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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
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Gatineau, Québec K1A 0S5

Title - Sujet CCGS Terry Fox VLE	
Solicitation No. - N° de l'invitation F7049-200041/B	Amendment No. - N° modif. 020
Client Reference No. - N° de référence du client F7049-200041	Date 2022-02-17
GETS Reference No. - N° de référence de SEAG PW-\$\$MD-043-28394	
File No. - N° de dossier 043md.F7049-200041	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 2022-05-17 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: Pandini, Madeleine	Buyer Id - Id de l'acheteur 043md
Telephone No. - N° de téléphone (873) 353-9119 ()	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

Solicitation Amendment # 020

This amendment is hereby raised :

- 1. To include Questions and the Responses for the solicitation.**
 - 2. To announce an update to the Technical Data Package, TDP.**
 - 3. To update Annex A - Statement of Work (SOW), Part B SOW item 11.14.**
 - 4. To update Annex A - Statement of Work (SOW), Part B SOW item 12.1.**
 - 5. To update Annex A - Statement of Work (SOW), Part B SOW item 12.2.**
 - 6. To update Annex A - Statement of Work (SOW), Part B SOW item 15.4.**
 - 7. To update Annex A - Statement of Work (SOW), Part A GR 08.**
 - 8. To provide the latest CCG visitor requirements for the 2nd Site Visit**
 - 9. To update RFP Annex V PDR-CDR (REV 2).**
-

- 1. To include Questions and the Responses for the solicitation.**

A log (added as attachment 'questions 020.zip') includes all previous Questions and Answers.
This Amendment 020 adds questions ref 197 to 210 to the log.

- 2. To announce an update to the Technical Data Package, TDP.**

The TDP and TDP updates are only available to those who have signed the non-disclosure agreement in Request for Proposal (RFP) Annex S - Non-Disclosure Agreement.

An update folder has been added at the link (provided to those eligible).

TDP Update 22.02.18 Folder includes:

- A Document Request Status Log "Document Request Status Log 22.02.18" – this file indicates requests for drawings and documents that have been received, and the status of each request (note that duplicate requests may exist).
- Updated TPD Indices – Drawings and Documents
- Additional files, as requested, as indicated on the Document Request Status Log - refer to green highlights

- 3. To update Annex A - Statement of Work (SOW), Part B SOW item 11.14.**

Subsequent to question ref 197 response, the following edits are provided for clarification.

Annex A - Statement of Work (SOW), located in Annex A - Statement of Work folder (included in the attachment 'annex_annexe_a_REV1.zip') is revised.

In subfolder 3, SOW PART B, and in file 'Part B Section 11- Hull and Related Structure REV1'.

Under section 11.14 Internal Steel Repairs:

A.

- Insert:
 - 3.1.1.9 Prior to commencing the Work, the Contractor must mechanically clean down to the bare metal the defined wasted internal surfaces of the ventilation trunking including all webs, flanges, and associated stiffeners. All debris generated from mechanically cleaning must not to be allowed

to fall into the engine room ventilation trunking; debris generated must be cleaned up and disposed of ashore.

B.

- Insert:

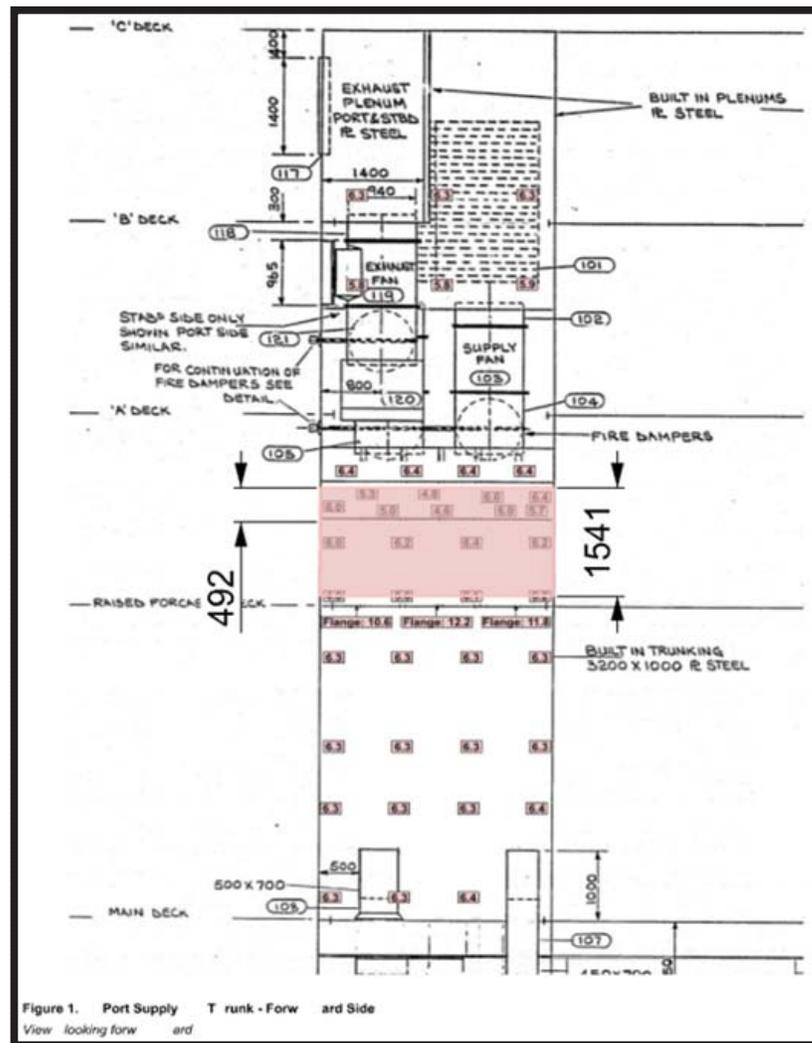
3.1.1.10 Once suitably cleaned, a full visual inspection must be performed by the Contractor, the attending ABS Surveyor, and the CCG TA to determine the extent of the wastage. Any additional repairs required as a result of this inspection will be addressed via PWGSC 1379 action.

C.

- Insert:

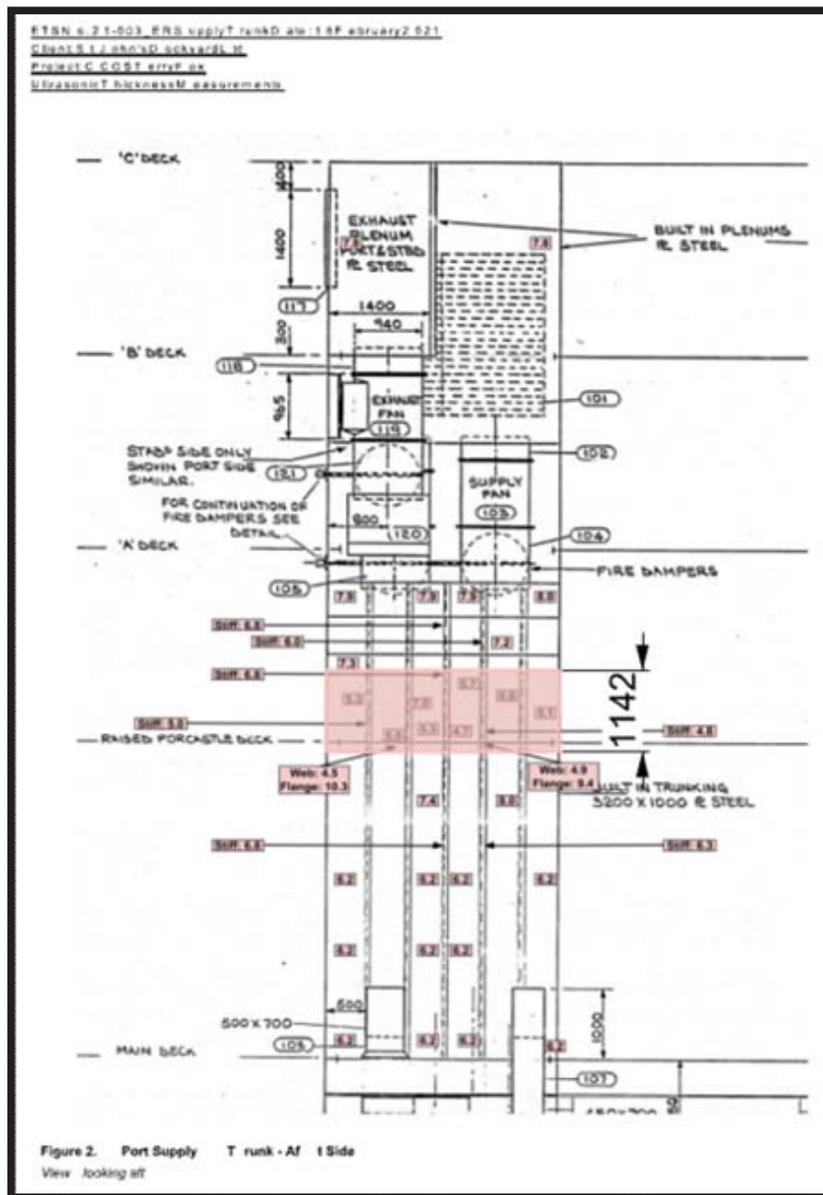
3.1.1.11 The Contractor must bid on the replacement of the wasted steel surface areas defined in Figures 1 to 4 and in Figures 6 to 9.

a) Figure 1: Port Supply Trunking - Forward Side



- Contractor must crop out and replace, with a new 6.5 mm steel section of the trunking plating approximately 3200mm by 2033mm in size, in the location(s) defined by the shaded area.

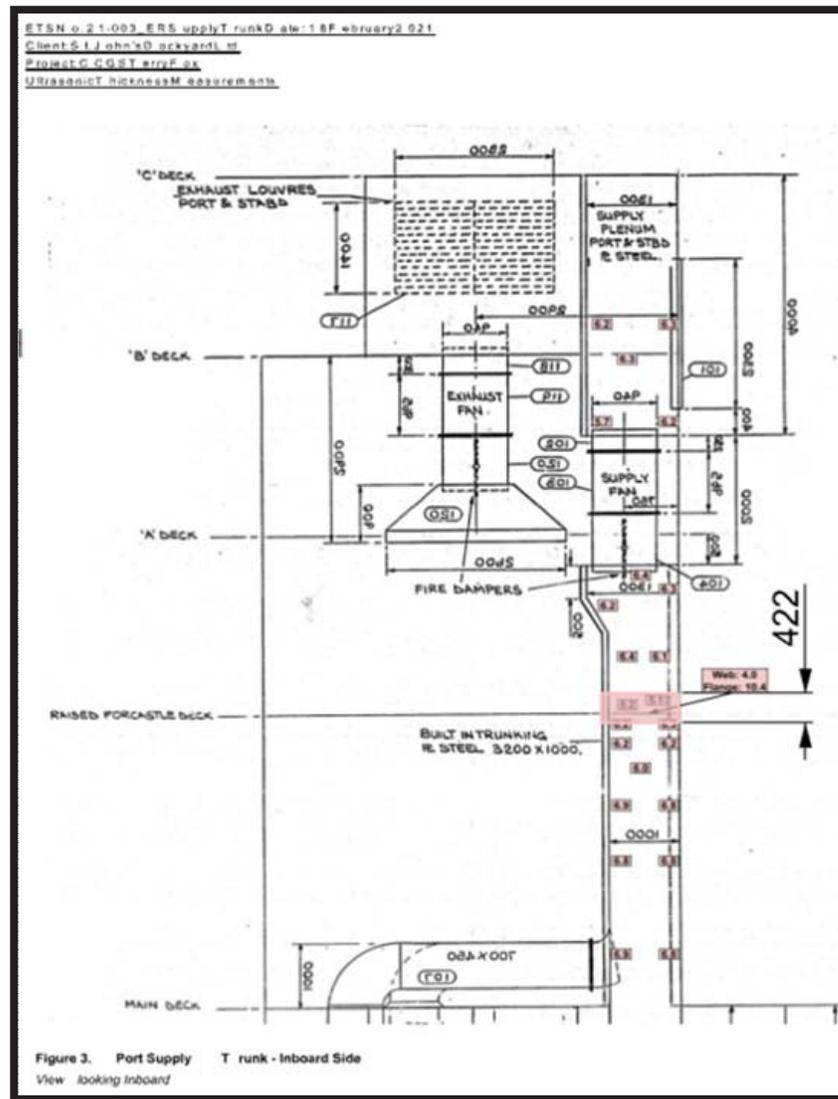
b) Figure 2: Port Supply Trunking - Aft Side



