

**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 0A1 / Noyau 0A1  
Gatineau, Québec K1A 0S5  
Bid Fax: (819) 997-9776**

**REQUEST FOR PROPOSAL  
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government  
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services  
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Comments - Commentaires**

<b>Title - Sujet</b> FIELD POWER DISTRIBUTION SYSTEM	
<b>Solicitation No. - N° de l'invitation</b> W8476-134240/A	<b>Date</b> 2013-06-03
<b>Client Reference No. - N° de référence du client</b> W8476-134240	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HN-323-62838	
<b>File No. - N° de dossier</b> hn323.W8476-134240	<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 2013-07-16</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input checked="" type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Dubeau, Stéphane	<b>Buyer Id - Id de l'acheteur</b> hn323
<b>Telephone No. - N° de téléphone</b> (819) 956-1533 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> Specified in Annex B - Basis of Payment.  Précisé à l'annex B - Base de paiement	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

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

**Issuing Office - Bureau de distribution**

Electrical & Electronics Products Division  
11 Laurier St./11, rue Laurier  
6B1, Place du Portage, Phase III  
Gatineau, Québec K1A 0S5

<b>Delivery Required - Livraison exigée</b> See Herein	<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>

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Solicitation No. - N° de l'invitation

W8476-134240/A

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

W8476-134240

Amd. No. - N° de la modif.

File No. - N° du dossier

hn323W8476-134240

Buyer ID - Id de l'acheteur

hn323

CCC No./N° CCC - FMS No/ N° VME

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## List of Annexes

Annex A	Statement of Work for Field Power Distribution Systems
Attachment I to Annex A	Environmental Health and Safety Assessment for Field Power Distribution Systems (FPDS)
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## **PART 1 - GENERAL INFORMATION**

Use of the word shall and must: When the words shall and must are used in this document, it indicates an action or requirement that is mandatory.

### **1. Security Requirement**

There is no security requirement associated with the requirement.

### **2. Requirement**

This requirement is for the production, qualification and delivery of a commercial off the shelf (COTS) or military of the shelf (MOTS) Field Power Distribution System (FPDS) for DND in accordance with Annex A - Statement of Work herein and in the quantities stated in Annex B - Basis of Payment.

#### **2.1 Option Quantities (Item 007 and 008 of Annex B - Basis of Payment)**

The Contractor shall grant to Canada an irrevocable option to purchase additional quantities. This option is open for acceptance at the prices specified in this document during the period as follows: Option quantities for a period of one (1) year from the effective date of the Contract.

The option may be exercised in whole or in part, as frequently up to a maximum quantity of the original contract only by a contract amendment issued by the Contracting Authority. Upon the exercise of the option by the Contracting Authority, the contract shall be amended to incorporate the item into the work to be performed by the Contractor under the Contract, and all of the obligations of the Contractor under the Contract will apply.

Nothing contained in this Contract shall require the Minister to exercise the option and to exercise the option is at the sole discretion of the Minister.

#### **2.3 Option to purchase Spare Parts - Item 011**

This requirement also includes an option to purchase spare parts in accordance with Annex A - SOW, clause 4.2.3, Integrated Logistics Support recommended spare parts list (RSPL).

### **3. Debriefings**

After contract award, bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within fifteen (15) working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

## PART 2 - BIDDER INSTRUCTIONS

### 1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2012-11-19) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Section 5.4 of 2003, Standard Instructions - Goods or Services, is amended as follows:

Delete: sixty (60) calendar days

Insert: one hundred and ninety (90) calendar days

#### 1.1 SACC Manual Clauses

SACC Reference	Section	Date
B1000T	Condition of Material	2012-07-16
A9033T	Financial Capability	2012-07-16

### 2. Submission of Bids

Bids must be submitted only to public works and government services canada (PWGSC) bid receiving unit by the date, time and place indicated on page 1 of the bid solicitation. Due to the nature of the bid solicitation, bids transmitted by facsimile or electronic mail to PWGSC will not be accepted.

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### **3. Enquiries - Bid Solicitation**

All enquiries must be submitted to the Contracting Authority no later than ten (10) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary " will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

### **4. Applicable Laws**

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

### **5. Improvement of the requirement during the solicitation period**

Should bidders consider that the specification, statement of work or purchase description contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favor a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least ten (10) days before closing date. Canada will have the right to accept or reject any or all suggestions.

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## PART 3 - BID PREPARATION INSTRUCTIONS

### Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

- Section I: Technical Bid (2 hard copies)  
Section II: Financial Bid (1 hard copy)  
Section III: Certifications and additional information (1 hard copy)

Prices must appear in Annex B - Basis of Payment only. No prices must be indicated in any other section of the bid.

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement

(<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders are encouraged to:

- 1) use paper containing fibre certified as originating from a sustainably-managed forest and/or containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

### SECTION I: TECHNICAL BID

In their technical bid, bidders must:

- Explain and demonstrate how they propose to meet the requirements in compliance with the Statement of work at Annex A and how they will carry out the Work;
- include all technical / descriptive literature;
- include their compliance Statement Matrix (CSM).



## SECTION II: FINANCIAL BID

1. Bidders must submit their financial bid for all items in accordance with the Basis of Payment - Annex B. Applicable taxes is/are to be shown separately, if applicable.
2. **Exchange Rate Fluctuation**
  1. Unless otherwise specified in the bid solicitation, bids must be in Canadian currency.
  2. Bidders may request Canada to assume the risk for exchange rate fluctuation. This request must be specifically made at time of bidding.
  3. The foreign currency component is defined as the element of the price that will be directly affected by exchange rate fluctuations. It could include the net price FOB foreign manufacturer's plant, costs associated with applicable duty, excise tax, Goods and Services Tax or Harmonized Sales Tax, if applicable, entry fees, transportation costs or delivery charges payable in a foreign currency, and any other charges associated with being the importer of record if they originated from and are required to be paid in a foreign currency.
  4. The foreign value of the foreign currency component of the bid or negotiated price must be provided with the bid. Form PWGSC-TPSGC 9411, Claim for Exchange Rate Adjustments, may be used for this purpose. If milestone payments are proposed, it is recommended to indicate on the above form the foreign currency component associated with each milestone event.
  5. All bids are evaluated in Canadian currency. Therefore, for evaluation purposes, the noon rate quoted by the Bank of Canada as being in effect on date of bid closing, or such other date as may be specified in the bid solicitation, will be applied as the initial conversion factor for the specified currency. (Column 3 of the above form will be completed by the Contracting Authority.)
  6. Rates proposed by bidders will not be accepted for the purposes of this exchange rate adjustment provision.
  7. If there are two (2) identical bids, and provided that the bid selected would still be considered the most advantageous to Canada, preference will be given to the Bidder who assumes all or part of the exchange rate adjustment risk over a bidder who does not assume any of this risk. Furthermore, preference will be given to the Bidder who assumes all of the exchange rate adjustment risk over a bidder who assumes only part of this risk.

8. Canada will pay the exchange rate adjustment amount in Canadian currency using the prevailing noon rate on the date of payment by Canada or, as applicable, in accordance with one of the following clauses: C3015C, C3020C, C3025C, or C3030C.

### SECTION III: CERTIFICATION AND ADDITIONAL INFORMATION

#### 1. Certifications

Bidders must submit the certification required under Part 5.

#### 2. Additional Information

Supplier should include the following information with his bid. If not submitted, Public Works and Government Services Canada will request the Supplier to submit within five (5) working days after bid solicitation closing date.

##### 2.1 Delivery

While delivery is requested as indicated at Annex B - Basis of Payment, the bidders are requested to provide the best numbers of calendar days for delivery that can be offered for each item detailed in Annex B - Basis of Payment.

##### 2.2 Supplier's Representatives

Canada requests that bidder provide information for the person responsible for :

##### General enquiries

Name: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Facsimile: \_\_\_\_\_  
 E-mail: \_\_\_\_\_

##### Delivery follow-up

Name: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Facsimile: \_\_\_\_\_  
 E-mail: \_\_\_\_\_

## 2.3 After Sales Service

Canada requests that the bidder provide the names, addresses and telephone numbers of their dealers and/or agents authorized to provide after sales service, maintenance and warranty repairs, and a full range of repair parts for the equipment offered. The bidders should show the distance between the delivery location and the authorized dealer and/or agent and the delivery location, which should not be more than 100 kilometers.

Distance between the delivery location and the dealer and/or agent: \_\_\_\_\_km

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone number: \_\_\_\_\_

## 2.4 Manufacturer's Standard Warranty Period

Canada requests that the bidder provide details of the manufacturer's standard warranty period for the equipment and its component that exceeds the minimum warranty period of twelve (12) months. Any additional manufacturer's standard warranty such as those derived from the Original Equipment Manufacturer (OEM) for components/sub-assemblies will form part of the proposed contract.

### 2.4.1 Optional Extended Warranty Periods

Canada requests that the bidder indicate if an optional extended warranty periods is being offered that exceeds the minimum warranty period of twelve (12) months.

If yes, Canada requests that the bidder provide details and pricing information of any optional extended warranty period available for the equipment and any related items.

Any optional extended warranty period offered will not be included in the financial evaluation.

## 2.5 Lifetime Spares

It shall be a condition of any resulting contract that the Contractor undertakes to supply spare parts for the equipment proposed during the life expectancy of the equipment.

Bidders must indicate the number of years for the life of the equipment : \_\_\_\_\_ years.

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## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

You are reminded that this solicitation requires the compliance and/or completion of requirements attached as an Annex and forming part of this document.

### 1. Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria specified below.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

### Evaluation Criteria

All bids must be completed in full and provide all of the information requested in the bid solicitation to enable full and complete evaluation

#### 1.1 Technical Evaluation

##### 1.1.1 Mandatory Technical Evaluation

The following **Mandatory** factors will be taken into consideration in the evaluation of each bid:

- Technical compliance to Statement of Work - Annex A;
- The Bidder must submit with his bid a Compliance Statement Matrix (CSM) for Annex A. Refer to Annex C for sample format. The CSM must list all Statement of Work (SOW) clauses in the same sequence as they appear in Annex A. The Bidder must specify in detail, all deviations between the proposed equipment and the SOW.

#### 1.2 Mandatory Financial Evaluation

The following **Mandatory** factors will be taken into consideration in the evaluation of each bid:

- Bidders must submit firm unit/lot prices for all items excluding item 011;
- Completion of Annex B - Basis of Payment (Excluding the cost for Spare Parts - Item 011).

The Bid price will be determined by processing items at Annex B - Basis of Payment as follows:

- Sum of all items total price (firm unit/lot prices x quantity).

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### 1.2.1 Pricing Basis

The bidder must quote firm unit price for items 001 to 008 and firm lot prices for items 009 to 015 in Canadian dollars, DDP Delivered Duty Paid (destination) for item 001,002,003,004,005, 006, 009,010,011,012,013,014 and 015, and FCA Free Carrier (Contractor's Facility) for items 007 to 008, applicable taxes extra, as applicable. Freight charges to destination for items 001,002,003,004,005,006,009,010,011,012,013,014 and 015 and all applicable Custom duties and Excise taxes must be included

## 2. Basis of Selection

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price excluding item 011, Integrated Logistic Support will be recommended for award of a contract.

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## **PART 5 - CERTIFICATIONS**

Bidders must provide the required certifications and related documentation to be awarded a contract. Canada will declare a bid non-responsive if the required certifications and related documentation are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications, to provide the related documentation or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

### **1. Mandatory Certifications Required Precedent to Contract Award**

#### **1.1 Code of Conduct and Certifications - Related documentation**

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

### **2. Additional Certifications Precedent to Contract Award**

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

#### **Federal Contractors Program - \$200,000 or more**

1. The Federal Contractors Program (FCP) requires that some suppliers, including a supplier who is a member of a joint venture, bidding for federal government contracts, valued at \$200,000 or more (including all applicable taxes), make a formal commitment to implement employment equity. This is a condition precedent to contract award. If the Bidder, or, if the Bidder is a joint venture and if any member of the joint venture, is subject to the FCP, evidence of its commitment must be provided before the award of the Contract.

Suppliers who have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

2. If the Bidder does not fall within the exceptions enumerated in 3.(a) or (b) below, or does not have a valid certificate number confirming its adherence to the FCP, the Bidder must fax (819-953-8768) a copy of the signed form LAB 1168, Certificate of Commitment to Implement Employment Equity, to the Labour Branch of HRSDC.
3. The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- (a) ☐ is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- (b) ☐ is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;
- (c) ☐ is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC (having not bid on requirements of \$200,000 or more), in which case a duly signed certificate of commitment is attached;
- (d) ☐ is subject to the FCP, and has a valid certificate number as follows: \_\_\_\_\_ (e.g. has not been declared an ineligible contractor by HRSDC.)

Further information on the FCP is available on the HRSDC Web site.

## PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

1. Security Requirement
2. Requirement
3. SACC Manual Clauses
4. Standard Clauses and Conditions
5. Term of Contract
6. Authorities
7. Payment
8. Invoicing Instructions
9. Certifications
10. Applicable Laws
11. Priority of Documents
12. Defence Contract
13. SACC Manual Clauses (Delivery, Inspection and Acceptance)
14. Preparation for delivery
15. SACC Manual clauses (delivery)
16. Shipping Instructions, Delivery to destination - Firm quantity - Item 001 to 006 and 009 to 015
17. Shipping Instructions, Delivery at origin - Optional Quantity - Item 007 to 008
18. Lifetime Spares
19. Meeting
20. Insurance requirement
21. Commercial General Liability Insurance

### List of Annexes

Annex A	Statement of Work for Field Power Distribution Systems (FPDS)
Attachment I to Annex A	Environmental Health and Safety Assessment for Field Power Distribution Systems (FPDS)
Appendix I to Annex A	Publications for Field Power Distribution Systems (FPDS)
Appendix II to Annex A	Commercial Engineering Drawings and associated lists for Field Power Distribution Systems (FPDS)
Annex B	Basis of Payment



## **1. Security Requirement**

There is no security requirement associated with the requirement.

## **2. Requirement**

The Contractor must provide the goods in accordance with the technical requirement stated at Annex A - Scope of Work and in the quantities stated in Annex B - Basis of Payment.

### **2.1 Option Quantities (Item 007 and 008 of Annex B - Basis of Payment)**

The Contractor shall grant to Canada an irrevocable option to purchase additional quantities. This option is open for acceptance at the prices specified in this document during the period as follows: Option quantities for a period of one (1) year from the effective date of the Contract.

The option may be exercised in whole or in part, as frequently up to a maximum quantity of the original contract only by a contract amendment issued by the Contracting Authority. Upon the exercise of the option by the Contracting Authority, the contract shall be amended to incorporate the item into the work to be performed by the Contractor under the Contract, and all of the obligations of the Contractor under the Contract will apply.

Nothing contained in this Contract shall require the Minister to exercise the option and to exercise the option is at the sole discretion of the Minister.

### **2.2 Option to purchase Spare Parts - Item 011**

- a. The Contractor hereby grants to Canada an irrevocable option to purchase at any time during the Contract the Spare Parts in accordance with the recommended spare parts list Annex A - clause 4.2.3.
- b. The Contractor will be given a minimum of thirty (30) calendar days notice in writing by the Contracting Authority indicating that Canada intends to exercise the option.
- c. The option may only be exercised by the Contracting Authority, and the exercise of the option will be evidenced through a formal Contract Amendment.
- d. Price support may be requested.

## 2.3 Optional Extended Warranty Period

- a. The Contractor grants to Canada the irrevocable option to extend the warranty period for an additional (to be inserted by PWGSC) months, under the same terms and conditions and at the price stated in the Contract.
- b. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purpose only, through a contract amendment.
- c. The Contracting Authority may exercise the option within ninety (90) calendar days after contract award by sending a written notice to the contractor.

## 3. SACC Manual Clauses

SACC Reference	Section	Date
C2800C	Priority Rating	2013-01-28
C2801C	Priority Rating - Canadian Contractors	2011-05-16
B7500C	Excess Goods	2006-06-16
B4042C	Identification Markings	2008-05-12
B1501C	Electrical Equipment	2006-06-16

## 4. Standard Conditions and Clauses

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<http://sacc.pwgsc.gc.ca/sacc/index-e.jsp>) issued by Public Works and Government Services Canada (PWGSC).

### 4.1 General Conditions

2010A (2013-03-21) General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

At section 09, Warranty

Delete paragraph 2 in their entirety and replace with the following:

Any defective equipment, sub-assembly or component shall be replaced or repaired, without charge for parts, labour, transportation and living expenses by the Contractor's authorized dealer and/or agent nearest identified herein. The Contractor must be responsible to ensure that prompt warranty action is taken. In the event of a warranty dispute with a component manufacturer, The Contractor will be held responsible for all warranty coverage.

If action to effect repairs under warranty cannot be initiated within two (2) working days and completed within a reasonable length of time or if the Contractor has no repair facilities in the immediate vicinity (within 150 kilometers - Urban location) of the specified delivery (consignees), the Department of National Defence reserves the right to make such repairs and be reimbursed by the Contractor at the rate of \$103.91 per hour for labour and the cost for replaced parts.

## **4.2 Supplemental General Conditions**

4006 (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information

## **5. Term of Contract**

### **5.1 Delivery Date**

The Contractor must make the deliveries within the number of calendar days as detailed under Annex B - Basis of Payment for each items excluding item 011 from the effective date of the Contract.

## **6. Authorities**

### **6.1 Contracting Authority**

The Contracting Authority for the contract is:

Stéphane Dubeau, Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
Logistics, Electrical, Fuel and Transportation Directorate  
"HN" Division, 7B3, Place du Portage, Phase III  
11 Laurier Street  
Gatineau, Quebec, K1A 0S5  
Telephone: (819) 956-1533  
Facsimile: (819) 953-4944  
E-mail address: stephane.dubeau@pwgsc.gc.ca

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

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## 6.2 Procurement Authority (to be inserted by PWGSC)

The Procurement Authority for this contract is:

To be completed by PWGSC  
National Defence Headquarters  
Mgen. George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, Ontario K1A 0K2  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

## 6.3 Technical Authority (to be inserted by PWGSC)

The Technical Authority for the Contract is:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

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

## 6.4 Contractor Contacts (to be inserted by PWGSC)

Name and telephone number of the person responsible for:

### General enquiries

Name: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Facsimile No. \_\_\_\_\_

E-mail address: \_\_\_\_\_

### Delivery follow-up

Name: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Facsimile No. \_\_\_\_\_

E-mail address: \_\_\_\_\_

## 6.5 After Sales Services (to be inserted by PWGSC)

The following dealer/or agent is authorized to provide after sales services, maintenance and warranty repairs, and a full range of repairs parts for the equipment offered:

Distance between the delivery location and the dealer and/or agent: \_\_\_\_\_ km.

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone number: \_\_\_\_\_

## 7. Payment

### 7.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid, in Canadian dollars, a firm unit prices for items 001-008 and firm lot prices for item 009-015, as specified in Annex B - Basis of Payment. Customs duties are included and Applicable Taxes are extra.

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

## 7.2 SACC Manual Clauses

<b>SACC Reference</b>	<b>Section</b>	<b>Date</b>
G1005C	Insurance	2008-05-12
C2000C	Taxes- Foreign-based Contractor	2007-11-30
H1001C	Multiple Payments	2008-05-12

## 7.3 Exchange Rate/Payment on Delivery

1. The price in Canadian currency includes the foreign currency component in respect of goods, services or both originating outside Canada, as detailed in form PWGSC-TPSGC 9411, Claim for Exchange Rate Adjustments.
2. The price must be adjusted to reflect the exchange rate in effect and applied by Canada Border Services Agency (CBSA) on the date of importation, but only in respect of the foreign currency component detailed in the above form.
3. No price adjustment directly resulting from the application of the provisions contained in this clause will be applied for increases or decreases in the exchange rate within a variation of: plus or minus 2 percent of the exchange rate(s) mentioned above; or plus or minus \$100 of the total cumulative amount claimed for exchange rate adjustment under the Contract.
4. On each invoice or claim for payment submitted under the Contract, the Contractor must indicate the exchange rate adjustment amount (either upward, downward or no change) as a separate item. In addition, the invoice must be accompanied by a copy of CBSA Form B3-3, Canada Customs Coding Form, for the imported goods, services or both.
5. Canada will have the right to audit any revision to costs and prices under this clause.

