

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
Bid Receiving - PWGSC / Réception des soumissions -  
TPSGC  
11 Laurier St. / 11, rue Laurier  
Place du Portage, Phase III  
Core 0A1 / Noyau 0A1  
Gatineau  
Québec  
K1A 0S5  
Bid Fax: (819) 997-9776

**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**  
Security and Information Operations Division/Division  
de la sécurité et des opérations d'information  
11 Laurier St. / 11, rue Laurier  
8C2, Place du Portage  
Gatineau  
Québec  
K1A 0S5

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|---|--|
| <b>Title - Sujet</b><br>HF AUDIO EQUIPMENT REPLACEMENT  |  |
| <b>Solicitation No. - N° de l'invitation</b><br>W8474-136546/B  | <b>Amendment No. - N° modif.</b><br>002      |
| <b>Client Reference No. - N° de référence du client</b><br>W8474-136546   | <b>Date</b><br>2013-12-05                    |
| <b>GETS Reference No. - N° de référence de SEAG</b><br>PW-\$\$QE-450-24138  |  |
| <b>File No. - N° de dossier</b><br>450qe.W8474-136546   | <b>CCC No./N° CCC - FMS No./N° VME</b>       |
| <b>Solicitation Closes - L'invitation prend fin</b><br><b>at - à 02:00 PM</b><br><b>on - le 2014-01-06</b>  |  |
| <b>F.O.B. - F.A.B.</b><br><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><br>Guilderson, Greg   | <b>Buyer Id - Id de l'acheteur</b><br>450qe  |
| <b>Telephone No. - N° de téléphone</b><br>(819) 956-0564 ( )  | <b>FAX No. - N° de FAX</b><br>(819) 956-0740 |
| <b>Destination - of Goods, Services, and Construction:</b><br><b>Destination - des biens, services et construction:</b><br>N/A  |  |

**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><br><b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>   |  |
| <b>Telephone No. - N° de téléphone</b><br><b>Facsimile No. - N° de télécopieur</b>   |  |
| <b>Name and title of person authorized to sign on behalf of Vendor/Firm</b><br><b>(type or print)</b><br><b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b><br><b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b> |  |
| <b>Signature</b>   | <b>Date</b>                                  |

Solicitation No. - N° de l'invitation

W8474-136546/B

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

W8474-136546

Amd. No. - N° de la modif.

002

File No. - N° du dossier

450qeW8474-136546

Buyer ID - Id de l'acheteur

450qe

CCC No./N° CCC - FMS No/ N° VME

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Changes to this Letter of Interest may occur and will be advertised on the Government Electronic Tendering Systems (GETS). It is each Respondent' responsibility to verify changes, if any, on Buy and Sell.

Amendment 002 reflects technical changes to the Statement of Work (SOW).

See attached document.

**ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME**

DEPARTMENT OF NATIONAL DEFENCE

**REVISIONS TO THE  
STATEMENT OF WORK**

**HIGH FREQUENCY AUDIO SYSTEMS**

CORRECTIONS:

3.9 Existing Equipment Removal and Disposal

DND will be responsible for the removal and disposal of all in service equipment that becomes obsolete following the installation of the HF Audio System Replacement Program. In addition, DND will be responsible for the removal and disposal of all in service material, cabling and software associated with the equipment to be removed. The availability of modern technology has determined that this replacement program does not necessarily require it to be a “direct one for one” equipment replacement – this concept is depicted in Appendix 2 of this SOW.

4.7.2.1 MACS System Operations and Receive Site, Carrying Place, ON

The site HF Audio System shall be provided with the necessary equipment to support the following functionality:

- a. Site  $\mu$ W link interface to carry voice & provide PTT control over a maximum of ten (10) 4W E&M interfaces;
- b. IP Network interfaces to provide Any Console Any Station operation;
- c. Access and control of all transmitters and receivers at Debert and Edmonton sites over T1, IP, 4W E&M and/or V.35 telco circuits;
- d. Five (5) 4W E&M transmitter interfaces;
- e. Redundant IP interfaces with appropriate interface control devices to control the A & B receiver control processors;
- f. Redundant IP interfaces with appropriate interface control devices to control the A & B transmitter control processors;
- g. Thirty-six (36) 4W E&M monitor receiver interfaces;
- h. Five (5) 4W E&M receiver interfaces;
- i. Twelve (12) FXO and Twelve (12) FXS interfaces for Ground/Ground patching;
- j. Local administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- k. Remote administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- l. Ancillary equipment as required; and
- m. Six (6) Radio Operator Console Equipment positions, as listed in paragraph 3.2.5.

