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**11 Laurier St. / 11, rue Laurier**  
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**Gatineau, Québec K1A 0S5**  
**Bid Fax: (819) 997-9776**

## **SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

### **Comments - Commentaires**

**Vendor/Firm Name and Address**  
**Raison sociale et adresse du**  
**fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**  
Defence Communications Division. (QD)  
11 Laurier St./11, rue Laurier  
Place du Portage, Phase III, 8C2  
Gatineau, Québec K1A 0S5

<b>Title - Sujet</b> Medium Range Radar (MRR)	
<b>Solicitation No. - N° de l'invitation</b> W8476-133817/E	<b>Amendment No. - N° modif.</b> 019
<b>Client Reference No. - N° de référence du client</b> W8476-133817	<b>Date</b> 2014-08-18
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$QD-023-24350	
<b>File No. - N° de dossier</b> 023qd.W8476-133817	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2014-09-16</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT
<b>F.O.B. - F.A.B.</b> Specified Herein - Précisé dans les présentes <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input checked="" type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Bright, James	<b>Buyer Id - Id de l'acheteur</b> 023qd
<b>Telephone No. - N° de téléphone</b> (819) 956-6181 ( )	<b>FAX No. - N° de FAX</b> (819) 956-0636
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

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**This amendment is raised for the MRR Request For Proposal (RFP) number W8476-133817/E.**

*The intent of this amendment is to provide a clarifying response to Industry poised questions and where applicable, amend the RFP in response to Industry questions.*

**Amended Answers**

**Q4.** In Annex A, Appendix 1, System Performance Specification, 3.1.4.1.1, it is assumed that this requirement is at 360 degrees. Can you please confirm?

Original Answer: Contractor design decision

**Amended Answer 4:** Yes, the contractor can assume a 360 degrees mode of operation. The specific sector of operation for Friendly Fire Ranging is however a contractor design decision. The minimum sector of operation shall be 90 degrees.

**Q5.** Annex A, Appendix 1, System Performance Specification, 3.1.5.15.1, states “all of the latest feature of a modern IFF.” This is unclear, can you please clarify?

Original Answer: Contractor design decision

**Amended Answer 5:** Secondary Surveillance Radar hardware can implement a wide range of advance features over and above and above minimum features of modes 1, 2, 3/A, 4, C, S and is “mode 5 ready” The selection of specific advanced features is a contractor design decision.

**Q6.** Annex A, Appendix 1, System Performance Specification, 3.2.1.3, states “all necessary Electronic Protection Measures (EPM).” This is unclear, can you please clarify?

Original Answer: Contractor design decision

**Amended Answer 6:** The specific Electronic Protection Measures (EPM) is tied to the offered radar technology and system. Selection, description and implementation of specific EPM features is Contractor design decision.

**Q8.** In Annex K, Appendix 6, Live Fire Evaluation Plan Overview, 5.1.3-5.1.4, it is assumed that scaling of RCS as in 5.1.1 and 5.1.2 is allowed. Can you please confirm this?

Original Answer: Contractor test design decision

**Amended Answer 8:** Yes RCS Scaling is allowed. Its specific use is however a contractor test design decision.

**Q12.** In Annex A, Appendix 1, System Performance Specification, 3.1.3.12.3, the time for POI prediction not specified. At what time during the track should the prediction be made?

Original Answer: Contractor design decision

**Amended Answer 12:** There is no specified time along the trajectory to calculate the POI. The specific time is a contractor design decision trading-off between accuracy and early warning.

**Q13.** Annex A-ACQ, Appendix 5, 3.3, Scope for Environmental Qualification as part of First Article. Does Test as 'First Article Verification Method' imply that a test shall actually be performed as part of First Article Acceptance Test or can prior tests for same product be referred to?

Original Answer: Contractor test design decision, a test or an existing validated test report can be used.

**Amended Answer 13:** The test method can be for First Article test can be either a test performed during the Acceptance Test or a pre-existing validated test report. The exact method used to demonstrate Environmental Qualification is a Contractor Test Design Decision.

**Q14.** In Annex A-ACQ, SOW and Annex A-ACQ, Appendix 1, SPS, SOW:4.7, 4.8, SPS 3.1.6.2, 3.1.6.3, LCSS Land Command Support System, what capacity will be provided for the LCSS link? Will video be required?

Original Answer: Contractor design decision

**Amended Answer 14:** The Mandatory requirement is described in Paragraph 3.1.6.1, 3.1.6.2 and 3.1.6.3 any other offered features like video is a contractor design decision.

**Q37.** 3.1.1.1.2: The MRR System should perform the weapon location mission and the air surveillance mission concurrently. Is the dual mode requirement also applicable for the 360° degree-sector in azimuth rated requirements?

Original Answer: Contractor design decision

**Amended Answer 37:** Yes the dual mode can be applied the 360° degree-sector in azimuth. The exact implementation is a contractor design decision.

**Q38.** 3.1.1.2.1: The MRR System shall digitally record and transmit data. How much data must the MRR System be able to record?

Original Answer: Contractor design decision

**Amended Answer 38:** The exact volume of data recorded by the MRR System is Contractor design decision.

**Q39.** 3.1.1.2.1: The MRR System shall digitally record and transmit data. Must the data recorded be stored permanently?

Original Answer: Contractor design decision

**Amended Answer 39:** The use of permanent media to record the data, like DVD, versus erasable media, like hard drive, is Contractor design decision.

**Q40.** 3.1.1.2.1: The MRR System shall digitally record and transmit data. How must the data be stored; portable storage device/drive; built-in storage, etc.?

Original Answer: Contractor design decision

**Amended Answer 40:** The selection of a suitable media like DVD, built in hard drive or removable media is a contractor design decision.

**Q45.** 3.1.2.6 Site Reconnaissance Survey and Navigation  
For points 3.1.2.6.1 through 3.1.2.6.4, what level of accuracy is required for positional, pointing, orientation, etc.?

Original Answer: Contractor design decision

**Amended Answer 45:** The level of positional and pointing accuracy is directly related to the mandatory accuracy of the targets detected. The exact method used to manage the error budget is a contractor design decision.

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**Q46.** 3.1.2.7.2.d.: As a minimum the MRR System display shall have the following controls: ...  
Communication controls (to be refined with interface to CAF C2) What is expected/intended for communications controls?

Original Answer: Contractor design decision

**Amended Answer 46:** Communication Controls are defined as visual cue of communication status. The exact implementation is a contractor design decision. Enhancement to this feature once the C2 Interface is confirmed could be done through a TIES task.

**Q49.** 3.1.2.7.2. F: As a minimum the MRR System display shall have the following controls: ...  
Mission planning tools. Please explain what is meant by “controls” for “mission planning tools”?

Original Answer: Contractor design decision

**Amended Answer 49:** Mission Planning tools implemented in software are accessed through software controls. The exact software control implemented to support MRR mission planning is a contractor design decision.

**Q50.** 3.1.2.7.2.f: As a minimum the MRR System display shall have the following controls: ...  
Mission planning tools. Do you mean “functionality” rather than “controls”?

Original Answer: Contractor design decision

**Amended Answer 50:** The use of functionality or controls for mission planning tools is a contractor design decision.

**Q51.** 3.1.3.1: Search Sector capability

Based on question 5 above, do requirements for 360° location mode and 90° sector in azimuth mode apply when the MRR performs both the weapon location mission and the air surveillance mission concurrently/simultaneously?

Original Answer: Contractor design decision

**Amended Answer 51:** The requirements for 360° location mode and 90° sector in azimuth mode can be applied when the MRR performs both the weapon location mission and the air surveillance mission concurrently/simultaneously. The exact implementation of search sector capability is a contractor design decision.

**Q55.** 3.1.6.2: The weapon locating part of the MRR System shall use a non-proprietary Application Programming Interface. The weapon locating part of the MRR shall transmit a comprehensive set of messages to the LCSS. What is the message format to be transmitted to LCSS?

Original Answer: The message format is a Contractor design decision

**Amended Answer 55:** The message format itself is part of the API and therefore must be non-proprietary. The exact message content and format is a contractor design decision.

**Q56.** 3.1.6.2: The weapon locating part of the MRR System shall use a non-proprietary Application Programming Interface. The weapon locating part of the MRR shall transmit a comprehensive set of messages to the LCSS. What is the expected content of these messages?

Original Answer: The content of the message is a Contractor design decision

**Amended Answer 56:** The message format itself is part of the API and therefore must be non-proprietary. The exact message content and format is a contractor design decision.

**Q58.** 3.1.6.2: The weapon locating part of the MRR System shall use a non-proprietary Application Programming Interface. The weapon locating part of the MRR shall transmit a comprehensive set of messages to the LCSS. How does the message format relate to the requested non-proprietary API?

Original Answer: Contractor design decision

**Amended Answer 58:** The message format itself is part of the API and therefore must be non-proprietary. The exact message content and format is a contractor design decision.

**Q60.** 3.4.1.1: The MRR Sensor System shall be mounted on a single trailer. Ancillary equipment may be transported on the GFE prime mover or a second trailer.  
Does the MRR Sensor System include the radar antenna, power generator and everything else required to conduct air surveillance and weapon locating without ancillary equipment?

Original Answer: Contractor design decision

**Amended Answer 60:** Contractor design decision to enable the system to be fully operational.

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**Q62.** 3.4.1.1: The MRR Sensor System shall be mounted on a single trailer. Ancillary equipment may be transported on the GFE prime mover or a second trailer. Is the second trailer to be pulled by a second prime mover or can it be pulled by the MRR System trailer?

Original Answer: Contractor design decision

**Amended Answer 62:** Yes the second trailer can be pulled by a second prime mover or it can be pulled by the MRR System trailer. The exact solution is a contractor design decision

**Q77.** 4.1.16 Desirable Requirement 11:  
Shall the same mode be used for both hostile and friendly fire?

Original Answer: Contractor design decision

**Amended Answer 77:** Yes, the contractor can select the same mode for both hostile and friendly fire. The use of one or more modes is a contractor design decision.

## Questions and Answers No. 111 to 112.

**Q111: Reference:** In Amendment 14, Modifications to the RFP, the Crown released two modifications (M1 and M2) to the SPS. Since the titles and words for each SPS requirement are contained in the compliance matrix of Annex K, Attachment 3 (a.k.a. “K3”) and Annex A – Appendix 5 RTVM there is currently a mismatch between the documents.

Does the Crown intend to update K3 and RTVM, or should the Bidders modify K3 and RTVM to match these and any future modifications?

**A111:** Since Appendix 5 of Annex A and Appendix 3 of Annex K are templates to assist Bidders in their bid preparation. Bidders should modify these Appendices to match Appendix 1 of Annex A. This approach is taken to reduce re-work for Bidders with an existing mature proposal.

**Q112:** RFP, Annex H, Claim for Exchange Rate Adjustments, Column 6, Initial Exchange Rate. We assume that ‘initial exchange rate’ being the Bank of Canada Exchange Rate existing on a date defined just before Bid submission; is the exchange rate behind Bidder’s CAD price and that any adjustments will be made subject to this bid exchange rate.

Please confirm that Initial Exchange Rate in column 6 is the rate used by the Bidder as a basis for proposing the price in CAD i.e. the Canada Bank exchange rate at the time of bid submission.

**A112:** SACC Manual Clause C3015C has been added to Part 7 and 8 of the Resulting Contract Clauses portion of the MRR RFP Terms and Conditions (Please see Modification M7 and M8 below). Part 4 of C3015C stipulates "4.The initial exchange rate is typically set as the noon rate as published by the Bank of Canada on the solicitation closing date"



## Modifications to the RFP:

### M7: At PART 7 - RESULTING CONTRACT CLAUSES – MRR ACQUISITION CONTRACT

#### Insert

#### 6.7 Exchange Rate Fluctuation Adjustment

1. The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
2. For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provisions in the contract. The exchange rate adjustment amount will be calculated in accordance with the following formula:

$$\text{Adjustment} = \text{FCC} \times \text{Qty} \times (i_1 - i_0) / i_0$$

where formula variables correspond to:

**FCC**

Foreign Currency Component (per unit)

**$i_0$**

Initial exchange rate (CAN\$ per unit of foreign currency [e.g. US\$1])

**$i_1$**

exchange rate for adjustments (CAN\$ per unit of foreign currency [e.g. US\$1])

**Qty**

quantity of units

4. The initial exchange rate is typically set as the noon rate as published by the Bank of Canada on the solicitation closing date.
5. For goods, the exchange rate for adjustment will be the noon rate as published by the Bank of Canada on the date the goods were delivered. For services, the exchange rate for adjustment will be the noon rate on the last business day of the month for which the services were performed. For advance payments, the exchange rate for adjustment will be the noon rate on the date the payment was due. The most recent noon rate will be used for non-business days.

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6. The Contractor must indicate the total exchange rate adjustment amount (either upward, downward or no change) as a separate item on each invoice or claim for payment submitted under the Contract. Where an adjustment applies, the Contractor must submit with their invoice form PWGSC-TPSGC 450, Claim for Exchange Rate Adjustments.
  7. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form PWGSC-TPSGC 450 (i.e  $[i_1 - i_0] / i_0$ ).
  8. Canada reserves the right to audit any revision to costs and prices under this clause

**M8: At PART 8 - RESULTING CONTRACT CLAUSES – IN-SERVICE SUPPORT  
CONTRACT**

**Insert****6.4 Exchange Rate Fluctuation Adjustment**

1. The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
2. For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provisions in the contract. The exchange rate adjustment amount will be calculated in accordance with the following formula:

$$\text{Adjustment} = \text{FCC} \times \text{Qty} \times (i_1 - i_0) / i_0$$

where formula variables correspond to:

**FCC**

Foreign Currency Component (per unit)

 **$i_0$** 

Initial exchange rate (CAN\$ per unit of foreign currency [e.g. US\$1])

 **$i_1$** 

exchange rate for adjustments (CAN\$ per unit of foreign currency [e.g. US\$1])

**Qty**

quantity of units

4. The initial exchange rate is typically set as the noon rate as published by the Bank of Canada on the solicitation closing date.
5. For goods, the exchange rate for adjustment will be the noon rate as published by the Bank of Canada on the date the goods were delivered. For services, the exchange rate for adjustment will be the noon rate on the last business day of the month for which the services were performed. For advance payments, the exchange rate for adjustment will be the noon rate on the date the payment was due. The most recent noon rate will be used for non-business days.
6. The Contractor must indicate the total exchange rate adjustment amount (either upward, downward or no change) as a separate item on each invoice or claim for payment submitted under the Contract. Where an adjustment applies, the Contractor must submit with their invoice form PWGSC-TPSGC 450, Claim for Exchange Rate Adjustments.
7. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form PWGSC-TPSGC 450 (i.e.  $[i_1 - i_0] / i_0$ ).

Solicitation No. - N° de l'invitation

W8476-133817/E

Amd. No. - N° de la modif.

019

Buyer ID - Id de l'acheteur

023qd

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

W8476-133817

File No. - N° du dossier

023qdW8476-133817

CCC No./N° CCC - FMS No/ N° VME

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8. Canada reserves the right to audit any revision to costs and prices under this clause

**ALL OTHER TERMS AND CONDITIONS OF THE SOLICITATION  
REMAIN UNCHANGED**