



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

**Bid Receiving
PWGSC
33 City Centre Drive
Suite 480C
Mississauga
Ontario
L5B 2N5
Bid Fax: (905) 615-2095**

**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

Vendor/Firm Name and Address

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

Issuing Office - Bureau de distribution

Public Works and Government Services Canada
Ontario Region
33 City Centre Drive
Suite 480
Mississauga
Ontario
L5B 2N5

Title - Sujet RF Safety Code Assessment	
Solicitation No. - N° de l'invitation K3D33-190572/A	Date 2018-12-21
Client Reference No. - N° de référence du client K3D33-190572	
GETS Reference No. - N° de référence de SEAG PW-\$TOR-015-7693	
File No. - N° de dossier TOR-8-41140 (015)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-02-04	Time Zone Fuseau horaire Eastern Standard Time EST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Abela, Aaron	Buyer Id - Id de l'acheteur tor015
Telephone No. - N° de téléphone (905) 615-2061 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF THE ENVIRONMENT Canadian Weather Radar Replacement Program 4905 Dufferin Street Toronto Ontario M3H5T4 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

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

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K3D33-190572/A
Client Ref. No. - N° de réf. du client
K3D33-190572

Amd. No. - N° de la modif.
File No. - N° du dossier
TOR-8-41140

Buyer ID - Id de l'acheteur
TOR015
CCC No./N° CCC - FMS No./N° VME

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PART 1 - GENERAL INFORMATION

1.1 Introduction

The bid solicitation is divided into six 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 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, Security Requirements, the Federal Contractors Program for Employment Equity - Certification, the Insurance Requirements, the Task Authorization Form 572, and any other annexes.

1.2 Summary

- 1.2.1 Environment and Climate Change Canada (ECCC) requires professional services to provide analysis and report on Radio Frequency (RF) safety operating zone for twenty-seven (27) S-Band Weather Radar Sites (firm) with the possibility to add three (3) additional optional sites, to be exercised by ECCC on an as-needed basis. The Contractor must provide a sealed and signed report by a Canadian certified professional Engineer, with a preference for an RF engineer, for each site, and attestation on operating RF safety zones as determined by Health Canada Safety Code 6. – Limits of Human Exposure to Radiofrequency Electromagnetic Energy in the Frequency Range from 3kHz to 400GHz (2015).

In addition to the twenty-seven (27) firm analysis and reports, ECCC reserves the right to invoke the option for the Contractor to conduct three (3) additional Weather Radar Sites analysis and report on RF safety operating zone.

Furthermore, in addition to the pre-installation calculations required to comply with ISED's frequency licensing process (CP-2-0-03), ECCC reserves the right to invoke the option on a task authorization basis, for the Contractor to conduct on-site measurements of the RF exposure levels for due diligence and documentation, and in cases where required by ISED. These services would form a contract option, to be exercised by ECCC on an as-needed basis. Refer to Annex 9 for the site survey timeline.

This Partial Task Authorization Contract will be for a period of 4 years from Date of Contract Award. There will be an option to extend the contract for one (1) additional one (1) year period.

It is anticipated that only one contract will be awarded as a result of this solicitation.

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), the

Canada-European Union Comprehensive Economic and Trade Agreement (CETA), and the Canadian Free Trade Agreement (CFTA).

1.3 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.

1.4 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.

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>) 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 (2018-05-22) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

The following modification is to the standard instructions 2003:

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

Delete: 60 days
Insert: 120 days

2.2 Submission of Bids

Bids must be submitted only to the Public Works and Government Services Canada (PWGSC) Bid Receiving Unit specified below by the date and time indicated on page 1 of the bid solicitation:

Bid Receiving Unit – Acquisitions Ontario Region
33 City Center Drive, Suite 480C
Mississauga ON L5B 2N5
TPSGC.oreceptiondessaoumissions-orbidreceiving.PWGSC@tpsgc-pwgsc.gc.ca
(Bids/Offer will not be accepted if emailed directly to this email address. This email is to initiate an Epost Connect conversation, as detailed in the Standard Instructions.)

905-615-2095

2.3 Former Public Servant

Contracts awarded to former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts awarded to FPSs, bidders must provide the information required below before contract award. If the answer to the questions and, as applicable the information required have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply with Canada's request and meet the requirement within the prescribed time frame will render the bid non-responsive.

Definitions

For the purposes of this clause, "former public servant" is any former member of a department as defined in the *Financial Administration Act*, R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

- a. an individual;
- b. an individual who has incorporated;
- c. a partnership made of former public servants; or
- d. a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

Former Public Servant in Receipt of a Pension

As per the above definitions, is the Bidder a FPS in receipt of a pension? **Yes () No ()**

If so, the Bidder must provide the following information, for all FPSs in receipt of a pension, as applicable:

- a. name of former public servant;
- b. date of termination of employment or retirement from the Public Service.

By providing this information, Bidders agree that the successful Bidder's status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure reports in accordance with Contracting Policy Notice: 2012-2 and the Guidelines on the Proactive Disclosure of Contracts.

Work Force Adjustment Directive

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive? **Yes () No ()**

If so, the Bidder must provide the following information:

- a. name of former public servant;
- b. conditions of the lump sum payment incentive;
- c. date of termination of employment;
- d. amount of lump sum payment;
- e. rate of pay on which lump sum payment is based;
- f. period of lump sum payment including start date, end date and number of weeks;

- g. number and amount (professional fees) of other contracts subject to the restrictions of a work force adjustment program.

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including Applicable Taxes.

2.4 Enquiries - Bid Solicitation

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

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the 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 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 twenty (20) days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

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. Bidders must provide their bid in a single transmission. The epost Connect service has the capacity to receive multiple documents, up to 1GB per individual attachment.

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 (2 hard copies)
Section II: Financial Bid (1 hard copy)
Section III: Certifications (1 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 demonstrate their capability and describe their approach 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.

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 F Electronic Payment Instruments, to identify which ones are accepted.

If Annex F 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

C3011T (2013-11-06), Exchange Rate Fluctuation

3.1.4 SACC Manual Clauses

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.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

See Annex E – Evaluation Criteria.

4.1.1.2 Point Rated Technical Criteria

See Annex E – Evaluation Criteria.

4.1.2 Financial Evaluation

4.1.2.1 Mandatory Financial Criteria

(a) The Bidder must complete and submit with its bid Annex "B", Basis of Payment - in Canadian funds.

(b) Pricing must be provided for all line items of firm and optional requirements. Should the bidder fail to provide a price for every line item, the bidder will be deemed non-responsive.

1.2.2 Bids will be evaluated based on the prices detailed in Annex "B".

1.2.3 The price used in the evaluation will be the Complete Evaluated Price, which is calculated as follows:

The Total Evaluated Price is the sum of the Extended Prices of all line items listed under Sections (1+2)

(i) The Extended Price of each line item is the Estimated Quantity multiplied by the proposed Unit Cost.

(ii) The Complete Evaluated Price is the sum of the Total Evaluated Price for all four (4) Contract Periods and one (1) Option period.

4.1.2.1 Évaluation of Price - Bid

SACC Manual clause A0220T (2014-06-26), Evaluation of Price

4.2 Basis of Selection

4.2.1 Basis of Selection – 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 (choose "(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 60 % for the technical merit and 40% 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 60%.
5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 40%.

