

**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

Title - Sujet UHF TRANSCEIVERS	
Solicitation No. - N° de l'invitation W8472-135485/A	Date 2014-01-31
Client Reference No. - N° de référence du client W8472-135485	
GETS Reference No. - N° de référence de SEAG PW-\$\$QF-106-24283	
File No. - N° de dossier 106qf.W8472-135485	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-03-05	Time Zone Fuseau horaire Eastern Standard Time EST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Mastantuono, Ricardo	Buyer Id - Id de l'acheteur 106qf
Telephone No. - N° de téléphone (819) 956-5771 ()	FAX No. - N° de FAX (819) 956-5650
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE MGEN GEORGES R PEARKES BLDG 101 COLONEL BY DR. OTTAWA Ontario K1A0K2 Canada	

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

Electronics, Simulators and Defence Systems Div. /Division
des systèmes électroniques et des systèmes de simulation et
de défense

11 Laurier St. / 11, rue Laurier

8C2, Place du Portage

Gatineau

Québec

K1A 0S5

Delivery Required - Livraison exigée See Herein	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

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- Annex F Federal Contractors Program for Employment Equity - Certification
- Annex G Mandatory Technical Evaluation Criteria ***[Note: Annex G will be deleted after Contract Awarded.]***

PART 1 - GENERAL INFORMATION

1. Introduction

The bid solicitation is divided into seven parts plus attachments and annexes, as follows:

Part 1 General Information: provides a general description of the requirement;

Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;

Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;

Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;

Part 5 Certifications: includes the certifications to be provided;

Part 6 Security, Financial and Other Requirements: includes specific requirements that must be addressed by bidders; and

Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting Contract.

2. Summary

- (i) The Department of National Defence (DND) requires the services of a Contractor to supply the required UHF communication transceivers and related manuals/firmware/software/licenses/tools/training and instructions for installation and operation, and maintain a capability to provide the goods: *Spare Parts as listed in Annex C, Appendix 3.*

The work related to Spare Parts will be done on an "as and when requested" basis and shall be authorized in accordance with the Task Authorization Procedures as outlined in Annex D.

- (ii) Term of Contract:

Delivery Date

All UHF Radio Transceivers must be received no later than 270 calendar days after Contract Award. Please refer to Appendix 1 to Appendix C for more information.

Period of Contract (for Spare Parts support)

The Contract is for a two (2) year period commencing on the date of Contract Award.

- (iii) There is a security requirement associated with this requirement. For additional information, consult Part 6 - Security, Financial and Other Requirements, and Part 7 - Resulting Contract Clauses. Bidders should consult the "Security Requirements for PWGSC Bid Solicitations - Instructions for Bidders" (<http://www.tpsgc-pwgsc.gc.ca/app-acq/lc-pl/lc-pl-eng.html#a31>) document on the Departmental Standard Procurement Documents Web site.
- (iv) Bidders must provide a list of names, or other related information as needed, pursuant to section 01 of Standard Instructions 2003.
- (iv) The requirement is subject to the provisions of the Agreement on Internal Trade (AIT).
- (v) The requirement is subject to a preference for Canadian goods and/or services.
- (vi) This procurement is subject to the Controlled Goods Program.
- (vii) There is a Federal Contractors Program (FCP) for employment equity requirement associated with this procurement; see Part 5 - Certifications, Part 7 - Resulting Contract Clauses and the annex named Federal Contractors Program for Employment Equity - Certification (Annex F).

3. Debriefings

After contract award, bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

4. Condition of Material - Department of National Defence

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Material - New Production of Current Manufacture

If the material is new production of current manufacture supplied by the principal manufacturer or its accredited agent, it must conform to the latest issue of the applicable drawing, specification and part number, as applicable, that is in effect on the bid closing date.

Name of manufacturer: _____

Date of manufacturer: _____

Cure date if the item contains elastomeric material: _____.

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 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements**, are incorporated by reference into and form part of the bid solicitation, and are further amended as follows:

Submission of Bids (Bid Validity Period)

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days

Insert: one hundred and twenty (120) days

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 to PWGSC will not be accepted.

3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) 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.

5. Applicable Laws

Any resulting Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in the **province of 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.

6. Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Statement of Work 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 favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least five (5) days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

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

Section I: Technical Bid (4 hard copies, with 1 marked "Master")

Section II: Financial Bid (2 hard copies, with 1 marked "Master")

Section III: Certifications (2 hard copies, with 1 marked "Master")

Prices must appear in the financial bid 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 should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and 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 should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

In their technical bid, Bidders must also describe their capability and experience, the project management team and provide client contact(s).

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

Quality Plan - Solicitation

The Bidder must submit a Quality Plan with the bid. The Quality Plan must be in the same format that will be used after award of contract.

The Quality Plan may reference other documents. Where referenced documents do not already exist, but are required by the Quality Plan, the plan must identify them and also identify when, how and by whom they will be prepared and approved. The documents referenced in the Quality Plan must be made available when requested by Public Works and Government Services Canada or the Department of National Defence.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with Annex C, Price and Delivery, as follows **[Note: Any changes to this Annex will not be accepted and will render the bid non-responsive.]**:

- For Appendix 1, the Bidder must provide Firm Unit/Lot Prices (whichever is applicable) for the Equipment, Data Deliverables and Delivery of Training;
- Prices shall be quoted in the currency of the Bidder's choice;
- The total amount of GST/QST/HST must be shown separately, if applicable; and
- Exchange Rate Fluctuation

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The requirement does not provide for exchange rate fluctuation protection. Any request for exchange rate fluctuation protection will not be considered and will render the bid non-responsive.

Section III: Certifications

Bidders must submit the Certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.
- (c) The evaluation team will determine first if there are three (3) or more bids with a valid Canadian Content certification. In that event, the evaluation process will be limited to the bids with the certification; otherwise, all bids will be evaluated. If some of the bids with a valid certification are declared non-responsive, or are withdrawn, and less than three responsive bids with a valid certification remain, the evaluation will continue among those bids with a valid certification. If all bids with a valid certification are subsequently declared non-responsive, or are withdrawn, then all the other bids received will be evaluated.

1.1 Technical Evaluation

Mandatory Technical Evaluation Criteria are included in Annex G. **[Note: Annex G will be after Contract Awarded.]**

1.2 Financial Evaluation

Evaluation of Price

The price of the bid, including options (if applicable), will be evaluated in Canadian dollars, Goods and Services Tax or the Harmonized Sales Tax is excluded. For evaluation purposes, Canada shall convert bids made in foreign (non-Canadian) currency using the noon rate posted by the Bank of Canada in effect on the bid closing date.

2. Basis of Selection - Mandatory Technical Evaluation Criteria

1. To be declared responsive, a bid must:
 - A. comply with all the requirements of the bid solicitation; and
 - B. meet all Mandatory Technical Evaluation Criteria (as found in Annex G).

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2. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications to be awarded a Contract.

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default, if any certification made by the Bidder is found to be untrue whether during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with this request will also render the bid non-responsive or will constitute a default under the Contract.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

Signature of Bidder's Authorized Representative

Name of Bidder's Authorized Representative

Date

1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from Human Resources and Skills Development Canada (HRSDC) - Labour's website

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid " list at the time of contract award.

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list during the period of the Contract.

The Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

Signature of Bidder's Authorized Representative

Name of Bidder's Authorized Representative

Date

2. Additional Certifications Required with the Bid

2.1 Canadian Content

2.1.1 Definition

1. Canadian good: A good wholly manufactured or originating in Canada is considered a Canadian good. A product containing imported components may also be considered Canadian for the purpose of this policy when it has undergone sufficient change in Canada, in a manner that satisfies the definition specified under the North American Free Trade Agreement (NAFTA) Rules of Origin. For the purposes of this determination, the reference in the NAFTA Rules of Origin to "territory", is to be replaced with "Canada". (Consult Annex 3.6(9) of the Supply Manual.)

For photocopiers, computers and office equipment within Federal Supply Classification (FSC) groups 36, 70 and 74, see paragraph 6.(a)).

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2. Canadian service: A service provided by an individual based in Canada is considered a Canadian service. Where a requirement consists of only one service, which is being provided by more than one individual, the service will be considered Canadian if a minimum of 80 percent of the total bid price for the service is provided by individuals based in Canada.
 3. Variety of goods: When requirements consist of more than one good, one of the two methods below is applied:
 - A. aggregate evaluation: no less than 80 percent of the total bid price must consist of Canadian goods; or,
 - B. item by item evaluation: in some cases, the bid evaluation may be conducted on an item-by-item basis and contracts may be awarded to more than one supplier. In these cases, suppliers will be asked to identify separately each item that meets the definition of Canadian goods.
 4. Variety of services: For requirements consisting of more than one service, a minimum of 80 percent of the total bid price must be provided by individuals based in Canada.
 5. Mix of goods and services: When requirements consist of a mix of goods and services, no less than 80 percent of the total bid price must consist of Canadian goods and services (as defined above).
For more information on how to determine the Canadian content for a mix of goods, a mix of services or a mix of goods and services, consult Annex 3.6.(9), Example 2, of the Supply Manual.
 6. Other Canadian goods and services:
 - A. For photocopiers, computers and office equipment within FSC groups 36, 70 and 74, only the products of the following firms are considered Canadian goods:
 - I. MERIT Partner under the MERIT Partnership Program (administered by Industry Canada [IC] and Public Works and Government Services Canada [PWGSC]);
 - II. Companies which, on March 31, 1992, were allocated to Priority Group 1 under the Priority Groups Policy in effect at that time; or
 - III. CIRCLE Canada companies as agreed on by IC and PWGSC.
 - B. Textiles: Textiles are considered to be Canadian goods according to a modified rule of origin, copies of which are available from the Clothing and Textiles Division, Commercial and Consumer Products Directorate.

2.1.2 Certification

This procurement is limited to Canadian goods.

The Bidder certifies that:

() the good(s) offered are Canadian goods as defined in paragraph 2.1.1.1 above.

Signature of Bidder's Authorized Representative

Name of Bidder's Authorized Representative

Date

2.2 Price Certification (applicable to the Procurement of Spare Parts)

2.2.1 Canadian-based Suppliers (other than agency and resale outlets)

The Bidder certifies that the price proposed:

- A. is not in excess of the lowest price charged anyone else, including the Bidder's most favoured customer, for the like quality and quantity of the goods, services or both;
- B. does not include an element of profit on the sale in excess of that normally obtained by the Bidder on the sale of goods, services or both of like quality and quantity, and
- C. does not include any provision for discounts to selling agents.

Signature of Bidder's Authorized Representative

Name of Bidder's Authorized Representative

Date

2.2.2 Foreign Suppliers

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The Bidder certifies that the price proposed is not in excess of the lowest price charged anyone else, including the Bidder's most favoured customer, for the like quality and quantity of the goods, services or both.

Signature of Bidder's Authorized Representative

Name of Bidder's Authorized Representative

Date

PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

1. Security Requirement

1. Before award of a Contract, the following conditions must be met:
 - (a) the Bidder must hold a valid organization security clearance as indicated in Part 7, Resulting Contract Clauses;
 - (b) the Bidder's proposed individuals requiring access to classified or protected information, assets or sensitive work site(s) must meet the security requirement as indicated in Part 7, Resulting Contract Clauses;
 - (c) the Bidder must provide the name of all individuals who will require access to classified or protected information, assets or sensitive work sites.
2. Bidders are reminded to obtain the required security clearance promptly. Any delay in the award of a Contract to allow the successful bidder to obtain the required clearance will be at the entire discretion of the Contracting Authority.
3. For additional information on security requirements, bidders should consult the "Security Requirements for PWGSC Bid Solicitations - Instructions for Bidders" (<http://www.tpsgc-pwgsc.gc.ca/app-acq/lc-pl/lc-pl-eng.html#a31>) document on the Departmental Standard Procurement Documents Web site.

2. Financial Capability

1. Financial Capability Requirement: The Bidder must have the financial capability to fulfill this requirement. To determine the Bidder's financial capability, the Contracting Authority may, by written notice to the Bidder, require the submission of some or all of the financial information detailed below during the evaluation of bids. The Bidder must provide the following information to the Contracting Authority within fifteen (15) working days of the request or as specified by the Contracting Authority in the notice:
 - A. Audited financial statements, if available, or the unaudited financial statements (prepared by the Bidder's outside accounting firm, if available, or prepared in-house if no external statements have been prepared) for the Bidder's last three fiscal years, or for the years that the Bidder has been in business if this is less than three years (including, as a minimum, the Balance Sheet, the Statement of Retained Earnings, the Income Statement and any notes to the statements).

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- B. If the date of the financial statements in (a) above is more than five months before the date of the request for information by the Contracting Authority, the Bidder must also provide, unless this is prohibited by legislation for public companies, the last quarterly financial statements (consisting of a Balance Sheet and a year-to-date Income Statement), as of two months before the date on which the Contracting Authority requests this information.
- C. The Bidder has not been in business for at least one full fiscal year, the following must be provided:
- i. opening Balance Sheet on commencement of business (in the case of a corporation, the date of incorporation); and
 - ii. the last quarterly financial statements (consisting of a Balance Sheet and a year-to-date Income Statement) as of two months before the date on which the Contracting Authority requests this information.
- D. A certification from the Chief Financial Officer or an authorized signing officer of the Bidder that the financial information provided is complete and accurate.
- E. A confirmation letter from all of the financial institution(s) that have provided short-term financing to the Bidder outlining the total of lines of credit granted to the Bidder and the amount of credit that remains available and not drawn upon as of one month prior to the date on which the Contracting Authority requests this information.
- F. A detailed monthly Cash Flow Statement covering all the Bidder's activities (including the requirement) for the first two years of the requirement that is the subject of the bid solicitation, unless this is prohibited by legislation. This statement must detail the Bidder's major sources and amounts of cash and the major items of cash expenditures on a monthly basis, for all the Bidder's activities. All assumptions made should be explained as well as details of how cash shortfalls will be financed.
- G. A detailed monthly Project Cash Flow Statement covering the first two years of the requirement that is the subject of the bid solicitation, unless this is prohibited by legislation. This statement must detail the Bidder's major sources and amounts of cash and the major items of cash expenditures, for the requirement, on a monthly basis. All assumptions made should be explained as well as details of how cash shortfalls will be financed.
2. If the Bidder is a joint venture, the financial information required by the Contracting Authority must be provided by each member of the joint venture.

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3. If the Bidder is a subsidiary of another company, then any financial information in 1. (a) to (f) above required by the Contracting Authority must be provided by the ultimate parent company. Provision of parent company financial information does not satisfy the requirement for the provision of the financial information of the Bidder, and the financial capability of a parent cannot be substituted for the financial capability of the Bidder itself unless an agreement by the parent company to sign a Parental Guarantee, as drawn up by Public Works and Government Services Canada (PWGSC), is provided with the required information.
4. Financial Information Already Provided to PWGSC: The Bidder is not required to resubmit any financial information requested by the Contracting Authority that is already on file at PWGSC with the Contract Cost Analysis, Audit and Policy Directorate of the Policy, Risk, Integrity and Strategic Management Sector, provided that within the above-noted time frame:
- i. the Bidder identifies to the Contracting Authority in writing the specific information that is on file and the requirement for which this information was provided; and
 - ii. the Bidder authorizes the use of the information for this requirement.
- It is the Bidder's responsibility to confirm with the Contracting Authority that this information is still on file with PWGSC.
5. Other Information: Canada reserves the right to request from the Bidder any other information that Canada requires to conduct a complete financial capability assessment of the Bidder.
6. Confidentiality: If the Bidder provides the information required above to Canada in confidence while indicating that the disclosed information is confidential, then Canada will treat the information in a confidential manner as permitted by the Access to Information Act, R.S., 1985, c. A-1, Section 20(1) (b) and (c).
7. Security: In determining the Bidder's financial capability to fulfill this requirement, Canada may consider any security the Bidder is capable of providing, at the Bidder's sole expense (for example, an irrevocable letter of credit from a registered financial institution drawn in favour of Canada, a performance guarantee from a third party or some other form of security, as determined by Canada).

3. Controlled Goods Requirement

1. As the resulting Contract will require the production of or access to controlled goods that are subject to the Defence Production Act, R.S. 1985, c. D-1, bidders are advised that within Canada only persons who are registered, exempt or excluded under the Controlled Goods Program (CGP) are lawfully entitled to examine, possess or transfer controlled goods. Details on how to register under the CGP are available at: Controlled Goods Program and registration is carried out as follows:
 - A. When the bid solicitation includes controlled goods information or technology, the Bidder must be registered, exempt or excluded under the CGP before receiving the bid solicitation. Requests for technical data packages or specifications related to controlled goods should be made in writing to the Contracting Authority identified in the bid solicitation and must contain the CGP registration number or written proof of exemption or exclusion of the Bidder and of any other person to whom the Bidder will give access to the controlled goods.
 - B. When the bid solicitation does not include controlled goods information or technology but the resulting Contract requires the production of or access to controlled goods, the successful Bidder and any subcontractor who will be producing or accessing controlled goods must be registered, exempt or excluded under the CGP before examining, possessing or transferring controlled goods.
 - C. When the successful Bidder and any subcontractor proposed to examine, possess or transfer controlled goods are not registered, exempt or excluded under the CGP at time of Contract Award, the successful Bidder and any subcontractor must, within seven (7) working days from receipt of written notification of Contract Award, ensure that the required application(s) for registration or exemption are submitted to the CGP. No examination, possession or transfer of controlled goods must be performed until the successful Bidder has provided proof, satisfactory to the Contracting Authority, that the successful Bidder and any subcontractor are registered, exempt, or excluded under the CGP.

Failure to provide proof, satisfactory to the Contracting Authority, that the successful Bidder and any subcontractor are registered, exempt or excluded under the CGP, within thirty (30) days from receipt of written notification of Contract Award, will be considered a default under the resulting Contract except to the extent that Canada is responsible for the failure due to delay in processing the application.

Solicitation No. - N° de l'invitation

W8472-135485/A

Amd. No. - N° de la modif.

File No. - N° du dossier

106qfW8472-135485

Buyer ID - Id de l'acheteur

106qf

CCC No./N° CCC - FMS No/ N° VME

W8472-135485

2. Bidders are advised that all information on the Application for Registration (or exemption) Form will be verified and errors or inaccuracies may cause significant delays and/or result in denial of registration or exemption.

PART 7 - RESULTING CONTRACT CLAUSES

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

1. Requirement

The Contractor must perform the Work in accordance with the SOW (Annex B) and its related Appendices and in accordance with the terms and conditions of the Contract.

The work to be performed under this Contract can be summarized as follows:

The Department of National Defence (DND) requires the services of a Contractor to supply the required UHF communication transceivers and related manuals/firmware/software/licenses/tools/training and instructions for installation and operation, and maintain a capability to provide the following goods: *Spare Parts as listed in Annex C, Appendix 3.*

The work related Spare Parts will be done on an "as and when requested" basis and shall be authorized in accordance with the Task Authorization Procedures as outlined in Annex D.

1.2 Additional Work Requirements (AWRs)

Additional Work Requirements is Work that is included within the current Contract requirements. Such work will be authorized as a Task Authorization.

Task Authorizations: "As and when required requested" and in accordance with the SOW and its related Appendices, the Contractor will be required to initiate and perform tasks based on specified requirements to be defined throughout the duration of the Contract. The Contractor will be authorized in accordance with Annex D, Task Authorization Procedures, and the tasks will be priced in accordance with Article 1.4, Pricing of Changes, if applicable. The Contractor must not proceed with the work until it has received a duly signed and authorized Task Authorization. The Contractor shall perform and manage the Task Authorizations in accordance with the process described at Annex D, Task Authorization Procedures.

1.3 Changes in the Work

1. The Contracting Authority may, by notice, from time to time, request changes (additions, deletions, substitutions) in the Work, if the change is deemed by Canada to be within the general scope of the Contract. Upon receipt of such notice, the Contractor must prepare a proposal, supported by the necessary documentation, as to: the resulting decrease or increase, if any, of the cost of the work which the proposed change will cause in accordance with Article 1.4.
2. Any adjustment to the Contract Price must be negotiated and agreed to by the Parties in accordance with Article 1.4, Pricing of Changes, of the Contract.
3. No one other than the Contracting Authority has the authority to approve any amendments or changes to this Contract. The Contractor must promptly report to the Contracting Authority any direction given by anyone other than the Contracting Authority that might result in any such amendments or change.

1.4 Pricing of Changes

1. For Pricing of Changes, the Contractor must provide a proposal with detailed cost breakdown in accordance with Annex C, Price and Delivery, for the period in which the Spare Parts are delivered (with supplier, sub-contractor quotations or other appropriate documentation accepted by Canada).
 - *For the Procurement of Spare Parts:* Proposed Laid Down Cost plus applicable markups, for the period in which the work is to be performed.

2. Standard Clauses and Conditions

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

2.1 General Conditions

2030 (2013-06-27), General Conditions - Goods (Higher Complexity), apply to and form part of the Contract.

The following shall be added as paragraph number 3 to clause **2030 24 (2008-05-12) Use and Translation of Written Material**:

3. Canada shall have the right to modify or update any written materials delivered. Canada, will own the copyright in any such modifications or updates.

2.2 Supplemental General Conditions

4001 (2013-01-28), Hardware Purchase, Lease and Maintenance, apply to and form part of the Contract.

The following shall be deleted from **4001 (2013-01-28), Hardware Purchase, Lease and Maintenance**: Parts 4 and 5.

The following shall be added as paragraph number 8 to clause **4001 07 (2008-05-12) Hardware Documentation**:

8. Canada shall have the right to modify or update the software or hardware documentation for internal use and to translate the modification or update, or have them translated by a person hired by Canada. Canada, will own the copyright in the modification, update or translation.

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

The following shall be added as paragraph number 5 to clause **4003 09 (2008-05-12) Software Documentation**:

5. Canada shall have the right to modify or update the software or hardware documentation for internal use and to translate the modification or update, or have them translated by a person hired by Canada. Canada, will own the copyright in the modification, update or translation.

3. Security Requirement

1. The Contractor must, at all times during the performance of the Contract, hold a valid Facility Security Clearance at the level of SECRET, issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).
2. The Contractor personnel requiring access to PROTECTED / CLASSIFIED information, assets or sensitive work site(s) must EACH hold a valid personnel security screening at the level of SECRET, granted or approved by CISD/PWGSC.

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3. The Contractor MUST NOT remove any PROTECTED/CLASSIFIED information from the identified work site(s), and the Contractor must ensure that its personnel are made aware of and comply with this restriction.
 4. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.
 5. The Contractor must comply with the provisions of the:
 - (a) Security Requirements Check List and security guide (if applicable), attached at Annex A; and
 - (b) Industrial Security Manual (Latest Edition).

4. Term of Contract

4.1 Delivery Date

All UHF Radio Transceivers must be received no later than 270 calendar days after Contract Award. Please refer to Appendix 1 to Appendix C for more information.

4.1.2 Optional Goods

The Contractor grants to Canada the irrevocable option to acquire the goods described in the Statement of Work, Annex B, and at Annex C, Appendix 1, Line Item # 5 (Optional UHF Transceivers) of the Contract under the same conditions and at the prices stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option within twenty-four (24) months after Contract Award by sending a written notice to the Contractor.

4.2 Period of Contract (for Spare Parts support)

The Contract is for a two (2) year period commencing on the date of Contract Award.

4.2.1 Option to Extend the Contract (for Spare Parts support)

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to two (2) additional one (1) year periods under the same conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor at least sixty (60) calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a Contract Amendment.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Ricardo Mastantuono

Supply Team Leader

PWGSC - Acquisitions Branch

Electronics, Munitions and Tactical
Systems Procurement Directorate

11 rue Laurier

Gatineau, QC., K1A 0S5

Tel.: 819-956-5771

Facs.: 819-956-5650

E-mail: Ricardo.Mastantuono@pwgsc-tpsgc.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.

5.2 Technical Authority

The Technical Authority for the Contract is:

TBD

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the 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.

5.3 Procurement (Requisition) Authority

The Procurement Authority for the Contract is:

TBD

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.

5.4 Contractor's Representative (*To be filled in by bidder in bid submission*)

Name and contact information of the person(s) responsible for the following:

General Inquiries:

Name: _____

Telephone: _____

Facsimile: _____

E-mail address: _____

Delivery Inquiries:

Name: _____

Telephone: _____

Facsimile: _____

E-mail address: _____

6. Payment

6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid as follows, Delivered Duty Paid (DDP - as per Consignee info. found in Annex C) Incoterms 2010, unless stated otherwise, and GST/QST/HST extra and shown separately, if applicable:

6.1.1 Equipment, Data Deliverables and Delivery of Training

Firm Unit/Lot Prices in accordance with Annex C, Appendix 1.

6.1.2 Procurement of Spare Parts

Firm Price Tasks authorized in accordance with Article 1.2, Additional Work Requirements, of the Contract, and priced in accordance with Article 1.4, Pricing of Changes, of the Contract.

6.2 Limitation of Expenditure (Cumulative total for all work)

1. The Contractor will be reimbursed for the costs reasonably and properly incurred in the performance of the Work, as determined in accordance with Article 6.1, Basis of Payment, of the Contract, **to a limitation of expenditure of \$ _____ [to be inserted at Contract Award]**, GST/QST/HST extra and shown separately, if applicable.
2. The Contractor must not perform any work or service(s) or supply any article(s) which would cause the total cost to Canada to exceed the said sums. The Contractor shall notify the Contracting Authority in writing as to the adequacy of this sum when:
 - A) it is 75 percent committed, or
 - B) four (4) months prior to the Contract expiry date, or
 - C) as soon as the Contractor considers that the Contract funds provided are adequate for the completion of the Work,whichever comes first.
3. If the notification is for inadequate Contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

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4. Included in the financial limitation indicated in Article 6.2(1) above, Canada's total liability to the Contractor for:
- Equipment, Data Deliverables and Delivery of Training **must not exceed \$ _____ [to be inserted at Contract Award];** and
 - Procurement of Spare Parts **must not exceed \$ _____ [to be inserted at Contract Award].**
5. No payments shall be made to the Contractor in excess of the amounts shown above unless the Contracting Authority has approved the changes in writing. No increase in the total liability of Canada or in the price of Work resulting from, but not limited to, design changes, modifications or interpretations of the Work, etc. made by the Contractor, will be authorized or paid to the Contractor unless such changes, modifications or interpretations have been approved, in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not be obliged to perform any Work or provide any service(s) without prior approval from the Contracting Authority.

6.3 Method of Payment

6.3.1 Equipment and Procurement of Spare Parts

Canada will pay the Contractor upon completion and delivery of the work in accordance with the payment provisions of the Contract if:

- A. an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- B. all such documents have been verified by Canada; and
- C. the Work delivered has been accepted by Canada.

6.3.2 Data Deliverables and Delivery of Training

Canada will pay the Contractor upon completion and delivery of the Work in accordance with the payment provisions of the Contract if:

- A. an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- B. all such documents have been verified by Canada; and
- C. the Work delivered has been accepted by Canada.