## 7.4 Progress Reports

1. The Contractor must submit monthly reports, in electronic format, on the progress of the Work, to both the procurement and technical Authority and the Contracting Authority.
2. The progress report must contain three parts:
  - A. PART 1: The Contractor must answer the following three questions:
    - I. Is the project on schedule?
    - II. Is the project within budget?
    - III. Is the project free of any areas of concern in which the assistance or guidance of Canada may be required?

Each negative response must be supported with an explanation.

- B. PART 2: A narrative report, brief, yet sufficiently detailed to enable the procurement and technical Authority to evaluate the progress of the Work, containing as a minimum:
  - I. A description of the progress of each task and of the Work as a whole during the period of the report. Sufficient sketches, diagrams, photographs, etc., must be included, if necessary, to describe the progress accomplished.
  - II. An explanation of any variation from the work plan.
  - III. A description of trips or conferences connected with the Contract during the period of the report.
  - IV. A description of any major equipment purchased or constructed during the period of the report.
- C. PART 3: The "Contract Plan and Report Form", PWGSC-TPSGC 9143, (or an equivalent form acceptable to the Contracting Authority) showing the following:
  - I. Actual and forecast expenditure on a monthly basis for the period being covered. (Expenditures are to be outlined by month and by task.)
  - II. Progress of the Work against the Contractor's original Contract Plan (instructions for showing the above on the Contract Plan are detailed in Annex "\_\_\_\_\_" attached). The form will provide the basis for planning and estimating the cost of work, and reporting actual progress and cost against the plan during contract performance.

## 7.5 Hold Back

Canada will apply a ten (10) percent holdback on the total price of the FPDS equipment on any due payment of the said equipment.

For items 001 to 006 (firm quantity) release of the holdback (10%) is conditional upon receipt and certified acceptance by DND of the said equipment and related items such as the FPDS manuals, Technical data Package, Integrated Logistics Support, Test Reports, Quality Assurance Plan, Environmental Health and Safety Assessment, and Disposal/Decommissioning Instruction.

For items 007 to 008 (optional quantity), release of the holdback (10%) is conditional upon receipt and certified acceptance by DND of the said equipment and related items such as the FPDS manuals, Technical data Package, Integrated Logistics Support, Test Reports, Quality Assurance Plan, Environmental Health and Safety Assessment, and Disposal/Decommissioning Instruction.

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

- (a) The original invoice for the holdback must be forwarded to the Procurement Authority identified under the section entitled "Authorities" of the Contract.
- (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

## **8. Invoicing Instructions**

- 1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
- 2. Invoices must be distributed as follows:
  - (a) The original and one (1) copy must be forwarded to the following address for certification and payment.

National Defence Headquarters  
MGen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON, K1A 0K2  
Attention: DLP 5-5-1

- (b) One (1) copy to:

Department of Public Works and Government Services  
"HN" Division  
7B3 Place du Portage, Phase III  
11 Laurier Street  
Gatineau, QC  
K1A 0S5  
Attention: Stéphane Dubeau



## 9. Certifications

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

## 10. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

## 11. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the supplemental general conditions 4006 (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information;
- (c) 2010A (2013-03-21) General Conditions - Goods (Medium Complexity);
- (d) Annex A - Statement of Work CPDS-SB,  
Attachment I to Annex A Environmental Health and Safety Assessment for Field Power Distribution Systems (FPDS),  
Appendix I to Annex A Publications for Field Power Distribution Systems (FPDS),  
Appendix II to Annex A Commercial Engineering Drawings and associated lists for Field Power Distribution Systems (FPDS);
- (e) Annex B - Basis of Payment;
- (f) the Contractor's bid dated \_\_\_\_\_. (to be inserted by PWGSC)

## 12. Defence Contract

SACC Manual clause A9006C (2012-07-16) Defence Contract.

### 13. SACC Manual Clauses (Delivery, Inspection and Acceptance)

SACC Reference	Section	Date
D5545C	ISO 9001:2008 - Quality Management Systems - Requirements (QAC C)	2010-08-16
D5511C	Test Validation	2010-01-11
D5510C	Quality Assurance Authority (DND) - Canadian-based Contractor	2012-07-16
D5515C	Quality Assurance Authority (DND) - Foreign-based and United States Contractor	2010-01-11
A1009C	Work Site Access	2008-05-12
D5328C	Inspection and Acceptance	2007-11-30

#### 13.1 Release Documents - Distribution

The Contractor must prepare the release documents in a current electronic format and distribute them as follows:

- A. One (1) copy mailed to consignee marked: "Attention: Receipts Officer";
- B. Two (2) copies with shipment (in a waterproof envelope) to the consignee;
- C. One (1) copy to the Contracting Authority;
- D. One (1) copy to:

National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
Attention: \_\_\_\_\_

- E. One (1) copy to the Quality Assurance Representative;
- F. One (1) copy to the Contractor; and
- G. For all non-Canadian contractors, one (1) copy to:

DQA/Contract Administration  
National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
E-mail: ContractAdmin.DQA@forces.gc.ca.

NOTE: For into-plane refueling contracts b, c and d above are not required.

## 14. Preparation for Delivery

The Contractor must prepare item number 001 to 008 for delivery in accordance with the latest issue of the Canadian Forces Packaging Specification D-LM-008-036/SF-000, DND Minimum Requirements for Manufacturer's Standard Pack.

The Contractor must package item number 001 to 008 in quantities of one (1) by package.

## 15. SACC Manual Clauses (Delivery)

SACC Reference	Section	Date
D2000C	Marking	2007-11-30
D2001C	Labeling	2007-11-30
D6010C	Palletization	2007-11-30
D2025C	Wood Packaging Materials	2008-12-12
D3010C	Dangerous Goods/Hazardous Products	2007-11-30
D9002C	Incomplete Assemblies	2007-11-30

## 16. Shipping Instructions - Delivery at Destination - Firm quantity - Item 001 to 006 and 009 to 015

Goods must be consigned to the destination specified in the Contract and delivered: Delivered Duty Paid (DDP), 7 CF Supply Depot Lancaster Park and 25 CF Supply Depot Montreal Incoterms 2000 for shipments from commercial contractor.

### 16.1 Shipping - Scheduling

The Contractor must deliver the goods to Canadian Forces (CF) Supply Depots by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the Depot Traffic Section at the appropriate location shown below. The consignee may refuse shipments when prior arrangements have not been made.

- (a) 7 CF Supply Depot Lancaster Park  
Edmonton, Alberta  
Telephone: 780-973-4011, ext. 4524
- (b) 25 CF Supply Depot Montreal  
Montreal, Qué.  
Telephone: 1-866-935-8673 (toll free), or  
514-252-2777, ext. 2363 / 4673 / 4282

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**17. Shipping Instructions - Delivery at Origin - Optional Quantity - Item 007 and 008**

1. Delivery will be FCA Free Carrier at the Contractor's facility or the Contractor's Canadian Distribution Point, Incoterms 2000. The Contractor must load the goods onto the carrier designated by the Department of National Defence (DND). Onward shipment from the delivery point to the consignee will be Canada's responsibility.
2. Before shipping the goods, the Contractor must contact the following DND Inbound Logistics Coordination Center by facsimile or e-mail, to arrange for shipment, and provide the information detailed at paragraph 3.
3. The Contractor must provide the following information to the DND Inbound Logistics Coordination Center when arranging for shipment:
  - A. the Contract number;
  - B. consignee address (for multiple addresses, items must be packaged and labeled separately with each consignee address);
  - C. description of each item;
  - D. the number of pieces and type of packaging (i.e., carton, crate, drum, skid);
  - E. actual weight and dimensions of each piece type, including gross weight;
  - F. full details of dangerous material, as required for the applicable mode of transportation, signed certificates for dangerous material as required for shipment by the International Maritime Dangerous Goods Code, the International Air Transport Association regulations or the applicable Canadian Dangerous Goods Shipping Regulations, and a copy of the materiel safety data sheet.
4. Following receipt of this information by Canada, Canada will provide the appropriate shipping instructions, which may include the requirement for specific consignee address labeling, and the marking of each piece with a Transportation Control Number.
5. The Contractor must not ship the goods before receiving shipping instructions from the DND Inbound Logistics contact.
6. If the Contractor delivers the goods at a place and time which are not in accordance with the given delivery instructions or fail to fulfill reasonable delivery instructions given by Canada, the Contractor must reimburse Canada any additional expenses and costs incurred.
7. If Canada is responsible for delays in delivering the goods, ownership and risk will be transferred to Canada upon expiry of either thirty (30) days following the date on which a duly completed shipping application is received by Canada or by its appointed forwarding agent, or thirty (30) days following the delivery date specified in the Contract, whichever is later.

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## 18. Lifetime Spares

**The life of the equipment is \_\_\_\_\_ years.** Should the Contractor discontinue the manufacture of the equipment being procured during the life expectancy of the equipment, it shall notify Canada sufficiently in advance to permit the purchase of spares for the remaining life of the equipment or, at the discretion of Canada, either make satisfactory arrangements with a third party to establish a continuing source of spares or provide to Canada, at no charge, a non-exclusive royalty free license to manufacture and have manufactured for its own use spare parts, and provide copies of all drawings, technical information, specifications, manufacturing instructions and patterns necessary to manufacture the spares.

## 19. Meeting

### 19.1 Start-up Meetings

The Contractor must contact the Contracting Authority to schedule the start-up meeting. The start-up meeting will take place within three (3) weeks from the effective date of the Contract. The meeting will be convened to review technical, contractual, and procedural requirements. The Contractor must be responsible for the drafting and promulgation of the agenda and minutes for the meeting within five (5) calendar days after meeting has been held. The meeting will be held at the Contractor's facilities at no additional cost to Canada, with representatives of the Contractor, the Department of National Defence and Public Works and Government Services Canada.

