



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 0B2 / Noyau 0B2

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

Electronics, Simulators and Defence Systems Div.
/Division des systèmes électroniques et des systèmes de
simulation et de défense
11 Laurier St. / 11, rue Laurier
8C2, Place du Portage
Gatineau
Québec
K1A 0S5

Title - Sujet Navtex Transmitters Equipment	
Solicitation No. - N° de l'invitation F7048-160040/A	Amendment No. - N° modif. 004
Client Reference No. - N° de référence du client F7048-160040	Date 2023-08-11
GETS Reference No. - N° de référence de SEAG PW-\$\$QF-120-29101	
File No. - N° de dossier 120qf.F7048-160040	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Daylight Saving Time EDT on - le 2023-08-18 Heure Avancée de l'Est HAE	
F.O.B. - F.A.B.	
Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Johnston, Charlene	Buyer Id - Id de l'acheteur 120qf
Telephone No. - N° de téléphone (873) 354-9869 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
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

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Amd. No. - N° de la modif.
004
File No. - N° du dossier
F7048-160040/A

Buyer ID - Id de l'acheteur
120qf
CCC No./N° CCC - FMS No./N° VME

AMENDMENT 004 IS RAISED TO RESPOND TO THE FOLLOWING BIDDER QUESTIONS:

#	QUESTION	RESPONSE
1	Will the referenced ANNEX F and ANNEX H be provided (see pages 26 and 28 of the attached .pdf file)?	Yes, they were attached to the RFP on Canada Buys on 08/08.
2	Please confirm that ANNEX G is complete as provided (see page 27 of the attached .pdf file).	Yes, Annex "G" Electronic Payment Instruments is complete as written.
3	Is the external interlock relay to be provided by the CCG or the bidder? Please clarify "for switching "off" transmitter" - transmitter RF off, or removal of AC supply to the transmitter (see 5.1.1v, page 139 of the attached .pdf file).	After review, CCG has removed requirement, 5.1.1 v).
4	Canada could greatly benefit from a wide coverage, high power NAVDAT solution, especially in the Arctic. An observation is that given NAVDAT is an emerging standard, NAVDAT presents challenges to coastal authorities when trying to pin down specific implementation details. Our experience suggests that a 1kW NAVTEX transmitter/ATU/Antenna cannot produce 1kW of NAVDAT signal due to large signal peaks in the digital modulation. Reports before the IMO indicate that NAVDAT requires 10 kW to 50 kW transmission power to achieve NAVTEX comparable coverage. This makes NAVDAT practically incompatible with today's NAVTEX installations (transmitters, ATU, Antenna). The NAVDAT standard supports transmitter powers up to 100 kW PEP (10 kW RMS at 10 dB peak back-off, M.2010-Section 1.3.5) Field trials were reported at the 7th meeting of the NCSR Item 12 achieving 193 nm at 16 QAM data rates with a 5 kW transmitter (NCSR 7-INF.13 Table 4). 293 nm range was reported at a reduced 4 QAM data rate. ITU-R M.2201 estimates 10-50 kW PEP (1-5 kW RMS) to establish a 320-400 nm range at a high 64 QAM data rate but more high power field trials are required. A 1 kW NAVTEX transmitter may only produce 100 W RMS NAVDAT signal with back-off; data capacity would only be a little better than NAVTEX today and have significantly less range than today's NAVTEX deployments. This approach may be suitable for a NAVDAT backup system but is not sufficient to take advantage of the desirable transmission capacities associated with a high power NAVDAT system. It is proposed that a reasonable power and data choice for Canada could be a 50 kW PEP transmitter with at least 16 QAM. Please confirm whether power levels of 50 kW PEP are required for the NAVDAT compatible transmitter system, or specify the required peak envelope power to satisfy your future NAVDAT needs (see 4.5.1, page 137 of the attached .pdf file).	CCG has made no decisions with respect to performance or power requirements for any future NAVDAT services.

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5	Does the "Less than 6 seconds" AATU Channel Change Time spec - see 5.3.3 l), page 142 of the attached .pdf file - apply to only switching between 490 kHz and 518 kHz for NAVTEX operation, or does it also apply to switching between NAVTEX and NAVDAT modes/frequencies of operation?	This requirement applies only to switching between the 490 kHz and 518 kHz NAVTEX channels.
6	Please indicate how we are to state the cost of these courses in the "Financial Evaluation Chart"	Costs should be proved for each course in the the Financial Evaluation Chart PSPC to respond. The courses are outlined in the S.O.W., 4.6
7	With regard to the Integration Service Support: 1. What does "a per diem rate" cover? 2. Is the Integration Service Support to be provided remotely or "on-site"? 3. On the Financial Evaluation Chart, What should be put in the "Unit Price"?	2.1 As per Section 4.2.2.2, any services required to support equipment installations. 2.2 Please refer to Section 4.2.2.2 of the SOW. 2.3 The daily rate should be inserted as the Unit Price
8	Will the CCG ship the Transmitter equipment (4 sets) used for training back to the supplier following completion of the training?	The Contractor is responsible for transporting the equipment used for training.
9	Item 20 states 50 days, yet, Appendix B Deliverable List states 20 days total. Which is correct? On the Finacial Evaluation Chart, Unit Price should we list the daily rate or total cost?	Use 50 days as per Financial Evaluation Chart. Daily Rate should be used on the Evaluation Chart
10	With reference to the Financial Evaluation Chart, what amount should be written in "Unit Price"; the cost of 1 year additional warranty or the total cost of 9 years additional warranty?	Disregard Line # 22 on the Financial Evaluation Chart. See Updated Chart (below) for the Additional Warranties.
11	Do we need to provide a bid bond for this tender	A bid bond is not required for this tender.
12	What are the average payment terms provided that the supplier submits an undisputed invoice	Canada pays for work performed or goods received under a contract in accordance with Canada's standard payment period of 30 days as provided in the general conditions.
13	Are the costs of shipping the equipment used for the training courses to be included in the bid, or are they to be billed as actual after each training course (see 4.6.1.7 & 4.6.1.8)	The cost of shipping of equipment used for all training courses should be included in the bid price.
14	Are the costs of shipping the equipment to the destinations/sites to be included in the bid, or are they to be billed as actual at the time of equipment shipment (see 6.13 'Delivery)	The costs of shipping the equipment should not be included in the bid. If your prices are F.O.B. plant, the shipping costs need to be indicated as a separate line item. See 4.1.2 Financial Evaluation

ADDITIONAL WARRANTY EVALUATION - PRICES ARE ANNUAL, IN CANADIAN FUNDS, TAXES EXTRA

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9
Equipment delivered in 2023/2024									
Equipment delivered in 2024/2025									
Equipment delivered in 2025/2026									
Equipment delivered in 2026/2027									
Equipment delivered in 2027/2028									