- Contractor must crop out and replace, with a new 6.5 mm steel section of the trunking plating approximately 3200mm by 1142mm in size, in the location defined by the shaded area.
- The new insert must have stiffeners installed per the removed plating and connected (welded) to the existing stiffeners.

- The existing horizontal web plating must be cropped out and replaced with a new section of 8 mm steel plate with approximate dimension(s) of 3200 mm by 300mm.
- The existing vertical flange plating must be cropped out and replaced with a new section of 12 mm steel plate with approximate dimension(s) of 3200 mm by 457mm.

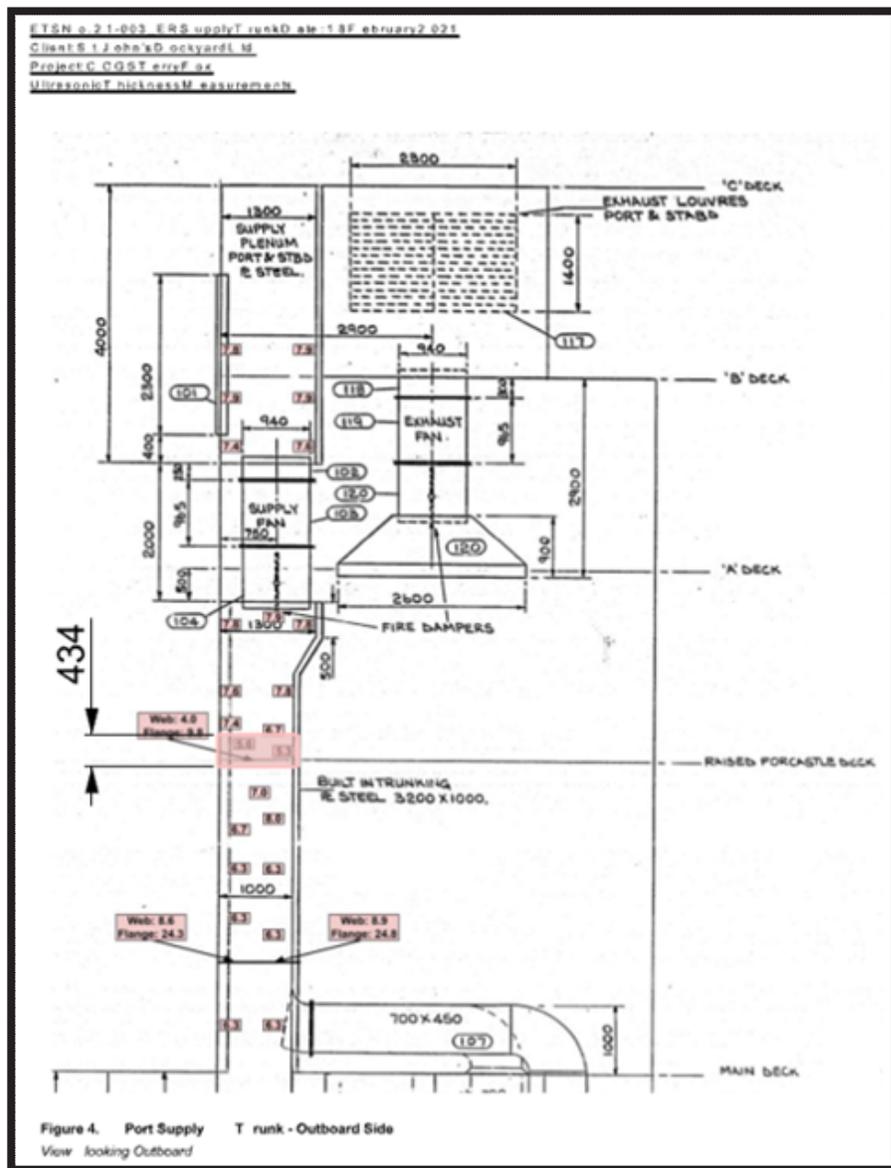
c) Figure 3: Port Supply Trunking – Inboard Side



- Contractor must crop out and replace, with a new 6.5 mm steel section of the trunking plating approximately 1000mm by 422 mm in size, in the location defined by the shaded area.

- The existing horizontal web plating, located at the raised foc'sle deck level, must be cropped out and replaced with a new section of 8 mm steel plate with approximate dimension(s) of 1000 mm by 457mm.
- The existing vertical flange plating must be cropped out and replaced with a new section of 12 mm steel plate with approximate dimension(s) of 1000 mm by 300mm.

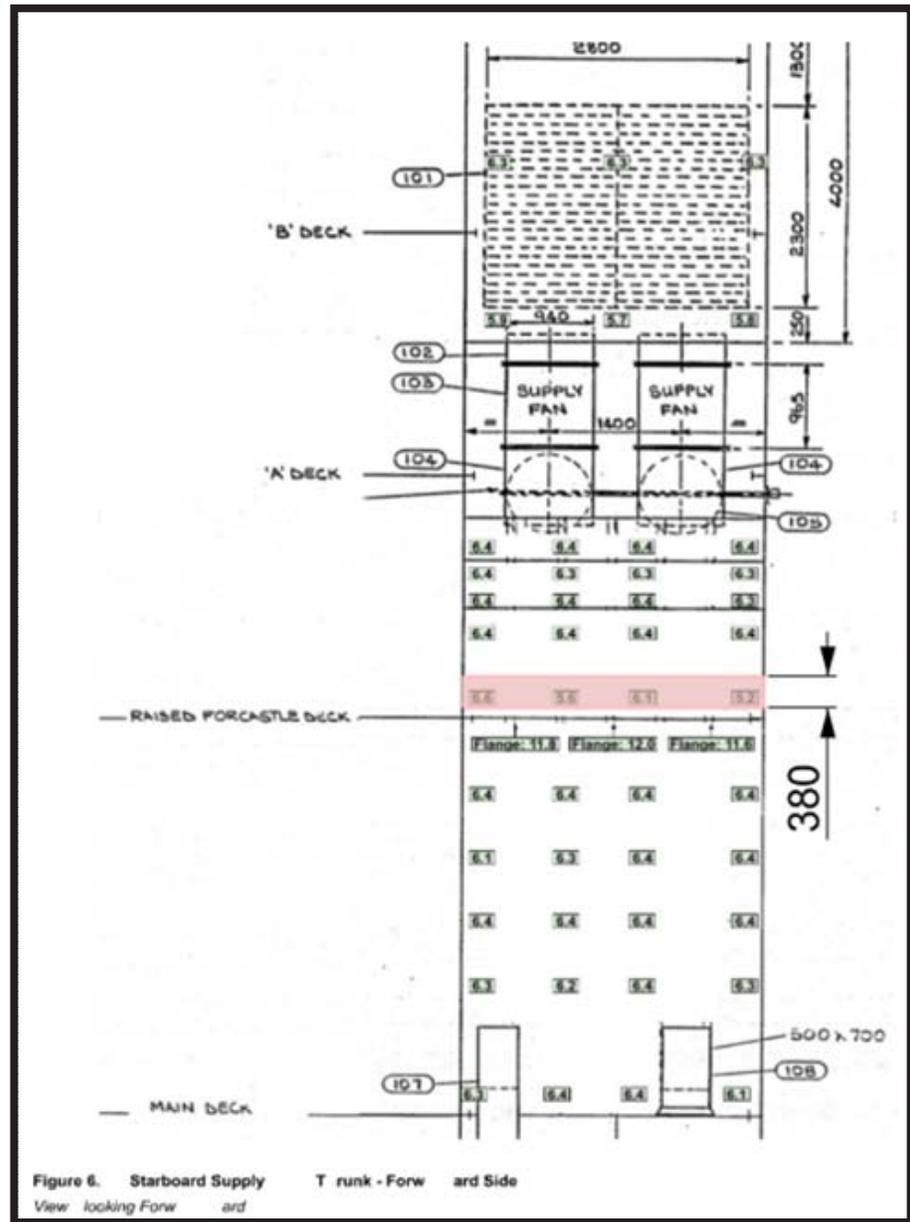
d) Figure 4: Port Supply Trunking – Outboard Side



- Contractor must crop out and replace, with a new 6.5 mm steel section of the trunking plating approximately 1000mm by 434mm in size, in the location defined by the shaded area.

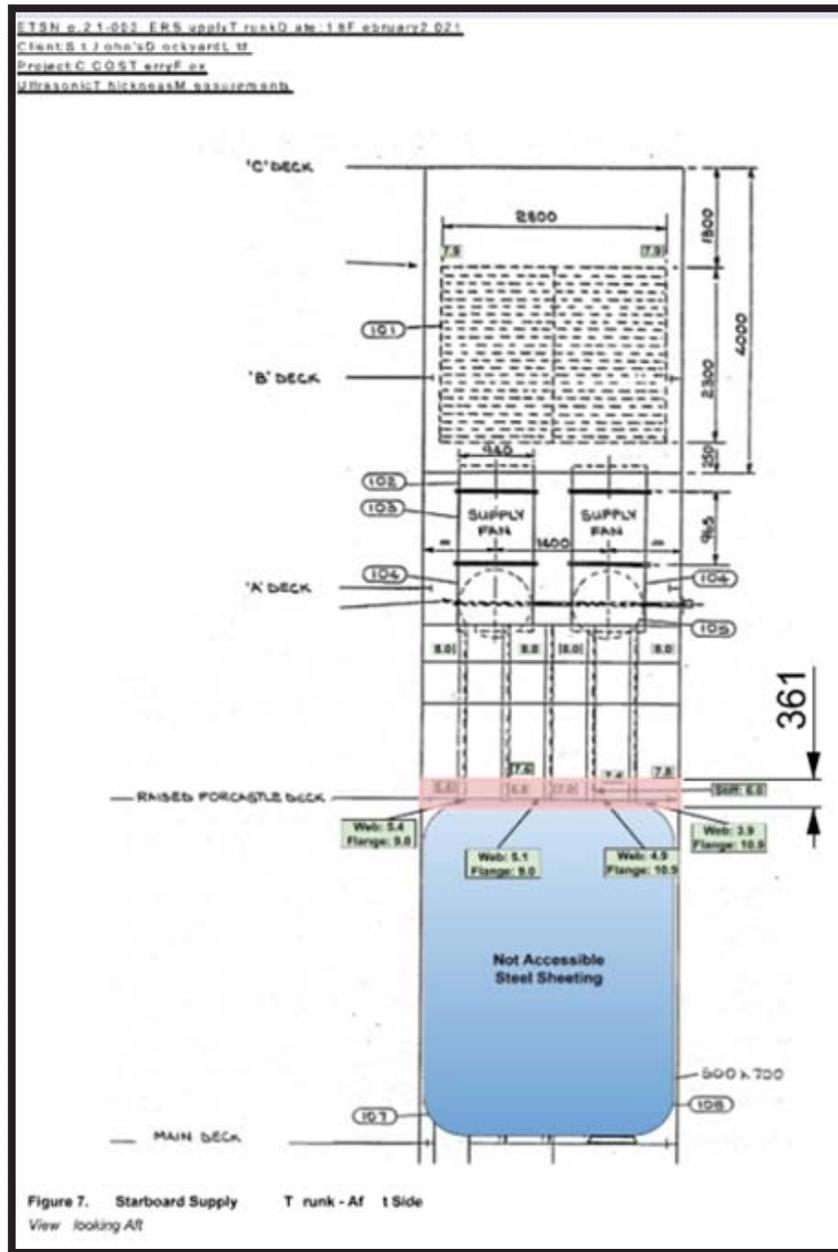
- o The existing horizontal web plating must be cropped out and replaced with a new section of 8 mm steel plate with approximate dimension(s) of 1000 mm by 457mm

e) Figure 6: Stbd Supply Trunking Forward Side



- o Contractor must crop out and replace, with a new 6.5 mm steel section of the trunking plating approximately 3200mm by 380mm in size, in the location defined by the shaded area.

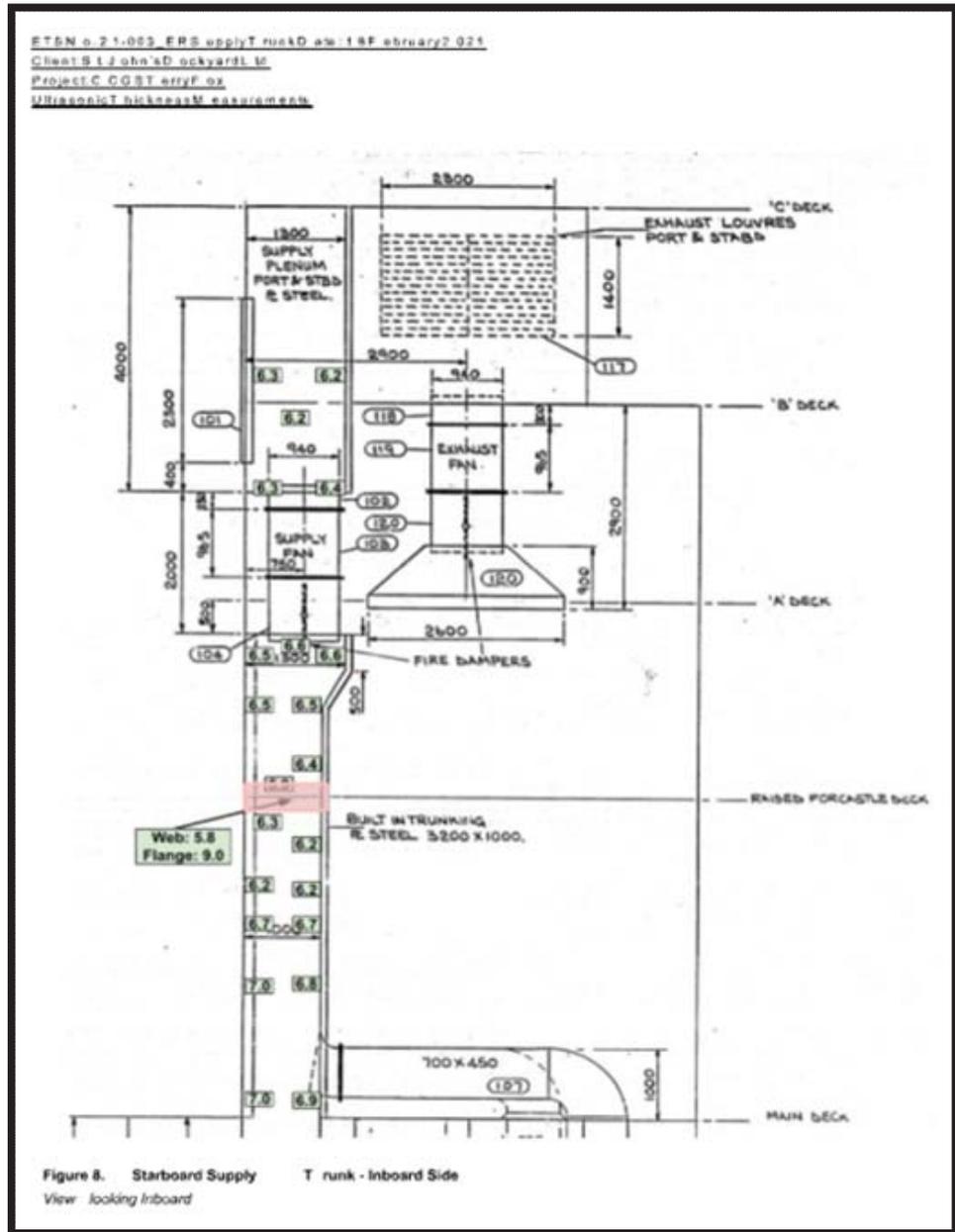
f) Figure 7: Stbd Supply Trunking -Aft Side



- Contractor must crop out and replace, with a new 6.5 mm steel section of the trunking plating approximately 3200mm by 361mm in size, in the location defined by the shaded area.
- The existing horizontal web plating, located at the raised forecastle deck level, must be cropped out and replaced with a new section of 8 mm steel plate with approximate dimension(s) of 3200 mm by 457mm.