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 below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 60/40 ratio of technical merit and price, respectively. The total available points equals 135 and the lowest evaluated price is \$45,000 (45).

BASIS OF SELECTION - HIGHEST COMBINED RATING TECHNICAL MERIT (60%) AND PRICE (40%)				
		Bidder 1	Bidder 2	Bidder 3
OVERALL TECHNICAL SCORE		115/135	89/135	92/135
BID EVALUATED PRICE		\$55,000.00	\$50,000.00	\$45,000.00
CALCULATIONS	Technical Merit Score	$115/135 \times 60 = 51.11$	$89/135 \times 60 = 39.56$	$92/135 \times 60 = 40.89$
	Pricing Score	$45/55 \times 40 = 32.73$	$45/50 \times 40 = 36.00$	$45/45 \times 40 = 40.00$
COMBINED RATING		83.84	75.56	80.89
OVERALL RATING		1st	3rd	2nd

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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 procurement 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.

5.2.3 Additional Certifications Precedent to Contract Award

5.2.3.2 Status and Availability of Resources

SACC Manual clause A3005T (2010-08-16), Status and Availability of Resources.

5.2.3.3 Education and Experience

SACC Manual clause A3010T (2010-08-16), Education and Experience.

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Statement of Work

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

6.2 Task Authorization Process

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 (TA). The Work described in the TA must be in accordance with the scope of the Contract.

6.2.1 Task Authorization Process

The Project Authority will provide the Contractor with a description of the task using the "Task Authorization Form for non-DND clients" or "DND 626, Task Authorization Form" or "Task Authorization" form specified in Annex "D"

The Task Authorization (TA) 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 TA will also include the applicable basis (bases) and methods of payment as specified in the Contract.

The Contractor must provide the Project Authority, within 5 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.

The Contractor must not commence work until a TA authorized by the Project Authority has been received by the Contractor. The Contractor acknowledges that any work performed before a TA has been received will be done at the Contractor's own risk.

6.2.2 Task Authorization Limit

The Project Authority may authorize individual task authorizations up to a limit of \$75,000.00. Applicable Taxes included, inclusive of any revisions.

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

6.2.3 Minimum Work Guarantee - All the Work - Task Authorizations

1. In this clause,

"Maximum Contract Value" means the amount specified in the "Limitation of Expenditure" clause set out in the Contract; and

"Minimum Contract Value" means \$55,000.00.

2. Canada's obligation under the Contract is to request Work in the amount of the Minimum Contract Value or, at Canada's option, to pay the Contractor at the end of the Contract in accordance with paragraph 3. In consideration of such obligation, the Contractor agrees to stand in readiness throughout the Contract period to perform the Work described in the Contract. Canada's maximum liability for work performed under the Contract must not exceed the Maximum Contract Value, unless an increase is authorized in writing by the Contracting Authority.
3. In the event that Canada does not request work in the amount of the Minimum Contract Value during the period of the Contract, Canada must pay the Contractor the difference between the Minimum Contract Value and the total cost of the Work requested.
4. Canada will have no obligation to the Contractor under this clause if Canada terminates the Contract in whole or in part for default.

6.2.4 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 yearly basis to the Contracting Authority.

The yearly periods are defined as follows:

April 1 to March 31.

The data must be submitted to the Contracting Authority no later than 15 calendar days prior 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 (TA) 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

6.3 Standard Clauses and Conditions

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

6.3.1 General Conditions

2035 (2018-06-21), General Conditions - Higher Complexity - Services, apply to and form part of the Contract.

6.4 Security Requirements

There is no security requirement applicable to the Contract.

6.5 Term of Contract

6.5.1 Period of the Contract

The period of the Contract is from date of Contract Award to four (4) years from the date of contract award.

6.5.2 Contract Years Defined:

Contract Year 1: Date of Contract Award to March 31, 2019
Contract Year 2: April 1, 2019 to March 31, 2020
Contract Year 3: April 1, 2020 to March 31, 2021
Contract Year 4: April 1, 2021 to March 31, 2022
Option Year 1 - Contract Year 5: April 1, 2022 to March 31, 2023

6.5.3 Option to Extend the Contract

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

Canada may exercise this option at any time by sending a written notice to the Contractor before the Contract expiry date. The option may only be exercised by the Contracting Authority by notice in writing, and will be evidenced, for administrative purposes only, through a contract amendment.

6.5.3 Delivery Points

Delivery of the requirement will be made to the delivery point(s) specified at Annex A of the Contract.

6.5.4 Delivery Date

6.5.4.1 Delivery Date for SC6 Analysis and Reports:

All firm deliverables must be delivered in accordance with the deadline schedule set in APPENDIX 1 TO ANNEX A – Table 1

6.5.4.2 Delivery date for field measurement task authorizations:

All the deliverables must be in accordance with Annex A, Statement of Work, Section 4.1 - Deliverables for field measurement task authorizations.

6.6 Authorities

6.6.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Aaron Abela
Title: Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
Address: 480C-33 City Center Drive, Mississauga ON L5B 2N5

Telephone: 905-615-2061
Facsimile: 905-615-2060
E-mail address: aaron.abela@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.

6.6.2 Project Authority

The Project Authority for the Contract is:

Name: _____
Title: _____

Solicitation No. - N° de l'invitation
K3D33-181432/B
Client Ref. No. - N° de réf. du client
K3D33-181432

Amd. No. - N° de la modif.
File No. - N° du dossier
TOR-8-41016

Buyer ID - Id de l'acheteur
TOR015
CCC No./N° CCC - FMS No./N° VME

Organization: _____
Address: _____

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

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

6.6.3 Contractor's Representative

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

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

6.7 Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a Public Service Superannuation Act (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with Contracting Policy Notice: 2012-2 of the Treasury Board Secretariat of Canada.

6.8 Payment

6.8.1 Basis of Payment – Firm Lot Prices

For the Work described in the Statement of Work in Annex “A”, except for Article 4 in its entirety of Annex A:

In consideration of the Contractor satisfactorily completing its obligations under the Contract, the Contractor will be paid a firm lot price for a cost of \$__ **(TBA at Contract Award)**____. Customs duties are included and Applicable Taxes are extra.

For the firm price portion of the Work only, 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.

6.8.2 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 included 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.

6.8.3 Limitation of Expenditure - Cumulative Total of all Firm Deliverables and Task Authorizations

1. Canada's total liability to the Contractor under the Contract for all authorized Task Authorizations (TAs), inclusive of any revisions, must not exceed the sum of \$__ (TBA at Contract Award)__. Customs duties are included, 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 TAs, 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

6.8.4 Multiple Payments

SACC Manual clause H1001C (2008-05-12), Multiple Payments.

6.8.5 Electronic Payment of Invoices – Contract

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

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

6.8.5 SACC Clauses

A9116C (2007-11-30) T1204-Information Reporting by Contractor

6.9 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

Each invoice must be supported by:

- a. a copy of the invoices, receipts, vouchers for all direct expenses, and all travel and living expenses.
2. Invoices must be distributed as follows:
 - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
 - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

6.10 Certifications and Additional Information

6.10.1 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.

6.11 Applicable Laws

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

6.12 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 2035 (2018-06-21), General Conditions - Higher Complexity - Services;
- (c) Annex A, Statement of Work;
- (d) Annex B, Basis of Payment;
- (e) Annex C, Insurance Requirements;
- (f) Annex D, Form PWGSC-TPSGC 572 Task Authorization;
- (g) the signed Task Authorizations (including all of its annexes, if any);
- (h) the Contractor's bid dated _____.

6.13 Foreign Nationals (Canadian Contractor OR Foreign Contractor)

SACC Manual clause A2000C (2006-06-16), Foreign Nationals (Canadian Contractor).

OR

SACC Manual clause A2001C (2006-06-16), Foreign Nationals (Foreign Contractor).

6.14 Insurance Requirements

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

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

The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. For Canadian-based Contractors, coverage must be placed with an Insurer licensed to carry out business in Canada, however, for Foreign-based Contractors, coverage must be placed with an Insurer with an A.M. Best Rating no less than "A-". The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

6.15 SACC Manual Clauses

SACC Manual clause A9065C (2006-06-16), Identification Badge.

SACC Manual clause A0285C (2007-05-25), Workers Compensation.

SACC Manual clause A9068C (2010-01-11), Government Site Regulations.

ANNEX A

STATEMENT OF WORK

1. Purpose

Environment and Climate Change Canada (ECCC) requires professional services to provide analysis and report on Radio Frequency (RF) safety operating zone for twenty-seven (27) S-Band Weather Radar Sites (firm) with the possibility to add three (3) additional optional sites, to be exercised by ECCC on an as-needed basis. The Contractor must provide a sealed and signed report by a Canadian Certified professional Engineer, with a preference for an RF engineer, for each site, and attestation on operating RF safety zones as determined by Health Canada Safety Code 6. – Limits of Human Exposure to Radiofrequency Electromagnetic Energy in the Frequency Range from 3kHz to 400GHz (2015).

The Report must follow “Guidelines for the Preparation of Radio Frequency (RF) Exposure Compliance Reports for Radio communication and Broadcasting Antenna Systems”, GL-08.

This Contractor must also include the option to provide the following services on an “as-and-when-requested” basis:

1. To perform RF Exposure field measurements as follow up to the report on Calculated RF Exposure levels. Bidders who cannot provide field measurement services are still encouraged to bid on the ‘pre-installation’ EF Exposure Compliance report work.

2. Background

The Canadian Weather Radar Replacement Program (CWRRP) seeks to renew and modernize Canada's existing network of 31 weather radar sites across Canada. Environment and Climate Change Canada (ECCC) is in the process of replacing existing C-Band weather radars with new ‘turn-key’ S-Band weather radar systems. The new S-Band weather radars use a larger dish and more powerful source of radiation compared to existing C-Band radar. In order to protect the ECCC's personnel and public from harmful radio frequency fields, ECCC follows the Health Canada's recommendation (Safety Code 6).

Safety Code 6 incorporates large safety margins to provide a significant level of protection for all Canadians, including those working near RF sources. Safety Code 6 is consistent with the similar science-based standards used in other parts of the world and provides protection against harmful exposure to RF energy.

3. Deliverables

3.1. Firm Deliverables – Twenty Seven (27) SC6 Analysis and Reports

The Contactor must provide twenty-seven (27) S-Band Weather Radar Sites analysis and report on RF safety operating zone with the following specifications:

1. Prior to beginning analysis, the contractor must contact the Project Authority to verify the operating parameters to be used in the analysis. Table A in Annex 1 provided in this document are subject to change.
2. The Contractor must provide a signed attestation by a Canadian certified Professional Engineer on SC6 compliance report.
3. The format of the report and detailed calculations must comply with Industry Canada's "GL-08: Guidelines for the Preparation of Radio Frequency (RF) Exposure Compliance Reports for Radio communication and Broadcasting Antenna Systems" – Refer to Annex 5.
4. The Contractor must provide recommendations in the event of non-complaint cases, including locations within the hazard region where the Safe Sector Protection feature must be applied.
5. The report must include the following two scanning scenarios;
 - a. Radar transmits in Stare Pulse Mode with its maximum power and duty cycle while antenna is in stare mode (fixed Azimuth and Elevation angles) with the minimum operational elevation angle.
 - b. Radar transmits in Rotational Pulse Mode with Max duty cycle while turning in azimuth with a velocity range of 0.5°-36.0°/s¹ and the minimum operational elevation angle. Determine and assume worst case azimuth velocity for the analysis.
6. The report must include an analysis per section 3.1.1 of the GL-08 exposure limits in both:
 - a. time-averaged power density, averaged over any time period equal to the reference period (shall not exceed S_{RL});
 - b. and the power density, averaged over the pulse width (shall not exceed $1000 \times S_{RL}$)²
7. The report must include, but is not limited to, illustrations of the two dimensional contours of time-averaged and pulse averaged, for an uncontrolled environment in Safety Code 6 with distance grids of 2 meters in vertical axis and a minimum of 10 meters in horizontal axes. Grids data also must be provided as a file in binary or csv format. The expected format for the above illustrations is attached. Refer to Annex 3.
8. Based on GL-08 Guidelines the Contractor's analysis process must include other broadcasting and non-broadcasting stations. It is contractor's responsibility to gather respective information about parameters of broadcasting stations in vicinity.
9. RF power density calculation must include:
 - a) The terrain model of surrounding proposed S-Band weather radar sites.
 - b) Wave reflection
10. Power Density calculation must include and illustrate the "Near-Field" and "Far-Field" regions of antenna defined by TN-261 – "Safety Code 6 (SC6 2015) Radio Frequency Exposure Compliance Evaluation Template (Uncontrolled Environment Exposure Limits)" – Refer to Annex 4.
11. Prior to sealing the report, it must be shared with ECCC Project Authority or designated representative to review it. ECCC reserves rights to review the draft, share it with ISED, and make comments within two weeks after receiving the report. The service provider will finalize and seal the report before its deadline set in **APPENDIX 1 TO ANNEX A – Table 1**
12. The equations used by the Contractor to determine the exposure limits are to be included in the report.
13. The Contractor must provide support for questions from ISED during their review of the SC6 compliance attestation and perform any subsequent amendments to achieve ISED acceptance.

¹ Refer to Annex 6 - Spatial duty cycle varies by azimuth velocity.

² Given the antenna beam width, it is anticipated that the 'pulse width averaged' exposure limit will not differ between the two scanning modes. This must be confirmed and documented in the analysis.

3.2. Optional Deliverables – Up to three (3) SC6 Analysis and Reports

In addition to the twenty-seven (27) firm analysis and reports, ECCC reserves the right to invoke the option for the Contractor to conduct three (3) additional Weather Radar Sites analysis and report on RF safety operating zone with the same specifications describe in section 3.1. These reports would form separate contract options, to be exercised only by the PSPC Contracting Authority on an as-needed basis.

4. Tasks (Optional Services – RF Measurements)

Furthermore, in addition to the pre-installation calculations required to comply with ISED's frequency licensing process (CP-2-0-03), ECCC reserves the right to invoke the option for the Contractor to conduct on-site measurements of the RF exposure levels for due diligence and documentation, and in cases where required by ISED. These services would form a contract option, to be exercised by ECCC on an as-needed basis. Refer to Annex 9 for the site survey timeline.