4.7.2.3 MACS System Standby Operations and Receive Site, Riverbend, AB

The site HF Audio System shall be provided with the necessary equipment to support the following functionality:

- a. Site  $\mu$ W link interface to carry voice & provide PTT control over a maximum of ten (10) 4W E&M interfaces;
- b. IP Network interfaces to provide Any Console Any Station operation;
- c. Access and control of all transmitters and receivers by the Carrying Place operations site over T1, IP, 4W E&M and/or V.35 telco circuits;
- d. Fallback capability to local control of all Cardiff transmitters and Riverbend receivers in the event of failure of the network connection;
- e. Five (5) 4W E&M transmitter interfaces;

- f. Redundant IP interfaces with appropriate interface control devices to control the A & B receiver control processors;
- g. Redundant IP interfaces with appropriate interface control devices to control the A & B transmitter control processors;
- h. Thirty-six (36) 4W E&M monitor receiver interfaces;
- i. Five (5) 4W E&M receiver interfaces;
- j. Twelve (12) FXO and Twelve (12) FXS interfaces for Ground/Ground patching;
- k. Local administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- l. Remote administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- m. Ancillary equipment as required; and
- n. Four (4) Radio Operator Console Equipment positions, as listed in paragraph 3.2.5.

#### 4.7.2.6 MACS System Standby Operations and Transmit Site, Great Village, NS

The site HF Audio System shall be provided with the necessary equipment to support the following functionality:

- a. Site  $\mu$ W link interface to carry voice & provide PTT control over a maximum of ten (10) 4W E&M interfaces;
- b. IP Network interfaces to provide Any Console Any Station operation;
- c. Access and control of all transmitters and receivers by the Carrying Place operations site over T1, IP, 4W E&M and/or V.35 telco circuits;
- d. Fallback capability to local control of all Great Village transmitters and Masstown receivers in the event of failure of the network connection;
- e. Five (5) 4W E&M transmitter interfaces;
- f. Redundant IP interfaces with appropriate interface control devices to control the A & B receiver control processors;
- g. Redundant IP interfaces with appropriate interface control devices to control the A & B transmitter control processors;
- h. Thirty-six (36) 4W E&M monitor receiver interfaces;
- i. Five (5) 4W E&M receiver interfaces;
- j. Twelve (12) FXO and Twelve (12) FXS interfaces for Ground/Ground patching;
- k. Local administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- l. Remote administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- m. Ancillary equipment as required; and
- n. Four (4) Radio Operator Console Equipment positions, as listed in paragraph 3.2.5.

#### 4.7.2.7 MARCOM West AGA System Operations Site, Esquimalt, BC

The site HF Audio System shall be provided with the necessary equipment to support the following functionality:

- a. Site link interface to carry voice & provide PTT control over a maximum of ten (10) 4W E&M interfaces;
- b. IP Network interfaces to provide Any Console Any Station operation;
- c. Access and control of all transmitters and receivers at Debert and Edmonton sites over T1, IP, 4W E&M and/or V.35 telco circuits;
- d. Five (5) 4W E&M transmitter interfaces;
- e. Redundant IP interfaces with appropriate interface control devices to control the A & B receiver control processors;
- f. Redundant IP interfaces with appropriate interface control devices to control the A & B transmitter control processors;
- g. Thirty-six (36) 4W E&M monitor receiver interfaces;
- h. Five (5) 4W E&M receiver interfaces;
- i. Twelve (12) FXO and Twelve (12) FXS interfaces for Ground/Ground patching;
- j. Local administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- k. Remote administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- l. Ancillary equipment as required; and
- m. Four (4) Radio Operator Console Equipment positions, as listed in paragraph 3.2.5.

#### 4.7.2.10 MARCOM East AGA System Operations Site, Halifax, NS

The site HF Audio System shall be provided with the necessary equipment to support the following functionality:

- a. Site link interface to carry voice & provide PTT control over a maximum of ten (10) 4W E&M interfaces;
- b. IP Network interfaces to provide Any Console Any Station operation;
- c. Access and control of all transmitters and receivers at Debert and Edmonton sites over T1, IP, 4W E&M and/or V.35 telco circuits;
- d. Five (5) 4W E&M transmitter interfaces;
- e. Redundant IP interfaces with appropriate interface control devices to control the A & B receiver control processors;
- f. Redundant IP interfaces with appropriate interface control devices to control the A & B transmitter control processors;
- g. Thirty-six (36) 4W E&M monitor receiver interfaces;
- h. Five (5) 4W E&M receiver interfaces;
- i. Twelve (12) FXO and Twelve (12) FXS interfaces for Ground/Ground patching;
- j. Local administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- k. Remote administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- l. Ancillary equipment as required; and
- m. Four (4) Radio Operator Console Equipment positions, as listed in paragraph 3.2.5.

#### 4.7.2.13JTFN HQ System Operations and Receive Site, Yellowknife, NT

The site HF Audio System shall be provided with the necessary equipment to support the following functionality:

- a. Site  $\mu$ W link interface to carry voice & provide PTT control over a maximum of ten (10) 4W E&M interfaces;
- b. IP Network interfaces to provide Any Console Any Station operation;
- c. Five (5) 4W E&M transmitter interfaces;
- d. Redundant IP interfaces with appropriate interface control devices to control the A & B receiver control processors;
- e. Redundant IP interfaces with appropriate interface control devices to control the A & B transmitter control processors;
- f. Thirty-six (36) 4W E&M monitor receiver interfaces;
- g. Five (5) 4W E&M receiver interfaces;
- h. Twelve (12) FXO and Twelve (12) FXS interfaces for Ground/Ground patching;
- i. Local administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- j. Remote administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- k. Ancillary equipment as required; and
- l. Four (4) Radio Operator Console Equipment positions, as listed in paragraph 3.2.5.

#### 4.7.2.15CFSCF HF Training Facility, CFB Kingston, Kingston, ON

The site HF Audio System shall be provided with the necessary equipment to support the following functionality:

- a. Simulated site  $\mu$ W link interface to carry voice & provide PTT control over a maximum of ten (10) 4W E&M interfaces;
- b. IP Network interfaces to provide Any Console Any Station operation;
- c. Five (5) 4W E&M transmitter interfaces;
- d. Redundant IP interfaces with appropriate interface control devices to control the A & B receiver control processors;
- e. Receive site simulation interface to carry voice over a max of 10 4W E&M interface over T1, IP, 4W E&M and/or V.35 telco circuits;
- f. Redundant IP interfaces with appropriate interface control devices to control the A & B transmitter control processors;
- g. Transmit site simulation interface to carry voice over a max of 10 4W E&M interface over T1, IP, 4W E&M and/or V.35 telco circuits;
- h. Thirty-six (36) 4W E&M monitor receiver interfaces;
- i. Five (5) 4W E&M receiver interfaces;
- j. Twelve (12) FXO and Twelve (12) FXS interfaces for Ground/Ground patching;
- k. Local administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- l. Remote administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- m. Ancillary equipment as required; and
- n. Four (4) Radio Operator Console Equipment positions, as listed in paragraph 3.2.5.

4.7.2.16HF Development Laboratory, DND Uplands Site, Ottawa, ON

The site HF Audio System shall be provided with the necessary equipment to support the following functionality:

- a. Site link interface to carry voice & provide PTT control over a maximum of ten (10) 4W E&M interfaces;
- b. IP Network interfaces to provide Any Console Any Station operation;
- c. Five (5) 4W E&M transmitter interfaces;
- d. Redundant IP interfaces with appropriate interface control devices to control the A & B receiver control processors;
- e. Receive site simulation interface to carry voice over a max of 10 4W E&M interface over T1, IP, 4W E&M and/or V.35 telco circuits;
- f. Redundant IP interfaces with appropriate interface control devices to control the A & B transmitter control processors;
- g. Transmit site simulation interface to carry voice over a max of 10 4W E&M interface over T1, IP, 4W E&M and/or V.35 telco circuits;
- h. Thirty-six (36) 4W E&M monitor receiver interfaces;
- i. Five (5) 4W E&M receiver interfaces;
- j. Twelve (12) FXO and Twelve (12) FXS interfaces for Ground/Ground patching;
- k. Local administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- l. Remote administration and maintenance software applications and associated licences and terminal(s) for proposed equipment;
- m. Ancillary equipment as required; and
- n. Two (2) Radio Operator Console Equipment positions, as listed in paragraph 3.2.5.

-END OF REVISIONS-

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME