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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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**Issuing Office - Bureau de distribution**

Defence Communications Division. (QD)

11 Laurier St./11, rue Laurier

Place du Portage, Phase III, 8C2

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<b>Title - Sujet</b> (TPSNG2) Test Equipment	
<b>Solicitation No. - N° de l'invitation</b> W8476-195946/A	<b>Amendment No. - N° modif.</b> 006
<b>Client Reference No. - N° de référence du client</b> W8476-195946	<b>Date</b> 2019-07-25
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$QD-021-27266	
<b>File No. - N° de dossier</b> 045qd.W8476-195946	<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 2019-08-09</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT
<b>F.O.B. - F.A.B.</b> Specified Herein - Précisé dans les présentes	
<b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input checked="" type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Heather Mitchell	<b>Buyer Id - Id de l'acheteur</b> 045qd
<b>Telephone No. - N° de téléphone</b> (819) 420-2197 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

Instructions: See Herein

Instructions: Voir aux présentes

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
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<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

**W8476-195946/A  
AMENDMENT 6**

**Amendment 06 is raised to provide all Bidder Questions and Answers including # 1 thru # 52.**

**Bidder Questions and Answers**

**# 1 through 32 received as of 2019-05-23 (Amendment 2)**

**Question 1**

Annex A - Section 3.2.3.9 "must complete 3-D X-ray on 100% of CCA, SCCD Front Panel, PN 0976648"

Question – We have 2-D X-ray with Oblique view (Allows 70% Tilt with 360 degree view) – Our mfg experience has demonstrated that that technology is comparable to 3-D X-ray for the detection of non- thermally activated flux. Can the section be updated to allow for compliance based on both 3-D and 2- D X-Ray with Oblique viewing?

**Answer 1**

Yes, Paragraph 3.2.3.9 of Annex A will be revised to read, "The Contractor must inspect all CCAs for non-thermally activated flux. The Contractor:

- a. must complete inspection using 3-D X-Ray or 2-D X-Ray with Oblique viewing on 100% of CCA, SCCD Front Panel, PN 0976648, and
- b. may complete inspection using 3-D X-Ray or 2-D X-Ray with Oblique viewing on 100% of CCA, SCCD Interface, PN 0976645,

during CCA assembly. The Contractor must provide the necessary X-Ray equipment. CCAs that do not comply with standards per Paragraph 3.2.3.5 above must be repaired per paragraph 3.2.3.11.1 below."

**Question 2**

RFP - Section 5.1.2.1 "a minimum of 80% of the total bid price consists of Canadian goods as defined in paragraph 1 of clause A3050T."

Question – 80% is a significant number based on the large number of electronic components and COTS which are supplied by US and other foreign countries. Can the requirement be relaxed to 70%?

**Answer 2**

No, the requirement cannot be relaxed from 80% to 70%.

**Question 3**

Bidder's Conference Briefing Slide 7 (Schedule) reflects a six-month period from Contract Award to the start of Low Rate Initial Production. What will DND do if the lead times of some components are longer than six months?

**Answer 3**

The duration of the Initialization Phase is estimated as being approximately six-months based on prior experience, but six months is not specified in Annex A as a requirement. Authorization to commence the LRIP Phase will be granted at LRIP Readiness Reviews once all Initialization Phase activities (See Paragraphs 3.2.1.3, 3.3.1.3 and 3.4.1.3 of Annex A) have been completed, including the Contractor having acquired all requisite components. Therefore, it is likely that the commencement of LRIP will be established by the longest lead time component.

**Question 4**

Why wasn't the procurement sole-sourced to the design houses?

**Answer 4**

A non-competitive contract was not justifiable per PSPC [Contracting Policy Notice 2007-04 - Non-Competitive Contracting](#).

**Question 5**

Will PSPC authorize a one month extension?

**Answer 5**

The Bid Closing Date will be extended from 2019/06/05 to 2019/07/05.

**Question 6**

When does the two-year warranty period begin?

**Answer 6**

Per Article 7.2.2 of the Contract, and Paragraph 1 of General Condition 2030 22 (2014-09-25), "The warranty period begins on the date of delivery".

**Question 7**

RFP Annex A, section 3.1.3 (Government Furnished Information) outlines "The TA will provide Government Furnished Information (GFI) identified in Appendix A3 to the Contractor after Contract Award". Difficult to quote missing information, refer to Appendix A3, page 183.

**Answer 7**

Paragraph 3.1.3 of Annex A indicates that the GFI identified in Appendix A3 of Annex A will be provided "to the Contractor after Contract Award", which is true. Appendix A3 of Annex A states that the GFI identified in Appendix A3 of Annex A will be provided "to Bidders upon request and/or to the Contractor with the Contract", which is also true. As such, no GFI is "missing" for Bidders. All listed GFI is equally available to Bidders and the winning Contractor. For consistency, the words "after Contract Award" will be removed from Paragraph 3.1.3 of Annex A. Bidders should note that the documents that are identified as GFI in Appendix A3 of Annex A are essential to formulating a bid.

Bidders should request provision of the GFI in accordance with Article 2.6 of the RFP.

**Question 8**

Do the boards require any form of Nano or conformal coating?

**Answer 8**

No, the SCCD Circuit Card Assemblies do not require Nano or conformal coating.

**Question 9**

Can the BOMs for the PCBAs be supplied with Manufactures per each component (AVL)?

**Answer 9**

The SCCD Circuit Card Assembly drawings in the TPSMK Technical Data Package include Parts Lists  
i.e. Bills of Material (BOM) that specify the NATO Contractor and Government Entity (NCAGE) code of the requisite supplier for each component.

**Question 10**

Are there cosmetic tolerance guidelines for the SCCD? (What's not accepted? Blemishes, scratches, etc.?)

**Answer 10**

The SCCD enclosure finish requirements are specified in the Technical Data Package, and do not include cosmetic tolerance guidelines such as the touch-up requirements specified in MIL-DTL- 53072D.

**Question 11**

Are PCBs & Metal open AVL? Use our own awarded suppliers?

**Answer 11**

All Build-To-Print (BTP) components may be sourced to suppliers at the discretion of the Bidder. BTP component are those having an NCAGE of 35907. All Commercial-Off-The-Shelf (COTS) components must be sourced to the specified supplier. See also Answer 14 below.

**Question 12**

What does DND need done with removed equipment & HDD? (Returned, recycled or destroyed?)

**Answer 12**

Per Paragraph 1.1.a of Annex A, "The Contractor must manufacture TPSMKs, which DND will subsequently use to upgrade the TPSNGs to TPSNG (V2). Likewise, "The Contractor must produce Equipment Cases. DND will subsequently remove TPSNG (V2) components

from existing racks and mount them in the Equipment Cases". The same is true for the optional replacement Power Supplies. As such, other than GFE to be used to test products, there is no requirement for the Contractor to remove, install or in any way handle existing DND TPSNG test equipment. This activity will be performed by DND after the Contractor has delivered the TPSPMKs and Equipment Cases.

**Question 13**

Will the Equipment Cases require to be assembled empty or populated with: Interface Unit, MA Computer, POE Tester, SCCD, Power Supply and UPS?

**Answer 13**

The Contractor must deliver the Equipment Cases configured in accordance with the Technical Data Package, which does not include installation of any DND TPSNG test equipment. Please see Answer 12 above.

**Question 14**

Will DND have to approve AVL on commercial COTS?

**Answer 14**

Yes, per Paragraph 3.1.6.1.2.3 of Annex A, "The Contractor must use only component parts and material that are of the identical description, brand name, model and/or part number as specified in the TDP (including the AVL) or in a design change, deviation or waiver approved [by DND] per Paragraph 3.1.2 above.

The Contractor must not use component parts and material that are not specified in the TDP, AVL or an authorized design change, deviation or waiver".

The above applies to all Commercial-Off-The-Shelf (COTS) parts and material. See also Answer 15 below. For clarity, the words, "(including the AVL)" will be removed from Paragraph 3.1.6.1.2.3 of Annex A.

**Question 15**

Is there an AVL?

**Answer 15**

No, the TPSPMK, Equipment Case and Toolkit Technical Data Packages do not include Alternate Vendors Lists (AVL), and AVLs are not available for inclusion.

**Question 16**

Are there clean/no-clean/RoHS requirements?

**Answer 16**

No, there aren't any clean/no-clean/RoHS requirements.

**Question 17**

Are there cleanliness test requirement, e.g. R.O.S.E?

**Answer 17**

No, there aren't any cleanliness test requirements for the SCCD circuit card assemblies.

**Question 18**

Are the SCCD, CSB Functional and LESv2 Functional tests automated or semi-automated?

If semi-automated what is the proportion of operator interactions with respect to the cycle time of each test? For example of a 10 minute cycle time, an operator's interaction with the UUT is required 3 minutes or 30% of the time.

**Answer 18**

The SCCD Self-Test, CSB Functional Test, and LESv2 Functional Test are semi-automated in that operator interaction is required.

The SCCD Self-Test time, CSB Functional Test time and LESv2 Functional Test time are provided in Paragraph 3.2.3.10.4.1 of Annex A. The proportions of these test times that require operation interaction are not available, but government-furnished TPSNG (V2) Operating Instructions, C-53- 996-B00/MB-001 provides a very clear understanding of the amount of operator interaction.

**Question 19**

Is Contractor at liberty to perform board level electrical tests after X-Ray 3.2.3.9 in Figure A-20 of RFP W8476-195946 on select SCCD CCAs?

**Answer 19**

Yes. Annex A specifies the minimum test requirements. The Contractor may perform additional testing at the Contractor's discretion.

**Question 20**

Is there GFI that provides SCCD test failure modes and diagnostics?

**Answer 20**

No, there is no available GFI that provides SCCD failure modes other than the test results from SCCD Self-Testing. Paragraphs 8 and 9 of Section 3 of government-furnished TPSNG (V2) Operating Instructions, C-53-996-B00/MB-001, indicate test options, i.e. test the entire SCCD via the SCCD Self- Test, or execute a specific test within the Specific Test Group, via a selection box.

**Question 21**

Is there GFI that provides Average Normalized Yield of TPSNG production?

**Answer 21**

There is no Average Normalized Yield information available from prior TPSNG (i.e. Interface Unit) production. Such information would not be representative of TPSNG (V2) (i.e. SCCD) production. As well, because only two pre-production SCCDs have been produced, there is no Average Normalized Yield information available for TPSNG (V2) production.

**Question 22**

Is there a specified format for test results?

**Answer 22**

There is no specified format for gathered test data. However, there is a specified format for test data included in the Technical Report per Data Item Description SE-006 of Appendix A2 of Annex A.

**Question 23**

Are test results accessible to the Contractor for analysis?

**Answer 23**

Yes, the TPSNG (V2) generates SCCD Self-Test and Cable Self-Test log files that are available to the Contractor for analysis to isolate SCCD faults. Sample log files will be included as GFI available per Article 2.6 of the RFP, and will be provided automatically to Bidders that have already requested the GFI.

**Question 24**

Is there a list of tools expected as Contractor-provided for debugging and troubleshooting?

**Answer 24**

Per Paragraph 3.2.3.11.1 of Annex A, the Contractor may use the government-furnished TPSNG (V2) and the government-furnished / Contractor-fabricated Self-Test Connection Device (STCD), to assist in debugging SCCDs and SCCD components respectively. See Paragraph 3.1.4 of Annex A regarding GFE and see Paragraph 3.2.3.10.3 of Annex A regarding the STCD. Any other tools that may be needed for debugging and troubleshooting are at the discretion of the Bidder.

**Question 25**

Are the PASS/FAIL criteria of test sequence results available through the TPSNG test software?

**Answer 25**

Yes, the SCCD Self-Test and Cable Self-Test log files that are available per Answer 23 above provide: test step names, maximum and minimum limit values and units, measured values, and test results.

**Question 26**

Is there support contract in place with Averno or General Dynamics to support GFEs used for system functional tests?

**Answer 26**

The Technical Authority will provide maintenance support of Government Furnished Equipment in accordance with Paragraph 3.1.4.2 of Annex A.

**Question 27**

Please clarify how the risk identified in Paragraphs 3.2.2, 3.3.2 and 3.4.2 of Annex A is to be handled with respect to lead time allowance between LRIP and FRP?

**Answer 27**

The second subparagraphs of the following paragraphs of Annex A will be amended as follows:

**Paragraph 3.2.2, TPSMK LRIP:** “Canada accepts the risk of component or material change associated with the Contractor ordering all authorized components and material required to produce the quantities specified under LRIP and FRP in Table 2 of Appendix A1 upon contract award. However, should the Contractor choose to produce TPSMK quantities beyond the authorized LRIP quantities, before receiving authorization via the TPSMK FRP Readiness Review to proceed to FRP, the Contractor does so at its own risk. The TA will not accept product delivery until FAI has been successfully completed and all corrective measures, including those involving GFE, have been approved and instituted per Paragraph 3.2.2.1.7 below.”

**Paragraph 3.3.2, Equipment Cases LRIP:** “Canada accepts the risk of component or material change associated with the Contractor ordering all authorized components and material required to produce the quantities specified under LRIP and FRP in Table 2 of Appendix A1 upon contract award. However, should the Contractor choose to produce Equipment Case quantities beyond the authorized LRIP quantities, before receiving authorization via the Equipment Cases FRP Readiness Review to proceed to FRP, the Contractor does so at its own risk. The TA will not accept product delivery until FAI has been successfully completed and all corrective measures, including those involving GFE, have been approved and instituted per Paragraph 3.3.2.1.6 below.”

**Paragraph 3.4.2, Toolkit LRIP:** “Canada accepts the risk of component or material change associated with the Contractor ordering all authorized components and material required to produce the quantities specified under LRIP and FRP in Table 2 of Appendix A1 upon contract award. However, should the Contractor choose to produce Toolkit quantities beyond the authorized LRIP quantities, before receiving authorization via the Toolkits FRP Readiness Review to proceed to FRP, the Contractor does so at its own risk. The TA will not accept product delivery until FAI has been successfully completed and all corrective measures, including those involving GFE, have been approved and instituted per Paragraph 3.4.2.1.6 below.”

**Question 28**

Please explain what constitutes objective evidence of product conformity?

**Answer 28**

Per Paragraph 10.2.1.13 of DID SE-001 of Appendix A2 of Annex A, to provide objective evidence of product conformity, the Bidder must define the following:

- Test Performance Requirements, Test Equipment, Test Process and Test Data for the Cable Assemblies identified in Paragraph 3.2.3.10.2 of Annex A;
- Test Performance Requirements, Test Equipment, Test Process and Test Data for the SCCD components identified in Paragraph 3.2.3.10.3 of Annex A;
- Test Performance Requirements, Test Equipment, Test Process and Test Data for the TPSMK components identified in Paragraph 3.2.3.10.4 of Annex A; and
- Test Performance Requirements, Test Equipment, Test Process and Test Data for the Equipment Cases, Tool Kits, and Power Supplies identified in Paragraphs 1.2.2, 1.2.3, and 1.2.4 of Annex A respectively.

**Question 29**

What is the weight of each Equipment Case?

**Answer 29**

The weight of the TPSNG (V2) Equipment Case and Toolkit Case, configured for delivery, are as follows:

- Equipment Case Assy, TPSNG (V2) Case 1 of 3, PN 1480580-1 – 145 pounds
- Equipment Case Assy, TPSNG (V2) Case 2 of 3, PN 1480581-1 – 122 pounds
- Equipment Case Assy, TPSNG (V2) Case 3 of 3, PN 1480582-1 – 162 pounds
- Equipment Case Assy, RCTS Case 1 of 1, PN 1480583-1 – 113 pounds
- Portable LCSS Toolkit Case A (Primary), PN 1698166-1 – 70 pounds
- Portable LCSS Toolkit Case B (Supplementary), PN 1698167-1 – 60 pounds

**Question 30**

Is it possible to have a photograph of a TPSNG (V2) configured in the Equipment Cases?

**Answer 30**

Below is a photograph of the GFE items as they were presented at the Bidders' Conference. The photograph shows the TPSNG (V2) test equipment installed in the Equipment Cases. A LESv2 is shown on top of the upper-left equipment case, and a CSB with test cables connecting it to the SCCD, is shown beneath the keyboard on the upper-right equipment case.



### Question 31

Requesting the following government documents as per your instructions in the tender Appendix A3:

- c. L-53-996-BAD/LC-000, Equipment Checklist, Test Program Set New Generation;
- d. L-53-996-BAD/LC-000, Equipment Checklist, Interface Unit Communication Unit Equipment;
- e. Technical Data Package, Test Program Set Modification Kit;
- f. Technical Data Package, Portable Equipment Cases; and
- g. Technical Data Package, Tool Kit.

### Answer 31

All of the requested documents are available on the DVD that was provided to bidders in response requests for same per Article 2.6 of the RFP as follows:

- a. L-53-996-BA0/LC-000, Equipment Checklist, Test Program Set New Generation can be found on the non-controlled goods DVD in the folder named "GFI".
- b. L-53-996-B00/LC-000, Equipment Checklist, Interface Unit Communication Unit Equipment can be found on the non-controlled goods DVD in the folder named "GFI".
- c. Technical Data Package, Test Program Set Modification Kit can be found: on the controlled goods DVD in the folder named "TPSMK (CG)"; and

on the non-controlled goods DVD in the folder named "TPSMK (Non-CG)".

- d. Technical Data Package, Portable Equipment Cases can be found on the non-controlled goods DVD in the folders named:
  - "Eqpt Case Assembly, RCTS Case 1 of 1, PN 1480583"; "Eqpt Case Assembly, TPSNGv2 Case 1 of 3, PN 1480580";
  - "Eqpt Case Assembly, TPSNGv2 Case 2 of 3, PN 1480581";
  - and "Eqpt Case Assembly, TPSNGv2 Case 3 of 3, PN 1480582".
- e. Technical Data Package, Tool Kit can be found on the non-controlled goods DVD in the folders named:
  - "Portable LCSS Toolkit Case A (Primary), PN 1698166" and
  - "Portable LCSS Toolkit Case B (Supplementary), PN 1698167".

**Question 32**

With reference to item e above, is it possible for the project LCMM to provide a sample set of tools to ensure correct fitment and layout within the tool cases?

**Answer 32**

Yes. Appendix A4 will be amended to add following two GFE items:

<u>Item</u>	<u>NSN</u>	<u>Quantity</u>
Portable LCSS Toolkit Case A (Primary)	4940-20-010-3360	1
Portable LCSS Toolkit Case B (Supplementary)	4940-20-010-3361	1

Note that these government furnished example toolkit cases are pre-production models. The TDP for production toolkit cases are slightly different in that Engineering Change DLCSPM-18-010 has been incorporated to add two tools. Engineering Change DLCSPM-18-010 will be included as GFI available per Article 2.6 of the RFP, and will be provided automatically to Bidders that have already requested the GFI.

**# 33 through 43 received as of 2019-06-28 (Amendment 3)**

**Question 33**

Is DND going to provide schematics / drawings of the various cables required for the build of the equipment required in the tender?

**Answer 33**

All required Government Furnished Information (GFI) is available on the DVDs that were provided to bidders in response to requests for same per Article 2.6 of the RFP.

For the following Build-To-Print (BTP) cables that are specified in the TPSMK Technical Data Package (TDP), the requested documents can be found on the non-controlled goods DVD in the folder named "TPSMK (Non-CG) " > "0976650 Mod Kit" > "0976609 SCCD":

- a. SCCD Internal Cable Assemblies listed in Paragraph 1.2.1.1.4 of Annex A.
- b. TPSMK Cable Assemblies listed in Section 1.2.1.2 of Annex A.

For COTS cables that are specified in the TPSMK TDP, the requested information is not needed.

#### **Question 34**

Please provide additional information or a drawing for part number O-12460-  
\_TPS\_R2013MMDD on part list 0976650-1.

#### **Answer 34**

The TA will provide the latest version of this software (Find # 11 of PL-0976650-1) to the Contractor as Government Furnished Material (GFM). The Contractor must copy the software onto CDs and include one CD as part of each TPSMK to be delivered per Contract Line Item Number (CLIN) 001 of Table 1 of Appendix A1.

By contrast, the Contractor must purchase software and/or licenses (Find #s 12 and 17 of PL-0976650-1) and deliver one of each as part of each TPSMK to be delivered per CLIN 001.

Annex A (Statement of Work): Paragraph 3.1.3 will be revised to clarify this requirement.

#### **Question 35**

Please provide the documents for Cable Assy 9383396-2.

#### **Answer 35**

Drawing 9383396-2 for BTP Electrical Power Cable Assembly, for CLIN 027 was inadvertently omitted from the Equipment Cases TDP. It will be included as Government Furnished Information (GFI) available per Article 2.6 of the RFP, and will be provided automatically to Bidders that have already requested the GFI.

As well, revisions will be made to the following RFP documents, as indicated:

- a. Annex A (Statement of Work):
  - i. Section 1.2.2: will be revised to describe the requirement for the cable assembly,
  - ii. Paragraph 3.3.2.1.4: will be revised to specify the requirement for a First Article Inspection Report (FAIR) for the cable assembly.
  - iii. Section 3.3.3.3: will be revised to specify test requirements for the cable assembly.
- b. Appendix A1 (Deliverable Items): CLIN 027 in Table 2 (Delivery Schedule) will be revised to require Low Rate Initial Production (LRIP) of the cable assembly.
- c. Appendix A2 (Deliverable Data):
  - i. Table 1: will be revised to insert new CDRL Item Number 016 for a First Article Inspection Report (FAIR) for the cable assembly. The succeeding CDRL items

- will be renumbered.
- ii. CDRL Item Number 016 (FAIR – Cable Assembly, Power, Electrical): will be added.
  - iii. DID ID Number SE-002 (First Article Approval Procedure): Paragraphs 5.1.1 and 5.5.4 will be revised to include First Article Inspection (FAI) and reporting requirements for the cable assembly.

**Question 36**

Please confirm the documentation for the 0976615-1 (Cable Assembly, SCCD TO J5300) which is called up on the Modification Kit, 0976650-1. The drawing only references 0976615-1, not -2. The requirements include 0976615-2, thus the documents are needed.

**Answer 36**

The correct requirement is for Cable Assembly, SCCD to Interface Unit J-5300/G, PN 0976615-2, as per the CLIN 007.

Approved Engineering Change Request (ECR) DLCSPM-16-012, which was inadvertently omitted from the TPSMK TDP will be included as Government Furnished Information (GFI) available per Article 2.6 of the RFP, and will be provided automatically to Bidders that have already requested the GFI.

Revisions will be made to the following RFP documents, as indicated:

- a. Annex A (Statement of Work): Section 3.2.3.10.4 will be revised to specify additional test requirements for the cable assembly.
- b. Annex B (Basis of Payment): Table 3 (Authorized Design Changes and Deviations) will be revised to add ECR DLCSPM-16-012.

**Question 37**

Display Unit, part number 1UCABCONS, contract line item number 026 is discontinued.

**Answer 37**

The authorized replacement display unit is PN RACKCONS1501, NCAGE 3AF91. Revisions will be made to the following RFP documents, as indicated:

- a. Annex A (Statement of Work): Section 1.2.2 will be revised to describe the requirement for the display unit.
- b. Appendix A1 (Deliverable Items): CLIN 026 in Table 1 will be revised to provide the part number, NATO Contractor and Government Entity (NCAGE) and NATO Stock Number (NSN) for the replacement display unit.
- c. Appendix A2 (Deliverable Data): Paragraph 5.2.2 of DID ID Number SE-002 (First Article Approval Procedure) will be revised to include Certificate of Conformance (CofC) requirements for the display unit.

A design change will be promulgated in due course to document this change.

**Question 38**

Please confirm the status of APRO P/N: WMUFD002G-ADISI-3. Supply base has responded item is end of life for many years. Supply base recommended the alternative solution, HERMIT-E Series Industrial grade SLC USB 3.0 Flash disk (APRO P/N: WMUFD002G-HEITI-3EL) as more reliable and in longer supply.

**Answer 38**

The authorized replacement for the SCCD Front Panel CCA flash drive is PN WMUFD002G-MPBTI, NCAGE SJN07.

Appendix A2 (Deliverable Data): Paragraph 5.2.2 of DID ID Number SE-002 (First Article Approval Procedure) will be revised to include Certificate of Conformance (CofC) requirements for the flash drive.

A design change will be promulgated in due course to document this change.

**Question 39**

Please confirm the status of ST500LM021. CDW Canada, hard drive vendor says part ST500LM021 is discontinued and replaced with ST500LM034.

**Answer 39**

The authorized replacement for the Maintenance Aid Computer Replacement Hard Drive is PN ST500LM034, NCAGE 53V32. Revisions will be made to the following RFP documents, as indicated:

- a. Annex A (Statement of Work): Section 1.2.1.4 (Maintenance Aid Computer – Replacement Hard Drive) will be revised to describe the replacement hard drive.
- b. Appendix A1 (Deliverable Items): CLIN 021 in Table 1 (Delivery Items) will be revised to provide the part number, NCAGE and NSN of the replacement hard drive.
- c. Appendix A2 (Deliverable Data): Paragraph 5.2.2 of DID ID Number SE-002 (First Article Approval Procedure) will be revised to include Certificate of Conformance (CofC) requirements for the replacement hard drive.

A design change will be promulgated in due course to document this change.

**Question 40**

The Equipment Case Assembly drawings indicate NCAGE 11214 for two items. Please advise if there is a Canadian supplier for these items?

**Answer 40**

The most recent revision of the following Equipment Case drawings was inadvertently omitted from the Equipment Cases TDP. The following drawings, which are the latest revision, include a Canadian supplier for the items in question. The drawings will be included as Government Furnished Information (GFI) available per Article 2.6 of the RFP, and will be provided automatically to Bidders that have already requested the GFI:

- a. 1480580-1\_RevB, Equipment Case Assy, TPSNG (V2) Case 1 of 3.
- b. 1480581-1\_RevB, Equipment Case Assy, TPSNG (V2) Case 2 of 3.

- c. 1480582-1\_RevB, Equipment Case Assy, TPSNG (V2) Case 3 of 3.
- d. 1480583-1\_RevB, Equipment Case Assy, RCTS Case 1 of 1.

#### Question 41

For CABLE ASSEMBLY, SCCD PCB GROUNDING (Drawing # 0978583). Please confirm TMDEN2-4 (item 4 on parts List) is incorrect. Ring terminal is for 16-14AWG while wire being used on this assembly is 10AWG. Please confirm the ring terminal should be TMDEN5.5-4.

#### Answer 41

Rather than simply address the Terminal Ring question, the entire Cable Assembly, SCCD PCB Grounding was reviewed. As a result, the following changes are authorized for Drawing PL-0978583-1:

Find #1 Terminal Ring: Delete the item.

Find #2 Hookup Wire: Change the gauge from 10AWG to 12AWG as follows:

- Change the 'Part or Identifying Number' from "6719-GY" to "6718-GY".
- Change the 'Nomenclature or Description' from "HOOKUP WIRE, 10AWG, 105/30 GREEN/YELLOW, 600V" to "HOOKUP WIRE, 12AWG, 65/30 GREEN/YELLOW, 600V".
- Change the 'Averna Ref#' from "Wire050005" to "TBD".

Find #4 Terminal Ring:

- Change the 'Qty Rqd' from "1" to "2".
- Change the 'Nomenclature or Description' from "TERMINAL RING ROHS AWG 6-14" to "TERMINAL RING ROHS AWG 16-14".
- Change the 'Reference Designation' from "PCB\GND" to "cDAQ\GND, PCB\GND".

Due to the above review, Cable Assembly, SCCD Devices Grounding was reviewed as well. As a result, the following changes are authorized for Drawing PL-0978584-1:

Find #1 Terminal Ring:

- Change the 'Qty Rqd' from "2" to "1".
- Change the 'Reference Designation' from "SCCD\GND, cDAQ\GND" to "SCCD\GND".

Find #2 Hookup Wire: Change the gauge from 10AWG to 12AWG as follows:

- Change the 'Part or Identifying Number' from "6719-GY" to "6718-GY".
- Change the 'Nomenclature or Description' from "HOOKUP WIRE, 10AWG, 105/30 GREEN/YELLOW, 600V" to "HOOKUP WIRE, 12AWG, 65/30 GREEN/YELLOW, 600V".
- Change the 'Averna Ref#' from "Wire050005" to "TBD".

Find #4 Terminal Ring: Insert new item as follows:

- 'Qty Rqd': "1".

- 'UOM': "EA".
- 'Part or Identifying Number': TMDEN2-4.
- 'Nomenclature or Description': "TERMINAL RING ROHS AWG 16-14".
- 'Code Ident' (NCAGE): "S7913".
- 'Reference Designation': "cDAQ/GND".
- 'Averna Ref#': "EPINR00006".

A design change will be promulgated in due course to document these changes.

#### **Question 42**

For CABLE ASSEMBLY, SCCD R1 TO CSB R1 (Drawing # 0976614), CABLE ASSEMBLY, SCCD D1 TO CSB D1 (Drawing # 0976612), and CABLE ASSEMBLY, SCCD L1 TO CSB L1 (Drawing # 0976611). Unable to search SB-BAB0-1308-UN40. Please confirm the manufacturer or probably spec sheet.

#### **Answer 42**

The 'Code Ident' (NCAGE) for 'Part or Identifying Number' "SB-BAB0-1308-UN40" is "3AN64", Cleeve Technology Inc. See Page 3-43 of the company's catalog at <https://www.cleevetechnology.ca/products.html>. It's noted that SB-BAB0-1308-UN40 is not specified in Drawing PL-0976614-1.

#### **Question 43**

For CABLE ASSEMBLY, SCCD TO J5300 (Drawing # 0976615). Please confirm Q150K-1-02-QB48IN-5 is too large (1" diameter with 2:1 shrink ratio). Cable used has an outer diameter of only 0.26". Please confirm the heat shrink should be either 1/2" or 3/8".

#### **Answer 43**

Based on the observations with pre-production units, the heat shrink specified in Drawing PL-0976615-1 is acceptable.

#### **# 44 through 49 received as of 2019-07-08**

#### **Question 44**

Part# 9383396-2, Cable Assembly, Power, Electrical. There is no Drawing for this cable in the package nor is there an AML # that identifies this cable as COT or Custom.

#### **Answer 44**

See Answer 35 provided with RFP Amendment number 003.

#### **Question 45**

Following parts are missing measurements for thickness:

- o 1480576-1\_REV-A

- o 1480577-1\_REV-A
- o 1480578-1\_REV-A
- o 1480579-1\_REV-A

Would you be able to provide the proper .SLDPRT or .STP files? If not available we will accept the communication on what thickness these plates need to be.

**Answer 45**

Per Note 1 of the following drawings the "Identification Plates shall be anodized photosensitive aluminum alloy with adhesive backing, Type H, IAW MIL-DTL-15024". Paragraph 3.4.8.3 of MIL-DTL-15024 specifies a thickness of, "not less than 0.012 inch and not greater than 0.025 inch", for Type H plates using adhesives:

- 1480576-1\_REV-A, Identification Plate, TPSNG (V2) Case 1 of 3
- 1480577-1\_REV-A, Identification Plate, TPSNG (V2) Case 2 of 3
- 1480578-1\_REV-A, Identification Plate, TPSNG (V2) Case 3 of 3
- 1480579-1\_REV-A, Identification Plate, RCTS Case 1 of 1

.SLDPRT or .STP files are not available.

**Question 46**

10-00-2069-1287-35, Gasket. PDF file required. Format of file provided on this part can't be opened by Bidder nor our suppliers.

**Answer 46**

The file can be opened using a SOLIDWORKS Viewer.

**Question 47**

30-03-2075-1287-018, Gasket. Please confirm what material this gasket is to be made of. Material not list in drawing/file.

**Answer 47**

Per Table 1 of the Parker Chometrics document titled "Conductive Elastomer Jam Nut EMI Seals" at <https://www.parker.com/literature/Chometrics/Parker%20Chometrics%20Conductive%20Elastomer%20Jam%20Nut%20EMI%20Seals.pdf> the 12<sup>th</sup> to 14<sup>th</sup> positions of the part number (i.e. 1287) indicates the gasket material.

Per Page 6 of the Parker Chometrics document titled, "Extruded EMI Gaskets For Electronics Shielding Products & Custom Solutions Catalog" at <https://www.parker.com/literature/Chometrics/Parker%20Chometrics%20Extruded%20EMI%20Gaskets%20Products%20and%20Custom%20Solutions%20Catalog.pdf>, the value "1287" specifies "Fluorosilicone".

**Question 48**

Please provide a description of the deliverables required for the "Optical Test Set" at reference "W8476-195946 Annex A Statement of Work, Article 1.2.1 Test Program Set Modification Kit, Figure A-1, # 2 Optical Test Set.

#### **Answer 48**

Paragraph 1.2.1 of Annex A describes the Test Program Set Modification Kits (TPSMK) that the winning bidder must deliver. The delivered TPSMKs will be used by DND to upgrade Test Program Sets Next Generation (TPSNG), which are currently in service with DND. The upgraded TPSNG will be identified as TPSNG (V2).

The first portion of Paragraph 1.2.1 and Figure A-1 describe the TPSNG currently in service. The TPSNG includes an Optical Test Set.

The second portion of the paragraph and Figure A-2 describe the TPSNG (V2), with the TPSMK incorporated. The TPSNG (V2) does not include an Optical Test Set.

DND will incorporate the TPSMKs delivered by the winning bidder, into TPSNGs by removing the Optical Test Sets and installing the TPSMK components. Each TPSMK includes a Signal Conditioning Connection Device (SCCD), Cable Assemblies, SCCD and Power Over Ethernet (POE) Retaining Brackets, a Maintenance Aid (MA) Computer Hard Disk Drive (HDD) and various Commercial Off The Shelf (COTS) items, as described in Subparagraphs 1.2.1.1 to 1.2.1.4 of Annex A.

As such there are no deliverables required for the Optical Test Set.

#### **Question 49**

Can you please clarify what is meant by the statement: The attached GFI is not for further distribution?

In order to complete our pricing to the Crown, we will need to provide some of this information to our supplier. We have established an NDA with them and confirmed that they are also CGR registered.

We would appreciate your confirmation that providing this data to suppliers that meet the same mandatory requirements as the bidders is acceptable.

#### **Answer 49**

The bidder's statement is correct, passing the information to potential suppliers who meet the same requirements is acceptable.

### **# 50 through 52 received as of 2019-07-08**

#### **Question 50**

The Bidder is looking for confirmation that the cost of scrapping 8 PCBAs (4 x 0976645-1 & 4 x 0976648-1) (is) to be included to transformation costs.

Per SoW, request for following services per CCA:

- o Cross Section
- o Shear Type Mechanical Testing (IEC 62137-1-2)
- o Drop Type Mechanical Testing (JESD22-B111A)

- o Pull Type Mechanical Testing (IEC 62137-1-1)

Each test is destructive. Will DND provide (a) deviation for bidders (to) not have these services executed?

**Answer 50**

Paragraph 3.2.2.1.1 (Reliability Testing) of Annex A (Statement of Work) requires that, “As part of TPSMK FAI, the Contractor must conduct reliability testing on **additional** samples of each CCA type used in the SCCD, per the following subparagraphs”.

Paragraph 3.2.2.1.1.1 requires that, “The Contractor must **augment** the LRIP Quantity (See Table 2 of Appendix A1) of each of the following CCA types, by an appropriate number, and randomly select the same number as samples from the LRIP Quantity, without regard to their relative quality and with equal probability of selection to all other CCAs.

- a. Circuit Card Assembly, SCCD Interface, PN 0976645.
- b. Circuit Card Assembly, SCCD Front Panel, PN 0976648.”

Paragraph 3.2.2.1.1.2 requires that, “the Contractor must have a third party, independent test facility, conduct the following Reliability Testing on the selected samples:

- a. Shear Type Mechanical Testing per IEC 62137-1-2,
- b. Drop Type Mechanical Testing per JESD22-B111A,
- c. Pull Type Mechanical Testing per IEC 62137-1-1; and
- d. Cross Sectional Analysis using a high emission scanning electron microscope (SEM) to verify per IPC TM-650 2.1.1, compliance with standards per Paragraph 3.2.3.5 below.”

Paragraph 2.1 (Payment for Deliverable Items) of Annex B (Basis of Payment) of the RFP requires that, “Except for costs associated with design changes and deviations per Paragraph 2.2 below, and costs associated with additional work per Paragraph 2.3 below, **all Contractor costs must be included within the unit prices** specified in Table 1 and Table 2 below and as described in the following subparagraphs”.

As such, Reliability Testing must be conducted using additional CCAs, and all associated costs must be included within the bid unit prices.

**There will be no deviation.**

**Question 51**

Following parts are restricted from receiving pricing from Approved Manufacturer :

<b>Part Description</b>	<b>MFG-1</b>	<b>MFG PN-1</b>
SWITCH ROHS LEVER FOR NGR SW CLEAR WINDOW AT TOP POS	2ASSA4G000000	EATON
CONN RCPT JAM NUT D38999 13-35 22 PIN N-KY ZN-CO OD ROHS0 CONNECTIVITY	605441-942A	TE
CONN RCPT JAM NUT D38999 13-35 22 SKT B-KY ZN-CO OD ROHS0 CONNECTIVITY	605443-942A	TE
CONN CIRC RCPT SHL10 76INSR W/7 #20 & 6#22 SKT F-KY ROHS0 CONNECTIVITY	610586-942A	TE
CONN RCPT JAM NUT D38999 13-35 22 SKT D-KY ZN-CO OD ROHS0 CONNECTIVITY	611747-942A	TE

Does DND have Letters of Authorization for bidders to use to flow down permission to obtain pricing on the aforementioned parts?

**Answer 51**

Regarding PNs 605441-942A, 605443-942A, 610586-942A and 6117471-942A, the product designer has provided a Letter of Authorization to TE Connectivity lifting the restriction and allowing quotes to be provided to any requestor. Authorized TE Connectivity distributors that are Controlled-Goods-Registered, include:

- A.E. Petsche Ltd.;
- Avnet; and
- Wesco Aircraft.

Regarding PN 2ASSA4G000000, it's assumed that availability, rather than restricted use, is the issue. The authorized replacement is PN 28-5863-7, NCAGE 81118. A design change will be promulgated in due course to document this change.

**Question 52**

Part number 1277409-1 ID label has come back with a no bid. Our certified vendors has informed us that it cannot be built according to the drawing. Tamper proof material being applied to the bar code area will result in it not being readable. Should drawing be updated to remove tamper proof material being added to barcode?

**Answer 52**

It's assumed that by "Tamper proof material", the bidder is referring to the "Clear Polystyrene" overlamine specified in Note 2 of Drawing 1277409, and that availability, rather than barcode readability is the issue. An approved equivalent for Clear Polystyrene 171-B200 from ICT Inc. is Clear Polystyrene E55125-B200 from Adtool Corp, NCAGE 38908.

**ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED**