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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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Title - Sujet REPLACEMENT HF MONITOR RECEIVERS	
Solicitation No. - N° de l'invitation W8474-136566/B	**Amendment No. - N° modif.** 004
Client Reference No. - N° de référence du client W8474-136566	**Date** 2013-12-05
GETS Reference No. - N° de référence de SEAG PW-$$QE-450-24137	
File No. - N° de dossier 450qe.W8474-136566	**CCC No./N° CCC - FMS No./N° VME**
Solicitation Closes - L'invitation prend fin **at - à 02:00 PM** **on - le 2014-01-06**	**Time Zone** **Fuseau horaire** Eastern Standard Time EST
F.O.B. - F.A.B. **Plant-Usine:** ☐ **Destination:** ☑ **Other-Autre:** ☐	
Address Enquiries to: - Adresser toutes questions à: Guilderson, Greg	**Buyer Id - Id de l'acheteur** 450qe
Telephone No. - N° de téléphone (819) 956-0564 ( )	**FAX No. - N° de FAX** (819) 956-0740
Destination - of Goods, Services, and Construction: **Destination - des biens, services et construction:** N/A	

Instructions: See Herein

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Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) **Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)** **Signature**	**Date**

Canada

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 004 reflects techncial changes to the Statement of Work (SOW).

See attached document.

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME

DEPARTMENT OF NATIONAL DEFENCE

REVISONS TO THE

STATEMENT OF WORK

TO REPLACE THE

HIGH FREQUENCY MONITOR RECEIVER

SYSTEMS

CORRECTIONS

3.2.1 Design Concept Overview

The design concept for the replacement HF monitor receiver system covers HF receiver equipment, system servers, technician control software, signal processing and routing software, operator console processors, and operator control software. At each of the listed receive sites, the HF monitor receiver system shall be connected to a minimum of nine (9) coaxial feeds fed from a receive antenna matrix, and shall directly digitize thirty-six (36) outputs of narrowband frequency channel information over any modern standard high speed digital interface. This data will be forwarded to a control and data server which runs the multichannel receiver software. The control and data server will provide technician and operator access setting capability, and it shall have a keyboard, video and mouse (KVM) for local technician access to the set-up of multi-channel digital receiver server and for diagnostics. The control and data server software shall process the receiver data and then frame the resultant voice audio data and associated metadata before passing it over an Ethernet local area network (LAN) interface to operator consoles in the operations centres. Once the audio data is on the LAN it shall also be accessible by a local backup operator console which is used in the event of network failure at the associated main operator site. However, under normal operations, the data will be routed over standard T1 data links on public telecommunications infrastructure to operators who are, in most cases, physically remote from the receiving equipment. The radio operators shall be provided the capability to route audio and data message traffic between different arrays of radio station operator positions, audio or data message input or output systems and HF station receive or transmit equipment. That will provide them with the capability to operate any receiver console from any station. The new radio equipment shall interoperate with existing system equipment without causing changes to be required to the configuration or operation of the existing equipment other than those described in this SOW. No changes will be required to the antenna switch matrix or how it is controlled.

3.2.2 Replacement HF Monitor Receiver System Requirements

The replacement HF Monitor Receiver system shall:

a. Replace HF monitor receivers at each of the above listed eight (8) Rx sites with HF monitor receiver systems that can simultaneously receive 36 single sideband (SSB) frequency channels at each site;
b. Be designed to enable remote operations by off-site operators;
c. Be designed to enable multiple operator consoles at each Rx site;
d. Be designed to use the GDNS network for all data and control communications between sites;
e. Provide appropriate filtering and conversion to digital format and compression for each frequency channel;
f. Be designed to suitably scale, compress, rate convert and encapsulate the audio data for transport over the public telecommunications network;
g. Be designed to enable transportation of signals/information in digital format, compatible with IP networks, between all sites;

h. Be designed to enable the operator software applications to select any MACS, MARCOM AGA or the JTFN HQ RX site as the source for monitor receiver signals at any other MACS, MARCOM AGA or the JTFN HQ operator position;
i. Provide a dedicated audio output to the operator selected from any of the 36 voice channels;
j. Provide a summary audio output to the operator which consists of a selectable mix of any of the 36 voice channels;
k. Provide operator controlled squelch for the dedicated and summary audio channels;
l. Provide signal presence indicators for all 36 frequency channels;
m. Provide a simple graphical user interface (GUI); and
n. Include software for technician access for equipment set-up, diagnostics and status reporting.

-END OF REVISIONS-

ALL OTHER TERMS AND COINDITIONS REMAIN THE SAME

DEPARTMENT OF NATIONAL DEFENCE

REVISONS TO THE

TECHNICAL SPECIFICATION

FOR THE REPLACEMENT OF

HIGH FREQUENCY MONITOR RECEIVER

SYSTEMS

CORRECTIONS

1.2 The HF Monitor Receiver equipment shall have a minimum of 9 antenna input ports with any required signal distribution having a loss of less than or equal to 0.25 dB.

1.5 The HF Monitor Receiver equipment shall simultaneously receive a minimum of 36 independently tuneable channels.

2.9 The HF Monitor Receiver network interface shall simultaneously provide up to 36 channels of audio data.

-END OF REVISONS-

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME