



**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**
11 Laurier St./11, rue Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau
Québec
K1A0S5

**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 GPS Anti-Jam Antenna System Military Pattern GPS Anti-jam Antenna System for CH146	
Solicitation No. - N° de l'invitation W8475-18GPS3/A	Date 2020-11-18
Client Reference No. - N° de référence du client 6000433544	
GETS Reference No. - N° de référence de SEAG PW-\$\$BG-002-27985	
File No. - N° de dossier 002bg.W8475-18GPS3	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Standard Time EST on - le 2021-01-12 Heure Normale du l'Est HNE	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Courville, Alain	Buyer Id - Id de l'acheteur 002bg
Telephone No. - N° de téléphone (819) 939-4417 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE 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

CF18 Life Extension/Prolongation de vie CF18
455 Boulevard de la Carrière-8NB44
Gatineau
Québec
K1A0S5

Delivery Required - Livraison exigée See Herein – Voir ci-inclus	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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PART 1 - GENERAL INFORMATION

1.1 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 and Additional Information: includes the certifications and additional information 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.

The Annexes include the Statement of Work, the Basis of Payment, the Security Requirements Checklist, the Evaluation Plan, the Electronic Payment Instruments, the Federal Contractors Program for Employment Equity – Certification and the DND 626 Task Authorization Form.

1.2 Summary

The Department of National Defence, has a requirement for the procurement and integration of a GPS anti-jam system for its tactical helicopter fleets. The procurement quantity is 100, with either of the following two options: A) to procure up to 15 additional spares; or B) to procure up to 46 additional spares, over a contract period of four years. This will include all relevant technical documentation, the provision of Repair and Overhaul (R&O) and Engineering Support for the systems on an as-and-when-requested basis. The delivery point for this procurement will be 25 Canadian Forces Supply Depot (CFSD), Montreal, Quebec.

1.3 Security Requirements

There are security requirements associated with this requirement. For additional information, consult Part 6 - Security, Financial and Other Requirements, and Part 7 - Resulting Contract Clauses. For more information on personnel and organization security screening or security clauses, Bidders should refer to the [Contract Security Program](http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html) of Public Works and Government Services Canada (<http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html>) website.

1.4 Federal Contractors Program for Employment Equity

The Federal Contractors Program (FCP) for employment equity applies to this procurement; refer to Part 5 – Certifications and Additional Information, Part 7 - Resulting Contract Clauses and the annex F titled Federal Contractors Program for Employment Equity – Certification.

1.5 ePost Connect service

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

1.6 Debriefings

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 from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

2.1 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) (<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](#) (2020-05-28) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 360 days

2.2 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 in the bid solicitation.

Note: For bidders choosing to submit using epost Connect for bids closing at the Bid Receiving Unit in the National Capital Region (NCR) the email address is:

tpsgc.dgareceptiondessaoumissions-abbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca

Note: Bids will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2003](#), or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.

2.3 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 10 calendar days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

2.4 Enquiries - Bid Solicitation

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

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

2.5 Applicable Laws

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

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

2.6 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
 - Office of the Procurement Ombudsman (OPO)
 - Canadian International Trade Tribunal (CITT)
- (c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications

If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:

Section I: Technical Bid (one hard copy)
Section II: Financial Bid (one hard copy)
Section III: Certifications (one hard copy)

If the Bidder is simultaneously providing copies of its bid using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other copies.

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 hard copy 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](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). 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 explain and demonstrate their capability in a thorough, concise and clear manner for carrying out the work.

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.

Supporting Documentation (SD) - Bidders must demonstrate their compliance with the mandatory technical requirements in the SOW by providing supporting documentation. Supporting Documentation must be documents such as technical brochures, drawings, specifications, etc. detailing the performance capability of the equipment being proposed.

Note: As per Standard Instructions - Goods or Services - Competitive Requirements 2003 (2020-05-28), Article 05, Para 7. "Unless specified otherwise in the bid solicitation, Canada will evaluate only the documentation provided with a bidder's bid. Canada will not evaluate information such as references to Web site addresses where additional information can be found, or technical manuals or brochures not submitted with the bid."

Annex D "Evaluation Plan" will be used by Canada to determine compliance with each mandatory technical requirement.

By providing a bid, the Bidder is confirming it is in full compliance with each mandatory technical requirements in the SOW and as identified in Annex D - Evaluation Plan.

Section II: Financial Bid

3.1.1 Bidders must submit their financial bid in accordance with the Basis of Payment in Annex B.

3.1.2 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex "E" Electronic Payment Instruments, to identify which ones are accepted.

If Annex "E" Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.3 Exchange Rate Fluctuation

The requirement does not offer exchange rate fluctuation risk mitigation. Requests for exchange rate fluctuation risk mitigation will not be considered. All bids including such provision will render the bid non-responsive.

3.1.4 Pricing

The Bidders must provide firm prices, which must remain valid for 360 days after solicitation close, in accordance with the requirements detailed in Annex B,

The Bidders must provide firm prices for the optional quantities that must remain valid for the duration of the contract term, if exercised.

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Management Criteria

The mandatory technical criteria are identified and reflected in Annex D - Evaluation Plan Table 1 and 2.

4.1.1.2 Point Rated Management Criteria

The point rated technical criteria are identified in Annex D - Evaluation Plan Table 3 and 4.

4.1.2 Financial Evaluation

4.1.2.1 SACC Clause [A0222T](#) (2014-06-26) Evaluation of Price - Canadian/Foreign Bidders

The price of the bid will be evaluated as follows:

- a. Canadian-based bidders must submit firm prices, Canadian customs duties and excise taxes included, and Applicable Taxes excluded.
- b. foreign-based bidders must submit firm prices, Canadian customs duties, excise taxes and Applicable Taxes excluded. Canadian customs duties and excise taxes payable by Canada will be added, for evaluation purposes only, to the prices submitted by foreign-based bidders.

Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.

Although Canada reserves the right to award the Contract either on an FOB plant or FOB destination, Canada requests that bidders provide prices FOB their plant or shipping point and FOB destination. Bids will be assessed on an FOB destination basis.

For the purpose of the bid solicitation, bidders with an address in Canada are considered Canadian-based bidders and bidders with an address outside of Canada are considered foreign-based bidders.

4.1.2.2 Evaluated Price

The Evaluated Price will be as per in Annex B.

4.2 Basis of Selection

4.2.1 Highest Combined Rating of Technical Merit and Price

1. To be declared responsive, a bid must:
 - a. comply with all the requirements of the bid solicitation; and
 - b. meet all mandatory criteria;
2. Bids not meeting (a) or (b) will be declared non-responsive.
3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 70% for the technical merit (Performance 40% and Platform Integration 30%) and 30% for the price.
4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 70%.
5. To establish the pricing score, each responsive bid will be scored, as per table 5 in Annex D, against the lowest evaluated price and the ratio of 30%.
6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.
7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.

The table 6 in Annex D illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 70/30 ratio of technical merit and price, respectively.

PART 5 – CERTIFICATIONS

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, 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 made knowingly or unknowingly, 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 and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the Integrity declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame specified will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 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 available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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 titled 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.

PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

6.1 Security Requirements

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 sites must meet the security requirements 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 refer to the [Contract Security Program](http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html) of Public Works and Government Services Canada (<http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html>) website.

6.2 Financial Capability

SACC *Manual* clause [A9033T](#) (2012-07-16) Financial Capability are incorporated by reference into and form part of the bid solicitation.

6.3 Other Requirements

6.3.1 Controlled Goods Requirement

SACC *Manual* clause [A9130T](#) (2019-11-28) Controlled Goods Program are incorporated by reference into and form part of the bid solicitation.

PART 7 - RESULTING CONTRACT CLAUSES

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

7.1 Statement of Work

The Contractor must perform the Work in accordance with the Statement of Work at Annex "A".

7.1.1 Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex A of the Contract under the same conditions and at the prices and/or rates 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 at any time before the expiry of the Contract by sending a written notice to the Contractor.

7.1.2 Task Authorization

The Work or a portion of the Work to be performed under the Contract will be on an "as and when requested basis" using a Task Authorization. The Work described in the Task Authorization must be in accordance with the scope of the Contract.

7.1.2.1 Task Authorization Process

1. The Procurement Authority will provide the Contractor with a description of the task using the "DND 626, Task Authorization Form" specified in Annex E.
2. The Task Authorization will contain the details of the activities to be performed, a description of the deliverables, and a schedule indicating completion dates for the major activities or submission dates for the deliverables. The Task Authorization will also include the applicable basis(bases) and methods of payment as specified in the Contract.
3. The Contractor must provide the Procurement Authority, within 10 calendar days of its receipt, the proposed total estimated cost for performing the task and a breakdown of that cost, established in accordance with the Basis of Payment specified in the Contract.
4. The Contractor must not commence work until a Task Authorization authorized by the Procurement Authority has been received by the Contractor. The Contractor acknowledges that any work performed before a Task Authorization has been received will be done at the Contractor's own risk.

7.1.2.2 Periodic Usage Reports - Contracts with Task Authorizations

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

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

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

The quarterly periods are defined as follows:

1st quarter: April 1 to June 30;

2nd quarter: July 1 to September 30;

3rd quarter: October 1 to December 31; and

4th quarter: January 1 to March 31.

The data must be submitted to the Contracting Authority no later than 15 calendar days after the end of the reporting period.

Reporting Requirement- Details

A detailed and current record of all authorized tasks must be kept for each contract with a task authorization process. This record must contain:

For each authorized task:

- i. the authorized task number or task revision number(s);
- ii. a title or a brief description of each authorized task;
- iii. the total estimated cost specified in the authorized Task Authorization of each task, exclusive of Applicable Taxes;
- iv. the total amount, exclusive of Applicable Taxes, expended to date against each authorized task;
- v. the start and completion date for each authorized task; and
- vi. the active status of each authorized task, as applicable.

For all authorized tasks:

- i. the amount (exclusive of Applicable Taxes) specified in the contract (as last amended, as applicable) as Canada's total liability to the contractor for all authorized TAs; and
- ii. the total amount, exclusive of Applicable Taxes, expended to date against all authorized TAs.

7.1.2.3 Task Authorization - Department of National Defence

The administration of the Task Authorization process will be carried out by DAP 4-2-7. This process includes monitoring, controlling and reporting on expenditures of the contract with task authorizations to the Contracting Authority.

7.2 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) (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

7.2.1 General Conditions

[2030](#) (2020-05-28), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract.

7.3 Security Requirements

- 7.3.1** The following security requirements (SRCL and related clauses provided by the Contract Security Program) apply and form part of the Contract.

The Canadian Designated Security Authority (Canadian DSA) for industrial security matters in Canada is the Industrial Security Sector (ISS), Public Works and Government Services Canada (PWGSC), administered by International Industrial Security Directorate (IISD), PWGSC. The Canadian DSA is the authority for confirming Contractor/Subcontractor compliance with the security requirements for foreign suppliers. The following security requirements apply to the foreign recipient Contractor/Subcontractor incorporated or authorized to do business in a jurisdiction other than Canada and delivering outside of Canada the services listed and described in the subsequent contract/subcontract.

1. The Foreign recipient Contractor/Subcontractor must be from a Country within the North Atlantic Treaty Organization (NATO), the European Union (EU) or from a country with which Canada has an international bilateral security instrument. The Contract Security Program (CSP) has international bilateral security instruments with the countries listed on the following PWGSC website:

<http://www.tpsqc-pwgsc.gc.ca/esc-src/international-eng.html>

2. The Foreign recipient Contractor/Subcontractor must, at all times during the performance of the contract/subcontract, hold an equivalence to a valid Designated Organization Screening (DOS), issued by the Canadian DSA as follows:
 - i. The Foreign recipient Contractor/Subcontractor must provide proof that they are incorporated or authorized to do business in their jurisdiction.

- ii. The Foreign recipient Contractor/Subcontractor must not begin the work, services or performance until the Canadian Designated Security Authority (DSA) is satisfied that all contract security requirement conditions have been met. Canadian DSA confirmation must be provided, in writing, to the foreign recipient Contractor/Subcontractor in an Attestation Form, to provide confirmation of compliance and authorization for services to be performed.
- iii. The Foreign recipient Contractor/Subcontractor must identify an authorized Contract Security Officer (CSO) and an Alternate Contract Security Officer (ACSO) (if applicable) to be responsible for the overseeing of the security requirements, as defined in this contract. This individual will be appointed by the proponent foreign recipient Contractor's/Subcontractor's Chief Executive officer or Designated Key Senior Official, defined as an owner, officer, director, executive, and or partner who occupy a position which would enable them to adversely affect the organization's policies or practices in the performance of the contract/subcontract.
- iv. The Foreign recipient Contractor/Subcontractor must not permit access to Canadian restricted sites, except to its personnel subject to the following conditions:
 - a. Personnel have a need-to-know for the performance of the contract/subcontract;
 - b. Personnel have been subject to a Criminal Record Check, with favourable results, from a recognized governmental agency or private sector organization in their country as well as a Background Verification, validated by the Canadian DSA;
 - c. The Foreign recipient Contractor/Subcontractor must ensure that personnel provide consent to share results of the Criminal Record and Background Checks with the Canadian DSA and other Canadian Government Officials, if requested; and
 - d. The Government of Canada reserves the right to deny access to Canadian restricted sites to a foreign recipient Contractor/Subcontractor for cause.
3. CANADA PROTECTED information/assets provided or generated pursuant to this contract/subcontract must not be further provided to a third party Foreign recipient Subcontractor unless:
 - a. written assurance is obtained from the Canadian DSA to the effect that the third-party Foreign recipient Subcontractor has been approved for access to CANADA PROTECTED information/assets by the Canadian DSA; and
 - b. written consent is obtained from the Canadian DSA, if the third-party Foreign recipient Subcontractor is located in a third country.
4. The foreign recipient Contractor/Subcontractor requiring access to Canadian restricted sites, under this contract/subcontract, must submit a Request for Site Access to the Chief Security Officer of the Department of National Defence Canada.
5. In the event that a Foreign recipient Contractor/Subcontractor is chosen as a supplier for this contract/subcontract, subsequent country-specific foreign security requirement clauses must be generated and promulgated by the Canadian DSA, and provided to the Government of Canada Contracting Authority, to ensure compliance with the security provisions, as defined by the Canadian DSA, in relation to equivalencies.
6. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of the Canadian DSA.
7. All Subcontracts awarded to a third party foreign recipient are NOT to be awarded without the prior written permission of the Canadian DSA in order to confirm the security requirements to be imposed on the subcontractors.

8. All Subcontracts awarded by a third party foreign recipient are NOT to be awarded without the prior written permission of the Canadian DSA in order to confirm the security requirements to be imposed on the subcontractors.
9. The Foreign recipient Contractor/Subcontractor must comply with the provisions of the Security Requirements Check List attached at Annex C.

7.4 Term of Contract

7.4.1 Period of the Contract

The period of the Contract is from date of Contract to 28 February 2025 inclusive.

7.4.2 Delivery Date

All the deliverables must be received on or before 1 February 2023.

7.4.3 Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to two additional one year period(s) 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 90 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.

7.4.4 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified below:

25 Canadian Forces Supply Depot
CFB Montreal
6363 Notre-Dame East
Montreal QC
H1N 2E9
Canada

7.5 Authorities

7.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Alain Courville
Title: Supply Team Leader
Public Works and Government Services Canada, Acquisitions Branch
Directorate: Aerospace Equipment Program
Address: 455 de la Carrière, Gatineau, Québec K1A 0K2
Telephone: 819-939-4417
E-mail address: alain.courville@tpsgc-pwgsc.gc.ca

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

7.5.2 Procurement Authority

The Procurement Authority for the Contract is: **(will be inserted at contract award)**

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: ____ - ____ - ____
Facsimile: ____ - ____ - ____
E-mail address: _____

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

7.5.3 Technical Authority

The Technical Authority for the Contract is: **(will be inserted at contract award)**

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: ____ - ____ - ____
Facsimile: ____ - ____ - ____
E-mail: _____

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.

7.5.4 Contractor's Representative **(To Be Filled Out By Contractor)**

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: _____ - _____ - _____
Facsimile: _____ - _____ - _____

E-mail address: _____

7.6 Payment

7.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid as specified in Annex B for a cost of \$ _____ (**inserted at contract award**). Customs duties are included and Applicable Taxes are extra.

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

7.6.1.2 Basis of payment: Individual task authorizations

The Contractor will be paid for the Work specified in the authorized task authorization, in accordance with the Basis of payment at Annex B.

Canada's liability to the Contractor under the authorized task authorization must not exceed the limitation of expenditure specified in the authorized task authorization. Custom duties are excluded and Applicable Taxes are extra.

No increase in the liability of Canada or in the price of the Work specified in the authorized task authorization resulting from any design changes, modifications or interpretations of the Work will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been authorized, in writing, by the Contracting Authority before their incorporation into the Work.

7.6.1.3 Limitation of Expenditure - Cumulative Total of all Task Authorizations

1. Canada's total liability to the Contractor under the Contract for all authorized Task Authorizations, inclusive of any revisions, must not exceed the sum of \$ _____ (**Inserted at Contract Award**). Customs duties are excluded and Applicable Taxes are extra.
2. No increase in the total liability of Canada will be authorized or paid to the Contractor unless an increase has been approved, in writing, by the Contracting Authority.
3. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:
 - a. when it is 75 percent committed, or
 - b. four (4) months before the contract expiry date, or
 - c. as soon as the Contractor considers that the sum is inadequate for the completion of the Work required in all authorized Task Authorizations, inclusive of any revisions, whichever comes first.
4. 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.

7.6.1.4 Task Authorization Limit

The Procurement Authority may authorize individual task authorizations up to a limit of \$_____ **(inserted at contract award)**, Applicable Taxes included, inclusive of any revisions.

Any task authorization to be issued in excess of that limit must be authorized by the Procurement Authority and Contracting Authority before issuance.

7.6.2 Multiple Payments

SACC *Manual* clause [H1001C](#) (2008-05-12) Multiple Payments, apply to and form part of the Contract.

7.6.3 Taxes - Foreign-based Contractor

SACC *Manual* clause [C2000C](#) (2007-11-30) Taxes - Foreign-based Contractor, apply to and form part of the Contract.

7.6.4 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s): **(Will be as per Annex E response)**

- a. Direct Deposit (Domestic and International);
- b. Electronic Data Interchange (EDI);
- c. Wire Transfer (International Only);

7.7 Invoicing Instructions

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 by:

- a. a copy of time sheets to support the time claimed;
- b. a copy of the release document and any other documents as specified in the Contract;
- c. a copy of the invoices, receipts, vouchers for all direct expenses, and all travel and living expenses;

Invoices must be distributed as follows:

- a. The original and one (1) copy must be forwarded to the following address for certification and payment.

(Inserted at Contract Award)

- b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

7.8 Certifications and Additional Information

7.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing

additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

7.8.2 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 Employment and Social Development Canada (ESDC)-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 ESDC will constitute the Contractor in default as per the terms of the Contract.

7.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____ (*name of province or territory as specified by the Bidder in its bid, if applicable*).

7.10 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) the general conditions 2030 (2020-05-28), General Conditions - Higher Complexity – Goods;
- (c) Annex A, Statement of Work;
- (d) Annex B, Basis of Payment;
- (e) Annex C, Security Requirements Check List
- (f) the signed Task Authorizations (including all of its annexes, if any); and
- (g) the Contractor's bid dated _____, "as clarified on _____" **or** "as amended on _____".

7.11 Defence Contract

SACC Manual clause [A9006C](#) (2012-07-16) Defence Contract, apply to and form part of the Contract.

7.12 Canadian Forces Site Regulations

SACC Manual clause [A9062C](#) (2011-05-16) Canadian Forces Site Regulations, apply to and form part of the Contract.

7.13 Controlled Goods Program

SACC Manual clause [A9131C](#) (2014-11-27), Controlled Goods Program, apply to and form part of the Contract.

7.14 Shipment of Dangerous Goods/Hazardous Products

SACC Manual clause [B1505C](#) (2016-01-28), Shipment of Dangerous Goods/Hazardous Products, apply to and form part of the Contract.

7.15 United States Military Specifications and Standards

SACC *Manual* clause [B4019C](#) (2015-02-25) United States Military Specifications and Standards, apply to and form part of the Contract.

7.16 Military Nomenclature

SACC *Manual* clause [B4043C](#) (2016-01-28) Military Nomenclature, apply to and form part of the Contract.

7.17 Controlled Goods

SACC *Manual* clause [B4060C](#) (2011-05-16), Controlled Goods, apply to and form part of the Contract.

7.18 North Atlantic Treaty Organization Codification - Data Requirements

SACC *Manual* clause [B4061C](#) (2008-05-12) North Atlantic Treaty Organization Codification - Data Requirements, apply to and form part of the Contract.

7.19 Excess Goods

SACC *Manual* clause [B7500C](#) (2006-06-16) Excess Goods, apply to and form part of the Contract.

7.20 Canada's Obligation - Portion of the Work - Task Authorizations

SACC *Manual* clause [B9031C](#) (2011-05-16) Canada's Obligation - Portion of the Work - Task Authorizations, apply to and form part of the Contract.

7.21 Progress Meetings

SACC *Manual* clause [B9035C](#) (2008-05-12), Progress Meetings, apply to and form part of the Contract.

7.22 Post Contract Award Meeting

Within five working days of receipt of a firm contract, the Contractor must contact the Contracting Authority to arrange for the required kickoff meeting. All subsequent meetings will be held either at DND or the Contractor's facilities, or through tele-conferencing.

7.23 Priority Rating

SACC *Manual* clause [C2800C](#) (2013-01-28) Priority Rating, apply to and form part of the Contract.

7.24 Priority Rating: Canadian-based contractors

SACC *Manual* clause [C2801C](#) (2017-08-17), Priority Rating: Canadian-based contractors, apply to and form part of the Contract.

7.25 Travel and Living Expenses - National Joint Council Travel Directive

The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, and private vehicle allowances specified in Appendices B, C and D of the [National Joint Council Travel Directive](#), and with the other

provisions of the directive referring to "travellers", rather than those referring to "employees". Canada will not pay the Contractor any incidental expense allowance for authorized travel.

All travel must be authorized in advance and in writing by the DND Procurement Authority (PA) prior to making any travel arrangements. The Contractor must provide the details of the travel and living expenses with each claim including copies of invoices, and remit original receipts to the PA for reimbursement. All travel and living expenses are subject to Government Audit before or after the claim is paid.

All travel must have the prior authorization of the Procurement Authority.

7.26 Marking

SACC *Manual* clause [D2000C](#) (2007-11-30) Marking, apply to and form part of the Contract.

7.27 Labelling

SACC *Manual* clause [D2001C](#) (2007-11-30) Labelling, apply to and form part of the Contract.

7.28 Wood packaging materials

SACC *Manual* clause [D2025C](#) (2017-08-17), Wood packaging materials, apply to and form part of the Contract.

7.29 Delivery of Dangerous Goods/Hazardous Products

SACC *Manual* clause [D3010C](#) (2016-01-28), Delivery of Dangerous Goods/Hazardous Products, apply to and form part of the Contract.

7.30 Preparation for Delivery - Canadian Forces Preservation, Packaging and Packing

The Contractor must prepare item number(s) _____ (**Inserted at contract award**) for delivery in accordance with the latest issue of the Canadian Forces Packaging Specification D-LM-008-036/SF-000, DND Minimum Requirements for Manufacturer's Standard Pack.

The Contractor must package item number(s) _____ (**Inserted at contract award**) in quantities of _____ (**Inserted at contract award**) by package.

7.31 Dangerous Goods / Hazardous Products - Labelling and Packaging Compliance

SACC *Manual* clause [D3015C](#) (2014-09-25), Dangerous Goods / Hazardous Products - Labelling and Packaging Compliance, apply to and form part of the Contract.

7.32 Quality Assurance

7.32.1 Quality assurance authority (Department of National Defence): Canadian-based contractor

SACC *Manual* clause [D5510C](#) (2017-08-17) Quality assurance authority (Department of National Defence): Canadian-based contractor, apply to and form part of the Contract.

OR

7.32.1 Quality Assurance Authority (Department of National Defence) - Foreign-based and United States Contractor

SACC Manual clause [D5515C](#) (2010-01-11) Quality Assurance Authority (Department of National Defence) - Foreign-based and United States Contractor, apply to and form part of the Contract.

7.32.2 ISO 9001:2015 Quality Management Systems - Requirements (Quality Assurance Code Q)

SACC Manual clause [D5540C](#) (2019-05-30) ISO 9001:2015 Quality Management Systems - Requirements (Quality Assurance Code Q), apply to and form part of the Contract.

7.32.3 Release Documents (Department of National Defence) - Foreign-based Contractor

SACC Manual clause [D5604C](#) (2008-12-12) Release Documents (Department of National Defence) - Foreign-based Contractor, apply to and form part of the Contract.

OR

7.32.3 Release Documents (Department of National Defence) - United States-based Contractor

SACC Manual clause [D5605C](#) (2010-01-11) Release Documents (Department of National Defence) - United States-based Contractor, apply to and form part of the Contract.

OR

7.32.3 Release documents (Department of National Defence): Canadian-based contractor

SACC Manual clause [D5606C](#) (2017-11-28) Release documents (Department of National Defence): Canadian-based contractor, apply to and form part of the Contract.

7.33 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: Technical Authority*

- e. One (1) copy to the Quality Assurance Representative;
- f. One (1) copy to the Contractor; and
- g. For all non-Canadian contractors, one (1) copy to:

*DQA/Contract Administration
National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2*

E-mail: ContractAdmin.DQA@forces.gc.ca.

7.34 Palletization

SACC *Manual* clause [D6010C](#) (2007-11-30) Palletization, apply to and form part of the Contract.

7.35 Incomplete Assemblies

SACC *Manual* clause [D9002C](#) (2007-11-30) Incomplete Assemblies, apply to and form part of the Contract.

7.36 Insurance

SACC *Manual* clause [G1005C](#) (2016-01-28) Insurance - No Specific Requirement, apply to and form part of the Contract.

7.37 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

ANNEX "A"

STATEMENT OF WORK

**DEPARTMENT OF NATIONAL DEFENCE
STATEMENT OF WORK FOR THE
CH-146 GLOBAL POSITIONING SYSTEM
ANTI-JAM ANTENNA SYSTEM**

Prepared By:

DTAES 6-7

10 September 2020

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1. SCOPE

- 1.1 Purpose. This Statement of Work (SOW) describes the tasks to be performed by the Contractor for the acquisition, support and integration of a Global Positioning System (GPS) anti-jam system for the Royal Canadian Air Force (RCAF) CH-146 Griffon tactical helicopter fleet.
- 1.2 Background. The RCAF has identified the need to improve the anti-jamming performance of the GPS receiver installed on the CH-146 helicopter fleet. The CH-146 Helicopter is a militarized version of the Bell 412. This aircraft has size, weight and power constraints for any installed system.
- 1.3 Scope. The GPS Advanced Navigation (GPS AN) project is planning for the procurement and integration of a GPS anti-jam system for 85 tactical CH-146 helicopters plus 15 spares for a total of 100 systems. Additionally, there will be two options considered, one for the purchase of up to 15 additional systems (for a total of 115 systems), one for the purchase of 46 additional systems (for a total of 146 systems). The RCAF also requires all relevant technical documentation, and engineering support for the systems on an as-and-when-requested basis and, as with any major project, the possibility of occasional repairs should the need arise.
- 1.4 Terminology. The following terms, abbreviations and acronyms are applicable to this SOW and its appendices.

AE	Antenna Electronics - CRPA Control Electronics Line Replaceable Unit
AWGN	Additive White Gaussian Noise
BB	Broad Band
BIT	Built-In Test
C/A Code	Coarse Acquisition Signal
cm	Centimeter
CRPA	Controlled Reception Pattern Antenna - Array of multiple antenna elements combined into one Line Replaceable Unit
CW	Continuous Wave
dB	Decibel
DND	Department of National Defence
ECP	Engineering Change Proposal
FHA	Functional Hazard Assessment
FMEA	Failure Mode Effect Analysis
FMECA	Failure Mode, Effects & Critical Analysis
GPS	Global Positioning System
IAW	In Accordance With
J/S	Jamming to Signal ratio
kg	Kilogram
OEM	Original Equipment Manufacturer

P(Y) Code	Precision (Encrypted Precision) GPS Signal
L1	GPS L-Band signal 1 (1575.42 MHz)
L2	GPS L-Band signal 2 (1227.6 MHz)
LRU	Line Replaceable Unit - Components of a system individually replaceable from an aircraft.
MHz	Megahertz
M Code	Modernized GPS User Equipment for Military Use
MACA	Months after Contract Award
MAGR2KS	Miniature Airborne GPS Receiver 2000 SAASM
MTBF	Mean Time Between Failures
NB	Narrow Band
PHST	Packaging, Handling, Storage, & Transportation
RCAF	Royal Canadian Air Force
RF	Radio Frequency
RFV	Request for Variance
R&O	Repair and Overhaul
SDS	Safety Data Sheet
SRA	Shop Replaceable Assembly – Subcomponents of a system not replaceable at aircraft level.
SAASM	Selective Availability Anti-Spoofing Module
TA	Technical Authority
Vdc	Volts Direct Current

2. APPLICABLE DOCUMENTS

2.1 Applicability. The following documents form part of this SOW to the extent specified herein, and are supportive of the SOW when referenced. The latest issue or amendment version of the standards and specifications documents are in effect. 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.

2.2 Standards and Specifications.

AMC 21A.608	Declaration of Design and Performance
EIA-649-1A	Configuration Management Requirement for Defense Contracts
MIL-DTL-17	General Specification for Flexible and Semirigid Radio Frequency Cables
MIL-STD-461F	Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment
MIL-STD-464A	Electromagnetic Environmental Effects Requirements for Systems
MIL-STD-704	Aircraft Electric Power Characteristics
MIL-STD-810G	Environmental Engineering Considerations and Laboratory Tests

MIL-STD-882 System Safety
SAE ARP 4761 Safety Assessment Methods for Civil Aircraft

RTCA DO-301 Minimum Operational Performance Standards for
Global Positioning Satellite System Active Antenna
Equipment

3. **REQUIREMENTS**

- 3.1 General. The Contractor must provide GPS anti-jam systems, all relevant technical documentation, and engineering support as requested, and repair services if necessary, as detailed further in this SOW.
- 3.2 Anti-Jam Systems and Coaxial Cables. The Contractor must provide 100 anti-jam systems complete with antennas and applicable coaxial cables as detailed in para 4.2 and in accordance with the Minimum Requirements detailed in Appendix 3.
- 3.2.1 Coaxial cable lengths as detailed in Appendix 3 may be amended as required by aircraft integration design so the Contractor must state the maximum and minimum cable lengths supported by their system.
- 3.3 Repair Services. DND may require occasional repair services on an as-needed basis. Therefore, the Contractor must be able to provide repair cost estimates and repair services during the delivery period and on delivered systems for two years after the delivery of the last item.
- 3.4 Project Management. The Contractor must conduct project management to satisfy the work in section 3.4 and must provide a Project Manager (PM).
- 3.4.1 The PM must be the primary point of contact for DND for all matters related to the contract.
- 3.4.1.1 The PM must, at a minimum, acknowledge inquiries from DND via telephone or email within one business day of receipt, followed by a response within an agreed-upon time period.
- 3.4.1.2 The PM must also participate in meetings and teleconferences as required by DND.
- 3.4.2 Kick-Off Meeting. The Contractor must host a kick-off meeting at a time agreed to by all parties addressing the following at a minimum: key contacts and project organization; project objectives; review of schedule; discussion of risk and potential problem areas; DND support requirements; Key Milestones; and target dates. Should a face-to-face meeting be deemed not advisable or not otherwise achievable at the time, alternative arrangements, such as video teleconference, may be proposed by the Contractor to DND.

- 3.4.3 Project Management Data Deliverables. The Contractor must provide a Project Schedule and Meeting Minutes as detailed in Para 4.5.
- 3.4.4 Configuration Management. The Contractor must maintain Configuration Management for all items delivered to DND. Manufactured or modified items that do not conform to the requirements of this SOW will not be received unless a Request for Variance (RFV) or Engineering Change Proposal (ECP) has been previously approved by DND. The Contractor must maintain a method to track RFVs and ECPs, and they must be prepared and submitted as detailed in Para 4.5.2 and 4.5.3.
- 3.5 Packaging Methods and Levels. The Contractor must ensure that all LRU's comprising the GPS anti-jam system are packaged in accordance with the applicable contract clauses. The Contractor must also provide the packaging documentation as detailed Para 4.6 and 4.7.
- 3.6 Technical Documents. The Contractor must provide the technical documentation as detailed in Para 4.8, 4.9, 4.10, 4.11, 4.12, and 4.13.
- 3.7 Engineering Support. The Contractor must provide engineering support by phone and e-mail on an as-and-when-requested basis to aid in the integration of the system on the aircraft, as well as performance tuning, as required.
- 3.7.1 Engineering support must normally be available Monday to Friday during core business hours.
- 3.7.2 An initial acknowledgement of the engineering support request from DND must occur within one business day, followed by a response within an agreed-upon time period.
- 3.8 System Safety Analysis. The Contractor must provide a system safety analysis report as detailed in para 4.13.
- 3.9 Test Equipment. If the system displays BIT failures requiring decoding at the aircraft level, the Contractor must provide 20 test equipment units as detailed in para 4.4 and in the Minimum Requirements for BIT display as detailed Appendix 3, para 2.7.1. The test equipment must be suitable for use by a first line maintenance technician in both indoor and outdoor environments.

4. DELIVERABLES

- 4.1 General. The Contractor must provide all deliverable items IAW section 4 of this SOW, without substitution unless previously approved by DND by an RFV or by an ECP.

- 4.1.1 All data item deliverables must be delivered to DND as specifically indicated in the SOW and IAW the appropriate Contract Data Requirements List (CDRL) and Data Item Description (DID) per Appendices 1 and 2.
- 4.2 Anti-Jam System and Coaxial Cables. The Contractor must provide 100 GPS Anti-jam Systems as detailed in para 3.2 with delivery of the first four (4) systems being made at six (6) months after Contract award (MACA). The balance must be delivered at the rate of eight (8) systems monthly after the first delivery until completion of the contract.
- 4.3 Option for Additional Systems. The Contractor must provide for two options, one to procure up to 15 additional GPS anti-jam systems, and the other to procure up to 46 additional GPS anti-jam systems.
- 4.4 Test Equipment. The Contractor must provide, if required, 20 test equipment units as detailed in para 3.9 at a rate of one unit per month starting with the first delivery of the anti-jam systems as detailed in para 4.2.
- 4.5 Project Management. The Contractor must provide a Project Schedule IAW CDRL-001 and DID PM-001, and Meeting Minutes IAW CDRL-002 and DID PM-002.
- 4.5.1 Configuration Management. The Contractor must provide a Configuration Management Plan IAW CDRL-005 and DID PM-005 that details the configuration management, planning, identification, accounting and verification activities over the lifecycle of the system.
- 4.5.2 Engineering Change Proposal. An Engineering Change Proposal (ECP) is required to propose and receive approval for any changes to configuration design, documentation or drawings. Before making any changes to configuration design, documentation or drawings, the Contractor must obtain Canada's approval. The Contractor must prepare and submit ECPs IAW CDRL-004 and DID PM-004.
- 4.5.3 Request for Variance (RFV). Requests for Variance (RFV) can exist in two forms: Engineering Variance (pre-production) or Production Variance (post-production). The Contractor must submit an RFV in order to seek Canada's approval, in any case of variance to temporarily depart from approved requirements, configuration documentation, or drawings for a specific quantity of deliverables. The Contractor must prepare and submit RFVs IAW CDRL-003 and DID PM-003.
- 4.6 Special Packaging, Handling, Storage and Transportation (PHST). The Contractor must provide a Special Packaging, Handling, Storage and Transportation Consideration Item List IAW CDRL-006 and DID ILS-001

- 4.7 Packaging Data. The Contractor must provide Packaging Data IAW CDRL-007 and DID ILS-002-for each LRU delivered to DND.
- 4.8 Product Certification. The Contractor must certify each LRU delivered to DND by providing an Acceptance Test Report and Certificate of Conformance IAW CDRL-008 and DID ILS-003. Each LRU delivered must be certified as meeting the performance specifications and contract requirements.
- 4.9 Dangerous/Hazardous Material. The Contractor must provide Safety Data Sheets (SDS) IAW CDRL-009 and DID ILS-004 for all hazardous items delivered under this SOW. This includes (but is not limited to), dangerous goods identified in the Canadian Transportation of Dangerous Goods Act.
- 4.10 Declaration of Design and Performance. The Contractor must provide a Declaration of Design and Performance summarizing all Specifications and Standards that each LRU of the Anti-Jam System has been manufactured and tested to IAW CDRL-010 and DID ILS-005.
- 4.11 Technical Documentation. The Contractor must provide a User Guide that provides integration, troubleshooting as well as removal and installation instructions that are appropriate for line technicians IAW CDRL-011 and DID ILS-006.
- 4.12 Engineering Drawings and Lists. The Contractor must provide drawings and data as required for National Stock Code cataloguing and aircraft installation design for all LRU deliverables, IAW CDRL-012 and DID ILS-007.
- 4.13 System Safety Analysis Report. The Contractor must provide a System Safety Analysis Report IAW CDRL-013 and DID ILS-008. Both software and electronic hardware must be considered in the analysis along with single point failure modes and any function failure mode that could contribute to erroneous or loss of navigation.

Deliverables Summary Table
Table 4-1

Para	Deliverable	Quantity	Delivery
4.2	Anti-Jam Systems, Cables, & Hardware	100	Start 6 MACA
4.3	Optional CRPA Systems with Standard Coaxial Cables	Up to 15 or 46	TBD
4.4	Test Equipment	As Required	Start 6 MACA
4.5	Project Schedule, CDRL-001	One	1 MACA
4.5	Meeting Minutes, CDRL-002	As Required	Draft within 7 days
4.5.1	Configuration Management Plan, CDRL-005	One	2 MACA
4.5.2	Engineering Change Proposals, CDRL-004	As Required	Within 30 days of requirement
4.5.3	Request for Variance, CDRL-003	As Required	Within 7 days of requirement
4.6	PHST, CDRL-006	One	1 MACA
4.7	Packaging Data, CDRL-007	One	1 MACA
4.8	Product Certification, CDRL-008	As Generated	As Generated
4.9	SDS, CDRL-009	One	2 MACA
4.10	Declaration of Design & Performance, CDRL-010	One	1 MACA
4.11	Technical Documentation, CDRL-011	One	Draft 1 MACA
4.12	Equipment Drawings, CDRL-012	One	1 MACA
4.13	Safety System Analysis Report, CDRL-013	As Required	3 MACA

Appendix 1 - CONTRACT DATA REQUIREMENTS LIST (CDRL)

TO

DEPARTMENT OF NATIONAL DEFENCE

STATEMENT OF WORK FOR THE

CH-146 GLOBAL POSITIONING SYSTEM

ANTI-JAM ANTENNA SYSTEM

Prepared By:

DTAES 6-7

10 September 2020

A.1 Introduction: This Contract Data Requirements List (CDRL) contains all the deliverable Data requirements for the CRPA system procurement. The Data Item Description (DID) are attached as Appendix 2 to this SOW.

A.2 General Information: Each page of the CDRL is formatted to allow up to a maximum of two data items. Pages are identified and are grouped by a category, i.e. Project Management, Systems Engineering, and Integrated Logistics. Each of the two data sections on a page is subdivided into 16 blocks (Further detailed in paragraph A.8).

A.3 Submittal of Data: Data must be submitted via Letter of Transmittal. The Letter of Transmittal must contain, as a minimum, the Contract Number, the CDRL Item Number and Title.

A.4 Precedence of CDRL: The requirements in Block 7 through 16 of the CDRL line items supersede any such requirements that may be specified in the associated DIDs, or other referenced documents.

A.5 Acceptance of Data: Acknowledgement of receipt of data by the Contract Authority is not required except as required by security procedures applicable to classified documents.

A.6 Document Revisions: The following requirements apply to the revision of documents delivered under the CDRL (except for the revision of specifications, and other documents where specific revision instructions are provided). The data must be revised, if necessary, to reflect approved changes unless otherwise specified in Block 16 of the CDRL:

- a. Revisions must be in the form of either replacement pages or re-issuance of the complete document;
- b. A “revision” page must be provided in the front of each revision, which must contain, as a minimum:
 - (1) a brief description of the reason for the revision including applicable authority, e.g. ECP,
 - (2) revision identification number or letter and date of revision, and
 - (3) appropriate administrative instructions, such as, revision instructions, security information, or other instructions.
- c. Each revised page must have the specific changes identified by a vertical line in the margin and include appropriate identification to the applicable revision, i.e. by date and revision number or letter. If a revision constitutes complete reissuance of the document, the only vertical lines in the margin must be those identifying changes made by that revision;
- d. Each revised page must contain the revision number or letter in the upper right corner of the page; and
- e. Any time a revision is submitted, the title page of the document must indicate the number or letter and the date of that revision.

A.7 Approval of Data: Unless otherwise specified in Block 16 of the CDRL, the time between the initial submission of data items for approval and the receipt by the Contractor of the Contract Authority's comments on that data item must be not more than 45 days. However, unless otherwise specified in the CDRL, such data must be considered approved if written comment specifying reasons for disapproval have not been received by the Contractor within 45 days of Contractor's transmittal letter.

A.8 Blocks: The information contained in each block is as follows:

a. BLOCK 1: ITEM NUMBER.

b. BLOCK 2: TITLE OR DESCRIPTION OF DATA.

The title of the DID is entered in this block.

c. BLOCK 3: SUBTITLE.

The subtitle for the DID is entered in this block as required.

d. BLOCK 4: AUTHORITY.

The Data Item Number is entered in this block (e.g. PM-001).

e. BLOCK 5: CONTRACT REFERENCE

The specific paragraph number of the Contract, Statement of Work, Request for Proposal, Specifications, or other applicable document which will assist in identifying the effort associated with the data item is entered in this block.

f. BLOCK 6: TECHNICAL OFFICE

The technical office of primary interest, i.e., the technical authority responsible for the adequacy of the data, is entered in this block (e.g., PMO HORNET).

g. BLOCK 7: INSPECTION /ACCEPTANCE

If applicable, the inspection and acceptance method of the data is entered in this block according to the following codes (otherwise this block will be left blank):

CODE	INSPECTION	ACCEPTANCE
SS	Source	Source
DD	Destination	Destination
SD	Source	Destination
DS	Destination	Source
LT	Letter of Transmittal Only	
NO	No inspection or acceptance required	
XX	Specified in Contract	

Table A2-1 - Inspection and Acceptance Methods

h. BLOCK 8: APPROVAL

Items of critical data for which formal DND approval is mandatory, are identified by placing “A” in the (Approved Code) block. These data require submission of the document in the final form for approval prior to its being officially used. Note that this “A” (annotated data) normally requires the submission of the final document(s).

Unless otherwise specified in Block 16 of the CDRL, an “I” or blank on this block means that the document must be submitted in final form to the Contract Authority for information. Data submitted for information is submitted for review but does not require a response.

“I/A” is used to indicate that once the deliverable has been approved, subsequent deliveries of updates are for information only.

i. BLOCK 9: INPUT TO SUBCONTRACT

If data are the integrated results of specific inputs from associated Contractors, an "X" is entered in this block. Otherwise this block is left blank.

J. BLOCK 10: FREQUENCY

This block indicates the frequency of the delivered data. The frequency codes are as follows:

FREQUENCY CODE	FREQUENCY	FREQUENCY CODE	FREQUENCY
DAILY	Daily	ANNLY	Annually
WEEKLY	Weekly	SEMIA	Every 6 months
BI-WE	Each 2 weeks	OTIME	One Time
MNTHY	Monthly	ONE/R	One time and revision
BI-MO	Each 2 months	R/ASR	Revisions as required
QRTLY	Quarterly	ASREQ	As Required
2 TIME	Two Separate Submittals	CHGASREQ	Change pages as Required
ASGEN	As generated	DRAFT	Draft Preliminary
DFDEL	Deferred Delivery		

NOTE:

1. Blocks 11, 12, 13, 14, 15 and 16 used for further information. For example, blocks 11 to 13 are used for dates and blocks 14 and 15 for distribution, addresses and totals. Block 16 is used for remarks.
2. If data is a recurring type, it must be submitted at end of the reporting period specified in this field.

k. BLOCK 11: FREQUENCY

If the data are submitted only once, the "as of" date will be entered in this block as follows: day/month/year (e.g., "15 August 1999"). If submittal is constrained by a specific event or milestone, this constraint/milestone is entered using the abbreviations (e.g. PROPOSAL), as follows:

- a. PROPOSAL Submitted with Contractors' proposals;
- b. ASGEN As generated;
- c. ASREQ As required;
- d. DACA/MACA Days/Months after contract start;
- e. DFDEL Deferred delivery;
- f. DFREQ Deferred requisitioning;
- g. EOC End of contract;
- h. EOM End of month; and
- i. EOQ End of quarter.

If there is insufficient space in block 11, the phrase "SEE BLOCK 16" is entered in block 11 and block 16 will have the constraint/milestone entered (e.g., Final draft due 2 weeks

prior to System Design Review (SDR). DND comments on final draft will be discussed at SDR. Final due four weeks after receipt of review comments.).

I. BLOCK 12: DATE OF FIRST SUBMISSION

The initial submission date is entered in this block as follows: day/month/year (e.g., 15 August 1999). If submittal is constrained by a specific event or milestone, this constraint/milestone is entered using the abbreviations as listed above (e.g. PROPOSAL). If there is insufficient space in block 12, the phrase "SEE BLOCK 16" will be entered in block 12 and block 16 will have the constraint/milestone entered.

m. BLOCK 13: DATE OF SUBSEQUENT OR SUB-EVENT ID

If data are submitted more than once, the date(s) of subsequent submission(s) is entered in this block. If submittal is constrained by a specific event or milestone, this constraint/milestone is entered using the abbreviations as listed in above (e.g. PROPOSAL). If there is insufficient space in block 13 the phrase "SEE BLOCK 16" is entered in block 13 and block 16 will have the constraint/milestone entered.

n. BLOCK 14: DISTRIBUTION/COPIES

The addresses and number of copies, regular (REG.) and reproducible (REPRO.) to be provided to each (e.g. PM HORNET 3/1) is entered in this block.

SUB-BLOCK A specifically identifies the addressee to whom either the regular or the reproducible copy to be provided to each (e.g. TA, CA, PA).

SUB-BLOCK B specifically identifies the format and the number of copies to be provided to each (e.g.

14. Distribution and Addressees			
A. Address	B. Copies		
	Draft	Final	
		Reg	Rep
TA		3	1
CA	6	1	

o. BLOCK 15: TOTAL COPIES

The total number of regular/reproducible copies required by block 14 is entered in this block.

p. BLOCK 16: REMARKS

This block is used to provide additional or clarifying information for blocks 1 through 15. Any forms that further define deliverable data requirements will be referred to in this block.

CONTRACT DATA REQUIREMENTS LIST		
CDRL ITEM NUMBER	DID ID NUMBER	TITLE
001	PM-001	Project Schedule
002	PM-002	Meeting Minutes
003	PM-003	Request for Variance
004	PM-004	Engineering Change Proposal
005	PM-005	Configuration Management Plan
006	ILS-001	Special PHST Consideration Items List
007	ILS-002	Packaging Data
008	ILS-003	Product Certification
009	ILS-004	Dangerous/ Hazardous Material
010	ILS-005	Declaration of Design and Performance
011	ILS-006	Technical Documentation
012	ILS-007	Level Two Drawings and Cataloguing Data
013	ILS-008	Safety System Analysis Report

CONTRACT DATA REQUIREMENTS LIST (1 Data Item) DND Form 1413

A. SYSTEM / ITEM Global Positioning System Anti-Jam Procurement				B. CONTRACT / RFP NUMBER W8475-18GPS3/001/BG			
C. SOW IDENTIFIER SOW Para 4.5		D. DATA CATEGORY Management Data		E. CONTRACTOR			
1. ITEM NUMBER 001		2. TITLE OR DESCRIPTION OF DATA Project Schedule		3. SUBTITLE			
4. AUTHORITY (Data Item Number) PM-001		5. CONTRACT REFERENCE SOW Para 4.5		6. REQUIRING OFFICE DTAES 6-7			
7. INSPECTION DD	9. INPUT	10. FREQUENCY R/ASR	12. DATE OF 1 st SUBMISSION 1 MACA	14. DISTRIBUTION and ADDRESSEES			
8. APP CODE A		11. AS OF DATE	13. DATE OF SUB SUBMISSION ASREQ	A. ADDRESS	B. COPIES		
16. REMARKS DND will provide comments within 45 days of receipt of Schedule. The Contractor will provide updates as required and agreed by DND.					DRAFT	FINAL	
						REG	REP
				PM	1	1	1
PREPARED BY		APPROVED BY					
DATE		DATE					
17. CONTRACT FILE/DOC NUMBER	18. ESTIMATED NO OF PAGES		19. ESTIMATED PRICE	15. TOTAL	1	1	1

CONTRACT DATA REQUIREMENTS LIST (1 Data Item) DND Form 1413							
A. SYSTEM / ITEM Global Positioning System Anti-Jam Procurement				B. CONTRACT / RFP NUMBER W8475-18GPS3/001/BG			
C. SOW IDENTIFIER SOW Para 4.5		D. DATA CATEGORY Management Data		E. CONTRACTOR			
1. ITEM NUMBER 002		2. TITLE OR DESCRIPTION OF DATA Meeting Minutes		3. SUBTITLE			
4. AUTHORITY (Data Item Number) PM-002		5. CONTRACT REFERENCE SOW Para 4.5		6. REQUIRING OFFICE DTAES 6-7			
7. INSPECTION DD	9. INPUT	10. FREQUENCY ASGEN	12. DATE OF 1 st SUBMISSION ASREQ	14. DISTRIBUTION and ADDRESSEES			
8. APP CODE A		11. AS OF DATE	13. DATE OF SUB SUBMISSION ASREQ	A. ADDRESS	B. COPIES		
16. REMARKS The Contractor must provide a copy of the minutes of a meeting within 7 days of the meeting. DND will provide comments with 21 days of the receipt of the minutes of a meeting. The Contractor must provide the final version within 7 days of receipt of DND comments.					DRAFT	FINAL	
						REG	REP
				PM	1	1	1
PREPARED BY		APPROVED BY					
DATE		DATE					
17. CONTRACT FILE/DOC NUMBER	18. ESTIMATED NO OF PAGES		19. ESTIMATED PRICE	15. TOTAL	1	1	1

CONTRACT DATA REQUIREMENTS LIST (1 Data Item) DND Form 1413							
A. SYSTEM / ITEM Global Positioning System Anti-Jam Procurement				B. CONTRACT / RFP NUMBER W8475-18GPS3/001/BG			
C. SOW IDENTIFIER SOW Para 4.5.3		D. DATA CATEGORY Management Data		E. CONTRACTOR			
1. ITEM NUMBER 003		2. TITLE OR DESCRIPTION OF DATA Request for Variance (RFV)		3. SUBTITLE			
4. AUTHORITY (Data Item Number) PM-003		5. CONTRACT REFERENCE SOW Para 4.5.3		6. REQUIRING OFFICE DTAES 6-7			
7. INSPECTION DD	9. INPUT	10. FREQUENCY ASGEN	12. DATE OF 1 st SUBMISSION ASGEN	14. DISTRIBUTION and ADDRESSEES			
8. APP CODE A		11. AS OF DATE	13. DATE OF SUB SUBMISSION	A. ADDRESS	B. COPIES		
16. REMARKS The Contractor must submit all RFVs to DND for approval, within 7 days of the requirement being identified by DND or the Contractor. DND will provide comments within 14 days of receiving the RFV.					DRAFT	FINAL	
						REG	REP
PREPARED BY		APPROVED BY					
DATE		DATE					
17. CONTRACT FILE/DOC NUMBER	18. ESTIMATED NO OF PAGES	19. ESTIMATED PRICE	15. TOTAL			1	

CONTRACT DATA REQUIREMENTS LIST (1 Data Item) DND Form 1413							
A. SYSTEM / ITEM Global Positioning System Anti-Jam Procurement				B. CONTRACT / RFP NUMBER W8475-18GPS3/001/BG			
C. SOW IDENTIFIER SOW Para 4.5.2		D. DATA CATEGORY Management Data		E. CONTRACTOR			
1. ITEM NUMBER 004		2. TITLE OR DESCRIPTION OF DATA Engineering Change Proposal (ECP)		3. SUBTITLE			
4. AUTHORITY (Data Item Number) PM-004		5. CONTRACT REFERENCE SOW Para 4.5.2		6. REQUIRING OFFICE DTAES 6-7			
7. INSPECTION DD	9. INPUT	10. FREQUENCY ASGEN	12. DATE OF 1 st SUBMISSION ASGEN	14. DISTRIBUTION and ADDRESSEES			
8. APP CODE A		11. AS OF DATE	11. DATE OF SUB SUBMISSION See Para 16	A. ADDRESS	B. COPIES		
16. REMARKS The Contractor must submit ECPs to DND for approval, within 30 days of the requirement being identified by DND or the Contractor. DND will provide comments within 14 days of receiving the ECP. If required, the Contractor must provide a revised version of the ECP within 14 days of receiving DND's comments.					DRAFT	FINAL	
						REG	REP
				PM	1	1	
PREPARED BY		APPROVED BY					
DATE		DATE					
17. CONTRACT FILE/DOC NUMBER	18. ESTIMATED NO OF PAGES	19. ESTIMATED PRICE	15. TOTAL	1	1		

CONTRACT DATA REQUIREMENTS LIST (1 Data Item) DND Form 1413							
A. SYSTEM / ITEM Global Positioning System Anti-Jam Procurement				B. CONTRACT / RFP NUMBER W8475-18GPS3/001/BG			
C. SOW IDENTIFIER SOW Para 4.5.1		D. DATA CATEGORY Management Data		E. CONTRACTOR			
1. ITEM NUMBER 005		2. TITLE OR DESCRIPTION OF DATA Configuration Management Plan		3. SUBTITLE			
4. AUTHORITY (Data Item Number) PM-005		5. CONTRACT REFERENCE SOW Para 4.5.1		6. REQUIRING OFFICE DTAES 6-7			
7. INSPECTION DD	9. INPUT	10. FREQUENCY ONE	12. DATE OF 1 st SUBMISSION 2 MACA	14. DISTRIBUTION and ADDRESSEES			
8. APP CODE A		11. AS OF DATE	13. DATE OF SUB SUBMISSION	A. ADDRESS	B. COPIES		
16. REMARKS DND will provide feedback or approval within 45 days. The plan must detail the configuration management, planning, identification, change management, accounting and verification activities for the lifecycle of the system.					DRAFT	FINAL	
						REG	REP
				PM		1	
PREPARED BY		APPROVED BY					
DATE		DATE					
17. CONTRACT FILE/DOC NUMBER	18. ESTIMATED NO OF PAGES	19. ESTIMATED PRICE	15. TOTAL			1	

CONTRACT DATA REQUIREMENTS LIST (1 Data Item) DND Form 1413							
A. SYSTEM / ITEM Global Positioning System Anti-Jam Procurement				B. CONTRACT / RFP NUMBER W8475-18GPS3/001/BG			
C. SOW IDENTIFIER SOW Para 4.6		D. DATA CATEGORY Integrated Logistics Support		E. CONTRACTOR			
1. ITEM NUMBER 006		2. TITLE OR DESCRIPTION OF DATA Special PHST		3. SUBTITLE			
4. AUTHORITY (Data Item Number) ILS-001		5. CONTRACT REFERENCE SOW Para 4.6		6. REQUIRING OFFICE DTAES 6-7			
7. INSPECTION DD	9. INPUT	10. FREQUENCY ONE/R	12. DATE OF 1 st SUBMISSION 1 MACA	14. DISTRIBUTION and ADDRESSEES			
8. APP CODE A		11. AS OF DATE	13. DATE OF SUB SUBMISSION	A. ADDRESS	B. COPIES		
16. REMARKS DND will provide feedback or approval within 45 days.					DRAFT	FINAL	
						REG	REP
PREPARED BY		APPROVED BY					
DATE		DATE					
17. CONTRACT FILE/DOC NUMBER	18. ESTIMATED NO OF PAGES	19. ESTIMATED PRICE	15. TOTAL			1	

CONTRACT DATA REQUIREMENTS LIST (1 Data Item) DND Form 1413							
A. SYSTEM / ITEM Global Positioning System Anti-Jam Procurement				B. CONTRACT / RFP NUMBER W8475-18GPS3/001/BG			
C. SOW IDENTIFIER SOW Para 4.7		D. DATA CATEGORY Integrated Logistics Support		E. CONTRACTOR			
1. ITEM NUMBER 007		2. TITLE OR DESCRIPTION OF DATA Packaging Data		3. SUBTITLE			
4. AUTHORITY (Data Item Number) ILS-002		5. CONTRACT REFERENCE SOW Para 4.7		6. REQUIRING OFFICE DTAES 6-7			
7. INSPECTION DD	9. INPUT	10. FREQUENCY ONE/R	12. DATE OF 1 st SUBMISSION 1 MACA	14. DISTRIBUTION and ADDRESSEES			
8. APP CODE A		11. AS OF DATE	13. DATE OF SUB SUBMISSION	A. ADDRESS	B. COPIES		
16. REMARKS DND will provide feedback or approval within 45 days.					DRAFT	FINAL	
						REG	REP
PREPARED BY		APPROVED BY					
DATE		DATE					
17. CONTRACT FILE/DOC NUMBER	18. ESTIMATED NO OF PAGES		19. ESTIMATED PRICE	15. TOTAL		1	

CONTRACT DATA REQUIREMENTS LIST (1 Data Item) DND Form 1413							
A. SYSTEM / ITEM Global Positioning System Anti-Jam Procurement				B. CONTRACT / RFP NUMBER W8475-18GPS3/001/BG			
C. SOW IDENTIFIER SOW Para 4.8		D. DATA CATEGORY Integrated Logistics Support		E. CONTRACTOR			
1. ITEM NUMBER 008		2. TITLE OR DESCRIPTION OF DATA Product Certification		3. SUBTITLE			
4. AUTHORITY (Data Item Number) ILS-003		5. CONTRACT REFERENCE SOW Para 4.8		6. REQUIRING OFFICE DTAES 6-7			
7. INSPECTION DD	9. INPUT	10. FREQUENCY ASGEN	12. DATE OF 1 st SUBMISSION ASGEN	14. DISTRIBUTION and ADDRESSEES			
8. APP CODE A		11. AS OF DATE	13. DATE OF SUB SUBMISSION	A. ADDRESS	B. COPIES		
16. REMARKS The Contractor must certify each LRU delivered by including a copy of the associated Acceptance Test Report and Certificate of Conformance electronically to DND and one hard copy of the Certificate of Conformance with each packaged LRU. DND will provide feedback or approval within 14 days.					DRAFT	FINAL	
						REG	REP
				PM		2	
PREPARED BY		APPROVED BY					
DATE		DATE					
17. CONTRACT FILE/DOC NUMBER	18. ESTIMATED NO OF PAGES	19. ESTIMATED PRICE	15. TOTAL		2		

CONTRACT DATA REQUIREMENTS LIST (1 Data Item) DND Form 1413							
A. SYSTEM / ITEM Global Positioning System Anti-Jam Procurement				B. CONTRACT / RFP NUMBER W8475-18GPS3/001/BG			
C. SOW IDENTIFIER SOW Para 4.9		D. DATA CATEGORY Integrated Logistics Support		E. CONTRACTOR			
1. ITEM NUMBER 009		2. TITLE OR DESCRIPTION OF DATA Safety Data Sheet (SDS)		3. SUBTITLE			
4. AUTHORITY (Data Item Number) ILS-004		5. CONTRACT REFERENCE SOW Para 4.9		6. REQUIRING OFFICE DTAES 6-7			
7. INSPECTION DD	9. INPUT	10. FREQUENCY ONE/R	12. DATE OF 1 st SUBMISSION 2 MACA	14. DISTRIBUTION and ADDRESSEES			
8. APP CODE A		11. AS OF DATE	13. DATE OF SUB SUBMISSION	A. ADDRESS	B. COPIES		
16. REMARKS DND will provide feedback or approval within 45 days.					DRAFT	FINAL	
						REG	REP
PREPARED BY		APPROVED BY					
DATE		DATE					
17. CONTRACT FILE/DOC NUMBER	18. ESTIMATED NO OF PAGES		19. ESTIMATED PRICE	15. TOTAL		1	

CONTRACT DATA REQUIREMENTS LIST (1 Data Item) DND Form 1413							
A. SYSTEM / ITEM Global Positioning System Anti-Jam Procurement				B. CONTRACT / RFP NUMBER W8475-18GPS3/001/BG			
C. SOW IDENTIFIER SOW Para 4.10		D. DATA CATEGORY Integrated Logistics Support		E. CONTRACTOR			
1. ITEM NUMBER 010		2. TITLE OR DESCRIPTION OF DATA Declaration of Design and Performance		3. SUBTITLE			
4. AUTHORITY (Data Item Number) ILS-005		5. CONTRACT REFERENCE SOW Para 4.10		6. REQUIRING OFFICE DTAES 6-7			
7. INSPECTION DD	9. INPUT	10. FREQUENCY ONE	12. DATE OF 1 st SUBMISSION 1 MACA	14. DISTRIBUTION and ADDRESSEES			
8. APP CODE A		11. AS OF DATE	13. DATE OF SUB SUBMISSION	A. ADDRESS	B. COPIES		
16 REMARKS DND will provide feedback or approval within 45 days.					DRAFT	FINAL	
						REG	REP
				PM		1	
				PREPARED BY		APPROVED BY	
DATE		DATE					
17. CONTRACT FILE/DOC NUMBER	18. ESTIMATED NO OF PAGES		19. ESTIMATED PRICE	15. TOTAL		1	

CONTRACT DATA REQUIREMENTS LIST (1 Data Item) DND Form 1413							
A. SYSTEM / ITEM Global Positioning System Anti-Jam Procurement				B. CONTRACT / RFP NUMBER W8475-18GPS3/001/BG			
C. SOW IDENTIFIER SOW Para 4.11		D. DATA CATEGORY Integrated Logistics Support		E. CONTRACTOR			
1. ITEM NUMBER 011		2. TITLE OR DESCRIPTION OF DATA Technical Documentation		3. SUBTITLE			
4. AUTHORITY (Data Item Number) ILS-006		5. CONTRACT REFERENCE SOW Para 4.11		6. REQUIRING OFFICE DTAES 6-7			
7. INSPECTION DD	9. INPUT	10. FREQUENCY ONE/R	12. DATE OF 1 st SUBMISSION 1 MACA	14. DISTRIBUTION and ADDRESSEES			
9. APP CODE A		11. AS OF DATE	13. DATE OF SUB SUBMISSION Para 16	A. ADDRESS	B. COPIES		
16. REMARKS The contract must provide a draft version of the document to DND for approval within 1 Month of Contract Award. DND will provide comments for revision within 30 days of receipt of draft. The Contractor will provide the revised version within 30 days of receiving DND's comments.					DRAFT	FINAL	
						REG	REP
				PM	1	1	
PREPARED BY		APPROVED BY					
DATE		DATE					
17. CONTRACT FILE/DOC NUMBER	18. ESTIMATED NO OF PAGES		19. ESTIMATED PRICE	15. TOTAL	1	1	

CONTRACT DATA REQUIREMENTS LIST (1 Data Item) DND Form 1413							
A. SYSTEM / ITEM Global Positioning System Anti-Jam Procurement				B. CONTRACT / RFP NUMBER W8475-18GPS3/001/BG			
C. SOW IDENTIFIER SOW Para 4.12		D. DATA CATEGORY Integrated Logistics Support		E. CONTRACTOR			
1. ITEM NUMBER 012		2. TITLE OR DESCRIPTION OF DATA Level Two Drawings and Cataloguing Data		3. SUBTITLE			
4. AUTHORITY (Data Item Number) ILS-007		5. CONTRACT REFERENCE SOW Para 4.12		6. REQUIRING OFFICE DTAES 6-7			
7. INSPECTION DD	9. INPUT	10. FREQUENCY ONE	12. DATE OF 1 st SUBMISSION 1 MACA	14. DISTRIBUTION and ADDRESSEES			
8. APP CODE A		11. AS OF DATE	13. DATE OF SUB SUBMISSION	A. ADDRESS	B. COPIES		
16. REMARKS DND will provide feedback or approval within 45 days.					DRAFT	FINAL	
						REG	REP
				PM		1	
PREPARED BY		APPROVED BY					
DATE		DATE					
17. CONTRACT FILE/DOC NUMBER	18. ESTIMATED NO OF PAGES		19. ESTIMATED PRICE	15. TOTAL		1	

CONTRACT DATA REQUIREMENTS LIST (1 Data Item) DND Form 1413							
A. SYSTEM / ITEM Global Positioning System Anti-Jam Procurement				B. CONTRACT / RFP NUMBER W8475-18GPS3/001/BG			
C. SOW IDENTIFIER SOW Para 4.13		D. DATA CATEGORY Integrated Logistics Support		E. CONTRACTOR			
1. ITEM NUMBER 013		2. TITLE OR DESCRIPTION OF DATA Safety System Analysis Report		3. SUBTITLE			
4. AUTHORITY (Data Item Number) ILS-008		5. CONTRACT REFERENCE SOW Para 4.13		6. REQUIRING OFFICE DTAES 6-7			
7. INSPECTION DD	9. INPUT	10. FREQUENCY ONE	12. DATE OF 1 st SUBMISSION 3 MACA	14. DISTRIBUTION and ADDRESSEES			
8. APP CODE A		11. AS OF DATE	13. DATE OF SUB SUBMISSION	A. ADDRESS	B. COPIES		
16. REMARKS DND will provide comments within 45 days of receipt. The Contractor will provide updates as required and agreed by DND.					DRAFT	FINAL	
						REG	REP
PREPARED BY		APPROVED BY					
DATE		DATE					
17. CONTRACT FILE/DOC NUMBER	18. ESTIMATED NO OF PAGES		19. ESTIMATED PRICE	15. TOTAL		1	

Appendix 2 - DATA ITEM DESCRIPTIONS (DID)

TO

DEPARTMENT OF NATIONAL DEFENCE

STATEMENT OF WORK FOR THE

CH-146 GLOBAL POSITIONING SYSTEM

ANTI-JAM ANTENNA SYSTEM

Prepared By:

DTAES 6-7

10 September 2020

DATA ITEM DESCRIPTION - DESCRIPTION D'ÉLÉMENT DE DONNÉES

<p>1. TITLE - TITRE Project Schedule</p>	<p>2. IDENTIFICATION NUMBER - NUMÉRO D'IDENTIFICATION DID PM-001</p>	
<p>3. DESCRIPTION/PURPOSE - DESCRIPTION/OBJET The Project schedule provides an overview of all project events.</p>		
<p>4. APPROVAL DATE - DATE D'APPROBATION 45 days after submission</p>	<p>5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) GPS Project Manager</p>	<p>6. ORIGINATOR - AUTEUR DTAES 6-7</p>
<p>7. APPLICATION/INTERRELATIONSHIP - APPLICATION/INTERDÉPENDANCE N/A</p>	<p>8. APPLICABLE FORMS - FORMULES PERTINENTES N/A</p>	
<p>9. PREPARATION INSTRUCTIONS - INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES</p> <p>9.1 Format: The Project Schedule, must include the content in this DID, must be prepared in Gantt Chart format and must be submitted electronically in a format compatible with Microsoft Office Project Professional 2003.</p> <p>9.2 Content: The project schedule must contain all project activities, milestones, meetings, events and the planned delivery dates of all deliverable items. This includes data and equipment deliverables.</p>		

DATA ITEM DESCRIPTION - DESCRIPTION D'ÉLÉMENT DE DONNÉES

1. TITLE - TITRE Project Meeting Minutes	2. IDENTIFICATION NUMBER - NUMÉRO D'IDENTIFICATION DID PM-002	
3. DESCRIPTION/PURPOSE - DESCRIPTION/OBJET To record significant actions, decisions, and all pertinent information necessary to provide a complete and accurate record of the meeting proceedings.		
4. APPROVAL DATE - DATE D'APPROBATION 21 Days after submission	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) GPS Project Manager	6. ORIGINATOR - AUTEUR DTAES 6-7
7. APPLICATION/INTERRELATIONSHIP - APPLICATION/INTERDÉPENDANCE N/A	8. APPLICABLE FORMS - FORMULES PERTINENTES N/A	
9. PREPARATION INSTRUCTIONS - INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES 9.1 Format The Meeting Minutes must be prepared in the Contractor's format, must include the content in this DID, and must be submitted electronically to the TA. 9.2 Content The Meeting Minutes must include the following information: a) Subject and reason for the meeting; b) Date, time, and location of the meeting; c) List of attendees including the organization represented by each attendee; d) A summary of the discussion, including references to the presentations; e) A list of action items assigned at the meeting, including the position and organization which has been assigned the action and the due date; f) Changes and additions to Action Items; g) A list of decisions made at the meeting; h) Legend or footer to reflect that the minutes are a record of discussions only and do not constitute approval for contractual changes; and i) Attached copies of all presentations or items distributed during the meeting to assure a complete understanding of the minutes.		

DATA ITEM DESCRIPTION - DESCRIPTION D'ÉLÉMENT DE DONNÉES

1. TITLE - TITRE Request for Variance (RFV)	2. IDENTIFICATION NUMBER - NUMÉRO D'IDENTIFICATION DID PM-003	
3. DESCRIPTION/PURPOSE - DESCRIPTION/OBJET A request for Variance must describe an Engineering (prior to manufacture) or Production (post-manufacture) variance from configuration documentation for a specific number of units or for a specified period of time. A Request for Variance enables DND to determine the impact on performance, operational readiness, and logistics support or other affected areas.		
4. APPROVAL DATE - DATE D'APPROBATION 14 days after submission	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) GPS Project Manager	6. ORIGINATOR - AUTEUR DTAES 6-7
7. APPLICATION/INTERRELATIONSHIP - APPLICATION/INTERDÉPENDANCE N/A		8. APPLICABLE FORMS - FORMULES PERTINENTES N/A
9. PREPARATION INSTRUCTIONS - INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES 9.1 <u>Format</u> RFVs, must include the content in this DID, and must be prepared using DD Form 1694 or in the Contractor's format approved by the TA. 9.2 <u>Change History</u> a) The RFV must include a change history summary section which contains the following: <ul style="list-style-type: none"> i. A clear and unique version/revision identifier for each submission or resubmission of the RFV; ii. clear identification of revisions or amendments within the document from its previous submission; and iii. rationale for the revisions and amendments. b) All of the above revisions / amendments must be clearly identified within the document using suitable change tracking features in the software used to produce the document, e.g. "Track Changes" feature in Microsoft Word, side bars, highlighted text, etc.		
9.3 <u>Content</u> The RFV must be prepared in accordance with EIA-649-1A. The RFV must also include an analysis determining the system safety and health hazards associated with it, assessing the associated risk, and predicting the safety impact of the RFV on the existing system. When it is determined that there is no safety impact, a description of the analysis process and factors which allowed this conclusion must be included.		

DATA ITEM DESCRIPTION - DESCRIPTION D'ÉLÉMENT DE DONNÉES

1. TITLE - TITRE Engineering Change Proposal (ECP)	2. IDENTIFICATION NUMBER - NUMÉRO D'IDENTIFICATION DID PM-004	
3. DESCRIPTION/PURPOSE - DESCRIPTION/OBJET <p>An Engineering Change Proposal (ECP) includes both the engineering change and the documentation by which the change is described and suggested. An ECP describes changes to configuration items and associated configuration documentation that are affected by the proposed engineering change.</p>		
4. APPROVAL DATE - DATE D'APPROBATION 14 days after submission	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) GPS Project Manager	6. ORIGINATOR - AUTEUR DTAES 6-7
7. APPLICATION/INTERRELATIONSHIP - APPLICATION/INTERDÉPENDANCE N/A		8. APPLICABLE FORMS - FORMULES PERTINENTES N/A
9. PREPARATION INSTRUCTIONS - INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES 9.1 <u>Format</u> <p>ECPs must include the content in this DID, and must be prepared using DD Form 1692 or in the Contractor's format approved by the TA.</p> 9.2 <u>Change History</u> <p>a) The ECP must include a change history summary section which contains the following:</p> <ul style="list-style-type: none"> i. A clear and unique version/revision identifier for each submission or resubmission of the ECP; ii. clear identification of revisions or amendments within the document from its previous submission; and iii. rationale for the revisions and amendments. <p>b) All of the above revisions / amendments must be clearly identified within the document using suitable change tracking features in the software used to produce the document, e.g. "Track Changes" feature in Microsoft Word, side bars, highlighted text, etc.</p> 9.3 <u>Content</u> The ECP must be prepared in accordance with EIA-649-1A. <p>The ECP must also include an analysis determining the system safety and health hazards associated with it, assessing the associated risk, and predicting the safety impact of the ECP on the existing system.</p> <p>When it is determined that there is no safety impact, a description of the analysis process and factors which allowed this conclusion must be included.</p>		

DATA ITEM DESCRIPTION - DESCRIPTION D'ÉLÉMENT DE DONNÉES

1. TITLE - TITRE Configuration Management Plan	2. IDENTIFICATION NUMBER - NUMÉRO D'IDENTIFICATION DID PM-005	
3. DESCRIPTION/PURPOSE - DESCRIPTION/OBJET <p>The Contractor's Configuration Management Plan (CMP) describes the Contractor's CM program, how it is organized, how it will be conducted, and the methods, procedures and controls used to assure effective configuration identification, change control, status accounting, and audits of the total configuration, including hardware, software and firmware.</p>		
4. APPROVAL DATE - DATE D'APPROBATION 45 days after submission	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) GPS Project Manager	6. ORIGINATOR - AUTEUR DTAES 6-7
7. APPLICATION/INTERRELATIONSHIP - APPLICATION/INTERDÉPENDANCE N/A	8. APPLICABLE FORMS - FORMULES PERTINENTES N/A	
9. PREPARATION INSTRUCTIONS - INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES <p>9.1 The Configuration Management Plan (CMP) must be prepared in the Contractor's format, must include the content in this DID and must be submitted electronically to the TA.</p> <p>9.2 The Contractor's CMP must identify the Contractor's processes and procedures for:</p> <ul style="list-style-type: none"> a. Configuration management and planning over the lifecycle of the system; b. Configuration identification throughout the lifecycle of the system; c. Configuration change management, including controlling and documenting the system and its system configuration information to the system's end of life; d. Configuration status accounting, including recording and reporting of information needed to trace and manage the configuration of the system; and e. Verification and audits to ensure consistency of system information are established and maintained in the execution of the total configuration, including hardware, software and firmware. <p>9.3 The CMP must include at a minimum, the following paragraphs:</p> <ul style="list-style-type: none"> a. Introduction; b. Organization; c. Configuration Management Procedures; d. Technical Reviews; e. Interface Management; f. CM Transition Plan; and g. Tools, Techniques and Methodologies. 		

DATA ITEM DESCRIPTION - DESCRIPTION D'ÉLÉMENT DE DONNÉES

1. TITLE – TITRE Special PHST Consideration Items List	2. IDENTIFICATION NUMBER - NUMÉRO D'IDENTIFICATION DID ILS-001	
3. DESCRIPTION/PURPOSE - DESCRIPTION/OBJET The Special PHST Consideration Items List is required to identify all items that require special considerations when being handled, stored or transported.		
4. APPROVAL DATE - DATE D'APPROBATION N/A	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) GPS Project Manager	6. ORIGINATOR - AUTEUR DTAES 6-7
7. APPLICATION/INTERRELATIONSHIP - APPLICATION/INTERDÉPENDANCE N/A		8. APPLICABLE FORMS - FORMULES PERTINENTES N/A
9. PREPARATION INSTRUCTIONS - INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES 9.1 Special PHST Consideration Items List must be prepared in the Contractor's format, must include the content in this DID, and must be submitted electronically to the TA. 9.2 Special PHST consideration items include items: <ol style="list-style-type: none"> a) Subject to damage from electrostatic discharge; b) Subject to damage from shock (of more than 25G instantaneous); c) Subject to degradation from magnetic or electromagnetic radiation; d) Subject to degradation from freezing; e) Subject to degradation from humidity; f) Subject to degradation from heat; g) Subject to degradation from ultra-violet light; h) That are dangerous goods; i) That are hazardous material; j) That must be kept in a special orientation; k) That require special external blocking or bracing; l) That must have an internal blocking/locking device engaged; m) That emit electromagnetic radiation that could degrade nearby susceptible items; n) That require continuous power application; o) That can be without power application only for a short period of time; p) That should not have protective packaging removed except in a clean room environment; q) That can only be removed from a special storage environment for a short period of time; r) That are classified and must have an escort; and s) That requires a special container. 9.3 Include the following data in the Special PHST Consideration Items List: <ul style="list-style-type: none"> Item Number (unique sequence number for each list); Item Name; Reference (Manufacturer's Part) Number; NSCM/CAGE Code; NATO Stock Number (if available); Description of Special Consideration; and Applicable Standard (for protection, handling) (if appropriate). 		

DATA ITEM DESCRIPTION - DESCRIPTION D'ÉLÉMENT DE DONNÉES

1. TITLE - TITRE Packaging Data	2. IDENTIFICATION NUMBER - NUMÉRO D'IDENTIFICATION DID ILS-002	
3. DESCRIPTION/PURPOSE - DESCRIPTION/OBJET Packaging Data is required to identify packaging requirements for items to be shipped to or stored at a DND facility (such as spare parts, bulk items, special tools, support equipment, test equipment and training equipment).		
4. APPROVAL DATE - DATE D'APPROBATION N/A	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) GPS Project Manager	6. ORIGINATOR - AUTEUR DTAES 6-7
7. APPLICATION/INTERRELATIONSHIP - APPLICATION/INTERDÉPENDANCE N/A	8. APPLICABLE FORMS - FORMULES PERTINENTES N/A	
9. PREPARATION INSTRUCTIONS - INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES 9.1 Packaging Data must be prepared in the Contractor's format, must include the content in this DID, and must be submitted electronically to the TA. 9.2 The following data must be provided: <ul style="list-style-type: none"> a. Item Identification; and <ul style="list-style-type: none"> (1) Item Name (2) Reference (Manufacturer's Part) Number (3) NSCM/CAGE code (4) NATO Stock Number (if assigned) Packaging Data. <ul style="list-style-type: none"> (1) Unit Pack Size (length, width, depth) (meters) (2) Unit Pack Weight (kilograms) (3) Packing Code (A, B, C...) (4) Hazardous Code (Regulated/Non-regulated) (5) Special packaging instruction <p>Notes:</p> <ul style="list-style-type: none"> 1. To reduce the need for redundant data, similar items may be grouped with the same packaging data applying to the group. 2. The Canadian Forces Supply System requires size in meters and weight in kilograms. To use the special packaging instruction number, the Contractor will need to prepare an enumerated list of instructions, consistent as possible with applicable contract clauses. 		

DATA ITEM DESCRIPTION - DESCRIPTION D'ÉLÉMENT DE DONNÉES

1. TITLE – TITRE Product Certification	2. IDENTIFICATION NUMBER - NUMÉRO D'IDENTIFICATION DID ILS-003	
3. DESCRIPTION/PURPOSE - DESCRIPTION/OBJET The Acceptance Test Report contains the results of the qualification tests performed by the Contractor to demonstrate that the system conforms to the performance specifications and contract requirements. The Certificate of Conformance is an airworthiness certification that attests that a new or used part or material conforms to the approved design specifications.		
4. APPROVAL DATE - DATE D'APPROBATION N/A	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) GPS Project Manager	6. ORIGINATOR - AUTEUR DTAES 6-7
7. APPLICATION/INTERRELATIONSHIP - APPLICATION/INTERDÉPENDANCE N/A		8. APPLICABLE FORMS - FORMULES PERTINENTES N/A
9. PREPARATION INSTRUCTIONS - INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES 9.1 <u>Format:</u> These documents must be prepared in the Contractor's format and must include the content listed in this DID. The Acceptance Test Report is to be submitted to the TA electronically. The Certificate of Conformance must be distributed with one electronic copy sent to the TA and one hard copy included with each packaged LRU. 9.2 <u>Content:</u> The Product Certification documentation must include the following content: 9.2.1 <u>Acceptance Test Report:</u> The Acceptance Test Report must detail all specific tests, and results thereof, conducted to ensure product compliance with all required performance specifications and contract requirements. The specific test equipment used, including serial numbers and calibration dates must be included. 9.2.2 <u>Certificate of Conformance:</u> A Certificate of Conformance (C of C) is an airworthiness certification that attests that a new or used part or material conforms to the approved design specifications. The C of C must identify the source of supply and must include as a minimum, a positive identification of the item by part number, modification status, nomenclature, and serial number if applicable.		

DATA ITEM DESCRIPTION - DESCRIPTION D'ÉLÉMENT DE DONNÉES

1. TITLE – TITRE Safety Data Sheet (SDS)	2. IDENTIFICATION NUMBER - NUMÉRO D'IDENTIFICATION DID ILS-004	
3. DESCRIPTION/PURPOSE - DESCRIPTION/OBJET To provide information and instructions on the chemical and physical characteristics of a substance, its hazards and risks, the safe handling requirements and actions to be taken in the event of fire, spill, overexposure or other.		
4. APPROVAL DATE - DATE D'APPROBATION N/A	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) GPS Project Manager	6. ORIGINATOR - AUTEUR DTAES 6-7
7. APPLICATION/INTERRELATIONSHIP - APPLICATION/INTERDÉPENDANCE N/A	8. APPLICABLE FORMS - FORMULES PERTINENTES N/A	
9. PREPARATION INSTRUCTIONS - INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES 9.1 The Safety Data Sheet (SDS) must be in Contractor's format, must include the content of this DID and must be submitted electronically to the TA. 9.2 A Safety Data Sheet (SDS) is an information paper containing data relative to a specific product. The types of information shown are detailed in the Hazardous Products Act and Hazardous Products Regulations. There is no specific format established by law in Canada, but the SDS must meet the requirements of WHMIS 2015 and Schedule 1 of the Hazardous Products Regulations. 9.3 The SDS at a minimum, must contain information under the following 11 headings. <ul style="list-style-type: none"> a. Identification; b. Hazard Identification; c. Composition/Information on Ingredients; d. First-Aid Measures; e. Fire-Fighting Measures; f. Accidental Release Measures; g. Handling and Storage; h. Exposure Controls/Personal Protection; i. Physical and Chemical Properties; j. Stability and Reactivity; and k. Toxicological Information. 		

DATA ITEM DESCRIPTION - DESCRIPTION D'ÉLÉMENT DE DONNÉES

1. TITLE - TITRE Declaration of Design and Performance	2. IDENTIFICATION NUMBER - NUMÉRO D'IDENTIFICATION DID ILS-005	
3. DESCRIPTION/PURPOSE - DESCRIPTION/OBJET Declaration of Design and Performance provides DND with a summary of the standards, specifications, and performance parameters that the equipment is manufactured and tested to. This Document facilitates DND in platform airworthiness certification		
4. APPROVAL DATE - DATE D'APPROBATION 21 Days after submission	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) GPS Project Manager	6. ORIGINATOR - AUTEUR DTAES 6-7
7. APPLICATION/INTERRELATIONSHIP - APPLICATION/INTERDÉPENDANCE N/A	8. APPLICABLE FORMS - FORMULES PERTINENTES N/A	
9. PREPARATION INSTRUCTIONS - INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES 9.1 The Declaration of Design and Performance must be prepared in Contractor format, and must be submitted electronically to the TA. 9.2 Documents referenced in the Declaration of Design and Performance must be made available to DND as required for platform airworthiness certification. 9.3 AMC 21A.608 can be used as a guideline for content.		

DATA ITEM DESCRIPTION - DESCRIPTION D'ÉLÉMENT DE DONNÉES

<p>1. TITLE – TITRE Technical Documentation</p>	<p>2. IDENTIFICATION NUMBER - NUMÉRO D'IDENTIFICATION DID ILS-006</p>	
<p>3. DESCRIPTION/PURPOSE - DESCRIPTION/OBJET The purpose of this guide is to explain the installation, operation, maintenance, and troubleshooting of all hardware. The guide will be used to produce aircraft modification and maintenance instruction manuals.</p>		
<p>4. APPROVAL DATE - DATE D'APPROBATION 2 Months after contract award</p>	<p>5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) GPS Project Manager</p>	<p>6. ORIGINATOR - AUTEUR DTAES 6-7</p>
<p>7. APPLICATION/INTERRELATIONSHIP - APPLICATION/INTERDÉPENDANCE N/A</p>	<p>8. APPLICABLE FORMS - FORMULES PERTINENTES N/A</p>	
<p>9. PREPARATION INSTRUCTIONS - INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES</p> <p>9.1 Must be prepared in the Contractor's format, and must be submitted electronically to the TA.</p> <p>9.2 As a minimum the documentation must include the following information:</p> <ul style="list-style-type: none"> a. system overview; b. installation and removal instructions c. brief description of each major component/peripheral; d. user care and maintenance procedures; and e. operating instructions and trouble-shooting guide. 		

DATA ITEM DESCRIPTION - DESCRIPTION D'ÉLÉMENT DE DONNÉES

1. TITLE – TITRE Level Two Drawings and Cataloguing Data	2. IDENTIFICATION NUMBER - NUMÉRO D'IDENTIFICATION DID ILS-007	
3. DESCRIPTION/PURPOSE - DESCRIPTION/OBJET Cataloguing Data is required for DND to catalogue all LRU's.		
4. APPROVAL DATE - DATE D'APPROBATION N/A	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) GPS Project Manager	6. ORIGINATOR - AUTEUR DTAES 6-7
7. APPLICATION/INTERRELATIONSHIP - APPLICATION/INTERDÉPENDANCE N/A	8. APPLICABLE FORMS - FORMULES PERTINENTES N/A	
9. PREPARATION INSTRUCTIONS - INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES 9.1 The Contractor must provide in Contractor format, and must include the content in this DID. 9.2 Data and drawings to enable National Stock Code cataloguing of system Line Replaceable Units and to facilitate aircraft and testing installation design. 9.3 Cataloguing Data provided must include a description of each Line Replaceable Unit (LRU) and each Shop Replaceable Assembly (SRA), as well as the following information: <ol style="list-style-type: none"> a. Item Name Basic; b. Manufacturer's Reference Number (OEM); c. NATO Supply Code for Manufacturer (NSCM); d. Sub Contractor's Part Number (if assigned); e. NATO Stock Number; f. Unit Price (budgetary); g. Unit of issue; h. Weight (kg); i. Shelf Life (if applicable); j. Reference Designation (for LRUs); k. Procurement Lead Time; and l. Next Higher Assembly (for LRUs). 		

DATA ITEM DESCRIPTION - DESCRIPTION D'ÉLÉMENT DE DONNÉES

1. TITLE – TITRE Safety System Analysis Report	2. IDENTIFICATION NUMBER - NUMÉRO D'IDENTIFICATION DID ILS-008	
3. DESCRIPTION/PURPOSE - DESCRIPTION/OBJET The system safety analysis report contains both software and hardware evaluations that are used to determine the risks in airworthy accreditation on effected RCAF Platforms.		
4. APPROVAL DATE - DATE D'APPROBATION 45 days after submission	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR) GPS Project Manager	6. ORIGINATOR - AUTEUR DTAES 6-7
7. APPLICATION/INTERRELATIONSHIP - APPLICATION/INTERDÉPENDANCE N/A	8. APPLICABLE FORMS - FORMULES PERTINENTES N/A	
9. PREPARATION INSTRUCTIONS - INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES 9.1 The Safety System Analysis Report must be prepared in Contractor format and must be submitted electronically to the TA. 9.2 MIL-STD-882 or SAE Standard ARP4761 can be used as guidelines for format and content. 9.3 Equivalency documents, such as Failure Mode Effect Analysis (FMEA), Failure Modes, Effects, and Critical Analysis report (FMECA), Functional Hazard Assessment (FHA) must be agreed upon by all parties.		

**APPENDIX 3 - MINIMUM REQUIREMENTS OF A
GLOBAL POSITIONING SYSTEM ANTI-JAM SYSTEM
TO
DEPARTMENT OF NATIONAL DEFENCE
STATEMENT OF WORK FOR THE
CH-146 GLOBAL POSITIONING SYSTEM
ANTI-JAM ANTENNA SYSTEM**

Prepared By:

DTAES 6-7

10 September 2020

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- 3.2 INTEGRITY
- 3.3 ENVIRONMENTAL
- 3.4 ENVIRONMENTAL - INSTALLATION OUTSIDE OF AIRFRAME

4. INTERFACE REQUIREMENTS

- 4.1 CONFIGURATION
- 4.2 SYSTEM POWER
- 4.3 COOLING
- 4.4 WEIGHT
- 4.5 SIZE
- 4.6 CABLES

1. SCOPE

- 1.1 Purpose. This Specification describes the minimum requirements that a GPS Anti-Jam System must meet to be considered for integration on the CH-146 helicopter fleet.
- 1.2 Applicability. This Specification is an integral part of CH-146 Griffon Global Positioning System Anti-Jam Procurement SOW. All requirements specified are mandatory and all standards or specifications referenced within the documents are mandatory to the extent as indicated in the parent document for the required capability.
- 1.2.1 All Terminology and Applicable Documents listed in the CH-146 GPS Anti-Jam Antenna System SOW are applicable to this Specification.

2. PERFORMANCE REQUIREMENTS

- 2.1 GPS C/A Code. The GPS anti-jam system must be capable of processing GPS C/A code signals as specified in IS-GPS-200 from L1, 1.57542 GHz to provide a RF signal out for a minimum of one Miniaturized Airborne GPS Receiver model MAGR 2000 SAASM 12 or 24 Channel.
- 2.2 GPS P(Y) Code. The GPS anti-jam system must be capable of processing GPS P(Y) code signals as specified in IS-GPS-200, and IS-GPS-224 from L1, 1.57542 GHz and L2, 1.22760 GHz to provide a RF signal out for a minimum of one Miniaturized Airborne GPS Receiver model MAGR 2000 SAASM 12 or 24 Channel.
- 2.3 GPS M Code. The GPS anti-jam system must be capable of processing, with at most an AE software upgrade, the planned future GPS M code signals as specified in ICD-GPS-700 and IS-GPS-703 from L1, 1.57542 GHz and L2, 1.22760 GHz to provide a RF signal out for a minimum of one Miniaturized Airborne GPS Receiver model MAGR 2000 M.
- 2.4 Latency. The GPS anti-jam system must have a Quiescent Time Delay of no greater than 31.0 microseconds.
- 2.5 Band Selection. The GPS anti-jam system must protect L1 and L2 simultaneously unless the system can select L1 or L2 for protection as required without input from the aircraft GPS receiver or crew member.
- 2.6 J/S Performance. The GPS anti-jam system, while under the effects of rotor modulation, must be able to provide protection for four independent and simultaneous threats, and must provide the indicated performance when connected to a Miniature Airborne GPS Receiver 2000 SAASM (MAGR2KS) 12 or 24 channel, for each of the following types and quantity of threats:

- a. 80 dB J/S for no less than four independent and simultaneous 20/24 MHz BB (Broad Band) AWGN (Additive White Gaussian Noise) threats;
 - b. 85 dB J/S for no less than four independent and simultaneous 2 MHz NB (Narrow Band) AWGN threats;
 - c. 90 dB J/S for no less than four independent and simultaneous CW (Continuous Wave) threats; and
 - d. 90 dB J/S for no less than four independent and simultaneous Swept CW threats.
- 2.6.1 The GPS anti-jam system, must be able to meet the performance requirements specified in RTCA DO-301 section 2.2 for the L1 Frequency Band, when operating in GPS benign environment, in providing the necessary information.
- 2.6.2 All performance testing will be completed with a total RF cable loss consistent with the CH146 aircraft's at 9 dB for L1 and 8 dB for L2 from the system's RF output to the GPS receivers RF input.
- 2.7 BIT. The GPS anti-jam system must include a power-up BIT and a non-interruptive continuous BIT that verifies the operational status of the system.
- 2.7.1 The GPS anti-jam system must have the capacity to display a failed BIT.
3. **CERTIFICATION REQUIREMENTS**
- 3.1 Reliability. The GPS anti-jam system must be designed as to provide mature mean time between failures (MTBF) of 6000 hours in an Airborne Rotary Wing environment.
- 3.2 Integrity. The GPS anti-jam system must be designed as to have no mode of operation or failure mode that has the capability of corrupting the navigation solution of a typical SAASM GPS Receiver.
- 3.3 Environmental. The GPS anti-jam system must meet the following applicable environmental conditions.
- 3.3.1 Altitude; MIL-STD-810G method 500.5 or equivalent, passing a minimum altitude of 6,600 Meters.
- 3.3.2 High Temperature; MIL-STD-810G method 501.5 or equivalent, passing an upper operational temperature of +71 degrees Celsius and upper storage temperature of +71 degrees Celsius.
- 3.3.3 Low Temperature; MIL-STD-810G method 502.5 or equivalent, passing a lower operational temperature of -40 degrees Celsius and a lower storage temperature of -54 degrees Celsius.

- 3.3.4 Waterproofness; MIL-STD-810G method 506.5 Procedure III Drip test or equivalent for the AE, and Procedure I Rain or Blowing Rain for the antenna.
- 3.3.5 Humidity; MIL-STD-810G method 507.5 procedure II or equivalent.
- 3.3.6 Fungus Resistance; MIL-STD-810G method 508.6 or equivalent.
- 3.3.7 Dust; MIL-STD-810G method 510.5 procedure I or equivalent.
- 3.3.8 Acceleration; MIL-STD-810G method 513.6 procedure I or equivalent.
- 3.3.9 Vibration; MIL-STD-810G method 514.6 procedure I or equivalent.
- 3.3.10 Mechanical Shock; MIL-STD-810G method 516.6 procedures I or equivalent passing a minimum operating level of 20 g-forces and a minimum Crash Hazard level of 40 g-forces.
- 3.3.11 EMC; MIL-STD-461F or equivalent, passing tests CE101, CE102, CE106, RE101, RE102, CS101, CS103, CS104, CS114, CS115, CS116, RS101, RS103 or equivalent.
- 3.4 Environmental – Installations Outside of Airframe. In addition to the environmental requirements in 3.3 above, any LRU installed outside of the airframe must meet the following applicable environmental conditions:
 - 3.4.1. Temperature Shock; MIL-STD-810G method 503.5 or equivalent.
 - 3.4.2 Fluid Contamination; MIL-STD-810G method 504.1 or equivalent.
 - 3.4.3 Immersion; MIL-STD-810G, method 512.5 or equivalent.
 - 3.4.4 Salt Fog; MIL-STD-810G method 509.5 or equivalent.
 - 3.4.5 Lightning; MIL-STD-464A, Zone 1C or equivalent.

4. PLATFORM INTEGRATION REQUIREMENTS

- 4.1 Configuration. The GPS anti-jam system must consist of an Antenna Electronic Control Unit and an Antenna with a maximum of three Line Replaceable Units (LRU). These may be combined into one Line Replaceable Unit if it meets the size constraints dictated in para 4.5.1 and weight constraints dictated in para 4.4. The maximum of three LRUs includes a separate power on/off control unit if required in order to meet SOW App 3, 4.2.2 and a separate BIT display unit if required to meet SOW App 3, 2.7.1.

- 4.2 System Power. The GPS anti-jam system must operate as specified when supplied with MIL-STD-704 28 volts DC.
- 4.2.1 The GPS anti-jam system must consume no more than 50 watts of power.
- 4.2.2 The GPS anti-jam system must power on and power off utilizing the 5 Vdc (+/-0.5Vdc) 90 milliamp maximum bias provided on the RF co-axial center conductor by the Miniature Airborne GPS Receiver.
- 4.3 Cooling. The GPS anti-jam system must not require forced air cooling for continuous operations.
- 4.4 Weight. The GPS anti-jam system must have a total system weight including coax cables from Antenna to Antenna Electronic Control Unit of less than 7 kg.
- 4.5 Size. The system must meet the maximum size constraints as per para 4.5.1 and 4.5.2.
- 4.5.1 The GPS anti-jam system Antenna must fit within an area defined as 20.5 cm in width by 25.5 cm in length by 10 cm in height.
- 4.5.2 The GPS anti-jam system Antenna Electronic Control Unit must have a volume less than 4,200 cm³ with any dimension not exceeding 34 cm, including connectors and mounting points. If required, separate power on/off control and a BIT display units must fit within the maximum volume for the Antenna Control Unit (4,200 cm³).
- 4.6 Cables. The GPS anti-jam system must utilize coaxial cables between the Antenna and Antenna Electronic Control Unit assembly that meet MIL-DTL-17 requirements for environmental conditions specified in para 3.3.
- 4.6.1 The GPS anti-jam system coaxial cables must be of a length to support no less than a 3 foot installation distance between the Antenna and Antenna Electronic Control Unit.

ANNEX “B”

BASIS OF PAYMENT

1. System Firm Unit Price

The individual item Firm Unit Prices are as follows:

Option A – Quantity 100 with up to 15 additional units:

Item	System Identifier	Firm Unit Price
Cables, & Hardware		
Line Replaceable Unit (LRU) 1		
Line Replaceable Unit (LRU) 2		
Line Replaceable Unit (LRU) 3		
Anti-Jam System	System Firm Price	

Option B - Quantity 100 with up to 46 additional units:

Item	System Identifier	Firm Unit Price
Cables, & Hardware		
Line Replaceable Unit (LRU) 1		
Line Replaceable Unit (LRU) 2		
Line Replaceable Unit (LRU) 3		
Anti-Jam System	System Firm Price	

2. Multiple Payments - Equipment Delivery

The Contractor will be paid, Firm Extended Prices (DDP included – Incoterms 2010) as shown in the table below, on completion of each system delivery.

Deliverable Item	System Identifier	Delivery Schedule	Equipment Delivery		
		Months After Contract Award - (MACA)	System Firm Price	Qty	Firm Extended Price
Anti-Jam System		6		4	
Anti-Jam System		7		8	
Anti-Jam System		8		8	
Anti-Jam System		9		8	
Anti-Jam System		10		8	
Anti-Jam System		11		8	
Anti-Jam System		12		8	
Anti-Jam System		13		8	

Deliverable Item	System Identifier	Delivery Schedule	Equipment Delivery		
		Months After Contract Award - (MACA)	System Firm Price	Qty	Firm Extended Price
Anti-Jam System		14		8	
Anti-Jam System		15		8	
Anti-Jam System		16		8	
Anti-Jam System		17		8	
Anti-Jam System		18		8	
				Subtotal	
				GST/HST	
				Cumulative Total	

3. Multiple Payments – Option A - Equipment Delivery

The Contractor shall be paid, Firm Fixed Extended Prices (FFP) (DDP included – Incoterms 2010) as shown in the table below

Option A	System Identifier	Delivery Schedule	Equipment Delivery		
Deliverable tem		Months After Contract Award - (MACA)	System Firm Price	Qty	Firm Extended Price
Option A - Anti-Jam Systems		19		Up to 8	
Option A - Anti-Jam Systems		20		Up to 7	
				Subtotal	
				GST/HST	
				Cumulative Total	

4. Multiple Payments - Optional B - Equipment Delivery

The Contractor shall be paid, Firm Fixed Extended Prices (FFP) (DDP included – Incoterms 2010) as shown in the table below

Option B	System Identifier	Delivery Schedule	Equipment Delivery		
Deliverable tem		Months After Contract Award - (MACA)	System Firm Price	Qty	Firm Extended Price
Option B - Anti-Jam Systems		19		Up to 8	
Option B - Anti-Jam Systems		20		Up to 8	

Option B		Delivery Schedule	Equipment Delivery		
Deliverable tem	System Identifier	Months After Contract Award - (MACA)	System Firm Price	Qty	Firm Extended Price
Option B - Anti-Jam Systems		21		Up to 8	
Option B - Anti-Jam Systems		22		Up to 8	
Option B - Anti-Jam Systems		23		Up to 8	
Option B - Anti-Jam Systems		24		Up to 6	
				Subtotal	
				GST/HST	
				Cumulative Total	

5. Additional Deliverables

The Contractor shall be paid, Firm Extended Prices (FEP) as shown in the table below.

Item	CDRL #	Firm Unit Price	Qty	Firm Extended Price
Technical Documentation	CDRL-011		1	
Test Equipment (If applicable)				
System Safety Analysis Report	CDRL-013		1	
			Subtotal	
			GST/HST	
			Total	

6. Engineering Support

The Contractor will be paid a Fixed Time Rate if Engineering Support is requested by the Contracting Authority. Goods and Services Tax (GST), Harmonized Sales Tax (HST) and custom duties or levies if applicable, must be included as separate items on invoices. The estimated Level of Effort per year is 100 hours.

The Contractor will be paid in arrears, a Fixed Time Rate of:

	Year 1	Year 2	Year 3	Year 4
Fixed Time Rate	\$	\$	\$	\$

7. Repair Services

For all Repair Services, as described in the Statement of Work (SOW) at Annex A, the Contractor will be paid on a per repair cost basis, up to a Maximum Repair Cost (MRC) of 50% of the item's Fixed Unit Price and no more than \$ _____ (will be inserted at contract award) per year.

Solicitation No. - N° de l'invitation
W8475-18GPS3/A
Client Ref. No. - N° de réf. du client
6000433544

Amd. No. - N° de la modif.
File No. - N° du dossier
W8475-18GPS3/001/BG

Buyer ID - Id de l'acheteur
002bg
CCC No./N° CCC - FMS No./N° VME

8. Option Years – Fixed Time rate

The Fixed Time Rate for the option year/s will be incorporated in this document prior to exercising the option/s.

The rates for each subsequent Calendar Year (CY) during the period of the contract will utilize the previous CY rates on an interim basis subject to adjustment upon completion of the annual rate negotiations between PWGSC and the Contractor for each CY.

The Fixed Time Rate must be in accordance with Contract Cost Principles 1031-2 and profit must be in accordance with the PWGSC profit policy in effect at commencement of this contract.

Solicitation No. - N° de l'invitation
 W8475-18GPS3/A
 Client Ref. No. - N° de réf. du client
 6000433544

Amd. No. - N° de la modif.
 File No. - N° du dossier
 W8475-18GPS3/001/BG

Buyer ID - Id de l'acheteur
 002bg
 CCC No./N° CCC - FMS No./N° VME

ANNEX "C"

SECURITY REQUIREMENTS CHECK LIST

 Government of Canada / Gouvernement du Canada	Contract Number / Numéro du contrat
	W8475-18GPS3
	Security Classification / Classification de sécurité
	UNCLASS

**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	2. Branch or Directorate / Direction générale ou Direction	
DND	ADM(Mat) / DGAPEM / DTAES	
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		
The GPS AN project will procure "off the shelf" GPS anti-jam antennas for the CH 146 fleet. This procurement is planned through a competitive process. The procured systems equipment will be installed under the CH 146 fleet's current in service support contracts (W8485-07MBS0/001/BF) covered under an existing SRCL. This SRCL addresses the equipment procurement only. Note that the GOC will not provide any information other than open source. The equipment and technical data procured will be Controlled Goods.		
5. a) Will the supplier require access to Controlled Goods? / Le fournisseur aura-t-il accès à des marchandises contrôlées?		
<input type="checkbox"/> No / Non <input checked="" 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 checked="" type="checkbox"/> No / Non <input 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 type="checkbox"/> No / Non <input checked="" 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	NATO / OTAN	Foreign / Étranger
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. b) Release restrictions / Restrictions relatives à la diffusion		
No release restrictions / Aucune restriction relative à la diffusion	All NATO countries / Tous les pays de l'OTAN	No release restrictions / Aucune restriction relative à la diffusion
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Not releasable / À ne pas diffuser		
<input type="checkbox"/>		
Restricted to: / Limité à:	Restricted to: / Limité à:	Restricted to: / Limité à:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Specify country(ies): / Préciser le(s) pays:	Specify country(ies): / Préciser le(s) pays:	Specify country(ies): / Préciser le(s) pays:
Embedded Contractor, therefore Canadian citizenship is required		
7. c) Level of information / Niveau d'information		
PROTECTED A / PROTÉGÉ A	NATO UNCLASSIFIED / NATO NON CLASSIFIÉ	PROTECTED A / PROTÉGÉ A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROTECTED B / PROTÉGÉ B	NATO RESTRICTED / NATO DIFFUSION RESTREINTE	PROTECTED B / PROTÉGÉ B
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROTECTED C / PROTÉGÉ C	NATO CONFIDENTIAL / NATO CONFIDENTIEL	PROTECTED C / PROTÉGÉ C
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CONFIDENTIAL / CONFIDENTIEL	NATO SECRET / NATO SECRET	CONFIDENTIAL / CONFIDENTIEL
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SECRET / SECRET	COSMIC TOP SECRET / COSMIC TRÈS SECRET	SECRET / SECRET
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOP SECRET / TRÈS SECRET		TOP SECRET / TRÈS SECRET
<input type="checkbox"/>		<input type="checkbox"/>
TOP SECRET (SIGINT) / TRÈS SECRET (SIGINT)		TOP SECRET (SIGINT) / TRÈS SECRET (SIGINT)
<input type="checkbox"/>		<input type="checkbox"/>

TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité
UNCLASS





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PART A (continued) / PARTIE A (suite)

8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS? No Yes
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?
Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate? No Yes
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 checked="" type="checkbox"/> RELIABILITY STATUS COTE DE FIABILITÉ	<input type="checkbox"/> CONFIDENTIAL CONFIDENTIEL	<input 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 : _____

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?
Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail? No Yes
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?
Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS? No Yes
Non Oui

11. b) Will the supplier be required to safeguard COMSEC information or assets?
Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC? No Yes
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?
Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ? No Yes
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?
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? No Yes
Non Oui

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



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Security Classification / Classification de sécurité UNCLASS

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 PROTÉGÉ			CLASSIFIED CLASSIFIÉ			NATO				COMSEC					
	A	B	C	CONFIDENTIAL CONFIDENTIEL	SECRET	TOP SECRET TRÈS SECRET	NATO RESTRICTED NATO DIFFUSION RESTREINTE	NATO CONFIDENTIAL NATO CONFIDENTIEL	NATO SECRET	COSMIC TOP SECRET COSMIC TRÈS SECRET	PROTECTED PROTÉGÉ			CONFIDENTIAL	SECRET	TOP SECRET TRÈS SECRET
											A	B	C			
Information / Assets Renseignements / Biens Production																
IT Media / Support I																
IT Link / Lien (électronique)																

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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6000433544

Amd. No. - N° de la modif.
File No. - N° du dossier
W8475-18GPS3/001/BG

Buyer ID - Id de l'acheteur
002bg
CCC No./N° CCC - FMS No./N° VME

ANNEX "D"

EVALUATION PLAN

EVALUATION PLAN

FOR THE

CH-146 GLOBAL POSITIONING SYSTEM

ANTI-JAM ANTENNA SYSTEM

Prepared By:
DTAES 6-7

13 October 2020

1.0 GENERAL

1.1 Introduction. System selection will be based on best value. Evaluation and selection criteria are provided in this document.

1.2 Description. This Evaluation Plan describes procedures for evaluating responses to the CH-146 GPS Anti-Jam System Request For Proposal (RFP) in order to assess:

- a. Compliance with all Mandatory Requirements as addressed by the contractor (listed in Table 1) and validated by DND (listed in Table 2);
- b. Degree to which the provided system satisfies Rated Requirement as measured or tested by DND (listed in Table 3); and
- c. Cost factors (listed in Table 4).

1.3 Requirements Precedence. In the event of a contradiction between the requirements indicated in this Evaluation Plan and the Statement of Work (SOW) (including appendixes to the SOW), the SOW takes precedence.

1.4 Terminology. The terminology used within this document is equivalent to those described in Annex A SOW para 1.4.

2.0 EVALUATION CRITERIA

2.1 Evaluation Phases. The evaluation process will be conducted in four phases:

2.1.1 Phase 1. All mandatory requirements pertaining to the GPS Anti-Jam System specified in the SOW that can be answered with a Yes/No will be reviewed for full compliance. These items are listed in Table 1 and Table 2, Mandatory Requirements and Mandatory Validated Requirements. All systems that are found fully compliant in Phase 1 of the evaluation will then be evaluated in Phase 2 and Phase 3.

2.1.2 Phase 2. The requirements pertaining to performance specified in Appendix 3, para 2 of the SOW (listed in Table 3) and platform integration specified in Appendix 3, para 4 of the SOW (listed in Table 4), will be evaluated and assessed using an overall numerical rating. This evaluation will consist of evaluating compliant systems from Phase 1 using bidder provided material and evidence. Evidence consists of any type of supporting information that can be used to substantiate a bidder's claim of performance and platform integration.

2.1.3 Phase 3. The items listed in Table 5 will be evaluated and assessed using an overall numerical rating.

2.1.4 Phase 4: The top three system based on numerical scores from Phases 2 and 3 will be required to provide systems for laboratory evaluation testing. These systems will be evaluated in the laboratory for the performance specified in Appendix 3, para 2 of the SOW (listed in Table 3) and platform integration specified in Appendix 3, para 4 of the SOW (listed in Table 4). This laboratory testing will verify the scores from Phase 2. If testing determines a change in performance this score will become part of the final rating for that system.

2.2 Technical Evaluation Method. For all rated requirements, a qualitative assessment will be made using available data, as compared to all other proposed system that are found compliant under Phase 1 of the evaluation. A weighting factor will be applied to each requirements' awarded points proportional to their criticality, resulting in the requirements score.

2.2.1 For each Rated Performance Requirement (listed in Table 3), the highest performing system will be awarded the highest points value =. Each other system will be awarded points based on their performance in relation to the highest performing system and the base requirement. It will be possible for more than one system to earn the same score for any given requirement.

2.2.2 For each Rated Platform Integration Requirement (listed in Table 4), the best suited system will be awarded the highest points value Each other system will be awarded points based on their suitability in relation to the best suited system and the base requirement. It will be possible for more than one system to earn the same score for any given requirement.

2.2.2.1 The terms "suited" or "suitability" refer to how much the systems affects the integrations in the aircraft, in terms of effects on operations and installation cost. For example, a lighter system is better as it will have less affect the center of gravity and maximum payload of the aircraft, and will require less expensive mounting hardware.

2.3 Cost Evaluation Method. For all the proposed systems that are found compliant under Phase 1 they will be evaluated using contractor provided cost data, as compared to all other proposed system.

2.3.1 For Table 5 the lowest cost system will be awarded the highest points value while the highest cost system will be awarded the lowest points value. Each other system will be awarded points based on their cost in relation to the highest and lowest cost system. To be more specific, the cost of each bid will be compared to the lowest cost compliant bid. The lowest bid cost will be divided by each bid submission to form a raw score, which will then be multiplied by the weight factor to obtain the final cost score. It will be possible for more than one system to earn the same score for any given item.

2.4 Score Weighting. An example is set out in Table 6 to show how the score for each system under each of the following factors would be calculated.

Cost	30%	X	Overall Score	=	Final Score
Performance	40%	X	Overall Score	=	Final Score
Platform Integration	30%	X	Overall Score	=	Final Score

Total 100% System Total Score out of 100

3.0 SELECTION CRITERIA

3.1 Methodology. Best overall value to Canada in terms of Performance, Platform Integration and Cost will determine which bidder receives the contract. The best value to Canada will be represented by the highest Final Score.

3.2 Changes to Proposal. Canada will not accept any changes to the proposals after the proposal closing date. However, Canada representatives may, at their discretion, request clarification from bidders regarding their proposals.

3.3 Facilities Review. Canada may conduct a Facilities Review of one or more of the bidders in order to allow a technical determination of contractor suitability.

3.4 Evaluation System. In order to evaluate GPS Anti-Jam Systems under Phase 4, Contractors will be required to hand carry one or loan one of the proposed systems to Canada, including test equipment if required for BIT display. The Contractor must make available one anti-jam system complete with coaxial cables for laboratory evaluation testing against requirements of the Statement of Work (SOW) and its appendixes. This includes any test equipment required to meet the Built-In Test (BIT) display requirement detailed in SOW para 2.7.1 of Appendix 3. The system will be evaluated at Defence Research &

Development (DRDC) Center in Ottawa, Ontario. Contractor representation will be allowed on-site during evaluation.

3.4.1 Coaxial Cable lengths. For system evaluation the coaxial length indicated in SOW para 4.6.1 of Appendix 3, will be used.

4.0 PROPOSAL SUBMISSION REQUIREMENTS

4.1 Mandatory Requirements Table. The Contractor must provide with the proposal a completed table 1, table 2 along with documentation and evidence to show compliance to requirements in table 1, table 2, table 3 and table 4. In order to show compliance with the various requirements a bidder must include specific references to allow the location and verification of where in the bid and included supporting documentation the evidence resides.

4.3 Level Two Drawings. The Contractor must submit a copy of the level two drawings for each LRU required, with the proposal, to permit antenna mount adapter fabrication for the laboratory evaluation testing and to permit assessment of installation complexity of all LRUs.

MANDATORY REQUIREMENTS - TABLE 1

#	Reference	Has the Bidders proposal ...?	Answer
1	SOW 3.2	offered 100 Anti-Jam systems complete with necessary antennas and coaxial cables	Yes/No
2	SOW 3.3	included repair services support for delivery period & 2 years after last	Yes/No
3	SOW 3.4	agreed to identify a project manager for contract	Yes/No
4	SOW 3.4.3	included a draft project schedule that meets para 4.5	Yes/No
5	SOW App 3, 2.1	confirmed that the proposed GPS Anti-Jam system processes GPS C/A code	Yes/No
6	SOW App 3, 2.2	confirmed that the proposed GPS Anti-Jam system processes GPS P(Y) code	Yes/No
7	SOW App 3, 2.3	Documented evidence that the system can process GPS M code IAW ICD-GPS-700 & IS-GPS-703 at most with an AE software upgrade.	Yes/No
8	SOW App 3, 3.1	confirmed that the proposed GPS Anti-Jam system has a MTBF of 6000hr or greater	Yes/No
9	SOW App 3, 3.2	confirmed that the GPS Anti-Jam system has no modes of operation or failure modes that have the capability of corrupting the navigation solution of a SAASM GPS receiver	Yes/No
10	SOW App 3, 3.3, 3.4	confirmed that the GPS Anti-Jam system meets the environmental conditions listed and has explained and detailed any claimed equivalent standard	Yes/No

MANDATORY VALIDATED REQUIREMENTS - TABLE 2

#	Reference	Does the bid provide proof to support its' and claims, and identify a system that can...? ...?	Answer
1	SOW App 3, 2.1	process GPS C/A code IAW IS-GPS-200 when connected to a MAGR 2KS receiver	Yes/No
2	SOW App 3, 2.2	process GPS P(Y) code from GPS Bands L1 & L2 IAW IS-GPS-200 & IS-GPS-224 when connected to a MAGR 2KS receiver	Yes/No
3	SOW App 3, 2.4	have a QTD no greater than 31 micro-seconds	Yes/No
4	SOW App 3, 2.5	at a minimum, selects L1 or L2 for protection without input from crew or aircraft receiver	Yes/No
5	SOW App 3, 2.6a	provide 80 dB J/S performance against 4 independent & simultaneous broad band AWGN threats	Yes/No
6	SOW App 3, 2.6b	provide 85 dB J/S performance against 4 independent & simultaneous 2 MHz Narrow Band AWGN threats	Yes/No
7	SOW App 3, 2.6c	provide 90 dB J/S performance against 4 independent & simultaneous Continuous Wave threats	Yes/No
8	SOW App 3, 2.6d	provide 90 dB J/S performance against 4 independent & simultaneous swept Continuous Wave threats	Yes/No
9	SOW App 3, 2.6.1	meet the performance requirements specified in RTCA DO-301 section 2.2 for the L1 Frequency Band, when operating in GPS benign environment	Yes/No
10	SOW App 3, 2.7	include a system power-up BIT	Yes/No
11	SOW App 3, 2.7	include a system continuous BIT	Yes/No
12	SOW App 3, 2.7.1	have the capacity to display a failed system BIT	Yes/No
13	SOW App 3, 4.1.	have a maximum of three LRUs	Yes/No
14	SOW App 3, 4.2.	operate using 28VDC IAW MIL-STD-704	Yes/No
15	SOW App 3, 4.2.1	consume no more than 50 watts power	Yes/No
16	SOW App 3, 4.2.2	utilizes the 5VDC bias provided on the RF coaxial center conductor to power on the system	Yes/No
17	SOW App 3, 4.3	operate without forced air cooling	Yes/No
18	SOW App 3, 4.4	have a total system weight including coax cables from Antenna to Antenna Electronic Unit of less than 7 Kg	Yes/No
19	SOW App 3, 4.5.1	have an that Antenna fits within an area defined as 20.5 cm in width by 25.5 cm in length by 10 cm in height.	Yes/No
20	SOW App 3, 4.5.2	have an that Antenna Electronic Unit that has a volume less than 4,200 cm ³ with any dimension not exceeding 34 cm, including connectors and mounting points	Yes/No
21	SOW App 3, 4.6.1	have coaxial cables of a length to support no less than a 3 foot installation distance between the Antenna and Antenna Electronics	Yes/No

RATED PERFORMANCE REQUIREMENTS - TABLE 3

#	Reference	Weight Factor ("A")	Requirement		Requirement Score:	
			Requirement	Systems' performance for each requirement relative to the highest performing system: ("B")		Highest Performing System Performance ("C")
1	SOW App 3, 2.5	10	The GPS anti-jam system must protect L1& L2 simultaneously unless the system can select L1 or L2 for protection as required without input from the aircraft GPS receiver or crew member.	N/A	"C" equals: The GPS anti-jam system can protect L1& L2 simultaneously.	(10 points for being the highest performing system)
2	SOW App 3, 2.6a	21	The GPS anti-jam system, while under the effects of rotor modulation, when connected to a SAASM receiver, provide 80 dB J/S performance against 4 independent & simultaneous broad band AWGN threats	Systems' performance for each requirement relative to the highest performing system: "B" equals bidder system performance divided by "C".	"C" equals highest performing system	"A" x "B" (up to 21 points)
3	SOW App 3, 2.6b	21	The GPS anti-jam system, while under the effects of rotor modulation, when connected to a SAASM receiver, provide 85 dB J/S performance against 4 independent & simultaneous 2 MHz Narrow Band AWGN threats			"A" x "B" (up to 21 points)
4	SOW App 3, 2.6c	21	The GPS anti-jam system, while under the effects of rotor modulation, when connected to a SAAM receiver, provide 90 dB J/S performance against 4 independent & simultaneous Continuous Wave threats			"A" x "B" (up to 21 points)
5	SOW App 3, 2.6d	21	The GPS anti-jam system, while under the effects of rotor modulation, When connected to a SAAM receiver, system provide 90 dB J/S performance against 4 independent & simultaneous swept Continuous Wave threats			"A" x "B" (up to 21 points)
6	SOW App 3, 2.7.1	6	The GPS anti-jam system must have the capacity to display a failed BIT.			Cable to GPS, Simple failure indication, Etc.
	TOTALS	100		Overall Score (Out of 100)		up to 100 points

RATED PLATFORM INTEGRATION REQUIREMENTS - TABLE 4

#	Reference	Weight Factor ("A")	Requirement			Requirement Score:
			Requirement	Systems' performance for each requirement relative to the highest performing system: ("B")	Highest Performing System Performance ("C")	
1	SOW App 3, 4.1	20	The GPS anti-jam system must consist of an Antenna Electronic Control Unit and an Antenna with a maximum of three Line Replaceable Units.	Systems' performance for each requirement relative to the highest performing system: "B" equals "C" divided by bidder system integration requirement	System with the least LRUs	"A" x "B" up to 20 points
2	SOW App 3, 4.2.1	5	The GPS anti-jam system must consume no more than 50 watts of power.		System with the lowest power consumption	"A" x "B" up to 5 points
3	SOW App 3, 4.4	20	The GPS anti-jam system must have a total system weight including coax cables from Antenna to Antenna Electronic Unit of less than 7 Kg.		System with the lowest total weight	"A" x "B" up to 20 points
4	SOW App 3, 4.5.1	25	The GPS anti-jam system Antenna must fit within an area defined as 20.5 cm in width by 25.5 cm in length by 10 cm in height.		System with the lowest surface area	"A" x "B" up to 25 points
5	SOW App 3, 4.5.2	30	The GPS anti-jam system Antenna Electronic Unit must have a volume less than 4,200 cm ³ with any dimension not exceeding 34 cm, including connectors and mounting points.		System with the lowest volume	"A" x "B" up to 30 points
	TOTALS	100		Overall Score (Out of 100)	Up to 100 points	

DELIVERABLE COST - TABLE 5

#	References	Deliverables Costs	Bid Cost ("B")	Lowest Bid Cost ("C")	Cost Score: (System's cost relative to the lowest cost system)
1	SOW 4.2, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, and 4.13.	Anti-Jam Systems, Cables, & Hardware, Test Equipment (if required); and Data Items	Bid Cost	Lowest bid cost	"C" divided "B"
	Overall Cost Score				

BASIS OF SELECTION EXAMPLE - TABLE 6

The following example is to illustrate a theoretical scenario with fictitious score and costs using three bidders.

Basis of Selection - Highest Combined Rating Technical Merit (70%) and Price (30%)				
		Bidder 1	Bidder 2	Bidder 3
Overall Performance Score		95/100	89/100	92/100
Overall Platform Integration Score		65/100	50/100	55/100
Evaluated Bid Price		\$55,000.00	\$50,000.00	\$45,000.00
Calculations	Technical Merit Score	95/100 x 40 = 38 65/100 x 30 = 19.5	89/100 x 40 = 35.6 50/100 x 30 = 15	92/100 x 40 = 36.8 55/100 x 30 = 16.5
	Pricing Score	45/55 x 30 = 24.54	45/50 x 30 = 27	45/45 x 30 = 30
Combined Rating		82.04	77.6	83.3
Overall Rating		2 nd	3 rd	1 st

Solicitation No. - N° de l'invitation
W8475-18GPS3/A
Client Ref. No. - N° de réf. du client
6000433544

Amd. No. - N° de la modif.
File No. - N° du dossier
W8475-18GPS3/001/BG

Buyer ID - Id de l'acheteur
002bg
CCC No./N° CCC - FMS No./N° VME

ANNEX “E” to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

As indicated in Part 3, clause 3.1.2, the Bidder must complete the information requested below, to identify which electronic payment instruments are accepted for the payment of invoices.

The Bidder accepts to be paid by any of the following Electronic Payment Instrument(s):

- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);

ANNEX "F" to PART 5 OF THE BID SOLICITATION

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 any request or requirement imposed by Canada may render the bid non-responsive or constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit [Employment and Social Development Canada \(ESDC\) – 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 permanent full-time and/or permanent part-time employees.

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 ESDC-Labour.
- OR**
- A5.2. The Bidder certifies having submitted the [Agreement to Implement Employment Equity \(LAB1168\)](#) to ESDC-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 ESDC-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)

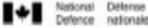
Solicitation No. - N° de l'invitation
 W8475-18GPS3/A
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 6000433544

Amd. No. - N° de la modif.
 File No. - N° du dossier
 W8475-18GPS3/001/BG

Buyer ID - Id de l'acheteur
 002bg
 CCC No./N° CCC - FMS No./N° VME

ANNEX G

DND 626 TASK AUTHORIZATION FORM

 National Defence / Défense nationale		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.	
Amendment no. - N° de la modification		Previous value - Valeur précédente	
Ts - A		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. À 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.	
Delivery location - Expéditeur à		Date _____ for the Department of National Defence / pour le ministère de la Défense nationale	
Delivery/Completion date - Date de livraison/achèvement			
Contract item no. / N° d'article du contrat	Services	Cost / Prix	
		GST/HST / TPS/TVH	
		Total	
APPLICABLE ONLY TO PWGSC CONTRACTS: The Contract Authority signature is required when the total value of the DND 626 exceeds the threshold specified in the contract. NE S'APPLIQUE QU'ÀUX CONTRATS DE TPSGC : La signature de l'autorité contractante est requise lorsque la valeur totale du formulaire DND 626 est supérieure au seuil précisé dans le contrat.			
for the Department of Public Works and Government Services / pour le ministère des Travaux publics et services gouvernementaux			

**Instructions for completing
DND 626 - Task Authorization**

Contract no.
Enter the PWGSC contract number in full.

Task no.
Enter the sequential Task number.

Amendment no.
Enter the amendment number when the original Task is amended to change the scope or the value.

Increase/Decrease
Enter the increase or decrease total dollar amount including taxes.

Previous value
Enter the previous total dollar amount including taxes.

To
Name of the contractor.

Delivery location
Location where the work will be completed, if other than the contractor's location.

Delivery/Completion date
Completion date for the task.

for the Department of National Defence
Signature of the DND person who has delegated Authority for signing DND 626 (level of authority based on the dollar value of the task and the equivalent signing authority in the FPM 1.4). **Note:** the person signing in this block ensures that the work is within the scope of the contract, that sufficient funds remain in the contract to cover this task and that the task is affordable within the Project/Unit budget.

Services
Define the requirement briefly (attach the SOW) and identify the cost of the task using the contractor's quote on the level of effort. The Task must use the basis of payment stipulated in the contract. If there are several basis of payment then list here the one(s) that will apply to the task quote (e.g. milestone payments; per diem rates/labour category hourly rates; travel and living rates; firm price/bidding price, etc.). All the terms and conditions of the contract apply to this Task Authorization and cannot be ignored or amended for this task. Therefore it is not necessary to restate these general contract terms and conditions on the DND 626 Task Form.

Cost
The cost of the Task broken out into the individual costed items in **Services**.

GST/HST
The GST/HST cost as appropriate.

Total
The total cost of the task. The contractor may not exceed this amount without the approval of DND indicated on an amended DND 626. The amendment value may not exceed 50% (or the percentage for amendments established in the contract) of the original value of the task authorization. The total cost of a DND 626, including all amendments, may not exceed the funding limit identified in the contract.

Applicable only to PWGSC contracts
This block only applies to those Task Authorization contracts awarded by PWGSC. The contract will include a specified threshold for DND sole approval of the DND 626 and a percentage for DND to approve amendments to the original DND 626. Tasks that will exceed these thresholds must be passed to the PWGSC Contracting Authority for review and signature prior to authorizing the contractor to begin work.

Note:
Work on the task may not commence prior to the date this form is signed by the DA Authority - for tasks within the DND threshold; and by both DND and PWGSC for those tasks over the DND threshold.

**Instructions pour compléter le formulaire
DND 626 - Autorisation des tâches**

N° du contrat
Inscrivez le numéro du contrat de TPSGC en entier.

N° de la tâche
Inscrivez le numéro de tâche séquentiel.

N° de la modification
Inscrivez le numéro de modification lorsque la tâche originale est modifiée pour en changer la portée.

Augmentation/Réduction
Inscrivez le montant total de l'augmentation ou de la diminution, y compris les taxes.

Valeur précédente
Inscrivez le montant total précédent, y compris les taxes.

À
Nom de l'entrepreneur.

Expédiez à
Endroit où le travail sera effectué, si celui-ci diffère du lieu d'affaires de l'entrepreneur.

Date de livraison/d'achèvement
Date d'achèvement de la tâche.

pour le ministère de la Défense nationale
Signature du représentant du MDN auquel on a délégué le pouvoir d'approbation en ce qui a trait à la signature du formulaire DND 626 (niveau d'autorité basé sur la valeur de la tâche et le signataire autorisé équivalent mentionné dans le MAA 1.4). **Note :** la personne qui signe cette attache de signature confirme que les travaux respectent la portée du contrat, que suffisamment de fonds sont prévus au contrat pour couvrir cette tâche et que le budget alloué à l'unité ou pour le projet le permet.

Services
Définissez brièvement le besoin (joignez l'ET) et établissez le coût de la tâche à l'aide de la soumission de l'entrepreneur selon le niveau de difficulté de celle-ci. Les modalités de paiement stipulées dans le contrat s'appliquent à la tâche. Si plusieurs d'entre elles sont prévues, énumérez ici celle/celles qui s'appliqueront à la soumission pour la tâche à accomplir (p.ex. acompte fondé sur les étapes franchies; taux quotidien ou taux horaire établi selon la catégorie de main-d'œuvre; frais de déplacement et de séjour; prix fixe ou prix plafond; etc.). Toutes les modalités du contrat s'appliquent à cette autorisation de tâche et ne peuvent être négligées ou modifiées quant à la tâche en question. Il n'est donc pas nécessaire de répéter ces modalités générales afférentes au contrat sur le formulaire DND 626.

Prix
Mentionnez le coût de la tâche en le répartissant selon les frais afférents à chaque item mentionné dans la rubrique **Services**.

TPS/TVH
Mentionnez le montant de la TPS/TVH, s'il y a lieu.

Total
Mentionnez le coût total de la tâche. L'entrepreneur ne peut dépasser ce montant sans l'approbation du MDN; formulaire DND 626 modifié à l'appui. Le coût de la modification ne peut pas être supérieur à 50 p. 100 du montant initial prévu dans l'autorisation de tâche (ou au pourcentage prévu dans le contrat pour les modifications). Le coût total spécifié dans le formulaire DND 626, y compris toutes les modifications, ne peut dépasser le plafond de financement mentionné dans le contrat.

Ne s'applique qu'aux contrats de TPSGC
Le présent paragraphe s'applique uniquement aux autorisations de tâche accordées par TPSGC. On inscrit dans le formulaire DND 626 un plafond précis qui ne pourra être approuvé que par le MDN et un pourcentage selon lequel le MDN pourra approuver des modifications au formulaire DND 626 original. Les tâches dont le coût dépasse ces plafonds doivent être soumises à l'autorité contractante de TPSGC pour examen et signature avant qu'on autorise l'entrepreneur à débiter les travaux.

Note :
Les travaux ne peuvent commencer avant la date de signature de ce formulaire par le responsable du MDN, pour les tâches dont le coût est inférieur au plafond établi par le MDN, et par le MDN et TPSGC pour les tâches dont le coût dépasse le plafond établi par le MDN.