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## **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**  
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**Issuing Office - Bureau de distribution**  
Public Works and Government Services Canada -  
Pacific Region  
800 Burrard Street, Room 219  
800, rue Burrard, pièce 219  
Vancouver  
British C  
V6Z 0B9

<b>Title - Sujet</b> Maitland Island Tower	
<b>Solicitation No. - N° de l'invitation</b> F1705-160229/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b>	<b>Date</b> 2017-04-19
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWY-015-8028	
<b>File No. - N° de dossier</b> PWY-6-39367 (015)	<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 2017-04-26</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Pacific Daylight Saving Time PDT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Chan (PWY), Scarlett	<b>Buyer Id - Id de l'acheteur</b> pwy015
<b>Telephone No. - N° de téléphone</b> (604) 369-7853 ( )	<b>FAX No. - N° de FAX</b> (604) 775-6633
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DFO - Maitland Island Tower, Douglas Channel – Kitimat, BC	

**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 Amendment 002**

This solicitation amendment is raised to address contractors' questions and to include Addendum #2. All other terms and conditions remain unchanged.

### **Questions from contractors:**

Q1. Summary of Work (pg. 1) Part 1.4 Work By Others identifies contractor to execute construction of new helipad (1.4.2.1), new building and fuel tank foundations (1.4.2.2), and installation of new building and power generation system (1.4.2.3). Can you please identify what contractor has been commissioned to do this work? Please confirm that contractor to take on this scope of work has already been selected?

A1. A contractor for the work identified in Part 1.4 has not been selected.

Q2. Can CCG be more specific about the top future antenna ("High Gain X-Band SWG Antenna" .... I can't find any information on this antenna but I suspect that it is for marine radar detection. That being the case I suspect it's the same as the one that we designed a tower for Nav Canada on Toronto Island which was the 12 foot long version in the attached references).

A2. A model has not been selected. The requirement is for a future potential. Design allowances of High Gain X-Band SWG include:

WEIGHT:

-Antenna: 170kg incl. adaptation to gearbox

-Turning Unit: 230 kg incl. oil.

-Total: 400kg

OVERALL DIMENSIONS:

-H x L x W: 1110mm x 6560mm x 1280mm for the complete unit

-Swing radius: ≤3300mm

LATERAL FORCE – Survival (free rotating): 6200N

TURNING UNIT BASE TORQUE – Max: 730Nm

CYCLIC TORQUE – Wind 35m/s, 60RPM (2Hz): Min 150Nm Max 685Nm

Q3. +/- 0.05 degrees for tower twist under service loads is the requirement specified (attached). Can CCG please review this requirement and advise?

A3. The tower designed as per S37-13 to have a maximum twist of 0.05 degrees which is required for the desired radar performance.

Q4. Is there any layout plan of the construction mentioned in Section 01 11 00, 1.4 Work by Others, paragraph 2, construction of a new helipad, construction of new building and fuel tank foundations, and installation of a new building, and power generation system, that are in the vicinity of the new tower? We need this information to establish the airlift plan, the rigging/erecting procedure and evaluate safety with respect to other contractors/works being constructed. Also, the layout will impact the grounding system (radials on rock) as per specification.

Q4. A layout plan is not available at this time. Some coordination between Tower Contractor and CCG may be required during construction to avoid conflicts. CCG anticipates creating a site layout in the next couple of months following snow melt to confirm some site conditions.

Q5. Is there any tentative or approximate schedule(s) of work to be performed by others? In our mind, it will be quite difficult to erect the tower and having parts hanging over other working trades on site.

A5. It is anticipated that other work identified will be completed by CCG crews. CCG would like to schedule other site works outside of tower site construction but requires the Tower Contractor's schedule to confirm this will be possible.

Solicitation No. - N° de l'invitation  
F1705-160229/A

Amd. No. - N° de la modif.  
002

Buyer ID - Id de l'acheteur  
pwy015

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

File No. - N° du dossier  
PWY-6-39367

CCC No./N° CCC - FMS No/ N° VME

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Q6. Are we required to have helicopters stay on site with the crews or can we have them dropped off and picked up at end of day?

A6. Helicopters are not required to stay on site with the crews provided risks associated with this are addressed in the Health and Safety plan.

Q7. How are we to charge for down days due to weather? Are we to assume amount of days? How do we charge for additional days if required?

A7. Contract is Lump Sum. Risks associated with weather, mechanical, or other possible delays are to be borne by the contractor and accounted for in the bid.

Q8. Antenna # 1 (Future) High Gain X-Band SWG ? I will need to know a model or sizes for loading

A8. Radar design specifications as noted above.

Q9. Future top platform: I think this is based on the top antenna but please confirm how big they want this and what the main purpose is for so we can design it accordingly.

A9. Tower to be designed to support a future platform to access and maintain a radar antenna. Allow for a 4.5m x 4.5m footprint. Steel framed platform with guardrails all around.

**Project Name:** Maitland Island Tower

**Project Number:** F1705-160229

**Date:** April 18, 2017

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents.

## **Specifications**

### SECTION 13 36 13 – STEEL TOWERS

This Section will be revised to include the following:

#### **Part 1            General**

##### **1.7                DESIGN REQUIREMENTS**

- .10    Tower to be designed to support a future High Gain X-Band SWG radar antenna (DRAWING WM-695-1000) to the following allowances:
  - .1       Weight:
    - .1        Antenna 170kg
    - .2        Turning unit 230kg.
  - .2       Overall dimensions H x L x W: 1110mm x 6560mm x 1280mm
  - .3       Lateral Force (Survival – free rotating): 6200N
  - .4       Turning Unit Base Torque: Max 730Nm
  - .5       Cyclic Torque: Min 150Nm, Max 685Nm
- .11    Tower to be designed to support a future radar platform (DRAWING WM-695-1000) to the following requirements:
  - .1       Overall plan dimensions: 4.5m x 4.5m.
  - .2       Steel frame construction.
  - .3       Guardrails around perimeter of platform.