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Bid Receiving - PWGSC/Réception des soumissions -  
TPSGC

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Core 0B2 / Noyau 0B2

Gatineau

Quebec

K1A 0S5

**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 Science Projects Division/Division des projets  
des sciences de la défense

Les Terrasses de la Chaudière

10, rue Wellington, 4e étage

Gatineau

Quebec

K1A 0S5

<b>Title - Sujet</b> Modelling & Simulation-Naval Radar Modelling and Simulation of Naval Radar Systems	
<b>Solicitation No. - N° de l'invitation</b> W7714-217882/A	<b>Amendment No. - N° modif.</b> 001
<b>Client Reference No. - N° de référence du client</b> W7714-217882	<b>Date</b> 2021-11-09
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$\$SL-017-39994	
<b>File No. - N° de dossier</b> 017sl.W7714-217882	<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> Eastern Standard Time EST <b>on - le 2021-11-30</b> Heure Normale du l'Est HNE	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Monfette, Annick	<b>Buyer Id - Id de l'acheteur</b> 017sl
<b>Telephone No. - N° de téléphone</b> (873) 355-1907 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<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>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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## **W7714-217882 – Modelling and Simulation of Naval Radar Systems**

Amendment 001 to the Request for Proposal is raised to answer questions & make modification to extend the closing date from November 17<sup>th</sup>, 2021 (Eastern Standard Time) to November 30, 2021 (Eastern Standard Time).

All other terms and conditions of the solicitation remain the same.

A proposal already submitted may be amended prior to closing time November 30, 2021 (Eastern Standard Time). by sending the amended correspondence to the Bid Receiving Unit, using epost Connect, by the date and time indicated in the bid solicitation.

### **QUESTIONS**

#### **Question 1:**

Regarding the Modelling & Simulation-Naval Radar procurement, the seniors engineers requested are for 1890 hrs total per year, which is less than a full-time engineer. Alternatively, would it be acceptable to bid a single resource against both positions? Failing that, why are two separate engineers being requested?

#### **Answer 1:**

No, the Crown will not accept one single resource against both positions. As a task authorization contract, the exact number of individual tasks and their timelines aren't known at this time. For example, there may be two tasks running in parallel where each requires a full-time senior engineer for a period of three months. Because of the nature of the work, the availability of two senior engineers is required for this contract.

#### **Question 2:**

Point rated criteria P5 requires demonstrated experience with Adapt\_MFR and its weighted value is twice the weighted value of all other point rated criteria. Given that the Adapt\_MFR simulator is an experimental platform, nor a COTS tool widely used in industry, would the crown consider rating experience with other high-fidelity physics based naval radar modelling and simulation tools equivalently?

#### **Answer 2:**

Yes, for criterion P5 related to Adapt\_MFR, the Crown will consider experience with an equivalent naval radar modelling and simulation tool ("equivalent tool") that has the same key features as Adapt\_MFR. Specifically, the bidder must demonstrate that the equivalent tool:

1. Is a physics-based tool that models naval phased array radar and carries out the modelling and simulation of the radar detection and tracking of both surface and air targets;
2. Has the capability to implement adaptive techniques for the scheduling of radar surveillance and tracking tasks;
3. Has the capability to model multistatic radar (that is, physically separated transmitters and/or receivers); and
4. Includes an interacting multiple model (IMM) target tracker.

The bidder must present modelling and simulation results to demonstrate that the equivalent tool has the above four features. The bidder must demonstrate that the equivalent tool had the above four features during the timeframe for which work and/or project experience is being claimed.

### Question 3:

I note that the largest point-rated criteria is for experience with Adapt\_MFR, a proprietary DRDC tool (16 points; twice that of any other criteria). In my experience, requirements like this are inserted to steer a contract to an incumbent or personnel recently retired from DRDC. I am concerned that no one outside existing/recent DRDC personnel or contractors with critical relationships with the author of this RFP could meet criteria P5.

1. Why was this criteria weighted twice that of any other?
2. Why is Adapt\_MFR experience critical to this RFP?
3. Are you willing to consider bids from those who have not worked at DRDC?

### Answer 3:

1. Carrying out modelling and simulation in Adapt\_MFR is the most critical aspect of this contract work, so experience in Adapt\_MFR is weighted twice that of other criteria.
2. This contract supports the evaluation of real-time adaptive radar scheduling techniques. Adapt\_MFR has the capability to comprehensively evaluate radar scheduling techniques, so Adapt\_MFR experience is critical to this RFP. Experience in an equivalent tool to Adapt\_MFR will also be considered. It must be shown that the equivalent tool:
  - i. Is a physics-based tool that models naval phased array radar and carries out the modelling and simulation of the radar detection and tracking of both surface and air targets;
  - ii. Has the capability to implement adaptive techniques for the scheduling of radar surveillance and tracking tasks;
  - iii. Has the capability to model multistatic radar (that is, physically separated transmitters and/or receivers); and
  - iv. Includes an interacting multiple model (IMM) target tracker.
3. Yes, we are willing to consider bids from those who have not worked at DRDC.

### MODIFICATIONS:

- 1) At Article 2. Point-Rated Evaluation Criteria, page 34, Attachment 1 of the Request for Proposal:

DELETE: in its entirety.

INSERT:

POINT-RATED EVALUATION CRITERIA		Minimum	Maximum
P1	Both the Bidder's proposed Senior Radar Engineering Resources should demonstrate using project description(s), that they have experience in Matlab programming:		
	Senior Radar Engineer Resource #1 <ul style="list-style-type: none"><li>- 25 to 59 months: 1 point</li><li>- 60 to 89 months: 2 points</li><li>- 90 to 119 months: 3 points</li><li>- 120 months or more: 4 points</li></ul>		8

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	<p>Senior Radar Engineer Resource #2</p> <ul style="list-style-type: none"> <li>- 25 to 59 months: 1 point</li> <li>- 60 to 89 months: 2 points</li> <li>- 90 to 119 months: 3 points</li> <li>- 120 months or more: 4 points</li> </ul>		
<b>P2</b>	<p>Both the Bidder's proposed senior radar engineering resources should demonstrate using project description(s), that they have experience in implementing radar detection techniques in Matlab:</p> <p>Senior Radar Engineer Resource #1</p> <ul style="list-style-type: none"> <li>- 23 months or less: 0 points</li> <li>- 24 to 47 months: 2 points</li> <li>- 48 to 83 months: 3 points</li> <li>- 84 months or more: 4 points</li> </ul> <p>Senior Radar Engineer Resource #2</p> <ul style="list-style-type: none"> <li>- 23 months or less: 0 points</li> <li>- 24 to 47 months: 2 points</li> <li>- 48 to 83 months: 3 points</li> <li>- 84 months or more: 4 points</li> </ul>		<b>8</b>
<b>P3</b>	<p>Both the Bidder's proposed senior radar engineering resources should demonstrate using project description(s), that they have experience in implementing radar tracking techniques in Matlab:</p> <p>Senior Radar Engineer Resource #1</p> <ul style="list-style-type: none"> <li>- 23 months or less: 0 points</li> <li>- 24 to 47 months: 2 points</li> <li>- 48 to 83 months: 3 points</li> <li>- 84 months or more: 4 points</li> </ul> <p>Senior Radar Engineer Resource #2</p> <ul style="list-style-type: none"> <li>- 23 months or less: 0 points</li> <li>- 24 to 47 months: 2 points</li> <li>- 48 to 83 months: 3 points</li> <li>- 84 months or more: 4 points</li> </ul>		<b>8</b>
<b>P4</b>	<p>Both the Bidder's proposed senior radar engineering resources should demonstrate using project description(s), that they have experience in implementing radar scheduling techniques in Matlab:</p> <p>Senior Radar Engineer Resource #1</p> <ul style="list-style-type: none"> <li>- 23 months or less: 0 points</li> <li>- 24 to 47 months: 2 points</li> <li>- 48 to 83 months: 3 points</li> <li>- 84 months or more: 4 points</li> </ul> <p>Senior Radar Engineer Resource #2</p> <ul style="list-style-type: none"> <li>- 23 months or less: 0 points</li> <li>- 24 to 47 months: 2 points</li> <li>- 48 to 83 months: 3 points</li> </ul>		<b>8</b>

	- 84 months or more: 4 points		
<b>P5</b>	<p>Both the Bidder's proposed senior radar engineer resources should demonstrate using project description(s), that they have experience in the modelling and simulation tool Adapt_MFR, or equivalent tool with the same key features as Adapt_MFR. Specifically, the bidder must demonstrate that the equivalent tool:</p> <ol style="list-style-type: none"> <li>1. Is a physics-based tool that models naval phased array radar and carries out the modelling and simulation of the radar detection and tracking of both surface and air targets;</li> <li>2. Has the capability to implement adaptive techniques for the scheduling of radar surveillance and tracking tasks;</li> <li>3. Has the capability to model multistatic radar (that is, physically separated transmitters and/or receivers); and</li> <li>4. Includes an interacting multiple model (IMM) target tracker.</li> </ol> <p>The bidder must present modelling and simulation results to demonstrate that the equivalent tool has the above four features. The bidder must demonstrate that the equivalent tool had the above four features during the timeframe for which work and/or project experience is being claimed.</p> <p>Senior Radar Engineer Resource #1</p> <ul style="list-style-type: none"> <li>- 23 months or less: 0 points</li> <li>- 24 to 47 months: 4 points</li> <li>- 48 to 83 months: 6 points</li> <li>- 84 months or more: 8 points</li> </ul> <p>Senior Radar Engineer Resource #2</p> <ul style="list-style-type: none"> <li>- 23 months or less: 0 points</li> <li>- 24 to 47 months: 4 points</li> <li>- 48 to 83 months: 6 points</li> <li>- 84 months or more: 8 points</li> </ul>		<b>16</b>
<b>P6</b>	<p>Both the Bidder's proposed senior radar engineering resources should demonstrate using project description(s), that they have experience in implementing machine learning techniques in software:</p> <p>Senior Radar Engineer Resource #1</p> <ul style="list-style-type: none"> <li>- 11 months or less: 0 points</li> <li>- 12 to 23 months: 2 points</li> <li>- 24 to 35 months: 3 points</li> <li>- 36 months or more: 4 points</li> </ul> <p>Senior Radar Engineer Resource #2</p> <ul style="list-style-type: none"> <li>- 11 months or less: 0 points</li> <li>- 12 to 23 months: 2 points</li> <li>- 24 to 35 months: 3 points</li> <li>- 36 months or more: 4 points</li> </ul>		<b>8</b>
<b>TOTAL</b>			<b>56</b>

- 2) At Part 1, Article 1.2 Summary, page 3 of the Request for Proposal:

INSERT:

**1.2.6** This requirement is subject to the COVID-19 Vaccination Policy for Supplier Personnel (SACC Manual clause A3080T – COVID-19 vaccination requirement). Failure to complete and provide the COVID-19 Vaccination Requirement Certification as part of the bid will render the bid non-responsive.

- 3) At Part 5, Article 5.1.2 Additional Certifications Required with the Bid, page 14 of the Request for Proposal:

INSERT:

#### **5.1.2.2 COVID-19 vaccination requirement certification**

This procurement is subject to SACC Manual clause A3081T – COVID-19 vaccination requirement certification.

In accordance with the COVID-19 Vaccination Policy for Supplier Personnel, all Bidders must provide with their bid, the COVID-19 Vaccination Requirement Certification attached to this bid solicitation, to be given further consideration in this procurement process. This Certification incorporated into the bid solicitation on its closing date is incorporated into, and forms a binding part of any resulting Contract.

#### **COVID-19 Vaccination Requirement Certification**

I, \_\_\_\_\_ (*first and last name*), as the representative of  
\_\_\_\_\_ (*name of business*) pursuant to  
\_\_\_\_\_ (*insert solicitation number*), warrant and certify that all  
personnel that \_\_\_\_\_ (*name of business*) will provide on the  
resulting Contract who access federal government workplaces where they may come into contact with  
public servants will be:

- (a) fully vaccinated against COVID-19 with Health Canada-approved COVID-19 vaccine(s); or
- (b) for personnel that are unable to be vaccinated due to a certified medical contraindication, **religion or other prohibited grounds of discrimination under the *Canadian Human Rights Act***, subject to accommodation and mitigation measures that have been presented to and approved by Canada;

until such time that Canada indicates that the vaccination requirements of the COVID-19 Vaccination Policy for Supplier Personnel are no longer in effect.

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I certify that all personnel provided by \_\_\_\_\_ (*name of business*) have been notified of the vaccination requirements of the Government of Canada's COVID-19 Vaccination Policy for Supplier Personnel, and that the \_\_\_\_\_ (*name of business*) has certified to their compliance with this requirement.

I certify that the information provided is true as of the date indicated below and will continue to be true for the duration of the Contract. I understand that the certifications provided to Canada are subject to verification at all times. I also understand that Canada will declare a contractor in default, if a certification is found to be untrue, whether made knowingly or unknowingly, during the bid or contract period. Canada reserves the right to ask for additional information to verify the certifications. Failure to comply with any request or requirement imposed by Canada will constitute a default under the Contract.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Optional

For data purposes only, initial below if your business already has its own mandatory vaccination policy or requirements for employees in place. Initialing below **is not** a substitute for completing the mandatory certification above.

Initials: \_\_\_\_\_

Information you provide on this Certification Form and in accordance with the Government of Canada's COVID-19 Vaccination Policy for Supplier Personnel will be protected, used, stored and disclosed in accordance with the Privacy Act. Please note that you have a right to access and correct any information on your file, and you have a right to file a complaint with the Office of the Privacy Commissioner regarding the handling of your personal information. These rights also apply to all individuals who are deemed to be personnel for the purpose for the Contract and who require access to federal government workplaces where they may come into contact with public servants.

- 4) At Part 7, Article 7.2 Standard Clauses and Conditions, page 19 of the Request for Proposal:

INSERT:

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### **7.2.3 Supplemental General Conditions**

4013 (2021-10-18), Compliance with on-site measures, standing orders, policies, and rules, apply to and form part of the Contract.

The Contractor must comply and ensure that its employees and subcontractors comply with all security measures, standing orders, policies or other rules in force at the site where the Work is performed.

**All other terms and conditions remain unchanged.**