



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

**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**  
Frigate Life Extension (FELEX) Project / Bureau de  
projet de prolongation de la vie des frégates (BP  
FELEX)  
455 Blvd de la Carrière  
Gatineau  
Quebec  
K1A 0K2

<b>Title - Sujet</b> NOMAD Payload	
<b>Solicitation No. - N° de l'invitation</b> W8472-185712/A	<b>Amendment No. - N° modif.</b> 001
<b>Client Reference No. - N° de référence du client</b> W8472-185712	<b>Date</b> 2018-06-22
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$FX-011-26859	
<b>File No. - N° de dossier</b> 011fx.W8472-185712	<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 2018-07-20</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> Laporte, Christian	<b>Buyer Id - Id de l'acheteur</b> 011fx
<b>Telephone No. - N° de téléphone</b> (819) 939-3287 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>  Specified Herein Précisé dans les présentes	

**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>

Solicitation No. - N° de l'invitation  
W8472-185712/A  
Client Ref. No. - N° de réf. du client  
W8472-185712

Amd. No. - N° de la modif.  
001  
File No. - N° du dossier  
011fx.W8472-185712

Buyer ID - Id de l'acheteur  
011fx  
CCC No./N° CCC - FMS No./N° VME

---

## Amendment 001

This amendment is raised to add Annex 3 - Questions and Answers.

**ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED AND IN FULL EFFECT.**

**Annex 3**  
**Questions and Answers**

**Question 1:**

**Where could we find the publications:**

**Humpback USV-T Payload Integration Interface Control documents?**

**Humpback USV-T Hardpoints Drawings?**

**How is this information provided to the bidders?**

*Answer:*

*The publications:           Humpback USV-T Payload Integration Interface Control;*

*Humpback USV-T Hardpoints Drawings;*

*are included in the Technical Data Package. The Technical Data Package will be provided upon the receipt of the request for Technical Data Package from the potential bidders.*

**Question 2 :**

**Mast weight – what is included in 55Kg? Mast itself, Electronic Warfare (EW) payload, stabilizer, Electro-Optical (EO) payload, data link, cables? Who is supplying the mast?**

*Answer:*

*The 55 kg is specified as the maximum total weight of the mast itself and all the mass-mounted components of the proposed solution.*

*The mast is a component of the NOMAD system which is to be designed and supplied by the Contractor.*

**Question 3 :**

**Elevation coverage: Is the requirement for antenna coverage of  $\pm 15$  degrees instantaneous coverage in addition to  $\pm 15$  degrees of stabilization?**

*Answer:*

*No, the requirement is that the Effective Radiated Power (ERP) meets the specified minimum level toward an incoming threat on the horizon, regardless of how this is achieved. The boat motion is expected to roll +/- 15 degrees about the horizon. This can theoretically be compensated, for example, through stabilization, antenna beamwidths, or power levels.*

**Question 4 :**

**Effective Radiated Power (ERP) – the requirement is for 30dBW, at Vertical & Horizontal polarization (means at least 33dBW at 45 linear polarization) and in addition, there is a requirement that the ERP will be kept through  $\pm 15$  degrees elevation (meaning addition of 3dB). The total ERP seems to be 36dBW. Is that correct?**

*Answer:*

*The power presented toward an incoming threat at the horizon needs to be higher than 30 dBW (V & H polarization). The boat motion is expected to roll +/- 15 degrees about the horizon. This can theoretically be compensated, for example, through stabilization, antenna beamwidths, or power levels as required.*

**Question 5 :**

**Transmit Spurious Signal Level requirement – can we assume that -40 dBC is within the instantaneous 1GHz bandwidth?**

*Answer:*

*Yes, one can assume that -40 dBC is within the instantaneous bandwidth.*

**Question 6 :**

**Transmit Spurious Signal Level requirement – a major modification is needed to our system to get -40 dBC spurious. Is it possible for this program to propose -15 dBC spur?**

*Answer:*

*Industry is encouraged to provide a response regarding how a requirement would or would not be satisfied. For a requirement that would not be satisfied, an explanation and proposal of a different performance requirement are requested.*

**Question 7 :**

**Instantaneous Bandwidth requirement – can it be reduced to 600 MHz?**

*Answer:*

*Industry is encouraged to provide a response regarding how a requirement would or would not be satisfied. For a requirement that would not be satisfied, an explanation and proposal of a different performance requirement are requested.*

W8472-185712  
NOMAD

**Question 8 :**

*Is the instantaneous bandwidth for a threat or for a pulse bandwidth?*

*Answer:*

*The instantaneous bandwidth relates to the reception of the threat's signals.*

**Question 9:**

**What is the expected schedule for supply of the first system?**

*Answer:*

*It is highly desirable to have the first system delivered for test and evaluation 12 months after contract award.*