## 20. Insurance Requirements

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

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

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

## **21. Commercial General Liability Insurance**

1. The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.
2. The Commercial General Liability policy must include the following:
  - A. Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
  - B. Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
  - C. Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
  - D. Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
  - E. Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
  - F. Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
  - G. Employees and, if applicable, Volunteers must be included as Additional Insured.
  - H. Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
  - I. Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
  - J. Notice of Cancellation: The Insurer will endeavor to provide the Contracting Authority thirty (30) days written notice of policy cancellation.

- 
- K. If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.  
(Contracting officers must insert the applicable options below and renumber accordingly.)
- L. Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.

Solicitation No. - N° de l'invitation

W8476-134240/A

Amd. No. - N° de la modif.

File No. - N° du dossier

hn323W8476-134240

Buyer ID - Id de l'acheteur

hn323

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

W8476-134240

CCC No./N° CCC - FMS No/ N° VME

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## ANNEX A

### STATEMENT OF WORK

#### FOR

#### FIELD POWER DISTRIBUTION SYSTEMS (FPDS)



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## 1.0 Scope

### 1.1. Purpose

This Statement of Work (SOW) defines the work required for the production, qualification and delivery of a commercial off the shelf (COTS) or military off the shelf (MOTS) Field Power Distribution Systems (FPDS).

### 1.2 Background

Most of the field power distribution systems used by Canadian Forces are not CSA certified for outdoor use and not compatible with existing central power distribution systems (CPDS). To address these deficiencies, 1000 power distribution boxes and cable sets are required for domestic and non-tactical operations to safely distribute power from 5 kW and 10 kW generators, while also providing systems that integrate with CPDS systems.

### 1.3 List of Abbreviations

AWG	American Wire Gauge
CA	Contracting Authority
CF	Canadian Forces
CFFM	Canadian Forces Fire Marshal
COTS	Commercial Off The Shelf
CPDS	Central Power Distribution System
CSA	Canadian Standards Association
DND	Department of National Defence
EHS	Environmental Health and Safety
EHSA	Environmental Health and Safety Assessment
FPDS	Field Power Distribution System
FPDS-PDB	Field Power Distribution System - Power Distribution Box
FAIT	First Article Inspection and Testing
GFCI	Ground Fault Circuit Interrupter
HAZMAT	Hazardous Material
IEC	International Electro-technical Commission
IP Right	Intellectual Property Right
IP	Ingress Protection
IP Code	Ingress Protection Code
MOC	Military Occupational Code
MOTS	Military Off The Shelf
MSDS	Material Safety Data Sheet
MTBF	Mean Time Between Failure
MTTR	Mean Time To Repair
NCAGE	NATO Commercial And Government Entity
NSN	National Stock Number
OEM	Original Equipment Manufacturer
PDB	Power Distribution Box
RoHS	Restriction of Hazardous Substances
RSPL	Recommended Spare Parts List
SDR-IK	Storage Deployment Recovery and Installation Kit
SOW	Statement of Work
TA	Technical Authority
TDP	Technical Data Package
TQG	Tactical Quiet Generator
ULC	Underwriter's Laboratories of Canada
VAC	Volts of Alternating Current
KW	Kilowatt

## 2.0 APPLICABLE DOCUMENTS

### 2.1 Applicability

The following documents form part of this SOW to the extent specified herein. Unless otherwise specified, the issue or amendment of documents effective for this Contract shall be those in effect on the date of Contract award. Other documents that form part of this SOW may be found in the applicable section in each of the appendices. In the event of conflicts between the documents referenced below and the contents of the SOW, the contents of the SOW shall take precedence.

### 2.2 Publications

#### 2.2.1 Government Publications

D-01-100-214/SF-000	Specification for Preparation of Provisioning Documentation for Canadian Forces Equipment
D-01-400-001/SG-000	Engineering Drawing Practices
D-01-400-002/SF-000	Levels of Engineering Drawings and Associated Lists
D-02-002-001/SG-001	Identification Marking of Canadian Military Property

#### 2.2.2 Other Publications

CSA 22.2 No 29-11	Panel boards and Enclosed Panel boards
CSA 22.2 No 0.3-09	Test Methods for Electrical Wires and Cables
IEC 60309-2:2012	Plugs, Socket-Outlets and Couplers for Industrial Purposes Part 2: Dimensional inter changeability requirements for pin and contact-tube accessories.
IEC 60529:2001	Degrees of Protection Provided by Enclosures (IP Code)
ASTM D4728-2006 (2012)	Standard Test Method for Random Vibration Testing of Shipping Containers
ASTM D5276-2009	Standard Test Method for Drop Test of Loaded Containers by Free Fall
FED-STD-595C	Colors Used in Government Procurement

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MIL-HDB-454 B	General Guidelines for Electronic Equipment
MIL-STD-1472 G	Human Engineering
MIL-STD 810G	Environmental Engineering Considerations and Laboratory Tests
ISO 9001:2008	Quality Management Systems - Requirements
ISO/IEC 17025	General Requirements for the Competence of Testing and Calibration Laboratories

### 3.0 PROJECT REQUIREMENTS

#### 3.1 General

The Field Power Distribution Systems (FPDS) shall be a ruggedized, portable, COTS or MOTS system for power distribution in outdoor conditions. The FPDS shall be deployed in self-contained Storage, Deployment, Recovery and Installation Kits (SDR-IK). The kits shall be delivered in two configurations, an FPDS 5kW and FPDS 10kW SDR-IK. The 5kW FPDS system shall be capable of distributing power for a 5kW tactical quiet generator (TQG), while the 10 kW FPDS shall be capable of distributing power for a 10 kW TQG, using two distribution boxes.

##### 3.1.1 SDR-IK 5 kW FPDS contains:

- (a) Quantity 1: COTS Power Distribution Box (PDB);
- (b) Quantity 1: W5 Cable Assembly: NSN 6150-20-000-1284;
- (c) Quantity 1: W15 Cable Assembly;
- (d) Quantity 1: Ground Rod Assembly: NSN 5975-00-878-3791;
- (e) Quantity 1: Ground Rod Driver/Puller: NSN 5120-01-013-1676, and
- (f) Quantity 1: Shipping and Storage Container, 5 kW FPDS

##### 3.1.2 SDR-IK 10 kW FPDS contains:

- (a) Quantity 2: COTS Power Distribution Box (PDB);
- (b) Quantity 2: W5 Cable Assembly: NSN 6150-20-000-1284;
- (c) Quantity 2: W15 Cable Assembly;
- (d) Quantity 2: Ground Rod Assembly: NSN 5975-00-878-3791;
- (e) Quantity 1: Ground Rod Driver/Puller: NSN 5120-01-013-1676, and
- (f) Quantity 1: Shipping and Storage Container, 10 kW FPDS

## 3.2 Physical Characteristics

### 3.2.1 Power Distribution Box (PDB)

The Power Distribution Box and accessories shall be certified by the CSA or an accredited organization approved by the CSA.

#### 1. Size and Weight

One (1) person shall be capable of carrying the PDB for ten (10) meters, in accordance with MIL-STD 1472F, section 5.9.11.3. The maximum dimensions and weight of PDB shall be as follows:

Length	864 mm (34")
Width	457 mm (18")
Height	457 mm (18")
Weight	32 Kg (70.5lb)

#### 2. Enclosure

The PDB enclosure shall be metallic, and meet a minimum IP 44 rating, as per IEC 60529 Standard.

#### 3. Corrosion Protection

The PDB enclosure and components shall be suitably designed and treated to resist corrosion.

#### 4. Protective Coating Colour

The PDB shall have corrosion resistant coatings applied on exposed metal surfaces only. The preferred coating colour Green 383 #34094 OR Flat Black, #37030 in accordance with FED-STD-595.

#### 5. Nameplates and Product Marking

The FPDS components shall be marked for identification purposes in accordance with specification D-02-002-001/SG-001. Sample from Id Plates and Labels shall be submitted to the Technical Authority (TA) for approval.

## 6. Inputs

The PDB shall have one inlet, 560B9W of IEC 60309 connector, NSN 5935-20-000-0913. The inlet connector shall meet IP67 rating for weatherproofing, as per IEC 60309 standard.

## 7. Outputs and Protective circuits

The PDB outputs & protective circuits shall be as follows:

### a. 20A Distribution Outlets:

The FPDS shall have six (6) 120 VAC receptacles, CSA configuration 5-20R (two (2) receptacles per phase);

### b. 60A Outlet:

The FPDS shall have one (1) outlet, an IEC 60309 560R9W type connector, NSN 5935-01-361-4166. The outlet shall meet IP67 rating for weatherproofing, as per IEC 60309 standard. Outlets shall be labeled to be easily identifiable;

### c. GFCI Protection:

The distribution outlets shall have Ground Fault Circuit Interruption (GFCI) protection. The GFCI switches shall have a visible "power on" indicator. It is preferred that two (2) receptacles have no GFCI protection; and,

### d. Circuit Breakers:

Each receptacle shall have short circuit and overload protection in accordance with CSA standard 22.2 No. 29-11. Circuit breakers shall be labeled to match their corresponding outlets.

## 8. Grounding

The FPDS-PDB shall have appropriately sized grounding lug that is compatible with the ground rod assembly and meets CSA requirement.



- a. Ground Rod Assembly NSN 5975-00-878-3791  
The ground rod assembly shall include the grounding rod, # 4 AWG grounding cable and connecting hardware.
- b. Ground Rod Driver/Puller - NSN 5120-01-013-1676

### 3.2.2 Storage, Deployment, Recovery and Installation Kits (SDR-IK)

#### 1. Cable Assemblies:

The FPDS SDR-IK shall include the following 60A power distribution cables:

- a. W5 Cable Assembly - NSN 6150-20-000-1284  
Reference Drawing #: 0175398-100  
Length: 25000 mm  
Nominal Current: 60A, 3 phase  
Number of Conductors - Size: 5 Conductor - #6 AWG  
Connector 1: Type 560C9W, NSN: 5935-20-000-1060  
Connector 2: Type 560P9W, NSN: 5935-20-003-5640
- b. W15 Cable Assembly -  
Length: 5000 mm  
Nominal Current: 60A, 3 phase  
Number of Conductors - Size: 5 Conductor - #6 AWG  
Connector 1: Type 560C9W, NSN: 5935-20-000-1060  
Connector 2: Solder Dip Bare Wire.

