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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
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11 Laurier St. / 11, rue Laurier
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Gatineau, Québec K1A 0S5

Title - Sujet CCGS Griffon -VLE	
Solicitation No. - N° de l'invitation F7049-200157/A	Amendment No. - N° modif. 023
Client Reference No. - N° de référence du client F7049-200157	Date 2023-08-09
GETS Reference No. - N° de référence de SEAG PW-\$\$MD-029-29039	
File No. - N° de dossier 029md.F7049-200157	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 2023-10-11 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: Jeddi, Loubna	Buyer Id - Id de l'acheteur 029md
Telephone No. - N° de téléphone (873) 455-3835 ()	FAX No. - N° de FAX (819) -
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

Solicitation Amendment # 023

This amendment is hereby raised :

1. To include Questions and the Responses for the solicitation.
 2. To update the Technical Data Package - Google Drive.
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1. Questions and the Responses for the solicitation.

Q#1: SOW item 10.11

Para C.1.15 States that sprinkler heads shall be removed, stored and reinstalled. To our knowledge, the reuse / reinstallation of sprinkler heads is strictly prohibited per the NFPA standards. Please clarify if it is owner's intent to reuse the existing sprinkler heads.

A#1: The Sprinkler heads onboard the CCGS Griffon are serviced regularly and have been removed and reused in the past without damage. Teflon is used when tightening the sprinkler heads in place providing a long-lasting lubricant should it become necessary to remove the sprinkler heads for servicing. In the event that is deemed necessary to replace the sprinkler heads, CCG will provide the heads as GSM during the VLE project.

Q#2: SOW item 10.11

Para. C.1.23 outlines a unit of cost by meter per pipe size. Is the intent to perform the services by unit pricing or will unit pricing only be utilized for system changes?

A#2: Para C.1.23 asks for a unit cost per 1m to be used for adjustment purposes via PWGSC 1379. We ask for the cost of replacement for 30m of various piping sizes. Depending on the actual length installed, the 30m will be adjusted up or down via a prorated price per/meter or piping. These prices will have to include Labour for installation and Materials cost.

Q#3: SOW item 10.15

Para. C.1.16 outlines a unit of cost by meter per pipe size. Is the intent to perform the services by unit pricing or will unit pricing only be utilized for system changes?

A#3: Para C.1.16 asks for a unit cost per 1m to be used for adjustment purposes via PWGSC 1379 (See below). We ask for the cost of replacement for 30m length of various piping sizes. Depending on the actual length installed, the 30m will be adjusted up or down via a prorated price per/meter or piping. These prices will have to include Labour for installation and Materials cost.

Q#4: SOW item 10.15

Para. C.1.16 notes replacement of 5" pipe. 5" pipe is no longer a common diameter used within the industry. Is an alternate pipe size such as 4" or 6" an acceptable replacement?

A#4: Canada would like to keep the requirement for a 5" pipe size as is in the VLE SOW. Canada has provided a 12 month period prior to the start of the VLE for long lead procurements and engineering which must be sufficient if orders are placed on time for a delivery of a non-common pipe diameters.

Q#5: SOW item 14.6 Rev 01

Paras. C.8.13 and C.8.15

It is a request to use a three grounding light indicator. This way to supervise the isolation of a network has several draw back and should not be used anymore. We are asking to change those requirements by adding the possibility to replace all three grounding light indicators by isolation monitoring device with a display of the actual isolation value.

A#5: In Response to Q #5 we have made the following changes (edits are in **bold, italic and highlighted**):

C.8.13 Other Main Switchboard components required:

1. Emergency Switchboard (Lower Tie breaker) circuit breaker control switch;
2. Emergency Switchboard (Lower Tie breaker) circuit breaker status indicator lights (Open/Closed);
3. Bow Thruster breaker control switch;
4. Bow Thruster breaker status indicator lights (Open/Closed), and
5. 3-phase grounding **light** indicators with an independent **visual indication**, audible alarm and latching silence function for every isolatable section of the 460 V/ 240 V/ 120 V main buses.

C.8.15 Other Emergency Switchboard requirements:

1. 3-phase grounding **light** indicators with an independent **visual indication**, audible alarm and latching silence function for every isolatable section of the 460 V/ 240 V/ 120 V emergency buses.
2. 3-phase grounding **light** indicators with an independent **visual indication**, audible alarm and latching silence function for the 120 VAC essential bus located on the EGen section of the Emergency Switchboard.

C.8.16 Ground Fault Detection (GFD):

1. The Main and Emergency 460 V Service buses are nominally an ungrounded system which means that a ground fault (phase to ground) is not to directly lead to loss of service and is not to be a "high energy" event. However, ground fault detection is required for primary and secondary distribution systems.
2. The Contractor must provide a ground fault monitoring and alarm system for all voltage levels of the power distributions.
3. A ground fault detection system is required for each voltage level, the system must continuously monitor the ground fault and provide audible and visual alarm for all AC systems and indication at the switchboards and be able to be integrated to the vessel's AMS.
4. Audible alarms and indicating lights must be mounted on the panels where the system grounds are being monitored. Grounding alarms must integrate with the AMS so that a ground on any bus system activates is repeated and identified in the AMS. The ground fault detection arrangement must be replicated on both sides of the tie breakers to ensure monitoring is complete when the tie is open.
5. A ground fault detection device must be employed to monitor the windings of the SSG and EGen when they are not running and not connected. This is in addition to, and separate from, the Bus Ground Fault Detection measures described above.

6. Ground fault detection must not initiate trips of the EGen or other equipment. Alarms will be annunciated at the Emergency Switchboard (e.g., via alarm pilot light) and made available to the vessel's external AMS by "dry contact". The ground fault monitoring and alarm system must include ground lights with a test switch on each switchboard.
7. ***The Contractor must demonstrate to the TA that the ground fault detection and/or indication devices meet the requirements of TP127 part 9 – Switchboards other than propulsion control panels. The Contractor must demonstrate to the TA that the ground fault detection and/or indication devices are approved by an RO as defined by Transport Canada DSIP (i.e. ABS).***

2. To update the Technical Data Package - Google Drive.

Canada has created a new folder in the Google drive and saved the new Drawings referenced in the Installation Specification for 19.1 – Propulsion Control System:

CCGS Griffon VLE → Installation SOW for 19.1 Propulsion Control System -> Reference Drawings

Canada have also saved a new document in the following folder in the Google Drive - 7022887-401-FD-(Propulsion Control System Refit FDS)-V4_00 for installation instructions:

CCGS Griffon VLE → Installation SOW for 19.1 Propulsion Control System

These drawings and documents can now be used by the Electrical subcontractors to price the work of SOW item 19.1.

ID	DOCUMENT ID
1	7022-887-PROP-MAIN-ONE_-A401
2	7022-887-PROP-MAIN-CABL-A401
3	7022-887-PROP-MAIN-CABL-A401
4	7022-887-PROP-TELE-ONE_-A401
5	7022-887-PROP-COMM-ONE_-A401
6	7022-887-PROP-CTRL-BLOC-D401
7	7022-887-PROP-ENGR-SCHE-P401
8	7022-887-PROP-ENGR-SCHE-P401
9	7022-887-PROP-ENGR-SCHE-P401
10	7022-887-PROP-PWHS-SCHE-P403
11	7022-887-PROP-POWR-SCHE-P410
12	7022-887-PROP-PWRO-SCHE-P411
13	7022-887-PROP-PWRI-SCHE-P412
14	7022-887-PROP-PWRM-SCHE-P441
15	7022-887-PROP-UPSS-SCHE-P461
16	7022-887-PROP-ENGR-SCHE-R401
17	7022-887-PROP-ENGR-SCHE-R401
18	7022-887-PROP-ENGR-SCHE-R401
19	7022-887-PROP-CWHS-SCHE-R402
20	7022-887-PROP-ENGR-SCHE-S401
21	7022-887-PROP-ENGR-SCHE-S401
22	7022-887-PROP-ENGR-SCHE-S401
23	7022-887-PROP-SWHS-SCHE-S403
24	7022-887-PROP-POWR-SCHE-S410
25	7022-887-PROP-PWRO-SCHE-S411
26	7022-887-PROP-PWRI-SCHE-S412
27	7022-887-PROP-PWRM-SCHE-S441
28	7022-887-PROP-UPSS-SCHE-S461

End of Solicitation Amendment #023.