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11 Laurier St. / 11, rue Laurier  
Place du Portage, Phase III  
Core 0A1 / Noyau 0A1  
Gatineau, Québec K1A 0S5  
Bid Fax: (819) 997-9776

**Revision to a Request for a Standing Offer**

**Révision à une demande d'offre à commandes**

National Master Standing Offer (NMSO)

Offre à commandes principale et nationale (OCPN)

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

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'offre 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

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|--|--|
| <b>Title - Sujet</b><br>Microwave Backhaul (Radio) Point to  |  |
| <b>Solicitation No. - N° de l'invitation</b><br>M7594-131471/A   | <b>Date</b><br>2012-12-12                    |
| <b>Client Reference No. - N° de référence du client</b><br>M7594-131471  | <b>Amendment No. - N° modif.</b><br>003      |
| <b>File No. - N° de dossier</b><br>008qd.M7594-131471  | <b>CCC No./N° CCC - FMS No./N° VME</b>       |
| <b>GETS Reference No. - N° de référence de SEAG</b><br>PW-\$\$QD-008-23356   |  |
| <b>Date of Original Request for Standing Offer</b><br>Date de la demande de l'offre à commandes originale 2012-11-21   |  |
| <b>Solicitation Closes - L'invitation prend fin</b><br><b>at - à 02:00 PM</b><br><b>on - le 2012-12-18</b>   |  |
| <b>Address Enquiries to: - Adresser toutes questions à:</b><br>Van Dusen, Eric   | <b>Buyer Id - Id de l'acheteur</b><br>008qd  |
| <b>Telephone No. - N° de téléphone</b><br>(819) 956-5816 ( )   | <b>FAX No. - N° de FAX</b><br>(819) 956-0636 |
| <b>Delivery Required - Livraison exigée</b>  |  |
| <b>Destination - of Goods, Services, and Construction:</b><br><b>Destination - des biens, services et construction:</b>  |  |
| <b>Security - Sécurité</b><br>This revision does not change the security requirements of the Offer.<br>Cette révision ne change pas les besoins en matière de sécurité de la présente offre. |  |

**Instructions: See Herein**

**Instructions: Voir aux présentes**

|  |                          |                          |
|--|--------------------------|--------------------------|
| <b>Acknowledgement copy required</b>   | <b>Yes - Oui</b>         | <b>No - Non</b>          |
| <b>Accusé de réception requis</b>  | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>The Offeror hereby acknowledges this revision to its Offer.</b><br><b>Le proposant constate, par la présente, cette révision à son offre.</b>   |                          |                          |
| <b>Signature</b>   | <b>Date</b>              |                          |
| Name and title of person authorized to sign on behalf of offeror. (type or print)<br>Nom et titre de la personne autorisée à signer au nom du proposant.<br>(taper ou écrire en caractères d'imprimerie) |                          |                          |
| <b>For the Minister - Pour le Ministre</b>   |                          |                          |

Solicitation No. - N° de l'invitation

M7594-131471/A

Amd. No. - N° de la modif.

003

Buyer ID - Id de l'acheteur

008qd

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

M7594-131471

File No. - N° du dossier

008qdM7594-131471

CCC No./N° CCC - FMS No/ N° VME

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**This amendment 003 is raised to change the solicitation closing date to 18 December 2012, 1400h EST, and to address questions that have been raised by bidders.**

**ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.**

## Annex A - Statement of Requirement

| Numbered item | Item of the RFSO                                       | Question/Comment   | Response from Standing Offer Authority |
|---------------|--|--|--|
| 10.2.2.1      | A 2 foot external dish with a gain of at least 28 db   | What is the required frequency range for the antenna in requirement                | Min 4900 MHz to Max 5875 MHz           |
| 10.2.2.2      | A 4 foot external dish with a gain of at least 32 db”? | What is the required frequency range for the antenna in requirement                | Min 4900 MHz to Max 5875 MHz           |
| 10.2.2.3      | A 6 foot external dish with a gain of at least 36 db   | What is the required frequency range for the antenna in requirement                | Min 4900 MHz to Max 5875 MHz           |
| 10.2.2.4      | An external flat panel antenna with gain of 21 dbi     | What is the required frequency range for the antenna in requirement                | Min 4900 MHz to Max 5875 MHz           |
| 10.2.2.5      | An external flat panel antenna with a gain of 23 dbi   | What is the required frequency range for the antenna in requirement                | Min 4900 MHz to Max 5875 MHz           |
| 10.2.2.6      | An external flat panel antenna with a gain of 28 dbi   | What is the required frequency range for the antenna in requirement                | Min 4900 MHz to Max 5875 MHz           |
| 11.2.1        | A 2 foot external dish with a gain of at least 28 dbi  | What is the required frequency range for the antenna in requirement                | Min 4900 MHz to Max 5875 MHz           |
| 11.2.2        | A 4 foot external dish with a gain of at least 32 dbi  | What is the required frequency range for the antenna in requirement                | Min 4900 MHz to Max 5875 MHz           |
| 11.2.3        | A 6 foot external dish with a gain of at least 36 dbi  | What is the required frequency range for the antenna in requirement                | Min 4900 MHz to Max 5875 MHz           |
| 11.2.4        | An external flat panel antenna with gain of 21 dbi     | What is the required frequency range for the antenna in requirement                | Min 4900 MHz to Max 5875 MHz           |
| 11.2.5        | An external flat panel antenna with a gain of 23 dbi   | What is the required frequency range for the antenna in requirement                | Min 4900 MHz to Max 5875 MHz           |
| 11.2.6        | An external flat panel antenna with a gain of 28 dbi   | What is the required frequency range for the antenna in requirement                | Min 4900 MHz to Max 5875 MHz           |
| 10.2.2.1      | A 2 foot external dish with a gain of at least 28 dbi  | Would the Crown accept a SISO (Single-Input Single-Output) antenna for requirement | No                                     |
| 10.2.2.2      | A 4 foot external dish                                 | Would the Crown accept   | No                                     |

|          |  |  |     |
|----------|--|--|-----|
|          | with a gain of at least 32 db                          | a SISO (Single-Input Single-Output) antenna for requirement                        |     |
| 10.2.2.3 | A 6 foot external dish with a gain of at least 36 db   | Would the Crown accept a SISO (Single-Input Single-Output) antenna for requirement | No  |
| 10.2.2.4 | An external flat panel antenna with gain of 21 dbi     | Would the Crown accept a SISO (Single-Input Single-Output) antenna for requirement | No  |
| 10.2.2.5 | An external flat panel antenna with a gain of 23 dbi   | Would the Crown accept a SISO (Single-Input Single-Output) antenna for requirement | No  |
| 10.2.2.6 | An external flat panel antenna with a gain of 28 dbi   | Would the Crown accept a SISO (Single-Input Single-Output) antenna for requirement | No  |
| 11.2.1   | A 2 foot external dish with a gain of at least 28 db   | Would the Crown accept a SISO (Single-Input Single-Output) antenna for requirement | No  |
| 11.2.2   | A 4 foot external dish with a gain of at least 32 dbi  | Would the Crown accept a SISO (Single-Input Single-Output) antenna for requirement | No  |
| 11.2.3   | A 6 foot external dish with a gain of at least 36 db   | Would the Crown accept a SISO (Single-Input Single-Output) antenna for requirement | No  |
| 11.2.4   | An external flat panel antenna with gain of 21 dbi     | Would the Crown accept a SISO (Single-Input Single-Output) antenna for requirement | No  |
| 11.2.5   | An external flat panel antenna with a gain of 23 dbi   | Would the Crown accept a SISO (Single-Input Single-Output) antenna for requirement | No  |
| 11.2.6   | An external flat panel antenna with a gain of 28 dbi   | Would the Crown accept a SISO (Single-Input Single-Output) antenna for requirement | No  |
| 7.4      | The PTP radio must meet Canadian Standards Association | Would the crown accept Canadian Standards Association (CSA)                        | Yes |

|                  |   |   |   |
|------------------|---|---|---|
|                  | (CSA) C22.2 and UL60950-1 for protection and safety   | C22.2 and UL60950-1 certifications on the PoE module as this constitutes the mains powered electrical system of the PtP radio as compliance to requirement                    |   |
| 10.15<br>10.15.3 | The PTP radio must provide the following functionalities:<br>Dynamic Frequency Selection  | For requirement 10.15.3, is the crown requesting that the PtP radio system is compliant with current Industry Canada requirements for DFS to be used in specific radio bands? | Radar avoidance DFS or the ability to automatically detect interference in current channel and jump automatically to a new channel is accepted. |
| 10.11.1          | The PTP radio must provide the functionality to seamlessly operate and provide connectivity with a T1 interface (1.544 Mbps, full duplex, B8ZS line coding) over a 55 km Line of Sight (LOS) link | Does the crown require the T1 interface specified in requirement 10.11.1 to be available on all links supplied, or should it be included as an optional module?               | The radio's IP interface must be able to operate with, and connect to, a T1 interface module but the interface may be priced as an option.      |
|                  |   |   |   |

### General Question

As a point of information/clarification will a GPS-based time pulse be used for the control of the TDD timing such that co-located end point radios transmit simultaneously?

PTP radios must include the functionality to synchronize communications using GPS timing to optimize transmission in particular deployments.