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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**

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<b>Title - Sujet</b> Estevan Tower Installation	
<b>Solicitation No. - N° de l'invitation</b> F1705-160169/A	<b>Amendment No. - N° modif.</b> 001
<b>Client Reference No. - N° de référence du client</b> F1705-160169	<b>Date</b> 2017-02-17
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWY-031-7984	
<b>File No. - N° de dossier</b> PWY-6-39297 (031)	<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 2017-03-10</b>	
<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> Leung, Janie	<b>Buyer Id - Id de l'acheteur</b> pwy031
<b>Telephone No. - N° de téléphone</b> (604) 666-8228 ( )	<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 - Estevan Point Light Station - Vancouver Island, BC	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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<b>Signature</b>	<b>Date</b>

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**Les documents français seront disponibles sur demande.**

This Amendment #001 is raised to address questions and to issue addendum #1.

**Questions and Answers**

**Q1.** In the specs, it states that we have to provide our own helicopter for transport. However, in the drawings, it states that there'll be a helicopter available that can lift up to 1400 pounds. To clarify, do we have to arrange our own helicopter for transport of personnel and materials or will it be provided?

**A1.** Section 011100 Part 1.3.1.1 notes the contractor is responsible for providing all transportation services during construction. Part 1.3.1.2 notes the Canadian Coast Guard will provide the transportation of materials and equipment at the start of the project and prior to any construction. Once construction begins the contractor will be responsible for all its transportation. Part 3.2.1 notes the all construction materials to be mobilized to site by CCG are to be supplied by contractor to CCG Victoria Base at 25 Huron Street, Victoria, BC by August 31, 2017. The "helicopter available" as noted in Drawing WM-126-1000 is for CCG's mobilizing of the equipment and materials to the site prior to construction and is limited to a maximum lift of 1400 lbs.

**Q2.** We found numerous discrepancies between Appendix C of the Specification (p. 48) and the Drawing WM-126-1000 in terms of antenna type, antenna elevation, and number of Tx-Lines. Large microwave antennas have a serious impact on the design of the tower. Please clarify.

**A2.** Drawing WM-126-1000 has the correct antenna type, elevations and transmission lines. Appendix C of the Specification will be amended.

**Q3.** The specification calls for the design of ice guards (or shields) and the Drawing WM-126-1000 indicates "N/A" for Ice Guards. If required, ice shields for large microwave antennas have a serious impact on the design of the tower. Please clarify.

**A3.** Ice guards are not required. Specification Section 133613.13 Part 3.1.2 will have, "... and ice shields" removed.

**Q4.** The tower profile on the Drawing WM=126-1000 shows a tapered base. Clause 3.1.10 (and others) of Section 133613.13 forbids tapered sections. Please clarify.

**A4.** Tapered sections are not permitted throughout the tower, however as shown in the drawing WM-126-1000 a tapered section is permitted at the base.

**Q5.** The specification calls for the design of anti-climb (Clause 3.5 of Section 133613.13) and the Drawing WM-126-1000 indicates "None" for Anticlimb. Please clarify.

**A5.** Anti-climb will be required at the bottom of the tower. Drawing WM-126-1000 and Part 3.5 of Section 133613.13 will be amended.

**Q6.** The antenna loadings are different between the attached (2) documents;

- a. Appendix-C show (2)HP10 +(4)HP8
- b. Profile drawing show (4)HP10 +(2)HP8

**A6.** Drawing WM-126-1000 has the correct antenna type, elevations and transmission lines. Appendix C of the Specification will be amended.

**Q7.** The attached site survey does not show radii/drop-offs; please provide anchor radii and drop-offs.

**A7.** Anchor radii/drop-offs will be a design item and to be determined by the contractor.

Solicitation No. - N° de l'invitation  
F1705-160169/A

Amd. No. - N° de la modif.  
001

Buyer ID - Id de l'acheteur  
PWY031

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

File No. - N° du dossier  
PWY-6-39297

CCC No./N° CCC - FMS No./N° VME

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**Q8.** Antenna elevation on profile (ant #8) does not match antenna cable schedule (future ant # 1)

**A8.** Drawing WM-126-1000 has the correct antenna type, elevations and transmission lines. Appendix C of the Specification will be amended.

**Q9.** Antenna type on profile (ant #9) does not match antenna & cable schedule (initial ant #8)

**A9.** Drawing WM-126-1000 has the correct antenna type, elevations and transmission lines. Appendix C of the Specification will be amended.

**Q10.** Antenna type on profile (ant #11) does not match antenna & cable schedule (future ant #3)

**A10.** Drawing WM-126-1000 has the correct antenna type, elevations and transmission lines. Appendix C of the Specification will be amended.

**Q11.** Is anticlimb required? Profile says no but supply is mentioned in the tender documents.

**A11.** Anti-climb will be required at the bottom of the tower. Drawing WM-126-1000 and Part 3.5 of Section 133613.13 will be amended.

**Q12.** Tender states Coast Guard will transport tower and equipment to site. Will Coast Guard transport equipment from site after installation is complete or will this be contractors responsibility?

**A12.** Contractor will be responsible for transporting all their equipment from site after installation.

See attached Addendum #1. Note that revised drawings will be posted later.

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

**Project Name:** Estevan Point Light Station – 60.96m (200 ft) Guyed Tower Installation

**Project Number:** F1705-160169

**Date:** February 17, 2017

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

## Plans

### WM-126-1000 ANTENNA LAYOUT

Drawing WM-126-1000 will be revised to note an Anti-climb barrier panel requirement for the base of the tower in the Tower Specifications table.

## Specifications

### SECTION 133613.13 STEEL TOWERS

#### Part 3 - EXECUTION

##### 3.1 Design

.2 Should have "... and ice shields" removed and read as:

The contractor shall design all tower accessories, including new mounts for all antennas, climbing facility with a fall arrest assembly, and anti-climb panels.

.10 To read as follows:

Tower sections are to be parallel for the length of the structure (except at the base, no tapered sections may be used).

##### 3.5 Anti-Climb Panels

.2 To read as follows:

The anti-climb panel will have a barrier panel at the bottom to prevent access.

APPENDIX C: ANTENNA AND CABLE SCHEDULE

**Initial Microwave / Antenna Loading Requirements**

Table to read as follows:

CCG Antenna #	Elev (m)	Antenna	Owner	Azimuth	TX-Line
1	59.75	10 ft High Performance Microwave Antenna with Shield and Hypalon (7GHz)	CCG	347.4	EW77
2	59.75	8 ft High Performance Microwave Antenna with Shield and Hypalon (7GHz)	CCG	121	EW77
3	58.0	SY206-SF2SNM VHF Yagi Antenna	CCG	75	LDF4-50A
4	55.0	SY206-SF2SNM VHF Yagi Antenna	CCG	347.3	LDF4-50A
5	53.7	SY206-SF2SNM VHF Yagi Antenna	CCG	121	LDF4-50A
6	52.0	SY206-SF2SNM VHF Yagi Antenna	CCG	75	LDF4-50A
9	44.2	10 ft High Performance Microwave Antenna with Shield and Hypalon (7GHz)	CCG	321.5	EW77
10	44.2	SY206-SF2SNM VHF Yagi Antenna	CCG	75	LDF4-50A
12	21.4	SD212-SF2P4SNM (D00S-WABK) VHF Dipole Antenna	CCG		LDF4-50A

**Future Microwave / Antenna Loading Requirements**

Table to read as follows:

CCG Antenna #	Elev (m)	Antenna	Owner	Azimuth	TX-Line
7	48.75	10 ft High Performance Microwave Antenna with Shield and Hypalon (7GHz)	CCG	347.4	EW77
8	48.75	8 ft High Performance Microwave Antenna with Shield and Hypalon (7GHz)	CCG	121	EW77
11	29.0	10 ft High Performance Microwave Antenna with Shield and Hypalon (7GHz)	CCG	321.5	EW77