



**RETURN BIDS TO:**

**RETOURNER LES SOUMISSIONS À:**

**Bid Receiving - PWGSC / Réception des soumissions -  
TPSGC**

**11 Laurier St. / 11, rue Laurier**

**Place du Portage, Phase III**

**Core 0B2 / Noyau 0B2**

**Gatineau, Québec K1A 0S5**

**Bid Fax: (819) 997-9776**

**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**

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Defence Communications Division. (QD)

11 Laurier St./11, rue Laurier

Place du Portage, Phase III, 8C2

Gatineau, Québec K1A 0S5

<b>Title - Sujet</b> (TPSNG2) Test Equipment	
<b>Solicitation No. - N° de l'invitation</b> W8476-195946/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b> W8476-195946	<b>Date</b> 2019-05-23
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$QD-021-27266	
<b>File No. - N° de dossier</b> 021qd.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 2019-07-05</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> Abdulkadir, Nadir	<b>Buyer Id - Id de l'acheteur</b> 021qd
<b>Telephone No. - N° de téléphone</b> (819) 420-5861 ( )	<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>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<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/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

## **Bidders' Conference Questions and Answers**

### **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](#).

## **Bidders' Conference Questions and Answers**

### **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 Manufacturers 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.

## **Bidders' Conference Questions and Answers**

### **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 TPSMKs 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

## **Bidders' Conference Questions and Answers**

the TDP (including the AVL) or in a design change, deviation or waiver approved [by DND] per Paragraph **Error! Reference source not found. Error! Reference source not found..**

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 TPSMK, 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.

## **Bidders' Conference Questions and Answers**

### **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?

## Bidders' Conference Questions and Answers

### 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 Avera 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."

## **Bidders' Conference Questions and Answers**

**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**



## Bidders' Conference Questions and Answers

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)".

## Bidders' Conference Questions and Answers

- 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.



# **LAND COMMAND SUPPORT SYSTEM LIFE EXTENSION**

## **TPSNG(V2) Request For Proposal Bidders Conference**

**May 2, 2019**





# Bidders Conference Administration

- All guests must be escorted at all times when not in the briefing room
- In case of fire, down the centre block stairwell and out the main front doors
- Washrooms are left and right of main hallway near the central staircase
- Questions will be documented and responses provided to all through Buy and Sell



## Presentation Outline

- Objectives of Bidders' Conference
- Procurement Approach
- Schedule
- Security Requirements
- Operational Requirements
- Technical Requirements
- Questions





## Bidders' Conference Objectives

- Confirm intent of TPSNG(V2) procurement to Industry
- Orient Industry towards further information sources
- Allow Industry to ask questions
- Allow Industry to provide feedback



# Procurement Approach

- Competitive Procurement
- Costed Options
- Lowest Price per Point
- Technical rating based on:
  - Paper-based evaluation
    - Mandatory and Point Rated criteria
    - Includes Quality Plan & Environmental Health and Safety (EHS)



# Phased Bid Compliance Process (PBCP)

- Phase 1: Examination of the Financial Bid
- Phase 2: Examination of the Technical Bid
- Phase 3a: Financial Evaluation of the Bid
- Phase 3b: Technical Evaluation of the Bid

Ref: PSPC PN-123

→ <https://buyandsell.gc.ca/policy-and-guidelines/policy-notifications/PN-123>





## Schedule

8 Apr 19 – RFP Release

2 May 19 – Bidders' Conference

5 Jun 19 – Bid Closing

~2 months post Bid Close – Contract Award

~1 Month After Contract Award (MACA) – Contract Kick-Off Meeting

TPSMKs:

- 6 MACA – Initialization

- 3 months after Initialization – Low Rate Initial Production (LRIP)

- 3 months after LRIP – Full Rate Production (FRP)

Portable Equipment Cases:

- 2-6 MACA– Delivery

Tool Kits & Power Supplies

- TBD when and if options exercised



## Security Requirements

- No classified material required from Industry
- DND will not provide classified material to Industry
- Canadian Controlled Goods Program (CGP) registration required



# Operational Requirement

The Test Program Set Next Generation (TPSNG) is currently in service within the Department of National Defence (DND) to provide Army field units with a second level capability to test the following legacy Land Command Support System (LCSS) Line Replaceable Units (LRU):

- User Control Device (UCD),
- User Switch Box (USB),
- Network Access Unit (NAU), models 3-1, 4-1 and 7-1,
- Radio Access Unit (RAU), and
- LAN Ethernet Switch (LES).

The following new LRUs have been added to the LCSS, necessitating the upgrade of the TPSNG to TPSNG(V2) in order to test them also:

- Communications Selector Box (CSB), and
- LAN Ethernet Switch version 2 (LESv2).



## Technical Requirements – General

- A combined Commercial-Off-The-Shelf (COTS) and Build-To Print (BTP) initiative.
- COTS requirements involve standard procurement of commercially available products.
- BTP requirements necessitate application of mature manufacturing and testing expertise to produce products in accordance with government-furnished design specifications, which will be provide as Government Furnished Information.
- DND has unlimited license to use the intellectual property.





# Technical Requirements – Detailed

- **Firm Requirements:**

- **TPSNG (v2) Modification Kits (TPSMK):** Each kit includes a BTP Signal Condition Connecting Device (SCCD), test cables and ancillaries, as well as a COTS hard drive and ancillaries. DND will use the kits to upgrade TPSNGs to TPSNG(V2) such that they may be used to test CSBs and LESv2s in addition to legacy equipment. The RFP includes a *firm requirement* for 75 kits and an *optional requirement* for up to 35 more.
- **Portable Equipment Cases:** Each COTS case in a set of four cases is configured with different COTS and BTP components. DND will relocate TPSNG(V2)s from existing 19 inch racks into the cases, thereby eliminating use of the racks. The RFP includes a *firm requirement* for 75 sets of cases with *options* to procure up to 35 more sets.

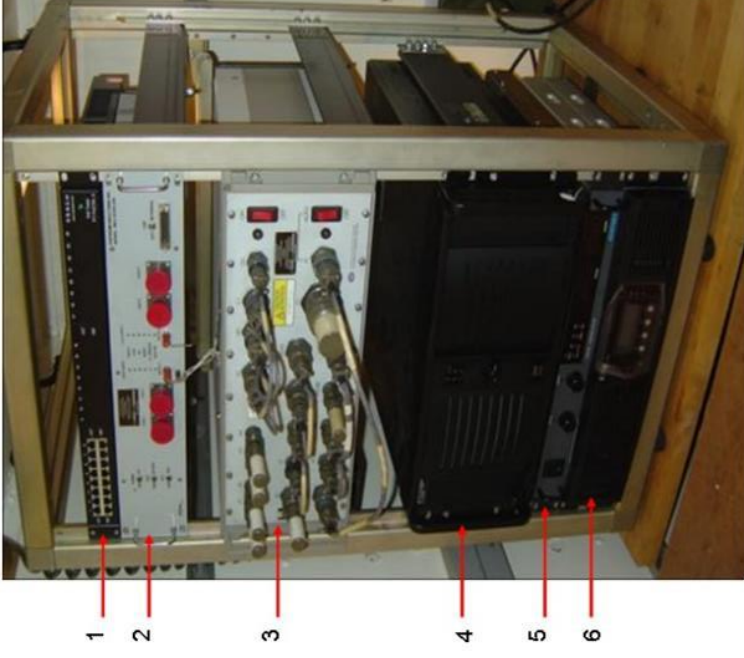
- **Optional Requirements:**

- **Tool Kits:** Each toolkit is composed of two COTS cases. Each case is fitted with different BTP customizations, COTS hand tools and BTP special tools needed to repair CSBs, LESV2 as well as legacy equipment. Up to 110 toolkits may be procured to replace the existing toolkits.
- **Power Supplies:** The existing TPSNG power supply is obsolete and unsupportable. Up to 110 replacement power supplies may be procured. Replacement of existing power supplies with new powers supplies will be conducted by DND.



## TPSNG - Current Configuration

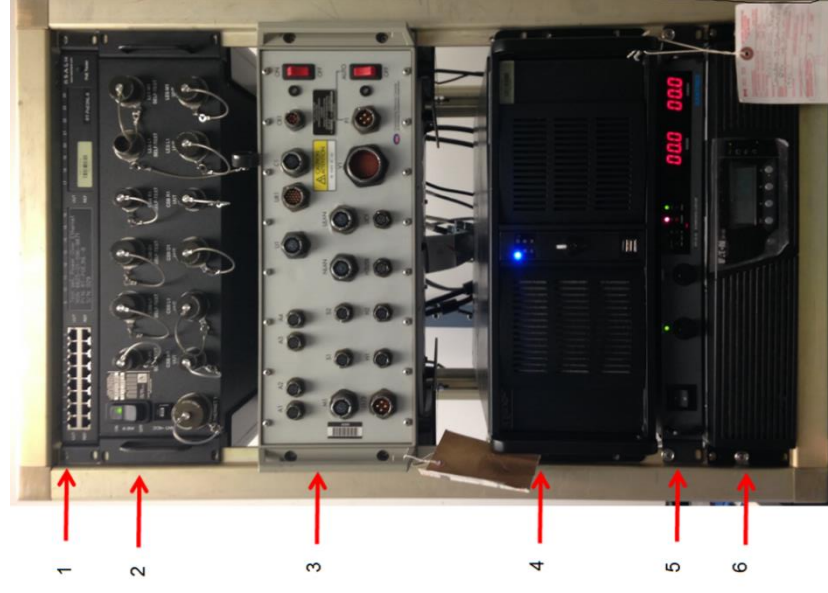
1. Power over Ethernet (POE) Tester
2. Optical Test Set
3. Interface Unit
4. Maintenance Aid (MA) Computer
5. Power Supply
6. Uninterruptable Power Supply (UPS)





# TPSNG(V2) New Configuration

1. POE Tester (existing)
2. Signal Condition Connection Device (SCCD) (new, firm requirement)
3. Interface Unit (existing)
4. MA Computer (existing)
5. Power Supply (new, optional requirement)
6. UPS (existing)

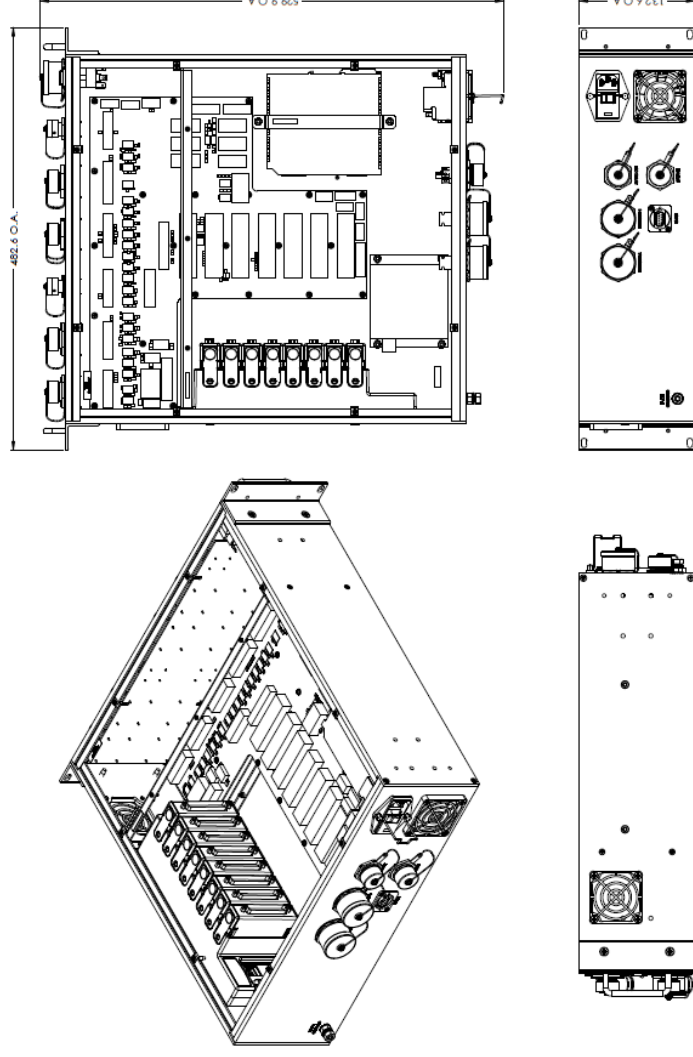






# Signal Condition Connection Device

## High Level Illustrations (1/2)

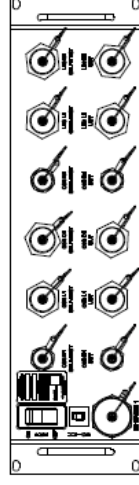
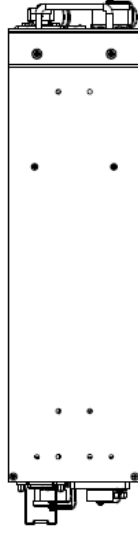
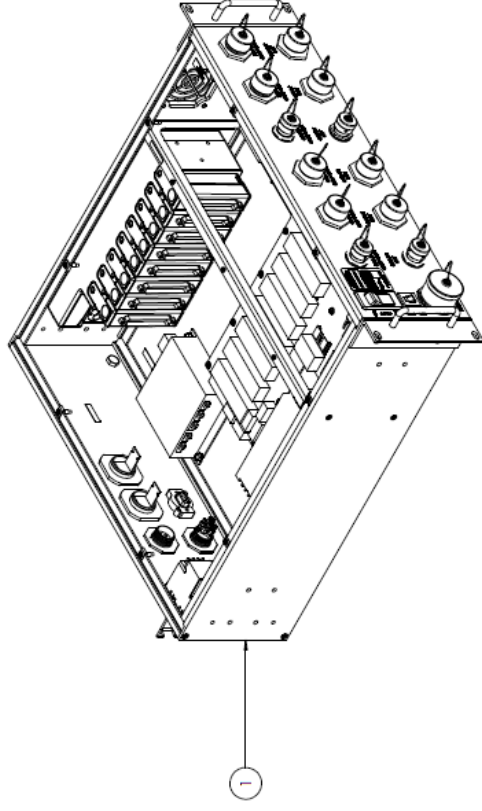






# Signal Condition Connection Device

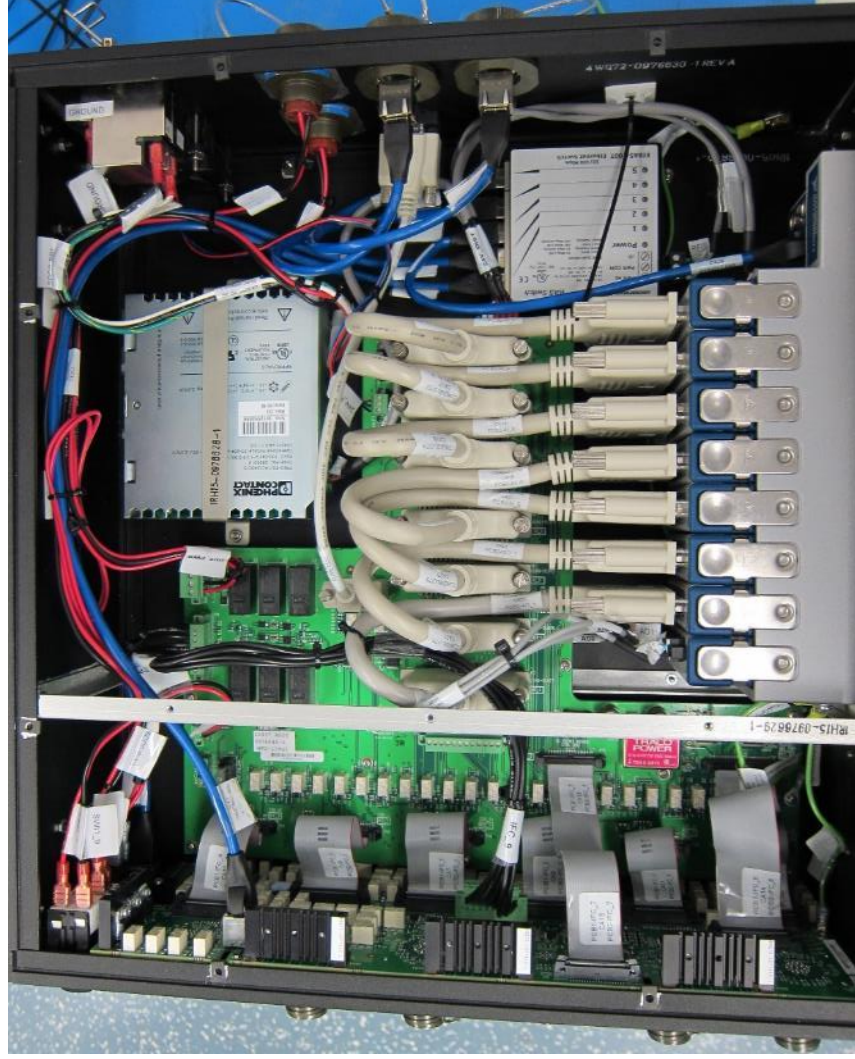
## High Level Illustrations (2/2)





# Signal Condition Connection Device

## Interior View

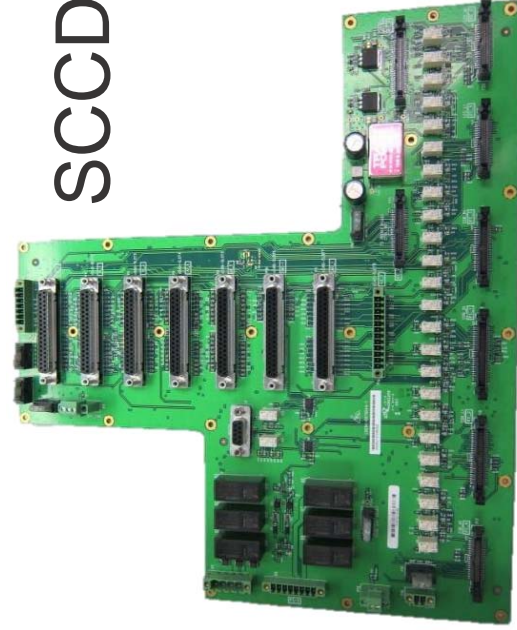






# SCCD Circuit Card Assemblies

SCCD Interface



SCCD Front Panel –  
Interior-facing View



SCCD Front Panel –  
Exterior-facing View



## Cable Assemblies

Ref. SOW 1.2.1.2

- SCCD L1 to CSB L1, PN 0976611
- SCCD D1 to CSB D1, PN 0976612
- SCCD H1 to CSB H1, PN 0976613
- SCCD R1 to CSB R1, PN 0976614
- SCCD to Interface Unit, PN 0976615
- Rack Grounding, PN 1277469



# SCCD Component Testing

Ref. SOW 3.2.3.10.3

- Incoming Parts Inspection.
- Cable Assembly Testing.
- SCCD Component Testing.
- TPSPMK Component Self-Testing
  - Open Box Testing





## SCCD Testing

Ref. SOW 3.2.3.10.4 & 3.2.3.10.4.1

100% Testing

- SCCD Self Test
- SCCD Ethernet Test
- CSB Functional Test
- LESv2 Functional Test



## SCCD to CSB Cable Testing

- Ref. SOW 3.2.3.10.4 & 3.2.3.10.4.1
- SCCD Cables self-test procedure with known good SCCD



# Maintenance Aide Computer – Replacement Hard Drive

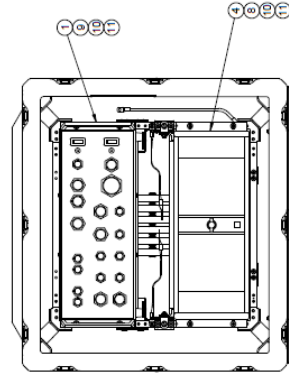


COTS replacement HDD, 500 GB 7200 RPM 32 MB Cache  
SATA 6.0 Gb/s 2.5" Laptop Thin Hard Drive, PN ST500LM021

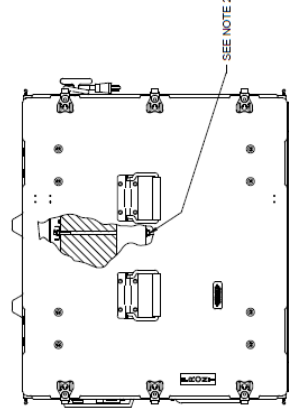




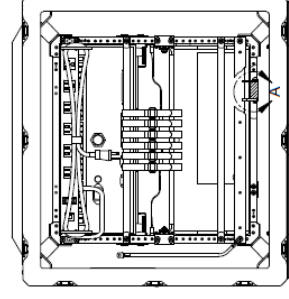
# Portable Equipment Cases (1/2)



FRONT VIEW WITH COVERS REMOVED

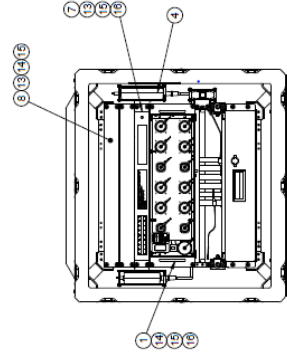


RIGHT SIDE VIEW WITH COVERS REMOVED

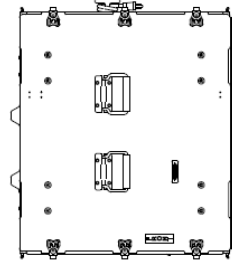


REAR VIEW WITH COVERS REMOVED

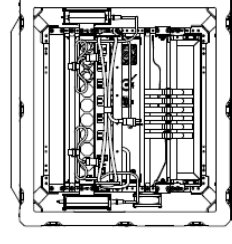
## TPSNG V2 – Case 1 of 3



FRONT VIEW WITH COVERS REMOVED



RIGHT SIDE VIEW WITH COVERS REMOVED

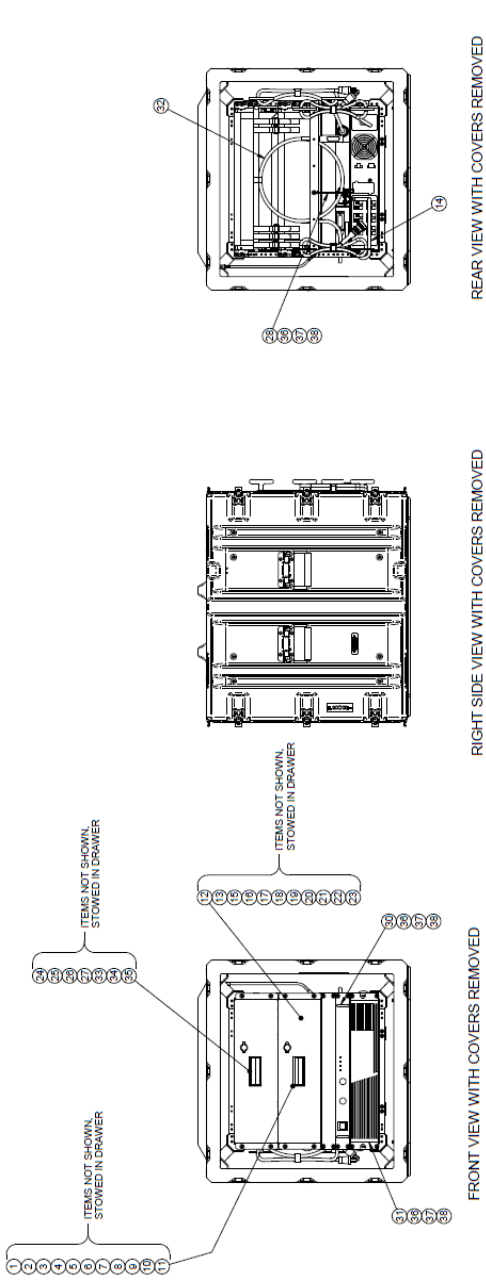


REAR VIEW WITH COVERS REMOVED

## TPSNG V2 – Case 2 of 3

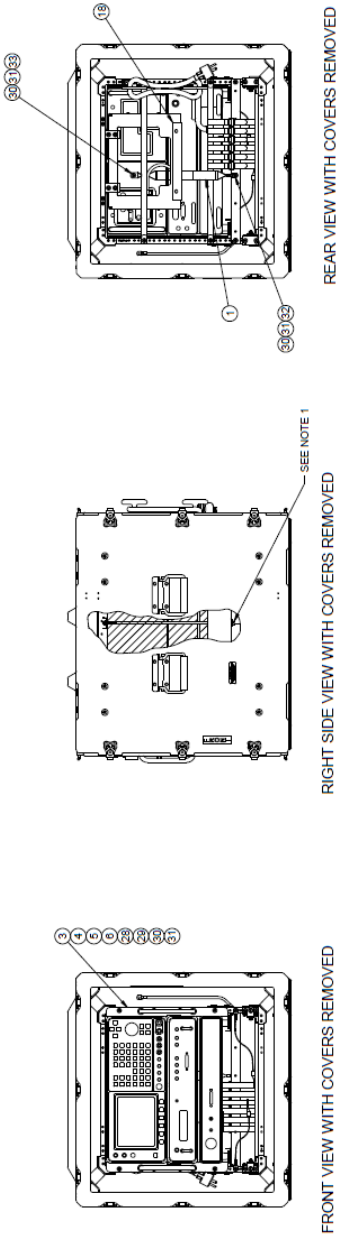


# Portable Equipment Cases (2/2)



RIGHT SIDE VIEW WITH COVERS REMOVED

## TPSNG V2 – Case 3 of 3

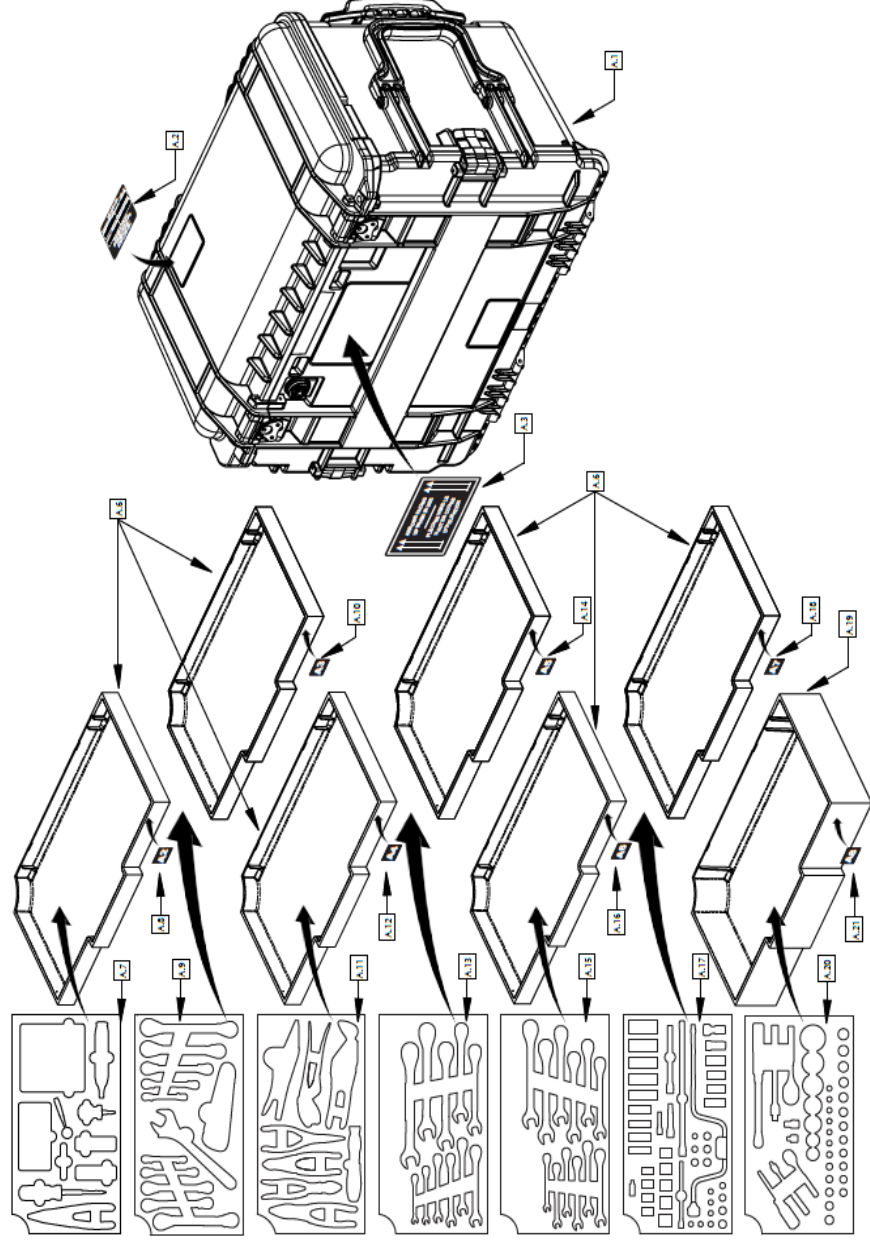


RIGHT SIDE VIEW WITH COVERS REMOVED

## RCTS – Case 1 of 1



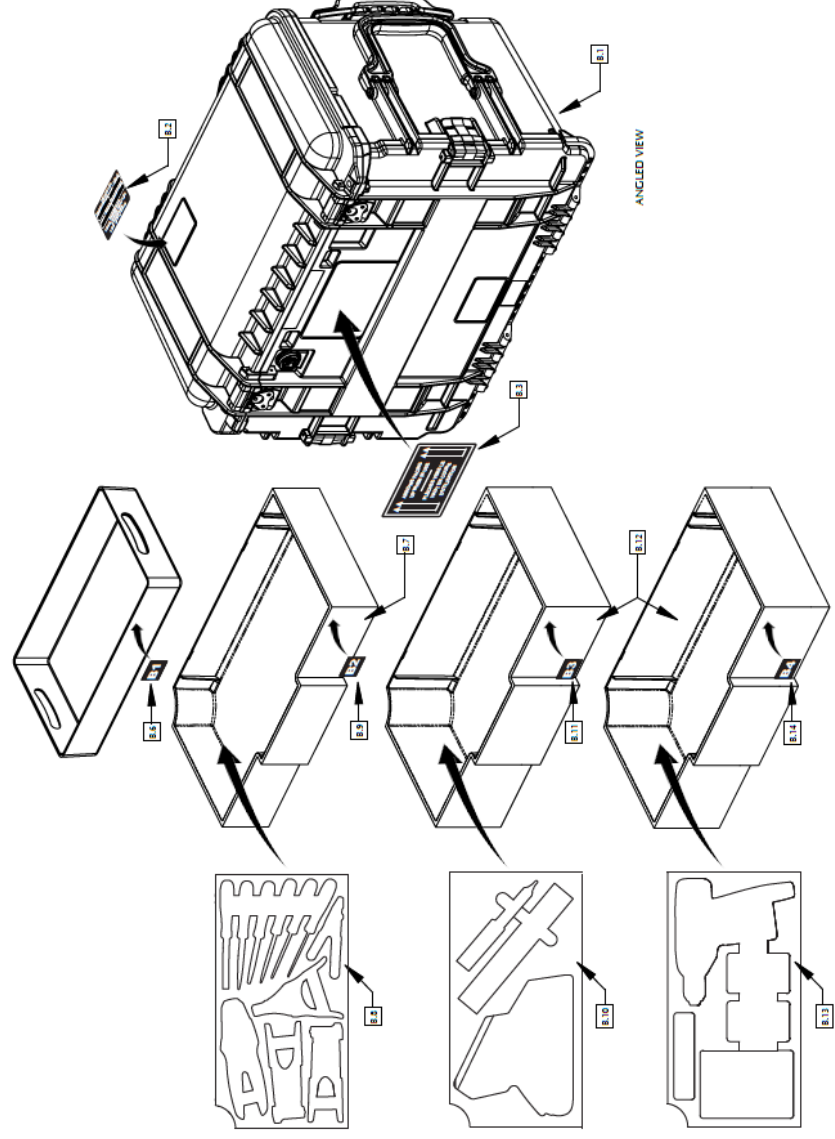
# Tool Case A - Primary







# Tool Case B - Supplementary





# Replacement Power Supply



COTS Power Supply, PN XG 40-38-MEB



# Questions?



**CONTRACT  
W8476-195946/A  
AMENDMENT 02**

Contract amendment 02 is raised to amend following clauses:

**Solicitation document**

1. **Delete** Solicitation Closes  
At – 02:00PM  
On – 2019-06-05
- Insert** Solicitation Closes  
At – 02:00PM  
On – 2019-07-05

2. **Delete:** [Article 4.3.1 Mandatory Technical Requirements Evaluation in its entirety;](#)  
[and](#)

**Insert:** [4.3.1 Mandatory Technical Requirements Evaluation](#)

By referring to the Mandatory Technical Requirements – Evaluation Criteria, submitted by the Bidder in accordance with Article 3.3 of Part 3 above, for each Quality Plan Topic, the evaluation team will:

- a. read the documentation submitted by the Bidder that is identified in the Cross Reference to Evidence of Compliance column;
- b. assess the compliance of the documentation against the criteria specified in the Evaluation Criteria column; and
- c. make a determination of compliance or non-compliance.

If one or more of the Mandatory Technical Requirements is not met, the bid will be declared non-responsive and will not be further evaluated.

Bids that meet all of the Mandatory Technical Requirements will proceed to be evaluated for the Point Rated Technical Requirements.

**The Phased Bid Compliance Process will apply to all mandatory technical criteria and all point rated technical criteria with a minimum pass mark.**

3. **Delete:** [Article 4.3.2 Quality Plan Evaluation in its entirety; and](#)

**Insert:** [4.3.2 Quality Plan Evaluation](#)

By referring to the Point Rated Technical Requirements – Quality Plan Evaluation Criteria, submitted by the Bidder in accordance with Article 3.5

above, for each Quality Plan Topic, the evaluation team will:

- a. read the portions of the Quality Plan and supporting documents submitted by the Bidder that are identified in the Cross Reference to Evidence of Compliance column;
- b. evaluate the quality of the documentation, and assess any associated risk to Canada, against the criteria specified in the Evaluation Criteria column;
- c. award points for quality in accordance with the criteria provided for each topic in the Evaluation Criteria column, and
- d. award points for risk in accordance with the Risk Evaluation Criteria provided in Table 2 of Annex H; and
- e. determine the total points for the Topic by adding the points awarded for quality and the points awarded for risk.

The Total Points Awarded will then be calculated by summing the total points awarded for each Topic.

The required minimum points for the Quality Plan is four hundred and seventy (470) of an available six hundred and ninety (690) points. Bids that do not obtain the minimum mandatory points, will be declared non-responsive and will not be evaluated further.

### **Annex A Statement of Work (SOW)**

1. **Delete:** [Article 1.2.1.2.1 SCCD to Interface Unit Cable Assembly in its entirety;](#)  
[and](#)

**Insert:** [1.2.1.2.2 SCCD to Interface Unit Cable Assembly](#)

The build-to-print Cable Assembly, SCCD to Interface Unit, PN 0976615 connects the 28 VDC OUT connector at rear of the SCCD to the UUT PWR connector at the rear of the Interface Unit as shown in Figure A-10 below.

**Figure A-10: Cable Assembly, SCCD to Interface Unit**





2. **Delete:** [Article 1.2.1.2.1 Rack Grounding Cable Assembly in its entirety; and](#)

**Insert:** [Article 1.2.1.2.3 Rack Grounding Cable Assembly](#)

The build-to-print Cable Assembly, Rack Grounding, PN 1277469 grounds the SCCD to the rack.

3. **Delete:** [Article 1.2.1.3 SCCD POE Retaining Bracket in its entirety; and](#)

**Insert:** [Article 1.2.1.3 SCCD POE Retaining Bracket](#)

The build-to-print Bracket, Retaining, TPS Rack for SCCD and POE, PN 0976636 secures the SCCD and POE to the rack.

4. **Delete:** [Article 3.1.3 Government Furnished Information in its entirety; and](#)

**Insert:** [Article 3.1. Government Furnished Information](#)

The TA will provide Government Furnished Information (GFI) identified in Appendix A3 to the Contractor.

5. **Delete:** [Article 3.1.6.1.2.3 Substitute Components and Material in its entirety; and](#)

**Insert:** [Article 3.1.6.1.2.3 Substitute Components and Material](#)

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 or in a design change, deviation or waiver approved per Paragraph 3.1.2 above.

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

6. **Delete:** [Article 3.2.2 Low Rate Initial Production in its entirety; and](#)

**Insert:** [Article 3.2.2 Low Rate Initial Production](#)

After receiving approval to do so via the TPSMK LRIP Readiness Review per Paragraph 3.2.1.3 above, the Contractor must produce TPSMK LRIP quantities as specified in Table 2 of Appendix A1.

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.

7. **Delete:** [Article 3.2.3.9 Inspection and X-Ray in its entirety; and](#)

**Insert:** [Article 3.2.3.9 Inspection and X-Ray](#)

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 inspection 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.

8. **Delete:** [Article 3.3.2 Low Rate Initial Production in its entirety; and](#)

**Insert:** [Article 3.3.2 Low Rate Initial Production](#)

After receiving approval to do so via the Equipment Cases LRIP Readiness Review per Paragraph 3.3.1.3 above, the Contractor must produce Equipment Case LRIP quantities as specified in Table 2 of Appendix A1.

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 have been approved and instituted per Paragraph 3.3.2.1.6 below.

9. **Delete:** Article 3.4.2 Low Rate Initial Production in its entirety; and

**Insert:** Article 3.4.2 Low Rate Initial Production

After receiving approval to do so via the Toolkits LRIP Readiness Review per Paragraph 3.4.1.3 above, the Contractor must produce Toolkit LRIP quantities as specified in Table 2 of Appendix A1.

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 have been approved and instituted per Paragraph 3.4.2.1.6 below.

.

### **Annex H Evaluation Criteria**

10. **Delete** Total Available: 670 in its entirety; and

**Insert:** Total Available: 690

**All other terms and conditions of the Contract remain unchanged.**