing the requirement for worst case cold temperature combined with worst case wind condition since it will prove impossible to provide a heater of such capacity that also meets the weight requirement and other specifications for the heater. Also there is no test facility known to provide a test chamber suitable for such testing.

**Response:**

No change to the requirement.

**Question 166**

Vol 2, App AA, 3.23.2.1: The specification violates 3.26.1.4 and CSA certification at 3.1.3 which mandates the connection of a CO detector while the heater is operating. In addition, since the thermostat is on the remote, the heater will not operate without the remote.

**Response:**

Section 3.23.2.1 is amended to read: "3.23.2.1 The Heater shall not function without remote control panel attached / connected to the heater."

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**Question 167**

Vol 2, App AA, 3.23.2.4.2/3.23.2.4.3/3.23.2.4.7: Please advise whether one indicator can be used to report the three specified failures?

Response:

One indicator can be used to report the three specified failures in Sections 3.23.2.4.2/3.23.2.4.3/3.23.2.4.7

**Question 168**

Vol 2, App AA, 3.23.2.4.4/3.23.2.4.8: Please advise whether one indicator can be used to report the two specified failures?

Response:

One indicator can be used to report the three specified failures in Sections 3.23.2.4.4/3.23.2.4.8

**Question 169**

Vol 2, App AA, 3.23.2.4.9: Please consider removing this requirement as it is not considered a necessary feature by the heater manufacturers?

Response:

No change to the requirement.

**Question 170**

Vol 2, App AA, 6.4: Please consider removing this requirement. Alternatively please provide a specification to describe the acceptance criteria for previously used containers since simply stating number of ports has no bearing on their condition. Many containers are used to ship scrap metal which can damage the containers.

Response:

Section 6.4 is provided for information only and compliance is not required.

**Question 171**

Reference: Appendix BA to Annex B, Volume 1, HQSS Acquisition and In-Service Evaluation

Section: Table 2 of Attachment 1 - Technical Point Rated Criteria, page 5

2. Compliance Statement Evaluation - point-rated criteria in accordance with the HQSSRSVM - Appendix A1 to Annex A HQSS ACQ SOW. We could not located Appendix A1 in within the SOW nor any of the other RFP documents released. The information provided in Table 2 points to Appendix AA to

Annex A to Volume 2, HQSS Acquisition Resulting Contract, HQSS-RVM Please confirm document reference to ensure bid compliant response.

Response:

Section 2 of Appendix BA to Annex B to Volume 1 is amended to read:

"2. Point rated requirements and their designated point values are listed in the tables below.

A minimum score of 62 points out of the 104 available points for the HQSS TECHNICAL rated criteria at Table 2 must be achieved for a bid to be considered responsive and to proceed further in the evaluation process.

**Compliance Statement Evaluation** – Bidders must demonstrate their capability to meet point-rated criteria in accordance with the HQSS-RVM – Appendix AA to Annex A HQSS ACQ SOW."

**Question 172**

Reference: Appendix AA to Annex A Volume 2, HQSS Acquisition Resulting Contract.

Section: Glossary, page 3. HQSS Verification Plan: The HQSS Verification Plan, in accordance Appendix C3 to Annex C will identify specific requirements.

Appendix C3 does not exist. Annex C pertains to SCRL requirements not RVM. Please specify correct Appendix and Annex to ensure bid response compliance.

Response:

Volume 2, Annex A, Appendix AA, Glossary page 3 is amended to read as follows:

"HQSS Verification Plan: The HQSS Verification Plan, in accordance with Appendix BB to Annex B of Volume 1 specific requirements.

**Question 173**

Reference: HQSS Resulting Contract, Volume 3, page 13. Section: 6.8 Economic Price Adjustment.

6.8.1 The Firm Monthly Rate for Core Services detailed at Annex B, Appendix BA, the Firm Unit price and Firm Hourly Labour Rates for Repair and Overhaul Services detailed in Appendix BB and the Firm Hourly Labour Rate for Task Authorization detailed in Appendix BD will be adjusted starting with at the start date of Contract Year 6, should the option periods, Option Period One (Year 6 to 10) be exercised, by the amount established based on the annual average percentage increase (decrease) in the monthly index of the Consumer Price Index for Canada, All-Items (Not Seasonally Adjusted), published in Statistics Canada Catalogue no.62-001-X, Table 5

at a 50 weighting and the Average Weekly Earnings for Canada, All employees, excluding overtime, (Not Seasonally Adjusted), NAICS = Industrial aggregate excluding unclassified business, published in

Statistics Canada Table No. 281-0027 at a 50 weighting, for the 12-month period ending 2 months prior to the new Contract Year Start date.

Reference: Bid Evaluation Plan, Annex B to Volume 1. Section: Total Evaluation Price for HQSS, Attachment BD1 to Annex B to Volume 1, page 14.

Table 19 In-Service Support - Firm labour Rates for Task Authorization Work or Services - Option Period 1. "Price of CLIN 2001 will be the product of yearly firm hourly rates multiplied by estimated levels of effort for Years 6 to 10, based on a 2% annual escalation from CLIN 1901."

The calculation methodology outlined in Volume 3, HQSS ISS Resulting Contract, page 13, Point 6.8, Para 6.8.1 is different than the methodology suggested in Volume 1, Annex B, Appendix BD, Attachment BD1 - HQSS Aggregate Price Evaluation Calculation, Tables 19, 20, 21 and 22 - In-Service Support - Firm labour Rates for Task Authorization Work or Services - Option Periods 1, 2, 3 and 4.

Can you please confirm which method will be used to calculate price increase for Task Authorization for the Option Periods?

Clarification of an apparent contradiction in price escalation methodology that will be used.

Response:

For bid evaluation, a 2% annual escalation will be applied as indicated in Tables 19, 20, 21 and 22 of Volume 1, Annex B, Attachment BD1, Total Evaluated Price for HQSS. Should Option Periods be exercised after contract award, an economic price adjustment will be applied based on year 1-5 contract prices.

**Question 174**

Reference: HQSS Requirements Verification Matrix, Appendix AA, Annex A, Volume 2

Section 3.10. Air Conditioner - Control and Display Requirements, page 116; 3.10.1. The Air Conditioner(s) of each Shelter (Operations

Shelter, Planning Shelter and Office Shelter) should be controllable from a detachable control display panel that can be relocated inside the Shelter (i.e. In-Shelter Control/Display Panel).

Does paragraph 3.10.1 refer to the requirement under paragraph 3.10.3. for In-Shelter Control/Display Panel for Air Conditioner? It is our assumption that it does however, the requirements under section 3.10.3. is only mandatory if the bidder is claiming compliance to the desirable requirement in paragraph 3.10.1. Can you please clarify if this requirement is desirable or mandatory? Clarification is required for compliance.

Response:

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Appendix AA to Annex A of Volume 2, Section 3.10.1 is amended to read "Mandatory" to be consistent with requirements under 3.10.3.

**Question 175**

Reference: HQSS Requirements Verification Matrix, Appendix AA, Annex A, Volume 2.

Section 3.10.3. In-Shelter Control/Display Panel for Air Conditioner, page 117. 3.10.3.1 The Air Conditioner shall include a detachable and tethered control/display panel (i.e. In-Shelter Control/Display Panel) to be installed inside the Shelter.

Please confirm that 3.10.3.1 becomes mandatory only if the bidder is claiming compliance to the desirable requirement in 3.10.1? Clarification is required for compliance.

Response:

Appendix AA to Annex A of Volume 2, Section 3.10.1 is amended to read "Mandatory" to be consistent with requirements under 3.10.3.

**Question 176**

Reference: HQSS Requirements Verification Matrix, Appendix AA, Annex A, Volume 2.

Section 3.4. Air Conditioner - General Requirements, page 111; 3.4.13. The Air Conditioner, in the heating mode, should have a

Heating Seasonal Performance Factor – Region V (HSPF V) of 7.4 or higher, when tested in accordance with CSA-C656-14.

Region V specifies operating temperatures as low as -23 degrees Fahrenheit with a design point of -10 degrees F. Please confirm Region V compliance is needed for "limited heating capacity for transitional climate conditions" as specified in 3.3.1.1.

Requirement conflict with design intent from paragraph 3.2.1.1.

Response:

Reference to Volume 2, Appendix AA to Annex A, Section 3.4.13. The Region V compliance is required for "limited heating capacity for transitional climate conditions" as specified in 3.2.1.1.

**Question 177**

Reference: HQSS Requirements Verification Matrix, Appendix AA, Annex A, Volume 2.

Section: 3.2. HVAC System, page 106; 3.2.1.1 Air Conditioner (also known as an Environmental Control Unit) IAW paragraph 3.4, to provide ventilation, cooling and a limited heating capacity for transitional climate conditions.

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Transitional heating should be considered region I or II. Please confirm the intent/definition of "limited heating capacity". Requirement conflict with paragraph 3.4.13.

Response:

Reference to Volume 2, Appendix AA to Annex A, Section 3.2.1.1. The intent of the "limited heating capacity" requirement is for Region I & II which is more applicable to the south area of United States, such as Florida, Louisiana, Texas, Arizona, etc.

**Question 178**

Reference: HQSS Requirements Verification Matrix, Appendix AA, Annex A, Volume 2

Section: 2.4. Shelter Soft-Walls, page 63; 2.4.2. The soft-wall(s) of the Shelter shall meet Federal Test Method Standard 191A-5931 (5 kV imposed) to discharge to ten (10)% of imposed kV in 0.5 seconds or less.

Will the Crown be providing bidders with a replacement standard given that Federal Test Method Standard 191A-5931 has been inactivated for new design, as per Notice 7, dated August 9, 2000.

The referenced Federal Test Method Standard has been inactivated.

Response:

Reference to Volume 2, Appendix AA to Annex A, Section 2.4.2: DND will use the test method specified in Federal Standard 191A-5931.