4.1 Deliverables for field measurement task authorizations

The Contractor must complete each of the following optional deliverables, if invoked:

1. The Contractor must provide a signed attestation by a Canadian certified Professional Engineer on SC6 compliance report.
2. The Contractor must provide the Power Density measurement and must include and illustrate the "Near-Field" and "Far-Field" regions of antenna defined by TN-261 – "Safety Code 6 (SC6 2015) Radio Frequency Exposure Compliance Evaluation Template (Uncontrolled Environment Exposure Limits)" – Refer to Annex 3
3. The Contractor's Field measurements must be taken at publicly accessible areas, structure floor, or rooftop level as well as within the Radar Site compound.
4. The Contractor's measurement equipment must be able to detect the maximum RF Power of narrow pulses of 0.8 μ s to 2.0 μ s and PRF of 450Hz to 1200Hz. Radar operational scanning configuration illustrated in Table 7.3 of the Annex 8.
5. Prior to on-site measurements, the Contractor must provide a draft measurement strategy indicating locations and measurement conditions for ECCC approval.
6. It is up to the contractor to choose the points of measurement in Near/Far field where the maximum RF exposure is possible. However, one measurement must be taken at ground level within the radar compound.
7. The report must include the coordinate and altitude of the points of measurement relative to the center of the radar tower.
8. The Contractor must complete and provide a draft report within two weeks after the site measurements have been completed.
9. ECCC reserves rights to review the draft report, make comments before the contractor finalizes the report. The final report must be published one week after the ECCC's review.
10. The Contractor must provide a description of all equipment used for measurement. All equipment must be calibrated per ISO standards. Calibration certificates demonstrating a valid calibration (i.e. not expired, etc.) must be included as appendices in the report.
11. The Contractor must provide all labor, equipment, supplies, material, and transportation to produce and deliver data and related products.
12. Provide recommendations in the event of non-complaint cases

4.2 Scheduling Work For Field Measurement

1. The Contractor must communicate, coordinate and finalize the inspection schedules (work plan) for a 12 month period in conjunction with the ECCC Project Authority during the winter months each year. All sites except one are unmanned; therefore the scheduling of visits must be done ahead of time with the appropriate Meteorological Service Canada (MSC) technical staff.

2. The Contractor must coordinate any changes (scheduling, staff changes, etc.) requested for pre-arranged work, with the PA as needed.

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Amd. No. - N° de la modif.
File No. - N° du dossier
TOR-8-41016

Buyer ID - Id de l'acheteur
TOR015
CCC No./N° CCC - FMS No./N° VME

3. The Contractor must make all arrangements for contractors' employees to travel to and from each site.
4. The Contractor must coordinate any changed (scheduling, staff changes, etc.) requested for pre-arranged work with the PA as needed.
6. The Contractor must make all arrangement for contractors' employees to travel to and from each site.
7. All travel and living related expenses are at the Contractors expense and not Canada's.

APPENDIX 1 TO ANNEX A
Sites information and prediction report deadline

Table "1" information is the subject to change. ECCC will inform the service provider a month ahead of SC6 report required date.

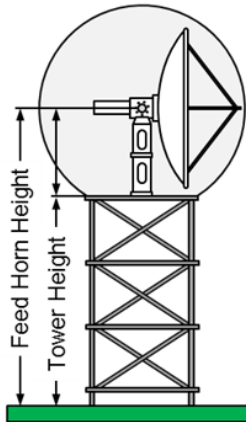
Table 1

ID	Site_Code	Site_Name	Province	Latitude	Longitude	Feed Horn Height (m)	Frequency MHz	SC6 Report Required Date (Estimate)
Firm Sites								
1	CASET	Exeter	ON	43.372	-81.381	26.9	2738	February 15, 2019
2	CASBE	Bethune	SK	50.571	-105.183	20.9	2808	February 15, 2019
3	CASMB	Marion Bridge	NS	45.950	-60.205	23.9	2840	March 15, 2019
4	CASCM	Chipman	NB	46.222	-65.699	26.9	2850	March 15, 2019
5	CASLA	Landrienne	QC	48.551	-77.808	29.9	2835	April 15, 2019
6	CASMR	Montreal River Harbour	ON	47.248	-84.597	26.9	2813	April 15, 2019
7	CAXSM	Strathmore	AB	51.206	-113.399	20.9	2803	May 15, 2019
8	CASSU	Schuler	AB	50.313	-110.196	20.9	2845	May 15, 2019
9	CASHR	Holyrood	NL	47.326	-53.126	20.9	2840	June 15, 2019
10	CASAG	Aldergrove	BC	49.017	-122.487	23.9	2848	June 15, 2019
11	CASKR	King	ON	43.964	-79.574	32.9	2750	July 15, 2019
12	CASWL	Woodlands	MB	50.153	-97.780	20.9	2850	July 15, 2019
13	CASCV	Carvel	AB	53.561	-114.145	20.9	2835	August 15, 2019
14	CASBI	Britt	ON	45.793	-80.534	29.9	2845	September 15, 2019
15	CASDR	Dryden	ON	49.858	-92.797	32.9	2840	October 15, 2019
16	CASPG	Prince George	BC	53.615	-122.955	20.9	2848	November 15, 2019
17	CASSS	Silver Star Mountain	BC	50.369	-119.064	29.9	2730	December 15, 2019
18	CASVD	Val d'Irene	QC	48.481	-67.601	20.9	2805	February 15, 2020
19	CASVY	Villerooy	QC	46.450	-71.914	23.9	2830	March 15, 2020
20	CASFT	Franktown	ON	45.041	-76.116	23.9	2740	April 15, 2020
21	CASLL	Lasseater Lake	ON	48.85	-89.12	26.9	2850	May 15, 2020
22	CASGO	Gore	NS	45.099	-63.704	23.9	2705	June 15, 2020
23	CASMM	Marble Mountain	NF	48.930	-57.835	23.9	2850	July 15, 2020
24	CASSI	Mount Washington	BC	49.753	-125.296	29.9	2715	August 15, 2020
25	CASJL	Jimmy Lake	AB	54.913	-109.960	20.9	2735	September 15, 2020
26	CASLC	Lac Castor	QC	48.575	-70.668	23.9	2735	October 15, 2020
27	CASAB	Athabasca	AB	57.17	-111.67	TBD	2825	November 15, 2020
Option Sites								
28	CASTS	Option 1 :Test Site	ON	TBD	TBD	TBD	TBD	TBD
29		Option 2	TBD	TBD	TBD	TBD	TBD	TBD
30		Option 3	TBD	TBD	TBD	TBD	TBD	TBD

Appendix 2 to Annex A – Antenna's Characteristic

2.1 Antenna's Specification

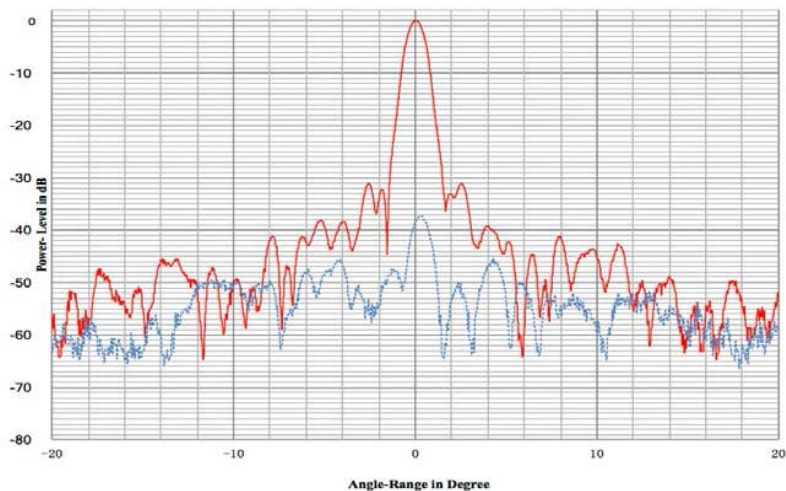
Type: Parabolic, prime-focus reflector with elevation-over-azimuth pedestal
Model: SDP915
Feed Horn height: Refer to Annex 1, Table A
Min Physical Operational Elevation angle: -0.5°
Diameter: 9.15 meter
Operating Frequency: Refer to Annex 1, Table A for site specific
Gain: 46.18 dBi
Beam Width: 0.89°
Min rotational speed: $0.5^{\circ}/s$
Max rotational speed: $36^{\circ}/s$



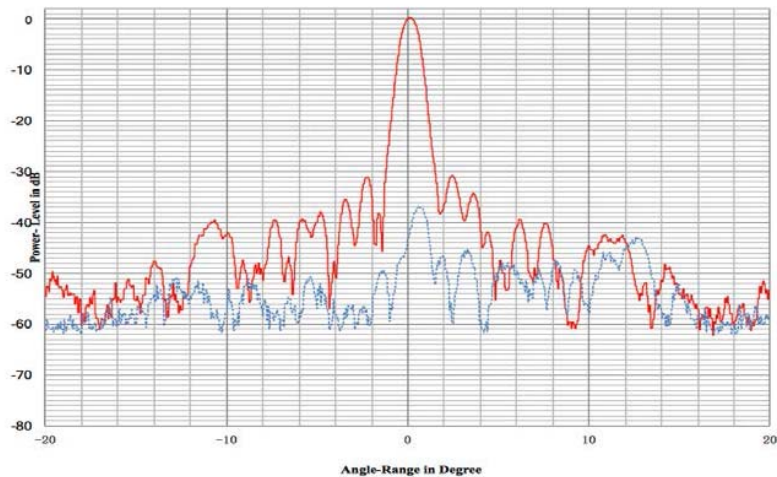
2.2 Side Lobes

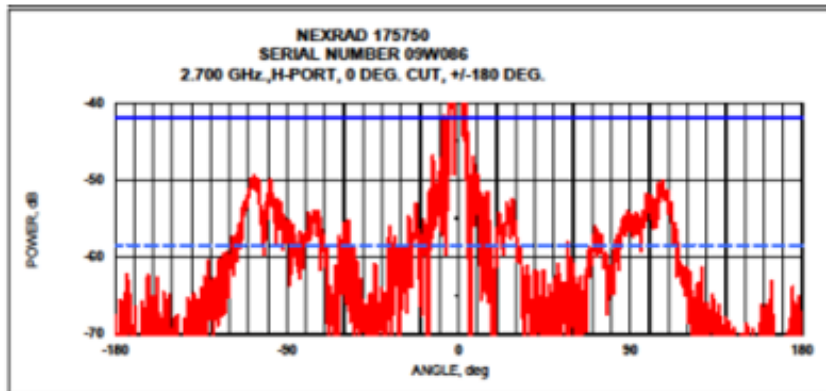
Antenna-Parameter	Performance
Co-polar 1 st Side Lobe (approx. @ 0° to $\pm 12^{\circ}$)	$\leq -31\text{dB}$
Sidelobe Suppression (approx. 12° or above in every plane)	$\leq -35\text{dB}$
Cross-polarization	-35 dB

SN28160279 / 9.15m / 2.82GHz / Hor. / Co-Pol. / Cross-Pol. / 0°-Cut



SN28160279/ 9.15m / 3GHz / Hor. / Co-Pol. / Cross-Pol. / 90°-Cut





Note1: Use NEXRAD 175750 antenna pattern for side lobes beyond 20°

Note2: .CSV files available for the above graphs

2.3 Transmitter Characteristics

Transmitter Details			
	Model	Meteor 1700SDP09	
	Operational Frequency	2700 – 2900 *	MHz
	Peak Power @ Klystron output	1107 **	kW
	Waveguide Loss	1.2	dB
	Min Pulse Width	0.4	µS
	Max Pulse Width	4.5	µS
	Min PRF	175	Hz
	Max PRF	1500	Hz
	Maximum Duty Cycle	0.110	%
	Stagger Ratios	Adjustable	

*: Refer to Table 1 in Annex A for specific site frequency

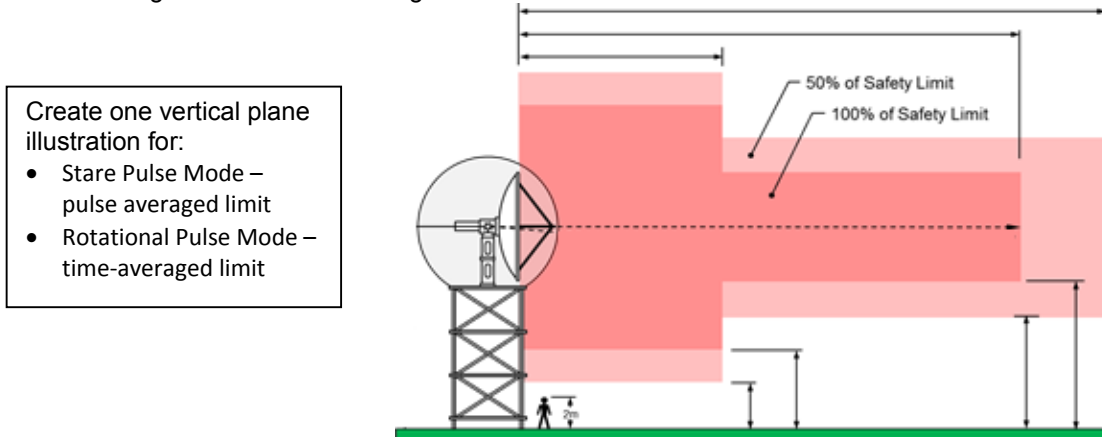
** : Power output measured at the first site

2.4 Radome

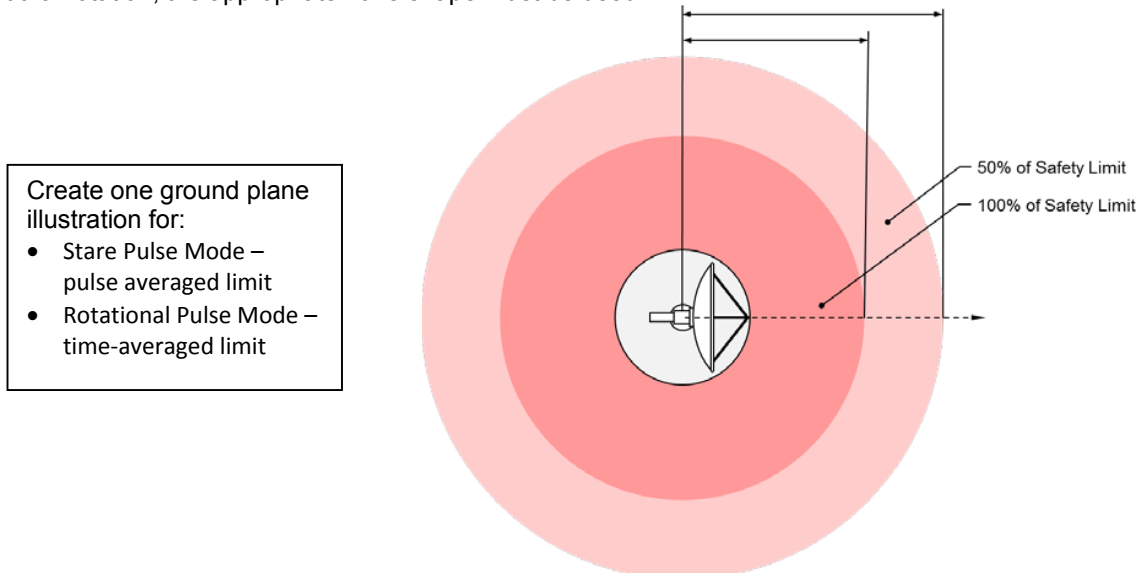
Radome			
	Model		
	Radome One Way Loss	0.15	dB

Appendix 3 to Annex A – Exposure profile illustration example

The following image shows the expected format for illustrating the 50% and 100% exposure limits in the vertical plane. At a minimum, boxed regions for the near and far fields must be characterized. A contour profile is also acceptable, but must include supporting data to allow the 50% and 100% zone heights to be extracted throughout the full radial range of the hazard zones.



The following image shows the expected format for illustrating the 50% and 100% exposure limits in the ground plane. At a minimum, radii must be characterized. For the 'Stare Pulse Mode' where there is no azimuthal rotation, the appropriate zone shape must be used.



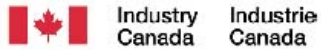
Solicitation No. - N° de l'invitation
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Appendix 4 to Annex A – TN-261

Double click on the document to open it



TN-261
Issue 3
March 2015

Spectrum Management and Telecommunications
Technical Note

Safety Code 6 (SC6) Radio Frequency Exposure Compliance Evaluation Template (Uncontrolled Environment Exposure Limits)

Aussi disponible en français – NT-261

Canada

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Appendix 5 to Annex A – GL-08 Guidelines

Double click on the document to open it



Industry
Canada Industrie
Canada

GL-08
Issue 1
November 2010

Spectrum Management and Telecommunications

Guideline

Guidelines for the Preparation of Radio Frequency (RF) Exposure Compliance Reports for Radiocommunication and Broadcasting Antenna Systems

Aussi disponible en français – LD-08

Canada

Appendix 6 to Annex A – Safe Sector Protection

At the request of ECCC, Selex developed a Safe Sector Protection feature by implementing a safety PLC to monitor the angle information. This feature will enable ECCC to switch off the transmitter in the event of a fault. This feature prevents the radar to operate in the stare mode. We would like to have the following document as part of the SC6 compliance report as an Annex in the final SC6 compliance report.

Double click on the document to open it.



Safe Sector Protection

Version	Changes	Date	Who
	Original	2017.07.14	HN

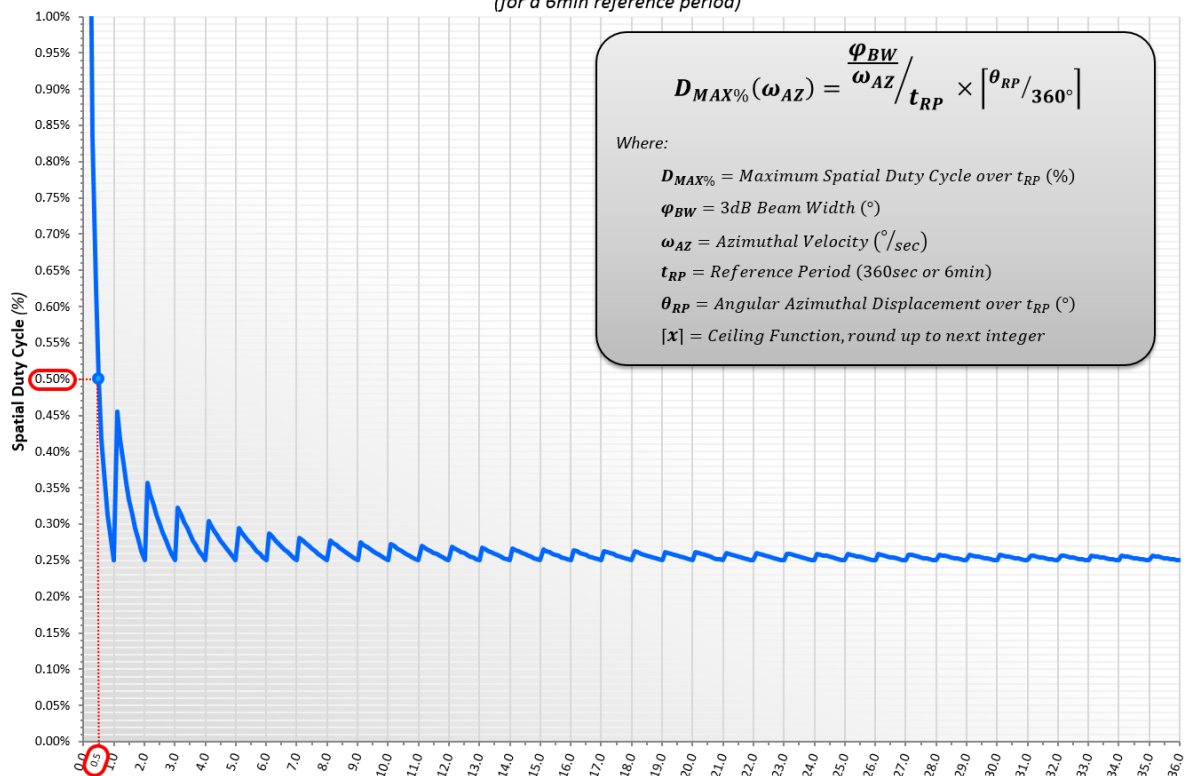
Appendix 7 to Annex A

Spatial Duty Cycle vs. Azimuth Velocity

Rotational duty cycle is a function of antenna's beam width, azimuth velocity, and target size. To simplify the equation, target size has been eliminated from the calculation. Service provider can use the following graph for calculation of worse case rotational duty cycle at minimum azimuth velocity.

Spatial Duty Cycle vs. Azimuth Velocity

(for a 6min reference period)



Appendix 8 to Annex A – Measurement Table

The field measurement report must include, but is not limited to the fields of measurement in the Tables of 7.1 and 7.2.

Table 7.1 - Near Field Measurements

Test No.	Antenna's Speed (Degree per Second)	Pulse Width (µs)	Pulse Reputation Frequency (PRF)	Antenna's Elevation angle (Degree)	Distance from Radar (m)	E-Field (V/m)	Power Density (W/m ²)	Additional information
1	Radar operates in the "Operational Mode" – see Table 7.3							
2	Radar operates in the "Birdbath Mode" – Elevation of 90							This measurement is required only at parking lot area
3	0.6	1.6	600	Lowest				

Table 7.2 – Far Field Measurements

Test No.	Antenna's Speed (Degree per Second)	Pulse Width (µs)	Pulse Reputation Frequency (PRF)	Antenna's Elevation angle (Degree)	Distance from Radar (m)	E-Field (V/m)	Power Density (W/m ²)	Additional information
1	Radar operates in the "Operational Mode" – see Table 7.3							
2	0.6	1.6	600	Lowest				

Table 7.3 – S Band radar operational Volume Scan

Order	Tilt (°)	Rotation speed (°/s)	Acquisition time [s]	Azimuth resolution [deg]	Dual PRF	Range Step [km]	# of bins	Max range (km)	Pulse width (µs)	PRFs (Hz) Dual	Nyquist (m/s) (high/dual)	Samples (1°)
17	0.4	11	33	0.5	4:3	0.5	480	240	1.6	600/450	16/48	20/27
16	0.8	11	33	0.5	4:3	0.5	480	240	1.6	600/450	16/48	20/27
15	1.2	11	33	0.5	4:3	0.5	480	240	1.6	600/450	16/48	20/27
14	1.6	11	33	0.5	4:3	0.5	480	240	1.6	600/450	16/48	20/27
13	2.0	11	33	0.5	4:3	0.5	480	240	1.6	600/450	16/48	20/27
12	2.8	11	33	0.5	4:3	0.5	480	240	1.6	600/450	16/48	20/27
11	3.6	32	12	1	None	0.5	480	240	1.6	600	16	18
10	4.4	32	12	1	None	0.5	480	240	1.6	600	16	18
9	5.2	32	12	1	None	0.5	480	240	1.6	600	16	18
8	6.8	32	12	1	None	0.5	320	160	1.2	900	24	28
7	8.4	32	12	1	None	0.5	320	160	1.2	900	24	28
6	10.0	32	12	1	None	0.5	250	125	0.8	1200	32	37
5	11.6	32	12	1	None	0.5	250	125	0.8	1200	32	37
4	14.8	32	12	1	None	0.5	250	125	0.8	1200	32	37
3	18.0	32	12	1	None	0.5	250	125	0.8	1200	32	37
2	21.2	32	12	1	None	0.5	250	125	0.8	1200	32	37
1	24.4	32	12(30)	1	None	0.5	250	125	0.8	1200	32	37

Appendix 9 to Annex A – Site measurement report deadline

Site measurement required date is the subject to change. If there is a change in required date, ECCC will inform the service provider a month ahead of site visit.

Table A

ID	Site_Code	Site_Name	Province	Latitude	Longitude	Site measurement Required Date (Estimate)
1	CASSR	Spirit River	AB	55.695	-119.231	April 15, 2019
2	CASRF	Timmins	ON	49.281	-81.794	May 15, 2019
3	CASET	Exeter	ON	43.372	-81.381	July 2019
4	CASBE	Bethune	SK	50.571	-105.183	July 2019
5	CASMB	Marion Bridge	NS	45.950	-60.205	Aug 2019
6	CASCM	Chipman	NB	46.222	-65.699	Aug 2019
7	CASLA	Landrienne	QC	48.551	-77.808	September 2019
8	CASMR	Montreal River Harbour	ON	47.248	-84.597	September 2019
9	CAXSM	Strathmore	AB	51.206	-113.399	October 2019
10	CASSU	Schuler	AB	50.313	-110.196	July 2020
11	CASHR	Holyrood	NL	47.326	-53.126	July 2020
12	CASAG	Aldergrove	BC	49.017	-122.487	Aug 2020
13	CASKR	King	ON	43.964	-79.574	Aug 2020
14	CASWL	Woodlands	MB	50.153	-97.780	September 2020
15	CASCV	Carvel	AB	53.561	-114.145	September 2020
16	CASBI	Britt	ON	45.793	-80.534	October 2020
17	CASDR	Dryden	ON	49.858	-92.797	July 2021
18	CASPG	Prince George	BC	53.615	-122.955	July 2021
19	CASSS	Silver Star Mountain	BC	50.369	-119.064	Aug 2021
20	CASVD	Val d'Irene	QC	48.481	-67.601	Aug 2021
21	CASVY	Villeroy	QC	46.450	-71.914	September 2021
22	CASFT	Franktown	ON	45.041	-76.116	September 2021
23	CASLL	Lasseter Lake	ON	48.85	-89.12	October 2021
24	CASGO	Gore	NS	45.099	-63.704	July 2022
25	CASMM	Marble Mountain	NF	48.930	-57.835	July 2022
26	CASSI	Mount Washington	BC	49.753	-125.296	Aug 2022
27	CASJL	Jimmy Lake	AB	54.913	-109.960	Aug 2022
25	CASLC	Lac Castor	QC	48.575	-70.668	September 2022
26	CASAB	Athabasca	AB	57.17	-111.67	September 2022
27	CASTS	Option 1 :Test Site	ON	TBD	TBD	TBD
28		Option 2	TBD	TBD	TBD	TBD
29		Option 3	TBD	TBD	TBD	TBD

ANNEX B

BASIS OF PAYMENT

The firm unit prices must be all inclusive prices, for the provision of services in accordance with Annex "A" – Statement of Work, in Canadian funds including Canadian customs duties, excise taxes, F.O.B. destination, including all delivery charges, travel and living, and required documentation specified. The total amount of Goods and Services Tax (GST) or Harmonized Sales Tax (HST) is not included.

1. Firm Requirement

1.1 Scheduled RF Inspection Reports Due in accordance with ANNEX A, Section 3 and Appendix 9 to ANNEX A – Site measurement report deadline

Includes all travel and living related expenses.

A	B	C	D
Item No.	Site Name	QTY	Firm Unit Price
1	Exeter	1 LOT	\$
2	Bethune	1 LOT	\$
3	Marion Bridge	1 LOT	\$
4	Chipman	1 LOT	\$
5	Landrienne	1 LOT	\$
6	Montreal River Harbour	1 LOT	\$
7	Strathmore	1 LOT	\$
8	Schuler	1 LOT	\$
9	Holyrood	1 LOT	\$
10	Aldergrove	1 LOT	\$
11	King	1 LOT	\$
12	Woodlands	1 LOT	\$
13	Carvel	1 LOT	\$
14	Britt	1 LOT	\$
15	Dryden	1 LOT	\$
16	Prince George	1 LOT	\$
17	Silver Star Mountain	1 LOT	\$
18	Val d'Irene	1 LOT	\$

19	Villero y	1 LOT	\$
20	Franktown	1 LOT	\$
21	Lasse ter Lake	1 LOT	\$
22	Gore	1 LOT	\$
23	Marble Mountain	1 LOT	\$
24	Mount Washington	1 LOT	\$
25	Jimmy Lake	1 LOT	\$
26	Lac Castor	1 LOT	\$
27	Athabasca	1 LOT	\$

2.0 Optional Quantities

Canada may purchase any or all of the optional goods at any time during the period of the contract. The optional quantities may be exercised in various quantities, from time to time, during the contract period.

A	B	C	D
Item No.	Site Name	QTY	Firm Unit Price
1	Option 1: Test Site	1 LOT	\$
2	Option 2	1 LOT	\$
3	Option 3	1 LOT	\$

2.1 Task Authorizations – As and When Requested Services for on-site RF Measurements as per ANNEX A, Section 4 – Tasks.

Includes all travel and living related expenses.

Work Orders – As and When Requested (Task Authorizations)

Firm Unit Pricing available to Environment and Climate Change Canada under circumstances where a Task Authorization for services in accordance with Annex “A” and authorized by the Project Authority (PA).

A	B	C	D
Item No.	Site Name	QTY	Firm Unit Price
1	Exeter	1 LOT	\$
2	Bethune	1 LOT	\$
3	Marion Bridge	1 LOT	\$
4	Chipman	1 LOT	\$
5	Landienne	1 LOT	\$
6	Montreal River Harbour	1 LOT	\$
7	Strathmore	1 LOT	\$
8	Schuler	1 LOT	\$
9	Holyrood	1 LOT	\$
10	Aldergrove	1 LOT	\$
11	King	1 LOT	\$
12	Woodlands	1 LOT	\$
13	Carvel	1 LOT	\$
14	Britt	1 LOT	\$
15	Dryden	1 LOT	\$
16	Prince George	1 LOT	\$
17	Silver Star Mountain	1 LOT	\$
18	Val d'Irene	1 LOT	\$
19	Villeroi	1 LOT	\$
20	Franktown	1 LOT	\$
21	Lasseter Lake	1 LOT	\$
22	Gore	1 LOT	\$
23	Marble Mountain	1 LOT	\$
24	Mount Washington	1 LOT	\$

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25	Jimmy Lake	1 LOT	\$
26	Lac Castor	1 LOT	\$
27	Athabasca	1 LOT	\$
28	Option 1: Test Site	1 LOT	\$
29	Option 2	1 LOT	\$
30	Option 3	1 LOT	\$

ANNEX C

INSURANCE REQUIREMENTS

1. Commercial General Liability Insurance

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

- k. If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
- l. Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
- m. Non-Owned Automobile Liability - Coverage for suits against the Contractor resulting from the use of hired or non-owned vehicles.

2. Automobile Liability Insurance

1. The Contractor must obtain Automobile Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence.
2. The policy must include the following:
 - a. Third Party Liability - \$2,000,000 Minimum Limit per Accident or Occurrence
 - b. Accident Benefits - all jurisdictional statutes
 - c. Uninsured Motorist Protection
 - d. Notice of Cancellation: The Contractor will provide the Contracting Authority thirty (30) days prior written notice of policy cancellation or any changes to the insurance policy.

3. Errors and Omissions Liability Insurance

1. The Contractor must obtain Errors and Omissions Liability (a.k.a. Professional Liability) insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature but for not less than \$1,000,000 per loss and in the annual aggregate, inclusive of defence costs.
2. If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
3. The following endorsement must be included:

Notice of Cancellation: The Contractor will provide the Contracting Authority thirty (30) days prior written notice of policy cancellation or any changes to the insurance policy.

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ANNEXE « D »

FORM PWGSC-TPSGC 572 TASK AUTHORIZATIONS

See attached.

ANNEX E

EVALUATION CRITERIA

Mandatory Technical Criteria

1. Bidders must clearly demonstrate compliance with each mandatory technical criteria. Failure to demonstrate compliance will result in the offer being deemed non-responsive, and be given no further consideration.

2. It is the Bidders responsibility to ensure that the submitted supporting technical documentation provides detail to prove that the proposed product(s) meet the requirements detailed herein.

If published supporting technical documents are not available, the Bidders must prepare a written narrative complete with a detailed explanation of how its bid demonstrates technical compliance.

Table 1. Mandatory requirements for radar tower design assessment

Item	Criteria Description	Identify where the supporting documentation is location in the bid package (page number(s))
M1	<p>Bidder must demonstrate experience providing RF Exposure Compliance Reports on behalf of clients in the ISEDC required format.</p> <p>To demonstrate this experience, the Bidder must provide at least three (3) sample sealed reports previously prepared by the bidder.</p> <p>Note: Sections of the report can be redacted to maintain confidentiality.</p> <p>If documentation is not provided with the bid proposal, the bidder must submit it to the Contracting Authority's attention within 3 days of request from PSPC.</p>	
M2	<p>Bidder must provide detail on the methodology and analysis tools that will be used to conduct the work.</p> <p>To demonstrate, the Bidder must provide information on the calculation method and any software to be used for this requirement.</p> <p>The Bidder must also describe the approach to be taken to ensure a thorough and comprehensive analysis that is compliant with ISEDC guidelines.</p>	

Point Rated Technical Criteria

1. Rating Table (Total Maximum points available is: 40 points)

Bids deemed responsive against all mandatory technical criteria will be evaluated against the following point rated technical criteria.

Table 2. Point Rated Evaluation Criteria for tower design and assessment.

Item	Criteria Description	Points Available	Identify where the supporting documentation is location in the bid package (page number(s))
PR1	<p>Bidder should have experience preparing RF Exposure Compliance Reports for:</p> <ul style="list-style-type: none"> Scanning RF Sources Pulsed RF Sources <p>To demonstrate, the Bidder should provide sample sealed reports previously prepared by the bidder for RF sources as described.</p>	<p>5 points if bidder provides a sample report demonstrating experience with scanning RF Sources.</p> <p>5 points if bidder provides a sample report demonstrating experience with pulsed RF sources</p> <p>5 points if bidder provides a sample report with pulsed RF sources with EIRP > 100dB</p> <p>15 points if bidder provides a sample report demonstrating experience with a source that is both scanned and pulsed</p>	
PR2	<p>The Bidder should provide both 'pre-installation' RF Exposure Compliance Reports, as well as 'post-installation' RF Field Measurements Report.</p> <p>To demonstrate, the Bidder should provide:</p> <p>a) Statement of capacity to provide both engineering services, and;</p> <p>b) At least three (3) sample sealed field measurement reports, and;</p>	<p>15 points if bidder offers both calculation and measurement services</p>	

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	c) Specifications for the equipment proposed to be used for field measurements, demonstrating the Bidders equipment can measure both peak and averaged exposure at the appropriate frequency, given the short pulse duration of the radar.		
PR3	<p>The Bidder should have experience producing RF exposure compliance report as part of the ISEDC CP-2-0-03 process.</p> <p>To demonstrate, the Bidder should indicate the associated frequency license number.</p>	10 points if bidder can provide evidence that they have submitted report to ISEDC as part of the CP-2-0-03 process	
			Total Point: /40

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ANNEX "F"

ELECTRONIC PAYMENT INSTRUMENTS

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

- ☐ VISA Acquisition Card;
- ☐ MasterCard Acquisition Card;
- ☐ Direct Deposit (Domestic and International);
- ☐ Electronic Data Interchange (EDI);
- ☐ Wire Transfer (International Only);
- ☐ Large Value Transfer System (LVTS) (Over \$25M)

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ANNEX "G"

ADDITIONAL CERTIFICATIONS

Board of Directors

In accordance with Section 1, Integrity Provisions – Bidder, Bidders are required to provide a list of their Board of Directors before contract award. Bidders are requested to provide this information in their bid.

Director Name - _____

Director Name - _____

Director Name - _____

Director Name - _____

Director Name - _____

Director Name - _____

Director Name - _____

Director Name - _____

Procurement Business Number (PBN)

In accordance with Section 2, Procurement Business Number, of the Standard Instructions, Bidders are required to have a Procurement Business Number (PBN) before Standing Offer award.

Procurement Business Number - _____

Suppliers may register for a PBN online at Supplier Registration Information. For non-Internet registration, suppliers may contact the InfoLine at 1-800-811-1148 to obtain the telephone number of the nearest Supplier Registration Age