#### 2. Shipping and Storage Containers:

The FPDS SDR-IK shall be packaged in appropriately sized re-useable, plastic bulk shipping containers. Shipping containers shall include removable lids and drop sides for ease of access. Dimensions are provided below for reference purposes only.

- a. Shipping and Storage Container, 5 kW FPDS  
Length: 816 mm (32 in)  
Width: 762 mm (30 in)  
Height: 864 mm (34 in)
- b. Shipping and Storage Container, 10 kW FPDS  
Length: 1214 mm (47.8 in)  
Width: 1143 mm (45 in)  
Height: 856 mm (33.7 in)

### 3.3 Operational Characteristics

#### 3.3.1 General:

The FPDS shall be of a fail safe design and meet MIL-HDBK-454 B, Safety Design Criteria. The equipment shall meet MIL-STD-1472 G for human engineering.

#### 3.3.2 Transportability:

The FPDS shall be air, road and sea transportable without any special preparation.

##### 3.3.2.1. Transient Vibration:

The complete FPDS SDR-IK, in transportation configuration, shall successfully pass vibration testing in accordance with ASTM D4728-2006 (2012), with the vibration profile found in MIL-STD 810G, Method 514.6, Annex C - Category 4, Vibration profile 514.6C-1 (60 minutes per axis). The FPDS-PDB and other components of the system shall show no evidence of wire chafing, loose or broken parts, touching or shorting of electrical parts, component fatigue, cracking of material or permanent deformation that will make the equipment unsafe to operate. The PDB shall be sufficiently robust to remain undamaged when transported cross-country in trailers or vehicles when correctly secured.

##### 3.3.2.2. Transient Drop:

The complete FPDS SDR-IK shall successfully pass drop testing, as per ASTM D5276-2009, procedure A2.2.3, from a height of 48 inches. The PDB, as an individual unit, shall successfully pass drop testing as per ASTM D5276-2009, procedure A2.2.4, from a height of 48 inches. The FPDS-PDB and other components of the system shall show no evidence of wire chafing, loose or broken parts, touching or shorting of electrical parts, component fatigue, cracking of material or permanent deformation that will make the equipment unsafe to operate.

#### 3.3.3 Operational Environment

##### 3.3.3.1 Operating Temperatures:

The FPDS shall be capable of operating in ambient temperatures from -40°C up to 50°C at 100% load, as per MIL-STD 810G, Methods 502.5, Procedure I Storage and 501.5, Procedure II Operation.

### 3.3.3.2 Humidity:

FPDS items shall show no evidence of material deformation due to moisture absorption, degradation of electrical properties in insulating material, electrical shorts, oxidation, galvanic corrosion, failure to operate safely, or other defects which are detrimental to the intended function when tested for humidity, as per MIL-STD 810G, Method 507.5, Procedure I.

### 3.3.4 Ease of Operation

The FPDS shall be capable of being operated by any soldier from any Military Occupational Code (MOC). The soldier shall be capable of operating the equipment while wearing arctic clothing.

### 3.3.5 Storage

#### 3.3.5.1 Storage Temperature:

The FPDS shall be capable to withstand storage temperatures between -50°C to 70°C, at up to 95% relative humidity, as per MIL-STD 810G, Methods 502.5, Procedure I and 501.5, Procedure I.

#### 3.3.5.2. Stack-ability:

The FPDS PDB shall be capable of being securely stacked while in storage, to a minimum height of three units. The FPDS SDR-IK shall be capable of being securely stacked while in storage, to a minimum height of two (2) units.

### 3.3.6 Reliability

#### 3.3.6.1. The Mean Time Between Failure (MTBF) of the FPDS shall not be less than 8000 hours.

#### 3.3.6.2 Sustained Over Voltage:

The FPDS shall be able to sustain for one (1) minute an applied voltage of twice the rated voltage plus 1000 VDC as per CSA 22.2 No. 29-11, clause 7.2.

### 3.3.6.3. Insulation Resistance:

The FPDS shall successfully pass the Insulation Resistance Test and Wiring Point-to-Point as per CSA Standard Test Method for Electrical Wires and Cables, C22.2 NO 0.3-09. The insulation resistance between Line-Neutral and Ground shall not be less than 100 mega-ohms.

### 3.3.7 Life Expectancy:

The power supply shall have a life expectancy of fifteen (15) years. This life expectancy is based on the equipment operating 168 hours per week, 12 weeks per year, in a military environment.

### 3.3.8 Environmental Health and Safety Assessment

The Contractor shall comply with Environmental, Health and Safety legislation, such as the Canadian Environmental Protection Act, Canadian Environmental Assessment Act, Hazardous Products Act, Transportation of Dangerous Goods Act, Canada Labour Code, and their regulations, in force in relation to the provision of goods or services. Where the provisions of any such legislation are implemented by the use of voluntary agreements or codes of practice, the Contractor shall comply with such agreements or codes of practices as if they were incorporated into Canada law subject to those voluntary agreements being cited herein. The Contractor is responsible to comply with laws applicable to the performance of the Contract. The Contractor shall provide evidence of compliance with such laws to Canada at such times as Canada may reasonably request.

The Contractor shall be responsible for the change of any products used in the provision of the goods or services that are not in compliance with Canadian legislation or regulations.

The equipment shall comply with all applicable Canadian legislation or regulations and Restriction of Hazardous Substances (RoHS) use, which ever is more stringent. The Contractor shall prepare a full Environmental Health and Safety Assessment (EHSA).

### 3.3.9 Equipment Qualification and Performance Testing

3.3.9.1 The Contractor shall meet all equipment qualification and performance testing requirements as detailed herein. All tests shall be performed by certified third party test establishments. The Contractor shall provide copies of the test reports to DND prior to First Article Inspection and Testing (FAIT). Alternatively, the Contractor shall arrange for trials to be witnessed by DND procurement and Quality Assurance personnel.

3.3.9.2 Transient vibration test: to ASTM D4728-2006 (2012) or according to the Mil-Std-810G, method 514.6, Category 4, vibration profile to 514.6C-1 (60 minute per axis);

3.3.9.3 Transient Drop Test: to ASTM D5276-09, procedure A2.2.3 at height of 48"; and

3.3.9.4 Insulation resistance and sustain over voltage testing: as per CSA 22.2 No 29-11 clause 7.2 and CSA 22.2 No. 0.3-09. Insulation resistance of not less than 100 mega-ohms.

### 3.3.10 Canadian Standards Association (CSA)

The FPDS shall be certified for outdoor use by the Canadian Standards Association (CSA) or an accredited organization approved by the CSA such as Underwriter's Laboratories of Canada (ULC).

## 4.0 Deliverables

### 4.1 Deliverable Items

#### 4.1.1 First Production Unit:

Within sixty (60) days from date of Contract, the Contractor shall contact the Technical Authority (TA) to arrange for First Article Unit (FAU) demonstration. The performance of the Field Power Distribution System (FPDS) as detailed in the statement of work shall be demonstrated to TA at the Contractor's facilities. The qualified FAU herein after called as First Production Unit (FPU); shall be used to baseline the technical data package and the delivered documentation. Follow-on production of the FPDS shall not commence prior acceptance of FPU by the TA.

The contracting Authority will notify the Contractor, in writing, within five (5) days of the approval or rejection of the FPU. A notice of approval may be conditionally on further action required by the Contractor. A notice of rejection will state the reason's for the rejection.

If the FAU is rejected, the Contractor, upon request, must re-arrange a new FAU demonstration. After each request the contractor shall either make the necessary modification on the existing FAU or select and present new FAU for demonstration. The contractor must then arrange for the demonstration of the new FAU to Canada within ten (10) of so being requested.

All cost related to the FPU demonstrations shall be born by the Contractor. If the Contractor fails the demonstration of any FAU by its due date, or the FAU is rejected, the Contractor will be deemed to have failed to make delivery by the due date and will be considered as defaulted the Contract.

#### 4.1.2 Production Units:

Within 300 days of contract award, the Contractor shall deliver a firm quantity of 588 x 5 kw SDR-IK and 206 x 10 kw SDR-IK as per Para 3.1.1 and 3.1.2 above (including first production units) Field Power Distribution Systems. The Contractor shall ensure that all systems are delivered with all components correctly serviced to ensure that they are ready for use. The FPDS shall be delivered to the location(s) specified in the contract.

#### 4.2 Deliverable Documentation

##### 4.2.1 Manuals:

The Contractor shall provide and package one operating and maintenance manual with each FPDS system at time of delivery. In addition, following FAIT, the Contractor shall provide the TA with one manual in accordance with Appendix I to Annex A for approval within 30 days after the First Article Inspection and Testing (FAIT). The Manuals shall be provided in English with DND retaining the right to translate and make copies of the manuals as required. The contractor shall include appropriate environmental, health and safety warning and instructions in direct relation to any EHS risks posed by the equipment.

#### 4.2.2 Technical Data Package:

The Contractor shall provide Technical Data Package (TDP) in accordance with Appendix II to Annex A. The contractor shall submit the TDP to Technical Authority (TA) with a top-level assembly drawing in bilingual format of the FPDS-PDB as per D-01-400-001/SG-000 and D-01-400-002/SF-000 at least 60 days prior to the start of FPDS deliveries. The Contractor shall provide the following information required for cataloguing the FPDS system:

- (a) Name and Description of Item;
- (b) Price;
- (c) NATO Stock Number (NSN), if available;
- (d) OEM NATO Commercial and Government Entity code (NCAGE) number;
- (e) OEM Item Part Number; and
- (f) Detailed Assembly Drawing.

#### 4.2.3 Integrated Logistics Support:

At least 60 days prior to the start of power supply deliveries the Contractor shall provide the TA with a Recommended Spare Parts List (RSPL), as per D-01-100-214/SF-000, to maintain the power supply for a 24-month period. This list shall include:

- (a) Name and Description of item;
- (b) Price;
- (c) NSN, if available;
- (d) OEM NCAGE number;
- (e) OEM Item Part Number;
- (f) Detailed Assembly Drawing or Specification Data Sheet.