6.4 Taxes

6.4.1 Taxes - Foreign-based Contractor

Unless specified otherwise in the Contract, the price includes no amount for any federal excise tax, state or local sales or use tax, or any other tax of a similar nature, or any Canadian tax whatsoever. The price, however, includes all other taxes. If the Work is normally subject to federal excise tax, Canada will, upon request, provide the Contractor a certificate of exemption from such federal excise tax in the form prescribed by the federal regulations.

Canada will provide the Contractor evidence of export that may be requested by the tax authorities. If, as a result of Canada's failure to do so, the Contractor has to pay federal excise tax, Canada will reimburse the Contractor if the Contractor takes such steps as Canada may require to recover any payment made by the Contractor. The Contractor must refund to Canada any amount so recovered.

6.4.1.1 Duties and Taxes - Foreign-based Contractor - State of California

The Contractor must inform the Contracting Authority of all customs duties and of all sales, consumption, use, excise, personal property or any other taxes the Contractor proposes to pay or not to pay. The Contractor must carry out any instructions the Contracting Authority may give in respect of payment or non-payment of these taxes.

6.4.2 Customs Duties, Excise Taxes and Applicable Taxes - Non-resident

The Contractor is responsible for customs clearance of any tools, equipment or spare parts imported into Canada by its employees or a subcontractor and its employees for use in performing the Work under the Contract. The Contractor is responsible for any customs duties, excise taxes and Applicable Taxes, assessed by the customs officials and payable to the Canada Border Services Agency.

6.4.3 Customs Duties - Contractor Importer

1. As the goods to be supplied under the Contract are defence supplies, customs duties on importation to Canada may be remitted under the Tariff Item Number 9982.00.00 of the Schedule to the Customs Tariff.

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2. Remission of customs duties payable may be granted under the Tariff Item Number 9982.00.00 when the total contract value of the defence supplies is C\$250,000 or more. This reflects the import value of the goods plus the duty that would be applicable in the absence of the Customs Tariff.
 3. The Contractor will be responsible for prearranging remission on importation or for paying customs duties on importation and applying to Canada Border Services Agency for a refund. The Contractor is also responsible for applying to Public Works and Governments Services Canada in good time for the certification required by the Customs Tariff.

6.4.4 T1204 - Direct Request by Customer Department

1. Pursuant to paragraph 221 (1)(d) of the Income Tax Act, R.S. 1985, c. 1 (5th Supp.), payments made by departments and agencies to contractors under applicable services contracts (including contracts involving a mix of goods and services) must be reported on a T1204 Government Service Contract Payments slip.
2. To enable departments and agencies to comply with this requirement, the Contractor must provide Canada, upon request, its business number or Social Insurance Number, as applicable. (These requests may take the form of a general call-letter to contractors, in writing or by telephone).

6.5 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.

Each invoice must be supported, as applicable, by: a copy of the release document and any other documents as specified in the Contract.

2. Invoices must be distributed as follows:
 - A. The original and one (1) copy must be forwarded to the Requisition 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.
 - C. one (1) copy must be forwarded to the consignee.

6.6 Priority Rating

6.6.1 Canadian-based Contractor

1. The Contract concerns a Canadian defence requirement and therefore is eligible to be assigned a "U.S. Priority Rating" for any materials/services imported from the United States which may be required in the performance of the Work. Accordingly, the Contractor must:
 - (a) Make an application to the Defence Priorities and Allocations Officer, Public Works and Government Services Canada (PWGSC), either by e-mail at: ACQB Defence Priorities - DGA Priorités de défense (DGAPrioritesdedefense.ACQBDefencePriorities@pwgsc-tpsgc.gc.ca); or by facsimile: 819-956-1459; and
 - (b) Include this clause in subcontracts with Canadian-based contractors, and quote the PWGSC Contract Number indicated in the Contract.
2. Failure to comply with the above may impact on the Contractor's delivery commitments. Therefore, the Contractor is responsible for any breach of the Contract that arises from such a failure.

6.6.2 United-States Contractor

Canada is a participant in the United States Defense Priorities and Allocations System and this defence contract is eligible for a priority rating. The Defence Priorities and Allocations Officer, Public Works and Government Services Canada, must advise the Contractor as to the appropriate priority rating within sixty (60) days of the date of the Contract.

7. Delivery, Quality, Inspection and Acceptance

7.1 Condition of Material - Department of National Defence

The Contractor must provide material that is new production of current manufacture supplied by the principal manufacturer or its accredited agent. The material must conform to the latest issue of the applicable drawing, specification and part number, as applicable, that was in effect on the bid closing date.

Name of manufacturer: _____

Date of manufacture: _____

Cure date if the item contains elastomeric material: _____ .

7.2 Marking and Labelling

7.2.1 Marking

The Contractor must ensure that the manufacturer's name and part number are clearly stamped or etched on each item for positive identification purposes.

7.2.2 Labelling

The Contractor must ensure that the manufacturer's and specification numbers appear on each item, either printed on the container or on an adhesive label of highest commercial standard affixed to the container. In addition the outside packaging of all delivered items must indicate "FOR SNR/C.000786 PROJECT"

7.3 Preparation for Delivery

For line item numbers 1, 2, 3 4, and 5 (which can be found in Annex C, Price and Delivery, Appendix 1), and the Procurement of Spare Parts, the Contractor must prepare items 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.

7.4 Wood Packaging Materials

All wood packaging materials used in international shipping must conform to the Guidelines for Regulating Wood Packaging Material in International Trade - ISPM 15 (*International Standards for Phytosanitary Measures*)

Pertinent additional information on Canada's import and export programs is provided in the following Canadian Food Inspection Agency policy directives:

D-98-08 - *Entry Requirements for Wood Packaging Materials Produced in All Areas Other Than the Continental United States*

D-01-05 - *The Canadian Wood Packaging Certification Program (CWPCP)*

7.5 Palletization

1. For all shipments exceeding 0.566 m³ or 15.88 kg (20 ft³ or 35 lbs), except for those shipped by courier, the following applies:
 - A. The Contractor must strap, and if necessary wrap, shipments on standard 1.22 m x 1.02 m (48 in. x 40 in.) wood pallets. The four-way forklift entry pallet must be supplied at no charge to Department of National Defence. Total height, including pallet, must not exceed 1.19 m (47 in.). The pallet load must not extend further than 2.54 cm (1 in.) from any edge of the pallet.
 - B. The Contractor must group items by stock number (on the same pallet) within consolidated shipments. Pallet loads composed of more than one stock number must be marked as "Mixed Items".
 - C. Individual items exceeding 1.22 m (48 in.) in length or 453.6 kg (1000 lbs) must be secured to larger pallets or must have 10.16 cm x 10.16 cm (4 in. x 4 in.) skids securely fastened to the bottom of the item. Skids must be separated by a minimum of 71.12 cm (28 In.).
2. Any exception requires the prior approval of the Contracting Authority.

7.6 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and delivered:

- **Delivered Duty Paid (DDP - as per Consignee info. found in Annex C) Incoterms 2010** for shipments from a commercial contractor.

7.7 ISO 9001:2008 - Quality Management Systems - Requirements (Quality Assurance Code C)

The Contractor is responsible for implementing a quality system appropriate to the scope of the work to be performed. It is recommended that the quality system be based on ISO 9001:2008 "Quality management systems - Requirements."

The Contractor is responsible for performing or having performed all inspections and tests necessary to substantiate that the materiel or services provided conform to the drawings, specifications and the requirements of the contract. The Contractor must keep accurate and complete inspection records which must, upon request, be made available to the authorized Department of National Defence (DND) representative, who may make copies and take extracts during the performance of the Contract and for a period of one (1) year after the completion of the Contract.

Despite the above, all materiel is subject to verification and acceptance by DND at destination. The authorized DND representative at destination may either be the consignee(s), the Technical Authority, or the Quality Assurance Authority.

7.7.1 Inspection and Acceptance

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

7.8 ISO 9001:2008 - Quality Management Systems - Requirements (Quality Assurance Code Q)

In the performance of the Work described in the Contract, the Contractor must comply with the requirements of:

ISO 9001:2008 - Quality management systems - Requirements, published by the International Organization for Standardization (ISO), current edition at date of submission of Contractor's bid.

It is not intended that the Contractor be registered to ISO 9001; however, the Contractor's quality management system must address all requirements appropriate to the scope of the Work. Only exclusions in accordance with clause 1.2 of ISO 9001 are acceptable.

Assistance for Government Quality Assurance (GQA)

The Contractor must provide the Quality Assurance Representative (QAR) with the accommodation and facilities required for the proper accomplishment of GQA and must provide any assistance required by the QAR for evaluation, verification, validation, documentation or release of product.

The QAR must have the right of access to any area of the Contractor's or subcontractor's facilities where any part of the Work is being performed. The QAR must be afforded unrestricted opportunity to evaluate and verify Contractor conformity with quality system procedures and to validate product conformity with the requirements of the Contract. The Contractor must make available for reasonable use by the QAR the

equipment necessary for all validation purposes. Contractor personnel must be made available for operation of such equipment as required.

When the QAR determines that GQA is required at a subcontractor's facilities, the Contractor must provide for this in the purchasing document and forward copies to the QAR, together with relevant technical data as the QAR may request.

The Contractor must notify the QAR of non-conforming product received from a subcontractor when the product has been subject to GQA. For the design, development or maintenance of software, the Contractor must interpret the requirements of ISO 9001:2008 "Quality management systems - Requirements", according to the guidelines of the latest issue (at contract date) of ISO/IEC 90003:2004 "Software engineering - Guidelines for the application of ISO 9001:2000 to computer software".

7.8.1 Quality Assurance Authority (Department of National Defence)

7.8.1.1 Canadian-based Contractor

All work is subject to Government Quality Assurance performed at the Contractor's or subcontractor's facility, and at the installation site, by the Director of Quality Assurance, or its designated Quality Assurance Representative (QAR).

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

Within forty-eight (48) hours of contract award, the Contractor must contact the QAR. The name, location and phone number of the QAR can be obtained from the nearest National Defence Quality Assurance Region (NDQAR) listed below:

Atlantic - Halifax 902-427-7224 or 902-427-7150
Quebec - Montreal 514-732-4410 or 514-732-4477
Quebec - Quebec City 418-694-5998, ext. 5996
National Capital Region - Ottawa 613-996-1827
Ontario - Toronto 416-635-4404, ext. 6081 or 2754
Ontario - London 519-964-5757
Manitoba/Saskatchewan - Winnipeg 204-833-2500, ext. 6574

Alberta - Calgary 403-410-2320, ext. 3830
Alberta - Edmonton 780-973-4011, ext. 2276
British Columbia - Vancouver 604-225-2520, ext. 2460
British Columbia - Victoria 250-363-5662

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

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

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

7.8.1.2 Foreign-based and United States Contractor

All work is subject to Government Quality Assurance performed at the Contractor's or subcontractor's facility, and at the installation site, by the Director of Quality Assurance, or its designated Quality Assurance Representative (QAR).

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

If the Contractor has not been contacted by the QAR performing GQA in the Contractor's facility or area within forty-five (45) working days of award of the Contract, the Contractor must notify the Contracting Authority.

Where no official arrangements for mutual GQA have been concluded, the Department of National Defence will arrange for the GQA services to be conducted by a National Quality Assurance Authority acceptable to the Director of Quality Assurance. If the GQA services must be provided on a cost-recovery basis, the costs for the services must be accrued against the Contract and be discharged through separate invoicing.

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

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

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

7.8.2 Release Documents (Department of National Defence)

7.8.2.1 Canadian-based Contractor

Unless otherwise directed by the Department of National Defence (DND) Quality Assurance Authority, the signature of the DND Quality Assurance Representative on the release document is not required.

Material must be released for shipment using either DND form CF 1280, Certificate of Release, Inspection and Acceptance, or a release document containing the same information. The Contractor must prepare the release document(s).

For return of repair and overhaul material to the Canadian Forces Supply System Upgrade, use forms DND 2227/DND 2228 in lieu of DND form CF 1280.

7.8.2.2 United States-based Contractor

Material must be released for shipment using a DD Form 250, Material Inspection and Receiving Report, or a release document containing the same information and acceptable to the Quality Assurance Representative. The Contractor must prepare the release document(s).

7.8.2.3 Foreign-based Contractor

Material must be released for shipment using a Certificate of Conformity in accordance with NATO STANAG 4107 which must be prepared by the Contractor.

7.8.3 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: D Mar P 2-3-3
- E. One (1) copy to the Quality Assurance Representative; and
- F. One (1) copy to the Contractor.

7.8.4 Quality Plan

No later than days after the effective date of the Contract, the Contractor must submit for acceptance by the Department of National Defence (DND) a Quality Plan prepared according to the latest issue (at contract date) of ISO 10005:2005 "Quality management systems - Guidelines for quality plans". The Quality Plan must describe how the Contractor will conform to the specified quality requirements of the Contract and specify how the required quality activities are to be carried out, including quality assurance of subcontractors. The Contractor must include a traceability matrix from the elements of the specified quality requirements to the corresponding paragraphs in the Quality Plan.

The documents referenced in the Quality Plan must be made available when requested by Public Works and Government Services Canada or DND.

If the Quality Plan was submitted as part of the bidding process, the Contractor must review and, where appropriate, revise the submitted plan to reflect any changes in requirements or planning which may have occurred as a result of pre-contract negotiations.

Upon acceptance of the Quality Plan by DND, the Contractor must implement the Quality Plan. The Contractor must make appropriate amendments to the Quality Plan throughout the term of the contract to reflect current and planned quality activities. Amendments to the Quality Plan must be acceptable to DND.

If the Contract includes the option for software design, development or maintenance of software, the Contractor must interpret the requirements of ISO 9001:2008 "Quality management systems - Requirements", according to the guidelines of the latest issue (at contract date) of ISO/IEC 90003:2004 "Software engineering - Guidelines for the application of ISO 9001:2000 to computer software".

7.9 Excess Goods

The quantity of goods to be delivered by the Contractor is specified in the Contract. The Contractor remains liable for any shipment in excess of that quantity whether the excess quantity is shipped voluntarily or as a result of an error by the Contractor. Canada will not make any payment to the Contractor for goods shipped in excess of the specified quantity. Canada will not return the said goods to the Contractor unless the Contractor agrees to pay for all the costs related to the return, including but not limited to administrative, shipping and handling costs. Canada will have the right to deduct such costs from any invoice submitted by the Contractor.

7.10 Incomplete Assemblies

The Contractor must not ship incomplete assemblies unless the authorization for such shipment has been obtained before from the Contracting Authority.

7.11 Electrical Equipment

All electrical equipment supplied under the Contract must be certified or approved for use in accordance with the *Canadian Electrical Code*, Part 1, before delivery, by a certification organization accredited by the Standards Council of Canada.

8. Certifications

8.1 Compliance

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 term 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, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

8.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and HRSDC-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by HRSDC will constitute the Contractor in default as per the terms of the Contract.

9. Applicable Laws

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

10. 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) 4001 (2013-01-28), Hardware Purchase, Lease and Maintenance;
- (c) 4003 (2013-08-16), Software Development or Modification Services;
- (d) 2030 (2013-06-27), General Conditions - Higher Complexity - Goods;
- (e) Annex B, SOW, and its related Appendices;
- (f) Annex C, Price and Delivery;
- (g) Annex A, SRCL;
- (h) the signed Task Authorizations (including all of its annexes, if any);
- (i) Contractor's bid dated _____.

11. Defence Contract

The Contract is a defence Contract within the meaning of the Defence Production Act, R.S.C. 1985, c. D-1, and must be governed accordingly.

Title to the Work or to any materials, parts, work-in-process or finished work must belong to Canada free and clear of all claims, liens, attachments, charges or encumbrances. Canada is entitled, at any time, to remove, sell or dispose of the Work or any part of the Work in accordance with section 20 of the Defence Production Act.

11.1 Canadian Forces Site Regulations

The Contractor must comply with all standing orders or other regulations, instructions and directives in force on the site where the Work is performed.

12. Foreign Nationals

12.1 Canadian Contractor

The Contractor must comply with Canadian immigration requirements applicable to foreign nationals entering Canada to work temporarily in fulfillment of the Contract. If the Contractor wishes to hire a foreign national to work in Canada to fulfill the Contract, the Contractor should immediately contact the nearest Service Canada regional office to enquire about Citizenship and Immigration Canada's requirements to issue a temporary work permit to a foreign national. The Contractor is responsible for all costs incurred as a result of non-compliance with immigration requirements.

12.2 Foreign Contractor

The Contractor must comply with Canadian immigration legislation applicable to foreign nationals entering Canada to work temporarily in fulfillment of the Contract. If the Contractor wishes to hire a foreign national to work in Canada to fulfill the Contract, the Contractor should immediately contact the nearest Canadian Embassy, Consulate or High Commission in the Contractor's country to obtain instructions, information on Citizenship and Immigration Canada's requirements and any required documents. The Contractor is responsible to ensure that foreign nationals have the required information, documents and authorizations before performing any work under the Contract in Canada. The Contractor is responsible for all costs incurred as a result of non-compliance with immigration requirements.

13. Insurance

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

14. Controlled Goods

14.1 Controlled Goods Definition

The Contract involves controlled goods as defined in the Schedule to the Defence Production Act. The Contractor must identify those controlled goods to the Department of National Defence.

14.2 Controlled Goods Program

1. As the Contract requires production of or access to controlled goods that are subject to the Defence Production Act R.S. 1985, c. D-1, the Contractor and any subcontractor are advised that, within Canada, only persons who are registered, exempt or excluded under the Controlled Goods Program (CGP) are lawfully entitled to examine, possess or transfer controlled goods. Details on how to register under the CGP are available at: Controlled Goods Program
2. When the Contractor and any subcontractor proposed to examine, possess or transfer controlled goods are not registered, exempt or excluded under the CGP at time of Contract Award, the Contractor and any subcontractor must, within seven (7) working days from receipt of written notification of the Contract Award, ensure that the required application(s) for registration or exemption are submitted to the CGP. No examination, possession or transfer of controlled goods must be performed until the Contractor has provided proof, satisfactory to the Contracting Authority, that the Contractor and any subcontractor are registered, exempt or excluded under the CGP.

Failure of the Contractor to provide proof, satisfactory to the Contracting Authority, that the Contractor and any subcontractor are registered, exempt or excluded under the CGP, within thirty (30) Contract from receipt of written notification of Contract Award, will be considered a default under the Contract except to the extent that Canada is responsible for the failure due to delay in processing the application.

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3. The Contractor and any subcontractor must maintain registration, exemption or exclusion from the CGP for the duration of the Contract and in any event for so long as they will examine, possess or transfer controlled goods.

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Annex A - Security Requirements Check List

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Annex B - SOW for UHF Transceivers for the SNR Project

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Appendix 1 - TSOR for UHF Transceivers for the SNR Project

Annex C - Price and Delivery

1. Table of Contents

Appendix 1:	Equipment and Data Deliverables
Appendix 2:	Approved Task Authorizations
Appendix 3:	Procurement of Spare Parts

2. Currency

The rates (found below) are expressed in the following currency: _____ (Canadian currency is preferable).

Appendix 1 - Equipment, Data Deliverables and Delivery of Training

Item	Equipment / Data Deliverable	SOW Reference	Quantity	Unit of Issue	Price	Requested Delivery Time	Consignee Info.
1	UHF radio transceivers per TSOR (Appendix 1), complete with English OEM Technical Manuals/ Documentation and required updates, Firmware, Software and required updates, Licenses, and Special Tools and configuration instructions	Article 4.1 of SOW	2	Lot	\$ _____ (Lot \$ to be used for eval. purposes)	30 CDACA	7HAB
2			12		\$ _____ (Lot \$ to be used for eval. purposes)	90 CDACA	7HAB
3			20		\$ _____ (Lot \$ to be used for eval. purposes)	270 CDACA	7HAB
4			21		\$ _____ (Lot \$ to be used for eval. purposes)	270 CDACA	2BAB
5	Optional UHF radio transceivers per TSOR (Appendix 1), complete with English OEM Technical Manuals/ Documentation and required updates, Firmware, Software and required updates, Licenses, and Special Tools and configuration instructions	Article 4.1 of SOW	Up to 24	Each	\$ _____ (X Qty. 24 to be used for eval. purposes)	[Note: To be determined when option(s) is/are invoked.]	[Note: To be determined when option(s) is/are invoked.]
	Softcopy of Draft				\$ _____		

6(a)	Translated OEM Manual/Documentation	Article 4.1 of SOW	N/A	Lot	(Lot \$ to be used for eval. purposes)	240 CDACA	Technical Authority
6(b)	Hardcopy and Softcopy of Final Translated OEM Manual/Documentation	Article 4.1 of SOW	N/A	Lot	\$ _____ (Lot \$ to be used for eval. purposes)	360 CDACA	Technical Authority and/or Canadian Forces Publication Depot (W2486)
7	Delivery of ICT Course, complete with equipment, test gear, and hardcopy technical manuals/training materials	Article 4.2 of SOW	1.	Each	\$ _____ (X Qty. 1 to be used for eval. purposes)	[Note: To be determined when courses are delivered.]	Technical Authority
8	Technical Data Sheet	Article 4.3 of SOW	N/A	Lot	\$ _____ (Lot \$ to be used for eval. purposes)	30 CDACA	Technical Authority
9	High-Level Breakdown of Transceiver to Lowest Replacable Unit	Article 4.3 of SOW	N/A	Lot	\$ _____ (Lot \$ to be used for eval. purposes)	90 CDACA	Technical Authority
10	Planned Maintenance Schedule	Article 4.3 of SOW	N/A	Lot	\$ _____ (Lot \$ to be used for eval. purposes)	90 CDACA	Technical Authority
11	Recommended Spare Parts List	Article 4.4 of SOW	N/A	Lot	\$ _____ (Lot \$ to be used for eval. Purposes)	90 CDACA	Technical Authority
FINANCIAL EVALUATION TOTAL =						\$ _____	

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CDACA = Calendar Days after Contract Award
N/A = Not Applicable

Appendix 2 - Approved Task Authorizations

Annex D - Task Authorization Procedures

This Annex outlines the procedures to be followed as well as the principles that will be used to govern the issuance of Task Authorizations under this Contract.

1. Scope

Task Authorizations will be used to authorize the Contractor to carry out work that is not a permanent change to the Contract and is within the scope of the Contract, including, by not limited to, Work identified within the SOW as requiring the use of a Task Authorization. Task Authorizations may or may not include additional costs. All Task Authorizations must be preauthorized and a Task Authorization Form (DND 626) is to be used (example in Annex D, Forms).

The use of Task Authorizations includes, but is not limited to, the following requirements outlined in the SOW (Annex B): *Procurement of Spare Parts*.

A Contract Amendment, duly negotiated and signed by the Contractor and the Contracting Authority, will be used when proposed Work is outside the scope of the existing Contract and or where such Work would constitute a permanent change to the content of the SOW, the terms of payment or the Contract Limitation of Expenditure.

2. Administration

Details of each task assigned will be described in an individual Task SOW.

All the terms and conditions of the Contract apply to this Task Authorization method and cannot be amended without written authorization by the Contracting Authority.

Work defined in the Task SOW must be within the general scope of Work stated in the Contract. The Contractor must control all Work by the serial numbers assigned to all Task SOWs.

Details on Task Authorization reporting requirements are outlined in Article 7 below.

Only the Requisition and/or Contracting Authority (as applicable) can authorize Task Authorizations in accordance with their delegated Approval Limitations as found in Article 4, below.

Canada will not pay the Contractor for any Task Authorization unless they have been pre-approved, in writing, by the Requisitioning Authority and/or Contracting Authority (as applicable).

3. Procedures

Where Canada requests the change:

The Technical Authority will provide the Requisition Authority with written technical instructions detailed in a Task SOW (e.g. details of the activities to be performed, a description of the deliverables, a schedule indicating completion dates for the major activities or submission dates for the deliverables, selected Basis/Method of Payment - as specified in the Contract, etc.). The Task SOW, signed by the Technical Authority and approved by the Requisition Authority, will contain sufficient detail to allow the Contractor to provide the following information within five (5) working days after receiving the authorized Task SOW:

- A) the impact the Task Authorization would have on the requirement of the Contract;
- B) a price breakdown of the cost (increase or decrease) associated with the implementation of the Task Authorization in accordance with Article 1.4, Pricing of Changes, of the Contract; and
- C) a schedule to implement the Task Authorization and the impact on the Contract delivery schedule.

The Requisition Authority will then forward this information to the Contractor.

The Contractor must ensure that the requested Task SOW does not exceed the requirements as outlined in the SOW (Annex B). Should the Contractor have any doubt with respect to the Work requested in the Task SOW, the Contractor must submit a Task SOW change recommendation to the Requisition Authority.

The Contractor will prepare a Task Proposal and will send it to the Requisition Authority for evaluation. If the Task Proposal involves the negotiation of terms and conditions and/or pricing, the review and approval of the Contracting Authority is required.

Once agreement has been reached and the Contractor's Task Proposal has been accepted, the Requisition Authority will prepare a DND 626 form (with the Contractor approved Task SOW attached), to be signed by the Requisition Authority and/or Contracting Authority, as required, in the appropriate signature blocks, and forward a

signed copy to both the Contractor and the Contracting Authority. This constitutes the written authorization for the Contractor to proceed with the Task Authorization.

When the Contractor requests a Task Authorization

The Contractor must provide the Contracting Authority with a request for a Task Authorization in sufficient detail for review by Canada.

The Contracting Authority will forward the request to the Technical authority for review.

If Canada agrees that a Task Authorization is required, then the procedures detailed in Article 3 ("When Canada requests a change") are to followed.

The Contracting Authority will inform the Contractor in writing if Canada determines that the Task Authorization is not required within fifteen (15) working days.

4. Approval Limitations

4.1 The Approval Limitations for each Task Authorization are as follows:

- A) The Requisition Authority may authorize individual task authorizations up to a limit of \$ 25,000, GST/QST/HST included, inclusive of any revisions.
- B) Any Task Authorization to be issued in excess of that limit must be authorized by the Contracting Authority before issuance.

The Contractor must not proceed with any Task Authorization without the written authorization of the Requisition Authority and/or Contracting Authority, as applicable. Any work performed without the necessary written authorization will be considered outside the scope of the Contract and no payment will be made for such work.

5. Basis and Method of Payment

5.1 Basis of Payment

The following Basis of Payment will apply to a Task Authorization:

Firm Price - Where the Work described is clearly defined, the Contractor's Task Proposal will contain a firm price for any related costs. Where the final price for the Work is a firm price, the requirements of the Work shall be completed in accordance with the terms and conditions of the Contract and no additional funds will be made available.

All proposed prices and cost estimates must be supported by a detailed cost breakdown.

5.2 Method of Payment

The following Method of Payment will apply to a Task Authorization:

Lump sum payment shall be made following acceptance of all deliverables under the Task Authorization.

6. Canada's Obligation - Portion of the Work - Task Authorizations

Canada's obligation with respect to the portion of the Work under the Contract that is performed through task authorizations is limited to the total amount of the actual tasks performed by the Contractor.

7. Periodic Usage Reports:

The Contractor must compile and maintain records on its provision of services under authorized Task Authorizations issued under the Contract.

The Contractor must provide data in accordance with the reporting requirements detailed below. If services are not provided during a given period, the Contractor must still provide a "nil" report.

The reports must be submitted on a quarterly basis to the Contracting Authority.

The quarterly periods are defined as follows:

- A) 1st quarter: April 1 to June 30;
- B) 2nd quarter: July 1 to September 30;
- C) 3rd quarter: October 1 to December 31; and
- D) 4th quarter: January 1 to March 31.

The reports must be submitted to the Contracting Authority no later than ten (10) calendar days after the end of the reporting period.

Reporting Requirement - Details

A detailed and current record of all authorized tasks must be kept. This record must contain:

For each authorized Task:

- A) the Task Authorization number or task revision number(s);
- B) a title or a brief description of each authorized task;
- C) the total estimated cost specified in the Task Authorization for each authorized task, GST, QST or HST extra;
- D) the total amount, GST, QST or HST extra, expended to date against each authorized task;
- E) the start and completion date for each authorized task; and
- F) the active status of each authorized task, as applicable.

For all authorized Tasks:

- A) the amount (GST, QST or HST extra) specified in the Contract (as last amended, as applicable) as Canada's total liability to the Contractor for all authorized Task Authorizations; and
- B) the total amount, GST, QST or HST extra, expended to date against all authorized Task Authorizations.

8. Task Authorization - Department of National Defence

The administration of the Task Authorization process will be carried out by the Department of National Defence, i.e. Requisition Authority. This process includes monitoring, controlling and reporting on expenditures of the Contract with Task Authorizations to the Contracting Authority.

Annex E - Forms

Solicitation No. - N° de l'invitation

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Le, Une
Département
NATIONAL

**TASK AUTHORIZATION
AUTORISATION DES TÂCHES**

All invoices/progress claims must show the reference Contract and Task numbers. Toutes les factures doivent indiquer les numéros du contrat et de la tâche.		Contract no. - N° du contrat
		Task no. - N° de la tâche
Amendment no. - N° de la modification	Increase/Decrease - Augmentation/Réduction	Previous value - Valeur précédente
To - A	<p>TO THE CONTRACTOR You are requested to supply the following services in accordance with the terms of the above reference contract. Only services included in the contract shall be supplied against this task. Please advise the undersigned if the completion date cannot be met. Invoices/progress claims shall be prepared in accordance with the instructions set out in the contract.</p> <p>A L'ENTREPRENEUR Vous êtes prié de fournir les services suivants en conformité des termes du contrat mentionné ci-dessus. Seuls les services mentionnés dans le contrat doivent être fournis à l'appui de cette demande. Prière d'aviser le signataire si la livraison ne peut se faire dans les délais prescrits. Les factures doivent être établies selon les instructions énoncées dans le contrat.</p>	
Delivery location - Expédiez à	Date _____ for the Department of National Defence pour le ministère de la Défense nationale	
Delivery/Completion date - Date de livraison/d'achèvement		
Contract item no. N° d'article du contrat	Services	Cost Prix
		GST/HST TPS/TVH
		Total
<p>APPLICABLE ONLY TO PWGSC CONTRACTS: The Contract Authority signature is required when the total value of the DND 526 exceeds the threshold specified in the contract.</p> <p>NE S'APPLIQUE QU' AUX CONTRATS DE TPSGC : La signature de l'autorité contractante est requise lorsque la valeur totale du formulaire DND 526 est supérieure au seuil précisé dans le contrat.</p>		
<p>_____ for the Department of Public Works and Government Services pour le ministère des Travaux publics et services gouvernementaux</p>		

DND 526 (01-05)

Design: Form Management 993-4050
Conception: Gestion des formulaires 993-4052

Annex F - Federal Contractors Program for Employment Equity - Certification

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with such request by Canada will also render the bid non-responsive or will constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit HRSDC-Labour's website.

Date: _____ (YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

- A1. The Bidder certifies having no work force in Canada.
- A2. The Bidder certifies being a public sector employer.
- A3. The Bidder certifies being a federally regulated employer being subject to the *Employment Equity Act*.
- A4. The Bidder certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).
- A5. The Bidder has a combined workforce in Canada of 100 or more employees; and
 - A5.1. The Bidder certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with HRSDC-Labour.
 - or**
 - A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to HRSDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to HRSDC-Labour.

B. Check only one of the following:

B1. The Bidder is not a Joint Venture.

or

B2. The Bidder is a Joint venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)

Annex G - Mandatory Technical Evaluation Criteria



Government of Canada / Gouvernement du Canada

Contract Number / Numéro du contrat

W8472-13-5485/ *Agreement*

Security Classification / Classification de sécurité
UNCLASSIFIED

5-1

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

PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE		
1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine DND	2. Branch or Directorate / Direction générale ou Direction ADM(MAT)/DGMEPM	
3. a) Subcontract Number / Numéro du contrat de sous-traitance	3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant	
4. Brief Description of Work / Brève description du travail During the installation of Subnet Relay (SNR) transceivers on Naval assets, the contractor may be required on site to integrate, optimize and test radio functionality. This will require access to the ship's Communication Control Room, Communication Equipment Room, and Emergency Radio Room. Further the contractor may be called upon to analyze SNR performance utilizing unclassified network satellites at the contractor's facility. Contractor may also be called upon to provide warranty work on unclassified SNR equipment at the contractor's facility.		
5. a) Will the supplier require access to Controlled Goods? / Le fournisseur aura-t-il accès à des marchandises contrôlées?	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? / Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques?	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
6. Indicate the type of access required / Indiquer le type d'accès requis		
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? / Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) / (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c)	<input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui	
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. / Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé.	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
6. c) Is this a commercial courier or delivery requirement with no overnight storage? / S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit?	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès		
Canada <input checked="" type="checkbox"/>	NATO / OTAN <input type="checkbox"/>	
Foreign / Étranger <input type="checkbox"/>		
7. b) Release restrictions / Restrictions relatives à la diffusion		
No release restrictions / Aucune restriction relative à la diffusion <input checked="" type="checkbox"/>	All NATO countries / Tous les pays de l'OTAN <input type="checkbox"/>	
Not releasable / À ne pas diffuser <input type="checkbox"/>		
Restricted to: / Limité à: <input type="checkbox"/>	Restricted to: / Limité à: <input type="checkbox"/>	
Specify country(ies): / Préciser le(s) pays:	Specify country(ies): / Préciser le(s) pays:	
7. c) Level of Information / Niveau d'information		
PROTECTED A / PROTÉGÉ A <input checked="" type="checkbox"/>	NATO UNCLASSIFIED <input type="checkbox"/>	PROTECTED A / PROTÉGÉ A <input type="checkbox"/>
PROTECTED B / PROTÉGÉ B <input type="checkbox"/>	NATO NON CLASSIFIÉ <input type="checkbox"/>	PROTECTED B / PROTÉGÉ B <input type="checkbox"/>
PROTECTED C / PROTÉGÉ C <input type="checkbox"/>	NATO RESTRICTED <input type="checkbox"/>	PROTECTED C / PROTÉGÉ C <input type="checkbox"/>
CONFIDENTIAL / CONFIDENTIEL <input type="checkbox"/>	NATO DIFFUSION RESTREINTE <input type="checkbox"/>	CONFIDENTIAL / CONFIDENTIEL <input type="checkbox"/>
SECRET <input type="checkbox"/>	NATO CONFIDENTIAL <input type="checkbox"/>	SECRET <input type="checkbox"/>
SECRET <input checked="" type="checkbox"/>	NATO SECRET <input type="checkbox"/>	SECRET <input type="checkbox"/>
TOP SECRET <input type="checkbox"/>	NATO SECRET <input type="checkbox"/>	TOP SECRET <input type="checkbox"/>
TRÈS SECRET <input type="checkbox"/>	COSMIC TOP SECRET <input type="checkbox"/>	TRÈS SECRET <input type="checkbox"/>
TOP SECRET (SIGINT) <input type="checkbox"/>	COSMIC TRÈS SECRET <input type="checkbox"/>	TOP SECRET (SIGINT) <input type="checkbox"/>
TRÈS SECRET (SIGINT) <input type="checkbox"/>		TRÈS SECRET (SIGINT) <input type="checkbox"/>



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SM

PART A (continued) / PARTIE A (suite)

8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets? No Yes
Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS? Non Oui

If Yes, indicate the level of sensitivity: Dans l'affirmative, indiquer le niveau de sensibilité :

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

Short Title(s) of material / Titre(s) abrégé(s) du matériel :
Document Number / Numéro du document :

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

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

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

Special comments: Commentaires spéciaux : to support installations, set-to-work activities on ships

NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided.
REMARQUE: Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.

10. b) May unscreened personnel be used for portions of the work? No Yes
Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail? Non Oui

If Yes, will unscreened personnel be escorted? Dans l'affirmative, le personnel en question sera-t-il escorté? No Yes
 Non Oui

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

INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS

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

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

PRODUCTION

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

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

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

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

TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité UNCLASSIFIED
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5.4

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

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

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

SUMMARY CHART / TABLEAU RÉCAPITULATIF

Category / Catégorie	PROTECTED / PROTÉGÉE			CLASSIFIED / CLASSIFIÉE			NATO				COMSEC					
	A	B	C	CONFIDENTIAL / CONFIDENTIEL	SECRET	TOP SECRET / TRÈS SECRET	NATO RESTRICTED / NATO DIFFUSION RESTREINTE	NATO CONFIDENTIAL / NATO CONFIDENTIEL	NATO SECRET	COMSEC TOP SECRET COSMIC TRIA SECRET	PROTECTED / PROTÉGÉE			CONFIDENTIAL / CONFIDENTIEL	SECRET	TOP SECRET / TRÈS SECRET
											A	B	C			
Information / Assets / Ressources / Biens / Production																
IT Media / Support IT																
IT Link / Lien d'interconnexion																

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?
La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE? No / Non Yes / Oui

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

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?
La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE? No / Non Yes / Oui

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



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PART 2 - AUTHORIZATION / PARTIE 2 - AUTORISATION			
13. Organization Project Authority / Chargé de projet de l'organisme			
Name (print) - Nom (en lettres moulées) DAVID TA, P. Eng.	Title - Titre DNCS 2-3-2	Signature 	
Telephone No. - N° de téléphone 819-939-3710	Facsimile No. - N° de télécopieur 819-939-3614	E-mail address - Adresse courriel david.ta@forces.gc.ca	Date 19 Dec 2013
14. Organization Security Authority / Responsable de la sécurité de l'organisme			
Name (print) - Nom (en lettres moulées) Sasha Medjovic - CF MRCANQ - Industrial Security Senior Security Analyst		Signature 	
Telephone No. - N° de téléphone Tel: 613-940-1000 / Fax: 613-940-1000	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel E-mail: sasha.medjovic@forces.gc.ca	Date 2013-12-23
15. Are there additional instructions (e.g. Security Guide, Security Classification Guide) attached? / Des instructions supplémentaires (p. ex. Guide de sécurité, Guide de classification de la sécurité) sont-elles jointes? <input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui			
16. Procurement Officer / Agent d'approvisionnement			
Name (print) - Nom (en lettres moulées) Ricardo Mastantuono	Title - Titre Contracting Authority	Signature 	
Telephone No. - N° de téléphone 819-956-5771	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel	Date
17. Contracting Security Authority / Autorité contractante en matière de sécurité			
Name (print) - Nom (en lettres moulées) Anna Kulycka Contract Security Officer, Contract Security Division		Signature 	
Telephone No. - N° de téléphone Tel: 613-954-1258	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel Anna.Kulycka@tpsgc-pwgsc.gc.ca Fax: Téléc - 613-954-4171	Date Jan 9, 2014

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Annex B – SOW

STATEMENT OF WORK (SOW)

FOR

ULTRA HIGH FREQUENCY (UHF) TRANSCEIVERS

FOR THE

SUB NET RELAY (SNR) PROJECT

Department of National Defence (DND)
Director General Maritime Equipment Program Management (DGMEPM)
Director Naval Combat Systems 2 (DNCS 2)

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1.0 SCOPE

1.1 Purpose

- 1.1.1 This Statement of Work (SOW) defines the activities associated with the procurement of UHF radio communication transceivers. These transceivers will be installed on Halifax, Iroquois, Kingston, and Victoria Class Ships and Submarines as part of the Sub Net Relay (SNR) project. Each UHF radio transceiver will function as a part of a SNR node in conjunction with one Rockwell Collins Very High Speed Modem (VHSM) 5000 and one Rockwell Collins Subnet Relay Controller (SNC) 2050.
- 1.1.2 The transceiver equipment shall be Commercial Off-the-Shelf (COTS), field proven transceiver equipment. Furthermore, the transceiver shall have a proven record of successful interface and operation in a maritime Subnet Relay node as stated in paragraph 1.1.1. Documentary evidence of such successful operation within a SNR system shall be provided at bid submission.

1.2 Background

- 1.2.1 Canadian Naval operations are heavily dependent on IP communications over satellite links. These connections are expensive, not easily available and impractical in some environments. The ability to pass IP traffic directly between ships in geographic proximity is a highly desirable capability to off load dependency on SATCOM links. Subnet Relay is a technology that provides for effective Line of Sight (LOS), Extended Line of Sight (ELOS) and Beyond Line of Sight (BLOS) networking capability.
- 1.2.2 A SNR communication node comprises a Network Controller, a high performance UHF Modem, and an UHF radio transceiver. Current radio equipment fitted in RCN warships are incapable of operating in the wide bandwidths required for high capacity IP traffic, hence new UHF radio transceivers are required to provide for wideband SNR capability. This Statement of Work identifies the activities necessary to acquire such modern UHF radios.
- 1.2.3 The following high level work items will form part of this SOW:
- Delivery of UHF radio transceiver equipments that meet the technical specifications defined in Appendix 1 to this SOW;
 - Technical manuals and interface documentation;
 - Spare parts recommendation and maintaining a capability to supply spare parts; and
 - Training and related documentation.

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2.0 ACRONYMS

AUSCANNZUKUS	Australia, Canada, New Zealand, United Kingdom, United States
BLOS	Beyond Line of Sight
CFB	Canadian Forces Base
CFTO	Canadian Forces Technical Order
CGCS	Canadian Government Catalog System
COTS	Commercial Off-the-Shelf
DGMEPM	Director General Maritime Equipment Program Management
DMSS	Director Maritime Ship Support
DND	Department of National Defense
ELOS	Extended Line of Sight
FSR	Field Service Request
ICT	Initial Cadre Training
IP	Internet Protocol
LOS	Line of Sight
LRU	Lowest Replaceable Unit
MND	Minister of National Defence
NSN	NATO Stock Number
RCN	Royal Canadian Navy
RSPL	Recommended Spare Parts List
SATCOM	Satellite Communications
SOW	Statement of Work
SPTD	Supplementary Provisioning Technical Documentation
SNC	Subnet Relay Controller
SNR	Sub Net Relay
TA	Technical Authority
TDP	Technical Data Packages
TSOR	Technical Statement of Requirements
UHF	Ultra High Frequency (Military 225-400 MHz)
VHSM	Very High Speed Modem

3.0 APPLICABLE DOCUMENTS

The following documents form part of this SOW to the extent specified herein, and are supportive of the SOW when referenced in Appendix 1 – Technical Statement of Requirements (TSOR). All other document references are to be considered supplemental information only. Unless otherwise specified, the issue or amendment of documents applicable to this contract shall be those in effect on the date a contract is awarded. In the event of a conflict between the documents referenced herein and the contents of the SOW, then the contents of the SOW shall take precedence.

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3.1	D-01-100-214/SF-100	Preparation of Provisioning Documentation For Canadian Forces Equipment
3.2	C-01-100-100/AG-005	(1996-02-29), Acceptance of Commercial and Foreign Government Publications as Adopted Publications
3.3	NATO STANAG 4138	Vibration Resistant Equipment Testing Requirements for Equipment onboard NATO ships
3.4	MIL-STD-810D	Test Method Standard for Environmental Engineering Considerations and Laboratory Tests

4.0 REQUIREMENTS

4.1 *Transceivers and Manuals*

4.1.1 The Contractor shall provide bilingual technical manuals/publications suitable to operate, maintain and repair the UHF radios in accordance with specification C-01-100-100/AG-005.

4.1.1.1 Given the in production nature of the required equipment, it is assumed that English language OEM technical documentation already exists. One copy of this existing documentation shall be packaged with each delivered UHF radio transceiver.

4.1.1.2 The existing OEM English documentation shall be formatted and translated into French to meet the above specification.

The OEM English manual(s) shall first be submitted in electronic format to the Technical Authority (TA) within 60 calendar days after contract award.

The TA shall then provide comments back to the Contractor within 30 calendar days (90 calendar days after contract award).

The OEM shall then proceed to translate and format the documentation in accordance with specification C-01-100-100/AG-005 and submit to the TA for final approval no later than 240 calendar days after contract award. Canada will provide comments/approval within 30 calendar days (270 calendar days after contract award).

Following approval, one paper and one electronic copy of the final bilingual, formatted documentation shall be delivered to DND's official publication distribution depot no later than 360 calendar days after contract award.

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- 4.1.1.3 Updates to either the operator or maintenance/repair manuals of the transceivers for the duration of the contract shall be provided in electronic format per paragraph 4.3 to the TA.
- 4.1.2 Each UHF radio transceiver shall be provided with all necessary software/firmware and enduring licenses required for their installation, configuration, operation, and control/management.
- 4.1.2.1 The Contractor shall provide all relevant software/firmware updates for the equipment for the duration of the Contract.
- 4.1.3 Each UHF radio transceiver shall be provided with application software for remote control, monitoring, and user pre-set settings of the transceiver.
- 4.1.3.1 The Contractor shall provide all relevant software/firmware updates for the remote control application for the duration of the Contract.
- 4.1.4 The UHF radio transceivers shall be provided with all the necessary special tools and configuration instructions required for their installation, configuration, operation, and control/management.

4.2 Training

The OEM shall deliver one (1) factory training course covering the operation and basic repair and maintenance of the UHF radio transceivers. This course will be referred to as Initial Cadre Training (ICT).

The Contractor may assume that all DND Operators and Maintenance Technicians have backgrounds in electronics and transmission theory, and have related field experience. Technicians shall be assumed to have college graduate electronics technologist diplomas. They possess comprehensive knowledge of the theories and principals of electronics, communication, informatics, and basic electronic engineering techniques.

- 4.2.1 The Contractor shall provide ICT at its facilities for a maximum of 12 trainees of sufficient duration to cover the in-depth operation, troubleshooting, and repair of the UHF radios. Repair training shall be limited to the Lowest Replaceable Unit – LRU level of troubleshooting, replacement, and configuration.
- 4.2.1.1 The Contractor shall provide a detailed course syllabus and outline to the TA for approval at least 60 calendar days in advance of any agreed course dates. The actual course dates shall be mutually agreed between the TA and the Contractor.

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4.2.1.2 The Contractor shall ensure that ICT includes adequate prime equipment, test gear, and hardcopy technical manuals/training materials to maximize hands-on experience for individual trainees.

4.2.2 All training documentation shall be provided in electronic format per paragraph 4.3 to the TA for use in the development of internal training. DND reserves the rights to reproduce/modify the training materials to facilitate its own internal training curriculum.

4.2 Technical Data Packages (TDP)

The introduction of any new equipment requires the provision of technical data and support documents that relate to life cycle management.

All TDP deliverables shall be provided in both hard and electronic copy for possible adoption as Canadian Forces Technical Orders (CFTO) per Reference 3.2.

All electronic copies of the TDP shall be in the format as listed in the following table. Alternate formats may be acceptable if agreed to by the TA:

DATA TYPE	ELECTRONIC FORMAT
Text	Microsoft Word 2003
Graphics	Microsoft Power Point 2003 SR-1, AutoCAD 2008, Microsoft Visio 2003
Spreadsheets	Microsoft Excel 2003
Database	Microsoft Access 2003
Schedule	Microsoft Project 2003
Drawings	AutoCAD 2008, Microsoft Visio 2003

4.3.1 The Contractor shall provide a technical data sheet containing basic equipment specifications, performance data, etc required for cataloguing the UHF transceiver in the Canadian Government Cataloguing System (CGCS) within 30 calendar days after contract award.

4.3.2 The Contractor shall produce and deliver to the TA a high-level breakdown of the transceiver to the Lowest Replaceable Unit (LRU) level no later than 90 calendar days after contract award. Basic technical data similar to paragraph 4.3.1 is required for each LRU.

4.3.3 The Contractor shall deliver a proposed planned Maintenance Schedule for the transceiver to the TA no later than 90 calendar days after contract award.

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4.4 Recommended Spare Parts List (RSPL)

In order to ensure the UHF transceiver's operational availability, spare parts and assemblies (LRUs) are typically held both onboard ships and at depots. Based on OEM expert knowledge, the Contractor shall recommend items and quantities to be held in these locations. Quantity and delivery of spare parts may be negotiated after contract award.

4.4.1 The Contractor shall provide a RSPL no later than 90 days after contract award. The spare parts list shall contain, but not necessarily limited to the following information:

- a. Item Name;
- b. Manufacturer/Cage Code;
- c. Manufacturer Model Number/Part Number;
- d. Item Description
- e. Quantity recommended per transceiver;
- f. Quantity recommended for spares depot;
- g. NATO stock number (NSN) if available;
- h. CTAT/ITAR/Export Restriction applicability;
- i. Price per unit; and
- j. Specific packaging, storage, handling, and transportation requirements.

4.5 Project Management

In the event that Contract Review/Management meetings are required, the Contractor shall provide the venue and personnel in support of these meetings as well as minutes/action items at no additional cost to Canada.

5.0 SHIPPING AND DELIVERY INFORMATION

The shipping location, addresses and consignee information is listed below:

Location	Consignee Code	Shipping Address
Canadian Forces Base (CFB) Halifax Supply	7HAB	Department of National Defence Maritime Forces Atlantic Dockyard Building D40, Door 6 Attn: CFB Halifax 2601 Barrington Street Halifax, Nova Scotia B3K 5X5 Tel: 902-427-2201

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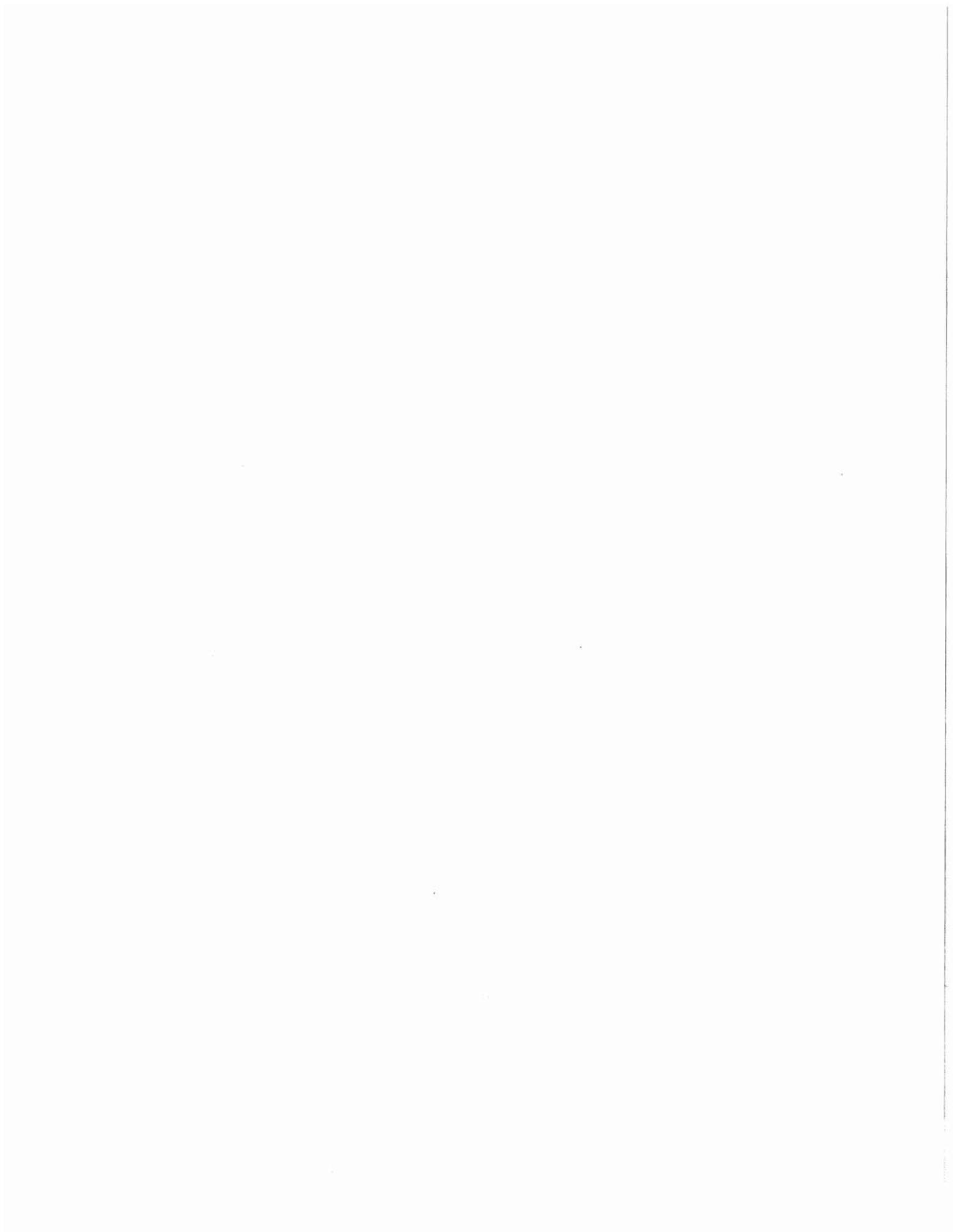
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CFB Supply Esquimalt	2BAB	CFB Esquimalt 17000 STN Forces BIS, Building D199, Room 105B Attn: Victoria, British Columbia V9A 7N2 Tel: 250-363-4878
Canadian Forces Publication Depot	W2486	Commanding Officer Canadian Forces Publication Depot 2140 Thurston Drive Ottawa, Ontario Canada K1A 0K7
Technical Authority (TA)		MAIL: NDHQ (DNCS 2) MGen Pearkes Bldg. Ottawa, Ontario, Canada K1A 0K2 Attention: DNCS 2-3-2 COURRIER: Department of National Defence Louis St Laurent Building 455 Boul. de la Carrière Gatineau, Quebec Canada J8Y 6P5 Attention: DNCS 2-3-2



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Appendix 1 to Annex B – TSOR

TECHNICAL STATEMENT OF REQUIREMENTS (TSOR)

FOR

ULTRA HIGH FREQUENCY (UHF) TRANSCEIVERS

FOR THE

SUB NET RELAY (SNR) PROJECT

Department of National Defence (DND)
Director General Maritime Equipment Program Management (DGMEPM)
Director Naval Combat Systems 2 (DNCS 2)

1.0 Background

- 1.1 Canadian Naval operations are heavily dependent on IP communications over satellite links. These connections are expensive, not easily available and impractical in some environments. The ability to pass IP traffic directly between ships in geographic proximity is a highly desirable capability to off load dependency on SATCOM links. Subnet Relay is a technology that provides for effective Line of Sight (LOS), Extended Line of Sight (ELOS) and Beyond Line of Sight (BLOS) networking capability.
- 1.2 A SNR communication node comprises a Network Controller, a high performance UHF Modem, and an UHF radio transceiver. Current radio equipment fitted in RCN warships are incapable of operating in the wide bandwidths required for high capacity IP traffic, hence new UHF radio transceivers are required to provide for wideband SNR capability.
- 1.3 Each UHF radio transceiver will function as a part of a SNR node in conjunction with one Rockwell Collins Very High Speed Modem (VHSM) 5000 and one Rockwell Collins Subnet Relay Controller (SNC) 2050. The transceiver to be procured will have a demonstrated track record of integration and successful operation with the current SNR system.

2.0 Scope

- 2.1 This TSOR defines the general and specific performance specifications for the UHF radio transceivers to be acquired.

3.0 General Requirements

- 3.1 Canada intends to acquire rack mountable, Commercial-off-the-Shelf (COTS), half-duplex UHF radio transceivers that have been proven and documented in field trials to provide the high performance narrowband (up to 25 KHz bandwidth) and wideband (up to 500 KHz bandwidth) RF connectivity required for SNR narrowband and high-data-rate (HDR) operation. Reports detailing successful operation at sea in a SNR network are a prerequisite to offering a candidate UHF radio transceiver. These report(s) shall be included as part of the bid submission.
- 3.2 Any candidate UHF radio transceiver shall be of Commercial-Off-the-Shelf (COTS) equipment.

- 3.3 The transceivers shall be mountable in a standard 19" rack.
- 3.4 The transceivers shall be of modular construction to permit rapid identification and replacement of faulty sub-assemblies.
- 3.5 The transceivers shall have Built-In-Test (BITE) capabilities that identify faulty modules and display recommended corrective action to end users. BITE results shall be provided and made accessible to an operator or technician both locally and remotely.

4.0 Technical Requirements

4.1 Interface Requirements

- 4.1.1 The transceiver shall be capable of interfacing with an external SubNet Relay modem via a 70 MHz IF up/down TX/RX converter interfaces.
- 4.1.2 The transceiver shall be capable of being controlled remotely via Ethernet, synchronous serial interface, and locally via an embedded display or monitor, keyboard and mouse.
- 4.1.3 The transceiver shall be capable of reporting the following performance parameters to an automated system through an Ethernet connection:
- Forward Power
 - Reflected Power
 - VSWR
 - Radio Power Levels
 - Receiver Sensitivity

4.2 Protocols

- 4.2.1 The transceiver shall be software upgradable to ensure new protocols and waveforms may be efficiently installed allowing DND to maintain interoperability with its allies.

4.3 Waveforms

- 4.3.1 The transceiver shall be capable of supporting 20 kHz, 25 kHz, 100 kHz and 500 kHz waveforms. The transceiver shall be capable of supporting Amplitude Modulated (AM), Frequency Modulated (FM), Phase-Shift-Keying (PSK) and Quadrature Amplitude Modulated (QAM) waveforms. The transceiver shall support the following standards:

- a. STANAG 4691 – Mobile Ad hoc Relay IP Network (MARLIN);
- b. STANAG 4205 – Technical Standards for Single Channel UHF Radio Equipment;
- c. MIL-STD-188-243 – Tactical Single Channel UHF Radio Communications;
- d. Programmable FSK;
- e. Line of Sight FM;
- f. Line of Sight AM

4.4 Environmental

4.4.1 All transceiver equipment shall be able to operate in a continuous unattended mode under the following sheltered environmental conditions:

- a. Ambient temperature: -10° C to +50° C
- b. Relative Humidity: 90% maximum (non-condensing)
- c. Altitude: Sea level to 3,000m

4.4.2 All transceiver equipment shall meet all technical and functional requirements following temporary storage or transportation under the following environmental conditions:

- a. Ambient Temperature: -40 to 55 deg. C
- b. Relative Humidity: 90% maximum non-condensing
- c. Altitude: sea level to 4,500 metres

4.4.3 The transceiver will be mounted in equipment racks co-located with a variety of other radio and satellite communication equipment. The transceiver shall be designed and manufactured to minimize susceptibility to stray Radio Frequency Interference (RFI) and to limit unintended RFI emissions.

4.5 Power

4.5.1 The transceiver shall be capable of operating using 115 - 230 VAC 60 Hz prime power.

4.6 AC Power Transients and Interruptions

4.6.1 The transceiver will use shipboard generated AC power characterized by occasional interruptions, "brown-outs" and/or transient voltage spikes. The UHF radio transceiver shall be designed to operate using this prime power without long-term damage or failure.

4.6.2 The transceiver shall return to its previous configurations and modes of operation after any power interruption.

4.7 Reparability/Reliability

4.7.1 The transceiver shall have a MTBF of 20,000 hours or greater. The Contractor shall identify how the MTBF is calculated and if it is supported by any field data.

4.7.2 The transceiver shall have an estimated MTTR (Mean Time to Repair) - including both diagnosis and repair of 30 minutes or less using repair-by-replacement modular circuit card assemblies.

4.8 Technical Specifications

4.8.1 The transceiver shall conform to the following minimum technical specifications:

Characteristic	Specification
Frequency Range	225 – 400 MHz
Channel Spacing	8.33 kHz, 12.5 kHz, and 25 kHz
Receiver Sensitivity	-90 dBm minimum
Frequency Temperature Stability	1.0 PPM
Transmit Power	30 watts AM, 100 watts FM
Demodulation Modes	LOS AM, LOS FM, FSK

4.9 Transceiver Controls and Read backs

4.9.1 The transceivers shall provide the following minimum controls and read back functions for the transceiver operator:

- a. Channel Selection
- b. RF Level Indicator
- c. Frequency Settings
- d. AGC
- e. BITE results
- f. Mode Selection
- g. Fault conditions

4.10 Physical Characteristics

4.10.1 The transceiver's dimensions shall not exceed eight rack units (8U).

4.10.2 The weight of the transceiver shall not exceed 30kg.

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4.11 Construction

- 4.11.1 The transceiver will be mounted in shock isolated equipment racks located in a protected, ventilated shipboard compartment. The transceiver shall be designed and manufactured to withstand onboard ship vibrations as specified in NATO STANAG 4138, or MIL-STD-810D Sinusoidal Vibration.
- 4.11.2 The transceiver shall be designed and manufactured to withstand Transit Drop shock as specified in MIL-STD-810D Procedure IV.

4.12 Modes of Operation

- 4.12.1 The transceiver shall contain a standby mode wherein the frequency settings are maintained at reduced AC power consumption.
- 4.12.2 The transceiver shall support Automatic Gain Control (AGC) on the RX path.
- 4.12.3 The transceiver shall support stable Transmit/Receive TDMA half-duplex mode operation.
- 4.12.4 The transceiver shall support user-programmable channels that are stored with AC power removed.
- 4.12.5 The transceiver shall provide an output power level control, such that the output power can be controlled and viewed by the operator.
- 4.12.6 The transceiver shall provide an output power limitation capability that will prevent the transceiver from exceeding a predetermined level as to prevent damage to components external to the transceiver.
- 4.12.7 The transceiver shall display the transmit signal strength (in dBm or W).
- 4.12.8 The transceiver shall incorporate full power amplifier protection in the event of high VSWR due to mismatch, thermal overload, and or lightning.
- 4.12.9 The transceiver shall display the receive signal strength (in dBm).
- 4.12.10 The transceiver shall maintain Frequency Stability 1.0 PPM or better per day at a constant temperature.

4.13 Interface Characteristics

- 4.13.1 The transceiver shall have two (2) 70 MHz IF ports: one for transmit and one for receive.

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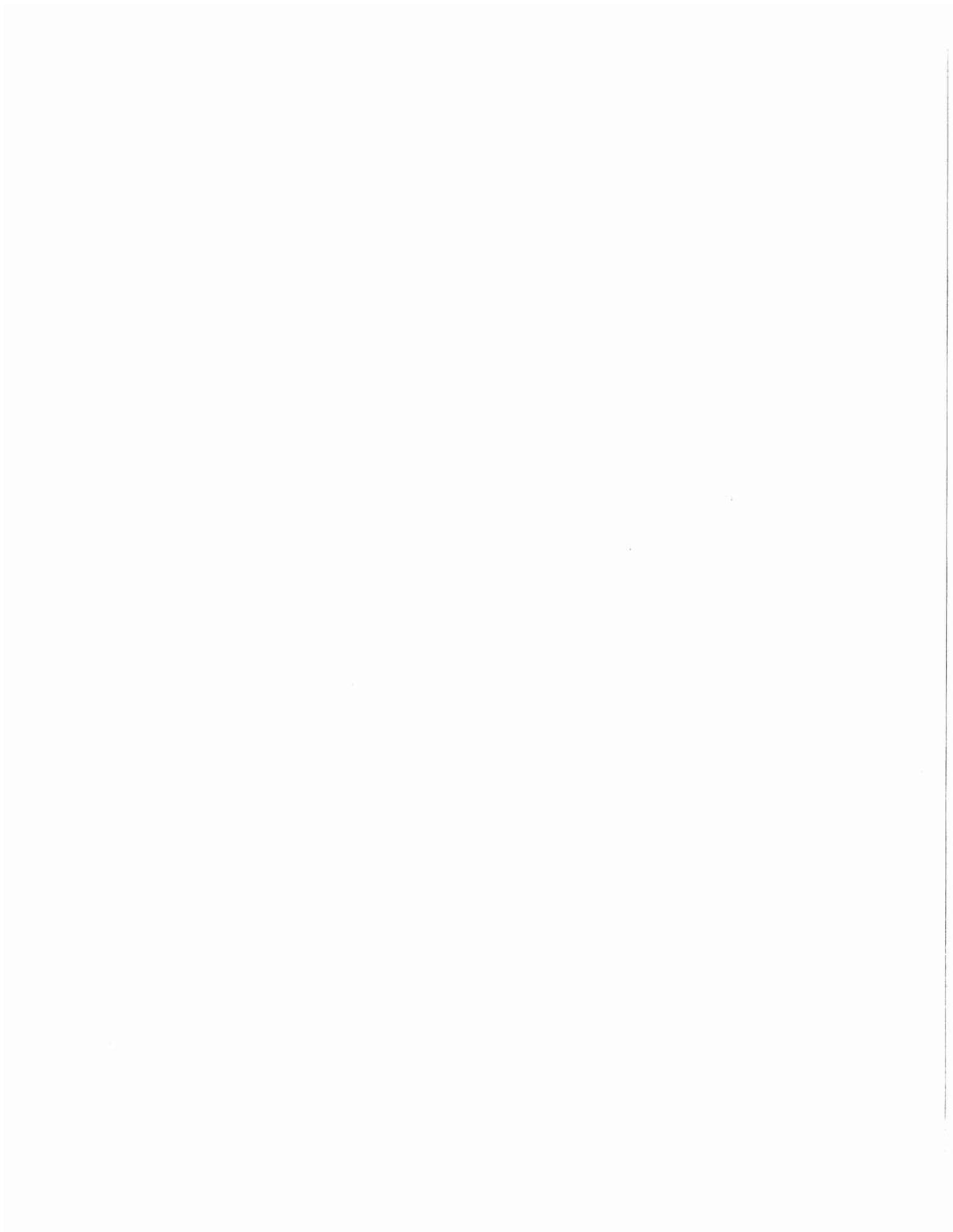
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- 4.13.2 The transceiver shall have one (1) 50 Ohm N type female antenna connection configured for transmit and receive on a single antenna
- 4.13.3 The transceiver shall incorporate one Internal Loudspeaker with volume control and/or one (1) External Loudspeaker output capable of driving an 8Ω speaker.
- 4.13.4 The transceiver shall incorporate, at a minimum, one (1) Local Headphone output capable of delivering up to +10 dBm into 600Ω.
- 4.13.5 The transceiver shall incorporate, at a minimum, one (1) 1 MHz frequency reference input from an external frequency device.

4.14 Local and Remote User Interface Characteristics

- 4.14.1 The transceiver shall incorporate a front panel display to facilitate user operation in Local mode.
- 4.14.2 The contractor shall provide software for remote control, monitoring, and local user preset settings of the transceiver.
- 4.14.3 The transceiver shall incorporate a remote control interface for the control, use, storage of settings, and monitoring of status of the transceiver based on an Ethernet interface and protocol.
- 4.14.4 The transceiver shall have signal connectivity via industry standard such as RS-232, RS-422, MIL-STD-188C or other common industry standard.
- 4.14.5 The transceiver shall have Narrow Band voice and Wide Band data interfaces with the following characteristics: balanced 600 Ohm; -10 to +10 dBm input/output level, adjustable.



Annexe «G» - Critères d'évaluation techniques obligatoires					
Numéro	Référence	Spécification de la performance de l'émetteur-récepteur UHF	Conformité		Méthode d'évaluation de la conformité
			Oui	Non	
1	EDT, sect. 1.1.2; EBT, sect. 3.2	L'émetteur-récepteur radio UHF doit être un produit commercial.			Évaluation du contenu de la proposition lié aux documents techniques, au matériel utilisé sur le terrain, à la production d'information et à d'autres renseignements sur la proposition associés à l'état de la production
2	EDT, sect. 1.1.2; EBT, sect. 1.3 et 3.1	L'émetteur-récepteur radio UHF doit avoir fonctionné avec succès dans un nœud SNR maritime comprenant un modem à très grande vitesse (MTGV) Rockwell Collins 5000 et un contrôleur de relais de sous-réseau (SNC) Rockwell Collins 2050. Il doit aussi avoir interfacé avec ce nœud.			Évaluation du contenu de la proposition lié aux tests, aux essais et aux rapports d'expérience démontrant l'interfaçage, le fonctionnement et le transfert de données sur large bande réussis dans un réseau SNR maritime
3	EBT, sect. 3.3	L'émetteur-récepteur radio UHF doit pouvoir être installé sur un bâti ordinaire de 19 po.			Évaluation du contenu de la proposition lié à l'installation de l'émetteur-récepteur
4	EBT, sect. 3.4	L'émetteur-récepteur radio UHF doit avoir une configuration modulaire.			Évaluation du contenu de la proposition lié à la configuration de l'émetteur-récepteur
5	ET, sect. 4.1.3	L'émetteur-récepteur radio UHF doit être fourni avec les logiciels et les micrologiciels requis, de même que les licences nécessaires pour l'installation, la configuration, l'utilisation, ainsi que la			Évaluation du contenu de la proposition lié aux logiciels, aux micrologiciels et aux licences fournis
6	ET, sect. 4.1.4	L'émetteur-récepteur radio UHF doit être fourni avec les logiciels d'application pour commander l'appareil à distance, le surveiller et préréglé les paramètres de l'utilisateur.			Évaluation du contenu de la proposition lié à la commande à distance et à la surveillance
7	ET, sect. 4.1.5	L'émetteur-récepteur radio UHF doit être fourni avec les outils spéciaux et les instructions de configuration nécessaires à l'installation, à la configuration, à l'utilisation, ainsi qu'à la commande et à la gestion de			Évaluation du contenu de la proposition lié aux outils spéciaux et aux instructions fournis
8	EBT, sect. 3.5	L'émetteur-récepteur radio UHF doit comporter un dispositif de test intégré qui repère les modules défectueux et recommande des mesures correctives à l'utilisateur. Les résultats du test intégré à l'opérateur ou au technicien localement et à distance.			Évaluation du contenu de la proposition lié au dispositif de test intégré
9	EBT, sect. 4.1.1	L'émetteur-récepteur radio UHF doit pouvoir communiquer avec un modem SNR externe grâce à une interface de conversion TX/RX en liaison montante et descendante à une FI			Évaluation du contenu de la proposition lié à l'interface à une FI de 70 MHz
10	EBT, sect. 4.1.2	L'émetteur-récepteur radio UHF doit pouvoir être commandé à distance par Ethernet, par une interface série synchrone et localement à l'aide d'un afficheur (ou moniteur) et d'une souris intégrés.			Évaluation du contenu de la proposition lié à l'interface de commande à distance
11	EBT, sect. 4.1.3	L'émetteur-récepteur doit pouvoir transmettre les paramètres de performance à un système automatisé à l'aide d'une			Conformément aux spécifications du fournisseur
12	EBT, sect. 4.2.1	Les logiciels de l'émetteur-récepteur radio UHF doivent pouvoir être mis à jour de sorte que le MDN puisse utiliser les nouveaux protocoles et longueurs d'onde qui lui permettront de maintenir l'interopérabilité avec ses alliés.			Évaluation du contenu de la proposition lié à la capacité de mise à jour logicielle
13	EBT, sect. 4.3.1	L'émetteur-récepteur radio UHF doit pouvoir fonctionner aux fréquences suivantes : 20 kHz, 25 kHz, 100 kHz et 500 kHz.			Évaluation du contenu de la proposition lié à la capacité de fonctionnement sur large bande

Annexe «G» - Critères d'évaluation techniques obligatoires					
Numéro	Référence	Spécification de la performance de l'émetteur-récepteur UHF	Conformité		Méthode d'évaluation de la conformité
			Oui	Non	
14	EBT, sect. 4.3.1	L'émetteur-récepteur radio UHF doit pouvoir fonctionner sur des ondes modulées en amplitude (AM), modulées en fréquence (FM), modulées par déplacement de phase (PSK) et modulées en amplitude de quadrature (QAM). Il doit également respecter les normes suivantes : a. STANAG 4691 – Mobile Ad hoc Relay IP Network (MARLIN); b. STANAG 4205 – Normes techniques pour les matériels radioélectriques à voie unique à ondes décimétriques; c. MIL-STD-188-243 – Tactical Single Channel UHF Radio Communications; d. MDF (Modulation par déplacement de fréquence) programmable; e. FM (visibilité directe); f. AM (visibilité directe).			Conformément aux spécifications du fournisseur
15	EBT, sect. 4.4.1	L'émetteur-récepteur radio UHF doit pouvoir fonctionner sans surveillance de façon continue dans un environnement fermé présentant les conditions suivantes : a. température ambiante : entre -10 °C et 50 °C; b. humidité relative (sans condensation) : maximum de 90 %; c. altitude : entre le niveau de la mer et 3 000 m.			Évaluation du contenu de la proposition lié aux normes environnementales
16	EBT, sect. 4.4.2	L'émetteur-récepteur radio UHF doit respecter toutes les exigences techniques et fonctionnelles liées à l'entreposage temporaire ou au transport dans les conditions environnementales suivantes : a. température ambiante : entre -40 °C et 55 °C; b. humidité relative (sans condensation) : maximum de 90 %; c. altitude : entre le niveau de la mer et 4 500 m.			Évaluation du contenu de la proposition lié aux normes environnementales
17	EBT, sect. 4.4.3	L'émetteur-récepteur radio UHF sera installé sur un bâti où se trouvent divers autres appareils de communication radio et satellite. Il doit être conçu et fabriqué de façon à réduire au minimum le risque d'interférence aux fréquences radioélectriques (RFI) et les émissions involontaires de telles fréquences.			Évaluation du contenu de la proposition lié à la conception et à la performance sur le plan des RFI
18	EBT, sect. 4.5.1	L'émetteur-récepteur radio UHF doit pouvoir fonctionner avec une source principale d'alimentation de 115 à 230 V en courant alternatif 60 Hz.			Évaluation du contenu de la proposition lié à la source principale d'alimentation
19	EBT, sect. 4.6.1	L'émetteur-récepteur radio UHF sera alimenté en courant alternatif produit à bord des navires et caractérisé par d'occasionnelles interruptions, baisses de tension et/ou pointes de tension transitoire. Il doit être conçu pour fonctionner avec cette source principale d'alimentation sans dommage ni défaillance à long terme.			Évaluation du contenu de la proposition lié à la performance de l'alimentation

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Numéro	Référence	Spécification de la performance de l'émetteur-récepteur UHF	Conformité		Méthode d'évaluation de la conformité
			Oui	Non	
20	EBT, sect. 4.6.2	La configuration et le mode de fonctionnement d'origine de l'émetteur-récepteur radio UHF doivent être rétablis après une interruption de courant.			Évaluation du contenu de la proposition lié à la configuration de l'appareil après une interruption de courant
21	EBT, sect. 4.7.1	L'émetteur-récepteur radio UHF doit avoir une MTBF d'au moins 20 000 heures. L'entrepreneur doit préciser la méthode de calcul de la MTBF et indiquer si elle est fondée sur des données sur le terrain.			Évaluation du contenu de la proposition lié à la MTBF
22	EBT, sect. 4.7.2	L'émetteur-récepteur radio UHF doit avoir une DMR de 30 minutes ou moins (incluant le temps consacré au diagnostic et aux réparations) grâce à la réparation des cartes de circuit imprimé par remplacement.			Évaluation du contenu de la proposition lié à la DMR
23	EBT, sect. 4.8.1	L'émetteur-récepteur doit respecter les spécifications techniques énoncées dans le tableau.			Conformément aux spécifications du fournisseur
24	EBT, sect. 4.9.1	L'émetteur-récepteur doit offrir les fonctions de commandes et de relecture à l'opérateur, telles qu'elles sont précisées.			Conformément aux spécifications du fournisseur
25	EBT, sect. 4.10.1	Les dimensions de l'émetteur-récepteur ne doivent pas dépasser huit unités modulaires (8 U).			Évaluation du contenu de la proposition lié aux dimensions de l'appareil
26	EBT, sect. 4.10.2	Le poids de l'émetteur-récepteur ne doit pas dépasser 30 kg.			Évaluation du contenu de la proposition lié au poids de l'appareil
27	EBT, sect. 4.11.1	L'émetteur-récepteur radio UHF doit être conçu et fabriqué de manière à résister aux vibrations à bord des navires, conformément à la norme STANAG 4138 ou à la norme MIL-STD-810D sur les vibrations			Évaluation du contenu de la proposition lié à la conception et à la fabrication conformément aux exigences relatives aux vibrations à bord des navires
28	EBT, sect. 4.11.2	L'émetteur-récepteur radio UHF doit être conçu et fabriqué de manière à résister aux chocs et aux chutes, conformément à la norme MIL-STD-810D (procédure IV).			Évaluation du contenu de la proposition lié à la conception et à la fabrication conformément aux exigences relatives aux chocs
29	EBT, sect. 4.12.1	L'émetteur-récepteur doit intégrer un mode de veille selon lequel le réglage des fréquences est maintenu avec consommation réduite du courant alternatif.			Conformément aux spécifications du fournisseur
30	EBT, sect. 4.12.2	L'émetteur-récepteur doit autoriser la commande automatique de gain (CAG) sur la voie de réception.			Conformément aux spécifications du fournisseur
31	EBT, sect. 4.12.3	L'émetteur-récepteur radio UHF doit autoriser la réception et l'émission en mode AMRT semi-duplex.			Évaluation du contenu de la proposition lié au mode de fonctionnement de l'appareil
32	EBT, sect. 4.12.4	L'émetteur-récepteur doit accepter les canaux programmables par l'utilisateur, stockés hors tension.			Conformément aux spécifications du fournisseur
33	EBT, sect. 4.12.5	L'émetteur-récepteur doit intégrer une commande du niveau de puissance de sortie de sorte que la puissance de sortie puisse être contrôlée et affichée par l'opérateur.			Conformément aux spécifications du fournisseur
34	EBT, sect. 4.12.6	L'émetteur-récepteur doit intégrer une fonction de limitation de la puissance de sortie l'empêchant de dépasser un seuil prédéterminé afin d'éviter tout dommage aux composants externes.			Conformément aux spécifications du fournisseur
35	EBT, sect. 4.12.7	L'émetteur-récepteur doit afficher la force du signal d'émission (en dBm ou en W).			Conformément aux spécifications du fournisseur

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			Oui	Non	
36	EBT, sect. 4.12.8	L'émetteur-récepteur doit intégrer une protection complète de l'amplificateur de puissance en cas de ROS élevé dû à une désadaptation, à une surcharge thermique ou à la foudre.			Conformément aux spécifications du fournisseur
37	EBT, sect. 4.12.9	L'émetteur-récepteur doit afficher la force du signal de réception (en dBm).			Conformément aux spécifications du fournisseur
38	EBT, sect. 4.12.10	L'émetteur-récepteur radio UHF doit maintenir une stabilité de fréquence égale ou supérieure à 1,0 ppm par jour à température constante.			Évaluation du contenu de la proposition lié à la stabilité de fréquence de l'appareil
39	EBT, sect. 4.13.1	L'émetteur-récepteur radio UHF doit être muni de deux ports à une FI de 70 MHz, soit un pour l'émission et un pour la réception.			Évaluation du contenu de la proposition lié à l'interface à une FI de 70 MHz
40	EBT, sect. 4.13.2	L'émetteur-récepteur radio UHF doit avoir une connexion d'antenne femelle de type N de 50 Ω capable d'émettre et de recevoir sur une seule antenne.			Évaluation du contenu de la proposition lié à la connexion d'antenne
41	EBT, sect. 4.13.3	L'émetteur-récepteur doit intégrer un haut-parleur interne avec commande du volume et/ou une sortie pour haut-parleur externe de 8 Ω.			Conformément aux spécifications du fournisseur
42	EBT, sect. 4.13.4	L'émetteur-récepteur doit intégrer, au minimum, une sortie de casque locale capable de fournir jusqu'à 10 dBm dans 600 Ω.			Conformément aux spécifications du fournisseur
43	EBT, sect. 4.13.5	L'émetteur-récepteur doit intégrer, au minimum, une entrée de référence de fréquence à 1 MHz à partir d'un appareil de fréquence externe.			Conformément aux spécifications du fournisseur
44	EBT, sect. 4.14.1	L'émetteur-récepteur doit intégrer un affichage sur la face avant pour en faciliter l'utilisation en mode local.			Conformément aux spécifications du fournisseur
45	EBT, sect. 4.14.2	L'entrepreneur doit fournir les logiciels pour commander l'émetteur-récepteur à distance, le surveiller et préréglé les paramètres de l'utilisateur local.			Conformément aux spécifications du fournisseur
46	EBT, sect. 4.14.3	L'émetteur-récepteur doit intégrer une interface de commande à distance pour le contrôle, l'utilisation et la mémorisation des paramètres, ainsi que la surveillance de l'état de l'émetteur-récepteur fondée sur l'interface et le protocole Ethernet.			Conformément aux spécifications du fournisseur
47	EBT, sect. 4.14.4	L'émetteur-récepteur doit avoir une connectivité conforme aux normes de l'industrie, par exemple RS-232, RS-422, MIL-STD-188C ou une autre norme habituelle de l'industrie.			Conformément aux spécifications du fournisseur
48	EBT, sect. 4.14.5	L'émetteur-récepteur doit avoir une interface vocale à bande étroite et une interface de données à large bande présentant les caractéristiques suivantes : équilibrage à 600 Ω; niveaux d'entrée et de sortie réglables de -10 à 10 dBm.			Conformément aux spécifications du fournisseur