#### 4.2.4 Test Reports:

The Contractor shall provide a First Article Inspection and Test (FAIT) report within one week on the First Article Unit. The FAIT Test Report shall include all tests and reports as per section 3.3. The FAIT shall be conducted by a third party test facility certified to ISO 9001:2008 or ISO/IEC 17025 to perform the standard testing identified below:

- Transient Vibration
- Transient Drop
- Sustain Over Voltage
- Insulation resistance and
- CSA certification.

#### 4.2.5 Quality Assurance Plan:

Within 4 weeks of contract award, the Contractor shall provide a copy of his ISO 9001:2008 certifications, if available. Otherwise, the Contractor shall provide a Quality Assurance plan that details the Contractor's Quality Assurance Procedures and includes an Organizational Chart that clearly indicates the position of the Quality Assurance personnel within the organization.

#### 4.2.6 Environmental Health and Safety Assessment:

The Contractor shall provide a brief Environmental Health and Safety Assessment (EHSA) for Technical Authority approval detailing the EHS impact of the equipment and subsystems during all life cycle phases such as design, engineering and manufacturing, test and evaluation, production and delivery, operation and maintenance, and demilitarization and disposal. The EHSA shall include the following elements: project location and description, system design description, a completed Environmental Health and Safety Impact table, as per Attachment 1, a brief narrative summary of hazards and impacts identified in the tables and Material Safety Data Sheet (MSDS) for each hazardous material (HAZMAT) contained in the deliverables. The Contractor shall deliver a completed EHSA to the technical authority within 90 days of contract award. The Contractor shall modify and update the EHSA should changes occur throughout the project's life cycle and provide a copy to the Technical Authority for approval.



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#### 4.2.7 Disposal/Decommissioning Instructions:

The Contractor shall develop disposal plans and prepare decommissioning/disposal instructions to be approved by the Technical Authority. In addition to the operational, technical and administrative aspects required, these plans and instructions shall include EHS considerations to ensure the protection of individuals and the environment and to mitigate the EHS impacts resulting from the decommissioning/disposal activities.

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## ATTACHMENT 1

TO

ANNEX A

Environmental Health and Safety Assessment

FOR

FIELD POWER DISTRIBUTION SYSTEMS (FPDS)

Environmental Health and Safety Impact												
Potential EHS Impact							Life Cycle Phase					
Major Sub-system <sup>1</sup>	EHS Hazard	Justification	Significance <sup>1</sup>	Hazardous Ingredients	Chemical Abstract Service (CAS) Registration Number	EHS Control (NPRI, ARIET, challenged substance, OBS)	Health Impact	Environment Impact	Mitigation (Measures Required)	Mitigation Follow-up Plan	MSDS Reference (2)	Design
												Engineering & Manufacturing
												Test & Evaluation
												Production & Deliveries
Subsystem (ex: Enclosure)	Component 1 (ex: topcoat)	Component 2										Operation & Maintenance
												Demilitarization and Disposal

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Field Power Distribution System	Valued Ecosystem Components (Potential Effects are Identified with an "X")															
	Physical								Biological				Social			
	Atmosphere	Surface Water	Ground Water	Soils	Terrain	Vibration	Electromagne tic Radiation	Noise	Ionising Radiation	Terrestrial Animals	Terrestrial Habitat	Aquatic Animals	Aquatic Habitat	Vegetation	Heritage Historical	Recreation/A esthetic
People/Health																
Economy																
Services																
Land Use																
Subsystem 1 (ex: enclosure)																
Subsystem n (ex: cables)																

**Table 1: Summary of Proposed Maximum Mercury Content Levels**

<b>Mercury-Containing Product</b>	<b>Mercury content limit in the product</b>
Compact fluorescent lamps	3.5 mg
Non-linear fluorescent lamp for general lighting purposes, including a circular or square fluorescent lamp	15 mg
Linear fluorescent lamp for general lighting purposes	5 mg
Induction fluorescent lamp for general lighting purposes	15 mg
Mercury vapour lamp for general lighting purposes (? 40 W and ? 1 000 W)	(i) 50 mg until December 31, 2015 (ii) 0 mg after December 31, 2015
High pressure sodium vapour lamp	40 mg
Metal halide lamp (? 300 W)	40 mg
Metal halide lamp (> 300 W and ? 700 W)	65 mg
Metal halide lamp (> 700 W and ? 1 000 W)	150 mg
Automobile headlamp	5 mg
Cold cathode fluorescent lamp less than 1.5 m in length	5 mg
Cold cathode fluorescent lamp more than 1.5 m in length	
External electrode fluorescent lamp less than 1.5 m in length	5 mg
External electrode fluorescent lamp more than 1.5 m in length	13 mg
Cold cathode tubing for signage or cove lighting	100 mg per 2.44 m
Fluorescent and discharge lamp for special purposes other than those set out in these Regulations	No limit
High tech micro switches and relays for monitoring and control equipment	20 mg
Thermometer for laboratory or scientific research applications	No limit
Scientific instrumentation for the calibration of medical devices or for the calibration of scientific research instruments	No limit
A laboratory analytical standard	No limit
Scientific instrumentation used as a reference for clinical validation studies	No limit
Scientific instrumentation for measuring the quantity of mercury in the environment	No limit
Dental amalgam	No limit
Radiation and infrared light detector	No limit
Low mercury chloride reference electrode, mercury sulphate reference electrode and mercury oxide reference electrode	No limit
Replacement part for a product, if the product was, prior to the coming into force of the Regulations, manufactured with the part in question or manufactured with the part in question and imported	No limit
Professional, commercial and industrial photographic film	No limit
Professional, commercial and industrial photographic paper	No limit

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## APPENDIX I

TO

ANNEX A

PUBLICATIONS

FOR

FIELD POWER DISTRIBUTION SYSTEMS (FPDS)

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- 8.0 Quality Assurance
- 9.0 Draft Deliverables for Acceptance Purposes
- 10.0 Final Deliverables

## 1.0 INTRODUCTION

This Statement of Work (SOW) defines the production and deliverable requirements of the technical publications to be provided by the Contractor.

## 2.0 SCOPE OF WORK

The Contractor shall provide all technical publications for operation, maintenance and parts list of the deliverable end item as specified in Annex B, when requested by technical Authority.

## 3.0 APPLICABLE DOCUMENTS

A-AD-100-100/AG-000 National Defence Publishing Policy and Administration Procedures

A-DS-100-100/AG-002 Writing, Format and Production Guide to Administrative, Operational and Tactical Publications

C-01-000-001/AG-001 Specification - Authoring Publishing & Distribution (APDS) Deliverables Requirements

C-01-100-100/AG-005 Specification - Acceptance of Commercial and Foreign Government Publications as Adopted Publications

C-01-100-100/AG-006 Specification - Writing, Format and Production of Technical Publications

C-01-100-100/AG-008 Specification - Writing Guide for Technical Documentation

D-LM-008-022/SG-000 Standard for Packaging of Documentation



#### 4.0 PUBLICATIONS FORMAT

The Contractor shall provide Technical Publication as specify in Paragraph 4.2.1 of Annex A SOW for approval by the DND / TA.

##### Existing Commercial or Foreign Government Manuals

All publications provided as existing commercial or foreign government off the-shelf manuals shall be in both English and French, in one of the formats mentioned in Option 1, meeting the requirements of the current issue of C-01-100-100/AG-005. If either the English or the French version is not available, the Contractor shall be responsible to translate into the second language and provide in commercial format. The Contractor shall certify that the technical content of the translated version is technically accurate. Certificates shall be provided to this effect in accordance with paragraph 6.0 Controlled goods.

The rights that Canada has been granted under the Terms and Conditions of the Contract shall be clearly indicated on the front of the Publication.

#### 5.0 NATIONAL DEFENCE INDEXING OF DOCUMENTATION (NDID) ASSIGNMENT

The contractor shall submit requests for NDID numbers to the DND / TA to obtain the numbers that will be assigned to the Publications.

#### 6.0 CONTROLLED GOODS

The DND / TA shall determine the controlled goods requirements for the Publications and provide direction to the Contractor on the marking requirements to be applied.

#### 7.0 CERTIFICATES

7.1 The Contractor shall prepare and provide the following Certificates in accordance with C-01-100-100/AG-006:

7.1.1 Validation (DND 590) for submission to the DND / TA;

7.1.2 Translation Accuracy Check (TAC);

7.1.3 Compliance (DND 591).

7.2 All final (soft and/or hard copy) deliverables shall be accompanied by DND 591 duly completed Certificate of Compliance, certificates DND 590 and a covering letter.

## 8.0 QUALITY ASSURANCE

Contractor procedures and practices shall be subjected to Government Quality Assurance (GQA)

## 9.0 DRAFT DELIVERABLES FOR ACCEPTANCE PURPOSES

Acceptance of the Publications for technical content requirements will be the responsibility of the DND / TA. Acceptance of the Publications and Soft Copy deliverables for format requirements will be DSCO 4-3. The soft and/or hard copy deliverables required for review purposes shall be in accordance with the DND / TA's instructions in conjunction with DSCO 4-3.

## 10.0 FINAL DELIVERABLES

### 10.1 Soft Copy Deliverables:

Soft copy deliverables format shall be prepared and provided in accordance with C-01-000-001/AG-001 as specified by the DND / TA in conjunction with DSCO 4-3.

### 10.2 Media of Delivery:

The Contractor shall provide the electronic files on CD-ROM and /or DVDs. The CD-ROM or DVDs shall be clearly labelled with the NDID number, publication title, corresponding file number(s) and type, and contract number.

### 10.3 Delivery:

Soft Copy Deliverables shall be delivered to:

National Defence Headquarters (NDHQ)  
MGen George R. Pearkes Building  
101 Colonel By Drive, Ottawa Ontario, Canada, K1A 0K2  
Attention: DSCO 4-3 1 LSTL (NQ-09)

### 10.4 Bulk Printing:

In accordance with the DND / TA's distribution requirements, bulk printing (hard copies) shall be delivered to: DSCO 4 Publications Depot, 2140 Thurston Drive  
Ottawa, Ontario, Canada, K1A 0K7

Note: where applicable, the Contractor shall deliver the soft copy files / hard copy technical publications simultaneously.

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## APPENDIX II

TO

ANNEX A

COMMERCIAL ENGINEERING DRAWINGS

AND

ASSOCIATED LISTS

FOR

FIELD POWER DISTRIBUTION SYSTEMS (FPDS)

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## 1. General

Engineering Drawings, Associated Lists and Reference Documents must be provided in accordance with the following requirements and in the final form specified below.

### 1.1 DSCO 4-3-2 Technical Data Action Notice (TDAN) Number:

The following number has been assigned to control the acquisition of all Engineering Drawings and Associated Lists produced under this contract: TDAN Number:  
124471164

### 1.2 Applicable Documents:

D 01-400-002/SF-000 dated 2011-03-01, Drawings, Engineering and Associated Lists.  
D-LM-008-022/SG-000, Standard for Packaging of Documentation  
ASME Y14.100, Engineering Drawing Practices  
ASME Y14.24, Types and Applications of Engineering Drawings  
ASME Y14.34M, Associated Lists

ISO 9660, Information Processing - Volume and File Structure of CDROM for  
Information Interchange

Z234.1-00, Canadian Metric Practices Guide

TIFF Revision 6, Adobe Systems Incorporated, dated June 3, 1992

### 1.3 New Drawings:

The Contractor shall prepare and deliver Engineering Drawings and Associated Lists which meet the design disclosure and legibility requirements of the specified level as defined by the Canadian Forces Engineering Drawings and Associated Lists specification D 01-400-002/SF-000.

#### 1.3.1 Drawing Level:

Level 2 Limited Production / Prototype

### 1.4 Drawing Practices:

Drawing practices shall be in accordance with ASME Y14.100.

## 2. Data Lists

Data Lists complete with Cover Sheets are required and shall be prepared in accordance with ASME Y14.34M and supplied as part of the Engineering Drawings. Data Lists shall be prepared at the item level of assembly (and/or end item) declared for future production by the Technical Authority. Cover sheets shall be prepared as sheet one (1) of the Data List. Cover Sheets shall include the contract number and a note which details the Intellectual Property Rights that apply to the data identified on the Data List (see paragraph 7, Data Rights).

## 3. Reference Documents

Reference documents called up on the Engineering Drawings (excepting those, which are government, society and readily available industrial specifications or standards) shall be included as part of the Engineering Drawings and Associated Lists.

## 4. Contractor Drawings

Existing Contractor Drawings being provided as part of the Engineering Drawing Package shall meet the requirements of paragraph 3.2, Existing Engineering Drawings of D 01-400-002/SF 000. In the event that Contractor Drawings do not meet the specified requirements the Contractor shall rework the drawings to ensure that the requirements are met.

## 5. Technical Data Action Notice (TDAN)

A TDAN shall be prepared listing all Drawings and Associated Lists delivered as a result of the Contract. A sample TDAN could be provided by the TA upon request by the Contractor.

### 5.1 Drawing System:

The mono-detail drawing system shall be used.

### 5.2 Drawing Types:

The Contractor shall provide the necessary types of drawings that will satisfy the sophistication of the specified drawing level. Drawing types selected shall be in accordance with ASME Y14.24. Type selection shall be subject to the approval of both the DND Technical Authority and DSCO 4-3-2.

### 5.3 Parts Lists:

Parts lists shall be prepared integral with the drawings. On multi-sheet drawings, the parts list shall be placed on sheet number one (1).

### 5.4 Control Drawings:

Control Drawings as defined in ASME Y14.24 shall be prepared for commercial items approved for use in the design, which are not defined by Government or nationally recognized industrial specifications and standards.

### 5.5 Family-Tree Drawing(s):

The Contractor shall prepare a Family-Tree Drawing(s) of the complete configuration of the Engineering Drawing Package and it shall be subject to the approval of both the DND Technical Authority and DSCO 4-3-2.

### 5.6 Units of Measure:

The DND Technical Authority will determine the units of measure (metric or Imperial). Metric drawings shall comply with Z234.1-00 Canadian Metric Practices Guide.

## 6. Integration

The Contractor shall be fully responsible for the integration of the new and existing drawings to form a complete Engineering Drawing Package.

## 7. Quality Assurance Provisions

The Quality of the Engineering Drawings and Associated Lists delivered under this Contract is the responsibility of the Contractor and subject to TA approval.

### 7.1 Acceptance:

Acceptance of the Engineering Drawings, Associated Lists and Reference Documents for technical content requirements is the responsibility of the DND Technical Authority. Acceptance of the Engineering Drawings, Associated Lists, Reference Documents and Electronic Data Deliverables for format requirements is the responsibility of DSCO 4-3-2.



### 7.1.1 Interim Deliverables for Acceptance Purposes:

Two (2) complete, full-size, print copy sets of the Engineering Drawings, Associated Lists and Reference Data shall be delivered in hard copy form for acceptance purposes (reduced size" print copies may be acceptable provided that they are legible). If the package cannot be accepted, for reasons of either technical content or format, it may be necessary to resubmit the print copy sets.

#### 7.1.1.1 Level 1 - Design Concept:

The Level 1 Engineering Drawings, Associated Lists and Reference Documents shall be forwarded to the Technical Authority upon completion.

#### 7.1.1.2 Level 2 - Prototype / Limited Production:

Following acceptance of the Level 1 Engineering Drawings, Associated Lists and Reference Documents, the Level 2 Engineering Drawings, Associated Lists and Reference Documents shall be forwarded to DSCO 4-3-2.

### 8. Final Deliverables

Upon acceptance, the Level 2 Engineering Drawings, Associated Lists and Reference Data shall be delivered in soft copy form as outlined Para 11, Mail Delivery.

#### 8.1 Soft Copy Deliverables:

Soft copy deliverables shall include the Engineering Drawings, Associated Lists, Reference Data and the associated Meta data in electronic form.

##### 8.1.1 Engineering Drawings:

Engineering Drawings shall be delivered as Raster files as detailed herein in Paragraph 9. Multi-sheet drawings shall be delivered one (1) sheet per file.

##### 8.1.2 Associated Lists:

Associated Lists must be delivered as a PDF file (300 DPI) or in a format acceptable by DSCO 4-3-2.

### 8.1.3 Reference Documents:

Reference Documents must be delivered as a PDF file (300 DPI) or in a format acceptable by DSCO 4-3-2.

### 8.1.4 TDAN:

The TDAN shall be delivered in the native MSWord file and a PDF file (300 DPI). Alternate file formats may be acceptable provided they have been discussed and approved in writing by DSCO 4-3-2. NOTE: One (1) hard copy of the TDAN complete with contractor's signatures shall be provided with the final deliverables.

### 8.1.5 Metadata (Capture of Related Information):

Metadata (the data that describes data objects) shall be provided for all Engineering Drawings, Associated Lists and Reference Data deliverables. Meta data records shall contain the information in the order shown in Table 1. Metadata shall be delivered as a Microsoft Access 2003 database shown at Figure 1.

#### 8.1.5.1 Database Table:

Each delivered image shall must have a corresponding database record. All records shall must be entered into a single Microsoft Access 2003 database table. Fields without corresponding information shall remain blank. The Microsoft Access 2003 database file shall be named "metadata.mdb".

### 8.1.6 File Formats for Raster Data:

Raster data shall be Tagged Image File Format in accordance with Adobe Systems Inc. specification "TIFF Revision 6", compressed to CCITT Group 4. Files shall be UNTILED and be wholly raster (hybrid files shall not be delivered).

#### 8.1.6.1 Pel Density:

Raster image pixel element (Pel) density shall be 200 dpi.

#### 8.1.6.2 Position of Pels:

Position of Pels shall be as follows:

- i) Portrait Data: line progression 270 degrees, Pel path 0 degrees.
- ii) Landscape Data: line progression 270 degrees, Pel path 0 degrees.

#### 8.1.6.3 Image Sizes:

Image sizes as outlined in Table 2 are provided as a guide and sizes may vary slightly, but no more than plus or minus one inch (25 mm) in either width or length.

#### 8.1.6.4 Cropping:

Images shall be cropped such that the engineering drawing is free from extraneous information. For example, drawing formats having an inside and an outside border shall be cropped closely to the outside of the outside border. Drawing formats having only one border, where zone or quadrant identification is outside of that border shall be cropped such that the zone information is retained.

#### 8.1.6.5 Skew Correction:

In general, skew correction is not required. If the Contractor deems it necessary, correction shall be done to 0 degrees and 90 degrees.

#### 8.1.6.6 Despeckling:

If any despeckling is required, the Contractor shall ensure that data integrity is not compromised by this operation.

#### 8.1.6.7 Image Foreground /Background:

Images shall be black on white background.

#### 8.1.6.8 File Names/Batch Number Allocation:

File names and a batch number shall be requested in writing from DSCO 4-3-2. Quantity of file names required shall be specified at the time of the request.

### 8.1.7 Media of Delivery:

The media form for final delivery of electronic data shall be CD-ROM, written in accordance with ISO 9660. (File compression software shall not be used.) Each CD-ROM and its case shall be labeled or marked in a method of the contractor's choosing. Each label or marking shall display the Batch Number, Contract / Task number, TDAN number and the date the CD-ROM was created.

### 9. Packaging/Marking/Loss/Damage

Reproducible and non-reproducible data shall be preserved packaged and marked in accordance with CF Standard D LM 008-022/SG 000. Exterior shipping containers shall be marked with the Contract and TDAN number and in the event of loss or damage while in shipment, the responsibility for replacement shall be that of the primary Contractor and shall be at the primary Contractor's expense.

### 10. Mail Delivery

DSCO 4-3-2 deliverables shall be forwarded to:

Department of National Defence  
National Defence Headquarters  
MGen George R. Pearkes Building  
Ottawa Ontario  
K1A 0K2

Attention: DSCO 4-3-2, 1 LSTL NQ 09

### 11. Inquiries, Visits or Courier Deliveries

DSCO 4-3-2 will be contacted at (819) 994-9352,  
Fax (819) 997-0302.

The address is:

Department of National Defence  
Louis St. Laurent Building  
555 boulevard de la Carriere,  
Gatineau (Hull Sector), Gatineau, Québec  
J8Y 6R5  
Attention: DSCO 4-3-2

**TABLE 1 INDEX FIELDS**

Order	Field Name	Max Field Length	Field Definition / Description	Example Entry
1	<b>FILENAME</b> (all one word)	12 (8.3)	Name of electronic file - unique filename for uploading in database. File names will be issued by DSCO 4-3-2. Alpha characters shall be uppercase.	<b>LZ000235.TIF</b>
2	<b>BATCHNO</b> (all one word)	8	Batch number - used for uploading files in database. Batch number will be assigned with filenames. Alpha characters shall be uppercase.	<b>LZ001</b>
3	<b>DOCUMENTNO</b> (all one word)	25	This field shall contain the document number.	<b>9775458</b>
4	<b>REVISION</b>	3	Letter or number indicating the revision level. If there is no rev, indicate with dash ("-")	<b>B</b>
5	<b>SHEET NO.</b> (all one word)	3	Sheet number x of y. Enter the value of x.	<b>1</b>
6	<b>NO. OF SHEETS</b> (all one word)	3	Sheet number x of y. Enter the value of y.	<b>1</b>
7	<b>FRAME NO.</b> (all one word)	3	Frame number x of y. Enter the value of x. (This field is applicable only when capturing data from aperture cards.) When field is not applicable, leave blank.	
8	<b>NO. OF FRAMES</b> (all one word)	3	Frame number x of y. Enter the value of y. (This field is applicable only when capturing data from aperture cards.) When field is not applicable, leave blank.	
9	<b>NSCM</b>	5	This field shall contain the NATO Supply Code for Manufacturers (NSCM) of the Owner of the data. (Also known as FSCM, CAGE or NCAGE code.)	<b>35907</b>
10	<b>SIZE</b>	2	This field contains the document size. -For imperial sizes use A, B, C, D, E, F, G, H, J, K and LE (for legal) -For metric sizes use A4, A3, A2, A1, A0 and B1.	<b>A2</b>
11	<b>ADDITIONAL IDENTIFIER</b> (all one word)	10	This open field shall be used when two (2) or more documents have the same document number but are different documents. e.g. Document 12345, Document 12345 DCR 001, then "DCR 001" would be entered in this field. When field is not applicable, leave blank.	<b>DCR 001</b>

12	<b>DATARIGHTS</b> (all one word)	1	The data rights as specified in the contract. "L" for "LIMITED" or "U" for "UNLIMITED"	<b>U</b>
13	<b>DOCUMENT TITLE</b> (all one word)	240	Title of document. (i.e. Drawing title)	<b>BRACKET ASSY</b>
14	<b>TDAN NO.</b> (all one word)	12	This field shall be used to enter the TDAN number assigned for the project.	<b>124471164</b>
15	<b>ERN</b>	12	This field shall be used for the Equipment Registration Number. Information shall be provided if required, otherwise the field shall be left blank.	
16	<b>EAC</b>	8	This field shall be used for the Equipment Application Code. Information shall be provided if required, otherwise the field shall be left blank.	
17	<b>EQUIPMENT</b>	75	Name of the Equipment. Information shall be provided if required, otherwise the field shall be left blank.	
18	<b>CTAT</b>	1	If the data is "Controlled Goods", DM Code "D" shall be entered, otherwise the field shall be left blank	<b>D</b>
19	<b>PROJECTNAME</b>	30	This field shall be used for "Controlled Goods" data and will be filled in by DSCO 4-6. This field shall be left blank.	

**TABLE 2 DRAWING SIZES**

<b>METRIC DRAWING SIZES</b>			
<b>Drawing Size</b>	<b>W x L (max) (mm)</b>	<b>Pels Per Line</b>	<b>Number of Lines</b>
A4	210 X 297	1656	2344
A3	297 X 420	2344	3312
A2	420 X 594	3312	4680
A1	594 X 841	4680	6624
A0	841 X 1189	6624	9368
B1	707 X 1000	5567	7875
<b>NORTH AMERICAN / IMPERIAL DRAWING SIZES</b>			
<b>Drawing Size</b>	<b>W x L (max) (inches)</b>	<b>Pels Per Line</b>	<b>Number of Lines</b>
A	8.5 x 11	1704	2200
B	11 x 17	2200	3400
C	17 x 22	3400	4400
D	22 x 34	4400	6800
E	34 x 44	6800	8800
F	28 x 40	5600	8000
G	11 x 90	2200	18000
H	28 x 143	5600	28600
J	34 x 176	6800	35200
K	40 x 143	8000	28600
Legal	8.5 x 14	1704	2800

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Buyer ID - Id de l'acheteur

hn323

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

File No. - N° du dossier

CCC No./N° CCC - FMS No/ N° VME

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**Sample record entries (Metadata) in database table:**

(The following table is shown on three lines to suit page width.)

FILENAME	BATCHNO	DOCUMENTNO	REVISION	SHEETNO	TOTALSHEETS	RAMENC	TOTALFRAMES
Z000235.TIF	LZ001	9775458	B	1	1	1	1
Z000236.TIF	LZ001	9775457	-	1	1		

NSC M	SIZE	ADDITIONALIDENTIFIER	DATARIGHTS	DOCUMENTTITLE	TDANNO	ERN	EAC	EQUIPMENT
35097	A2	DCR 001	U	BRACKET ASSY	124471164			
35097	A1		U	BRACKET	124471164			

CTAT	PROJECTNAME
D	
D	

FIGURE 1 Sample Metadata Records



Solicitation No. - N° de l'invitation  
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hn323W8476-134240

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**ANNEX B**  
**BASIS OF PAYMENT**  
**FIELD POWER DISTRIBUTION SYSTEM (FPDS)**

Item	Description	Proposed part numbers	Destination consignee code	Invoice consignee code	Unit of Issue	Qty	Firm Unit/Lot prices	Delivery Offered # of days	Suggested Delivery Schedule
<b>Deleverable Items</b>									
001	FPDS for 5kw Generator as per SOW Annex A, clause 4.1.1 First Production Unit	_____	WB941	W8476	EA	1	\$ _____	_____ days	60 days
002	FPDS for 10kw Generator as per SOW Annex A, clause 4.1.1 First Production Unit	_____	WB941	W8476	EA	1	\$ _____	_____ days	60 days
003	FPDS for 5kw Generator as per SOW Annex A, clause 4.1.2 Production	_____	WB941	W8476	EA	382	\$ _____	_____ days	300 days
004	FPDS for 5kw Generator as per SOW Annex A, clause 4.1.2 Production	_____	W248A	W8476	EA	205	\$ _____	_____ days	300 days
005	FPDS for 10kw Generator as per SOW Annex A, clause 4.1.2 Production	_____	WB941	W8476	EA	133	\$ _____	_____ days	300 days

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hn323

File No. - N° du dossier  
hn323W8476-134240

Buyer ID - Id de l'acheteur  
hn323

CCC No./N° CCC - FMS No/ N° VME

Item	Description	Proposed part numbers	Destination consignee code	Invoice consignee code	Unit of Issue	Qty	Firm Unit/Lot price	Delivery Offered # of days	Suggested Delivery Schedule
006	FPDS for 10kw Generator as per SOW Annex A, clause 4.1.2 Production	_____	W248A	W8476	EA	72	\$ _____	_____ days	300 days
007	FPDS for 5kw Generator as per SOW Annex A, clause 4.1.2 Production	_____	FCA Free Carrier Contractor's facility	W8476	EA	115	\$ _____	_____ days	Optional
008	FPDS for 10kw Generator as per SOW Annex A, clause 4.1.2 Production Optional Quantity	_____	FCA Free Carrier Contractor's facility	W8476	EA	41	\$ _____	_____ days	Optional
<b>Deliverable Documentation</b>									
009	Manuals as per SOW Annex A, clause 4.2.1	_____	W8476	W8476	LOT	1	\$ _____	_____ days	60 days
010	Technical Data Package as per SOW, Annex A, clause 4.2.2	_____	W8476	W8476	LOT	1	\$ _____	_____ days	120 days
011	Integrated Logistics Support as per SOW Annex "A", clause 4.2.3	_____	W8476	W8476	LOT	1	N/A	_____ days	60 days

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W8476-134240/A  
Client Ref. No. - N° de réf. du client  
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Amd. No. - N° de la modif.  
hn323  
File No. - N° du dossier  
hn323W8476-134240

Buyer ID - Id de l'acheteur  
hn323  
CCC No./N° CCC - FMS No/ N° VME

Item	Description	Proposed part numbers	Destination consignee code	Invoice consignee code	Unit of Issue	Qty	Firm Unit/Lot prices	Delivery Offered # of days	Suggested Delivery Schedule
012	Test Reports as per SOW Annex "A", clause 4.2.4	_____	W8476	W8476	LOT	1	\$ _____	_____ days	60 days
013	Quality Assurance Plan as per SOW Annex "A", clause 4.2.5	_____	W8476	W8476	LOT	1	\$ _____	_____ days	30 days
014	Environmental Health and safety Assessment as per SOW Annex "A", clause 4.2.6	_____	W8476	W8476	LOT	1	\$ _____	_____ days	30 days
015	Disposal/Decommissioning Instruction as per SOW Annex "A", clause 4.2.7	_____	W8476	W8476	LOT	1	\$ _____	_____ days	30 days

**Destination**  
**Consignee Code**  
WB941

25 CFSD Receipts Section  
CFB Montreal  
6363 Notre Dame Est  
Montreal, Quebec, Canada  
H1N 3V9

**Destination**  
**Consignee Code**  
W248A

7 CF Supply Depot Lancaster Park  
Building 236, East End  
195 Avenue, 82nd street  
Edmonton, Alberta  
T5J 4J5

**Destination**  
**Consignee Code**  
W8476

Department of National Defence  
DGLEPM capital  
101 Colonel By Drive  
Ottawa, Ontario, Canada  
K1A 0K2

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File No. - N° du dossier

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## **Annex C**

### **Compliance Matrix Sample Format**

This matrix must list all Statement of Work (SOW) clauses in the same sequence as they appear in Annex A, excluding Paragraph 4 - Deliverables, and as required by clause 1.1.1 of Part 4 herein.

Document #: \_\_\_\_\_

Paragraph	Title/Topic	Compliance Status	Comments/Precise Reference