- The existing vertical flange plating must be cropped out and replaced with a new section of 12 mm steel with approximate dimension(s) of 3200 mm by 300mm.

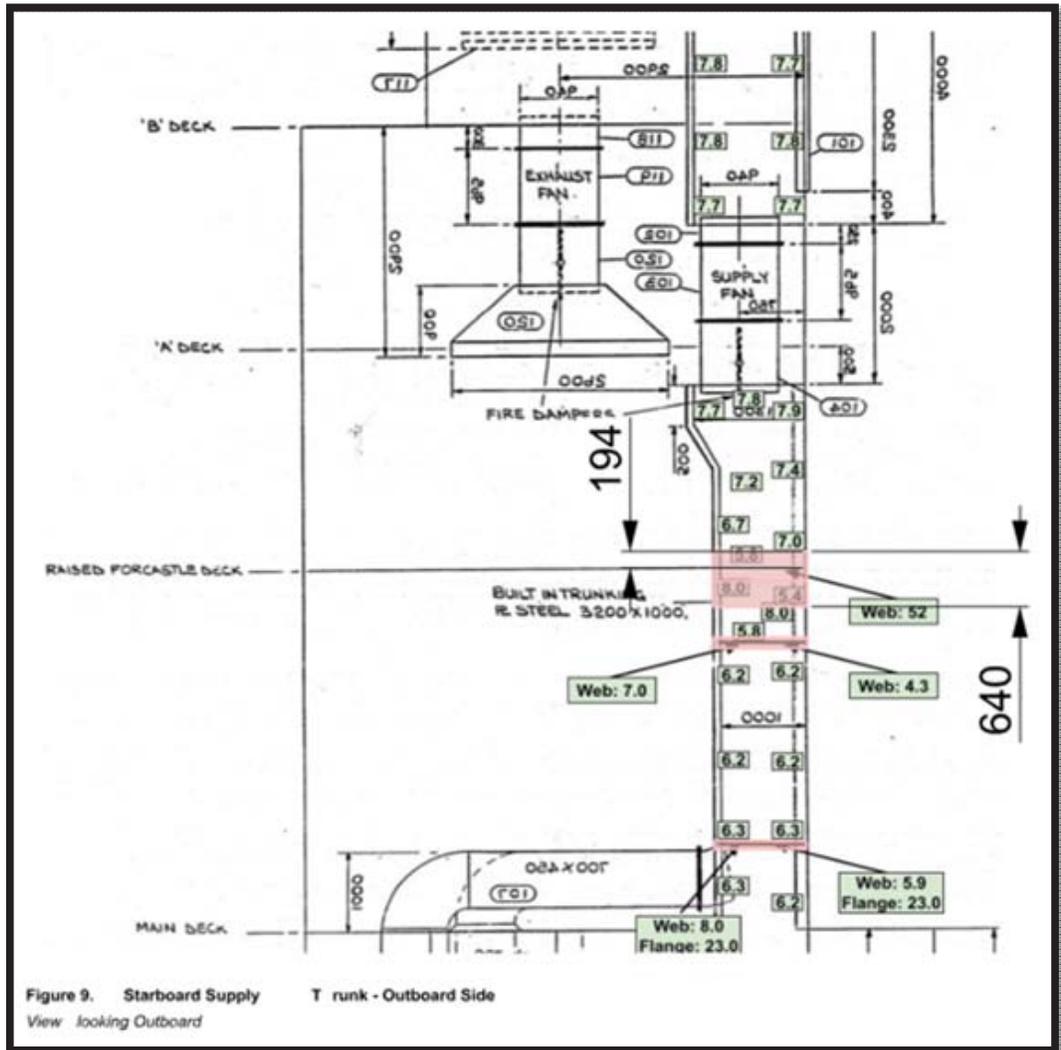
g) Figure 8: Stbd Supply Trunking Inboard Side



- The existing horizontal web plating, located at the raised foc'sle deck level, must be cropped out and replaced with a new section of 8 mm steel plate with approximate dimension(s) of 1000 mm by 457mm.

- The existing vertical flange plating must be cropped out and replaced with a new section of 12 mm steel plate with approximate dimension(s) of 1000 mm by 422mm.

h) Figure 9: Stbd Supply Trunking Outboard Side



- Contractor must crop out and replace, with a new 6.5 mm steel section of the trunking plating approximately 1000mm by 422 mm in size, in the location defined by the shaded area.
- The existing horizontal web plating must be cropped out and replaced with a new section of 8 mm steel plate with approximate dimension(s) of 1000 mm by 422mm
- The existing horizontal web plating, located approximately one (1) meter below the raise foc'sle deck must be cropped out and replaced with a new section of 10 mm steel plate with approximate dimension(s) of 1000 mm by 457mm.

- The existing horizontal web plating, located approximately two (2) meters above the Main Deck level, must be cropped out and replaced with a new section of 10 mm steel plate with approximate dimension(s) of 1000 mm by 457mm.

D.

- Insert:

- 3.1.1.12 All newly installed horizontal webs must have drainage holes drilled to prevent any water accumulation from forming.

E.

- Insert 3.1.2 (in its entirety):

3.1.2 Protective Coatings

- 3.1.2.1 The Contractor must Abrasive blast 100% to SSPC SP10 Near White Metal, the total internal surface of the ventilation trunking in order to provide an acceptable surface profile in preparation of applying the following coating applications. The Contractor must take the necessary precautions to ensure that no debris nor contaminants are allowed to enter the engine room and all debris/contaminants must be collected and disposed of ashore. This cleaning must include the horizontal sections of the engine room ventilation ducting.

- 3.1.2.3 The CCG NACE Inspector must inspect trunking for cleanliness before the application of any coating(s). Once the level of cleanliness has been approved, the Contractor must apply the following coatings in accordance with the manufacturer's instructions.

- 3.1.2.4 The internal coating to be applied to the internal surfaces of the trunking must be Intershield 300 and this coating must be applied in multiple coats, per the manufacturer's recommended application guidelines. Two (2) separate full coats of Intershield 300 must be applied to achieve a DFT of (6-8) mils per coat. All protruding steel should be rounded or removed from the steel surface. All welds, sharp edges, rat holes and hard-to-access areas must receive a stripe coat by brush prior to a full coat application. Each coat of the specified system shall receive a stripe coat, as listed above. An Inspection Test Plan (ITP) must be in place with all hold points clearly listed. A pre-job meeting must be conducted to ensure all parties involved understand the hold points listed on the ITP. A holiday test must be completed as an inspection point on the ITP to ensure zero holidays exist. The Contractor must coat the total surface area, including any access manhole covers. Coating applications must be carried out per the manufacturer's application guidelines and inspections must be carried out by the CCG NACE inspector between each coat. The Contractor must arrange for all of these inspections to take place and any defects found due to missed inspections will be repaired at the Contractor's expense.

- 3.1.2.5 The Contractor must ensure that the coating applications being applied do not restrict or block the drain holes found on the horizontal surfaces.

F.

- Delete

4.1.1.1

- Insert:

4.1.1.1 All work performed must be inspected to the satisfaction of the attending ABS Class Surveyor, the CCG TA, and the CCG NACE inspector.

G.

- Delete (in its entirety):

Addendum

4. To update Annex A - Statement of Work (SOW), Part B SOW item 12.1.

Subsequent to question ref 198 response, Annex A - Statement of Work (SOW), located in Annex A - Statement of Work folder (included in the attachment 'annex_annexe_a_REV1.zip') is revised (Note that affected updates to the Pricing Data Sheet for section 12.2 will follow in a subsequent amendment).

In subfolder 3, SOW PART B, and in file 'Part B Section 12 – Propulsion & Maneuvering Systems REV1'. Under section 12.1 PROPULSION MACHINERY REPLACEMENT:

- Delete (in its entirety):

3.4.2.26

- Insert (**edits are shown in bold italics**):

3.4.2.26 The ME's must be provided with the following additional features:

- a) Main bearing temperature monitoring
- b) Connecting rod bottom end bearing temperature monitoring
- c) Individual cylinder indicator cocks that facilitate manual recording of cylinder firing and combustion pressures by traditional means.
- d) **Individual cylinder combustion process monitoring relative to crankshaft position with ability to display respective P-V diagrams. This system must be continuously available to operators without set up or calibration of monitoring hardware. NOTE: This feature and its cost is to be included as an OPTION (if available) and will not be part of the total bid submission cost. Its inclusion will be considered after contract award with the PWGSC 1379 process, if deemed necessary.**
- e) Crankcase oil mist detection system
- f) Crankcase vent oil separation system
- g) Crankcase explosion doors
- h) Hydraulically tightened main bearing bolts
- i) Hydraulically tightened big end bolts
- j) Hydraulically tightened head bolts
- k) Bottom end bearings must be serviceable without removing piston
- l) Carbon cutting rings in liners
- m) Fully SOLAS compliant
- n) Start load limitation
- o) Overspeed trip mechanism
- p) Free end turbo mounting
- q) Air intake filter/silencer
- r) Flexible connections of all piping systems to the engines
- s) Anti-polishing ring in liner
- t) Valve rotators at all valves
- u) Sectional camshaft

- v) Turbo cleaning
- w) Two temp cooling system with two stage charge air cooling and constant charge air temp control
- x) Charge air cooler condensate drains and leak detection
- y) Air waste gate silencers if air waste gates utilized

5. To update Annex A - Statement of Work (SOW), Part B SOW item 12.2.

Subsequent to question ref 202 response,
 Annex A - Statement of Work (SOW), 'Part B Section 12 – Propulsion & Maneuvering Systems REV 1',
 SOW item 12.2 BUBBLER COMPRESSOR REPLACEMENT (as amended in Amendment 012 item 2) is
 amended to:

- Insert:

3.1.1.9 The Bidder must assume that the new bubbler machinery will:

- a) Require 485 kW electrical feed to each new bubbler compressor VFD;
- b) Fit within same footprint as existing equipment;
- c) Will not present any change in weight; and
- d) Will not conflict with other aspects of the VLE.

Any changes to the above confirmed after contract award will be dealt with via the PWGSC 1379 process.

6. To update Annex A - Statement of Work (SOW), Part B SOW item 15.4.

Annex A - Statement of Work (SOW), located in Annex A - Statement of Work folder (included in the
 attachment 'annex_annexe_a_REV1.zip') is revised.

In subfolder 3, SOW PART B, and in file 'Part B Section 15 - Auxiliary Systems REV1'.

Under SOW item 15.4 Pump Replacement:

A.

- Delete (in its entirety):

2.4.1.1

- Insert (**edits are noted in bold italics**):

2.4.1.1 Fire and General Service Pump

<u>Pump</u>				
Type	QVP2-5/300		Power	30 kW
Dual Capacity	100 m³/hr & 62 m³/hr		Speed	1750 RPM
Total Head	27 m & 74 m		Pressure	260/715 kPa
Serial No	42867-1			
<u>Motor</u>				
Make	Etatech		Frame	326TD
Type	N-BPN-4		Model	6917035
Volts	440/3/60		Bearings	6213 RSZ
Speed	1755 RPM		HP	40
Serial No	KF9098-6			

B.

- Delete (in its entirety):

2.4.1.2

- Insert (**edits are noted in bold italics**):

2.4.1.2 Fire Pump

<u>Pump</u>			
Type	QV-2-4/300	Power	30 kW
Capacity	62 m³/hr	Speed	1750 RPM
Total Head	74m	Pressure	715 kPa
Serial No	42868-1		
<u>Motor</u>			
Make	Etatech	Frame	326TD
Type	N-BPN-4	Model	6917035
Volts	440/3/60	Bearings	6213 RSZ
Speed	1755 RPM	HP	40
Serial No	KF9098-4		

C.

- Delete (in its entirety):

2.4.1.3

- Insert (**edits are noted in bold italics**):

2.4.1.3 Fire and Bilge Pump

<u>Pump</u>			
Type	QVP2-5/300	Power	30 kW
Dual Capacity	100 m³/hr, 62 m³/hr	Speed	1750 RPM
Total Head	Not identified	Pressure	Not identified
Serial No	42867-2		
<u>Motor</u>			
Make	Etatech	Frame	326TD
Type	N-BPN-4	Model	6917035
Volts	440/3/60	Bearings	6213 RSZ
Speed	1755 RPM	HP	40
Serial No	KF9098-3		

D.

- Delete (in its entirety):

2.4.1.4

- Insert (**edits are noted in bold italics**):

2.4.1.4 Fire Monitor Pumps (2 of)

Pump			
Type	QVP2-8/350	Power	Not identified
Capacity	300 m³/hr	Speed	Not identified
Total Head		Pressure	920 kPa
Serial No	42869/4 Port 42869/2 Stbd		
Motor			
Make	Etatech	Frame	445TD
Type	N-BPN-4	Model	7207035
Volts	440/3/60	Bearings	NU 218 6315 ZZ
Speed	1770 RPM	HP	150
Serial No	KF9094-4 Port KF9094-2 Stbd	Direction of Rotation	Port – CW Stbd – CCW As viewed from above

E.

- Delete (in its entirety):

2.4.1.5

- Insert (**edits are noted in bold italics**):

2.4.1.5 Bilge and Ballast Pump

Pump			
Type	QVP2-5/300	Power	15 kW
Capacity	93 m³/hr	Speed	1750 RPM
Total Head	28.5 m	Press	260 kPa
Serial No	42866/2		
Motor			
Make	Etatech	Frame	2841D
Type	N-BPN-1	Model	6826135
Volts	440/3/60	Bearings	6211 RSZ
Speed	1755 RPM	HP	20
Serial No	KF9099-2		

F.

- Delete (in its entirety):

3.4.1.4

- Insert:

3.4.1.4

New electric motors supplied with the pump units must be as currently offered and recommended by the pump unit manufacturer. The motors must be to NEMA Standard and with enclosure ingress protection rating of IP56 or better. All applicable requirements of SOW Part A

GR 04, section 1.2 must apply. SOW Part A GR 04 section 1.3, Anticondensation heaters, does not apply; anticondensation heaters are not required for this SOW item's new motors.

7. To update Annex A - Statement of Work (SOW), Part A GR 08.

Subsequent to question ref 210 response;
Annex A - Statement of Work (SOW), located in [Annex A - Statement of Work](#) folder (included in the attachment 'annex_annexe_a_REV1.zip') is revised.

In subfolder 2. SOW PART A; in file 'Part A GR Section – General Requirements', in file Part A GR Section - General Requirements REV 1:

Under section GR 08 WEIGHT AND STABILITY MANAGEMENT:

- Insert 3.4.4 (in its entirety):

3.4.4. General HydroStatics (GHS) Model for Stability Analysis

3.4.4.1 The Contractor must complete stability analysis in GHS and build a GHS Model, as required, to suit. GHS Stability analysis must be Class reviewed and approved prior to submission to CCG.

8. To provide the latest CCG visitor requirements for the 2nd Site Visit

The second vessel site visit is to be held in St. John's, NL, from March 15 to 18, 2022 (Amendment 019).

The upcoming pages include the updated process and requirements for admitting visitors to CCG vessels, and the screening questionnaire. Note the requirements on ISSOP-18, step 2 (**included as a separate attachment in this amendment – 'covid proc 020.zip'**) for admission. In particular, visitors must provide proof of full vaccination against COVID-19 (in accordance with applicable provincial definition i.e. Newfoundland and Labrador). Bidders are no longer required to submit the certification included in Amendment 019. These requirements remain subject to future COVID-19 developments and provincial requirements.

Bidders must communicate with the Contracting Authority no later than February 22, 2022, at 3 pm EST to confirm attendance and provide the name(s) of the person(s) who will attend. Bidders who do not confirm attendance and provide the name(s) of the person(s) who will attend will not be allowed access to the site. Given the situation, we are going to assign appointments for the Site Visit. Please indicate a date of preference.

For those interested, it would be helpful to provide the following information to facilitate planning (email madeleine.pandini@tpsgc-pwgsc.gc.ca). CCG will make all efforts to accommodate, when possible.

1. Indicate areas of interest to visit.
2. Indicate if access to the main or emergency switchboards is required. Note that switchboard busbar access requires a blackout; this may not be possible.
3. Indicate specific mechanical or electrical equipment or consoles to access.
4. Indicate areas requiring deck plate removal.

9. To update RFP Annex V PDR-CDR (REV 2).

Subsequent to question ref 200 response;
Under RFP Annex V:

- Delete (in its entirety):
Annex V PDR-CDR (REV 1)
- Insert (***altered items are indicated in bold italics***):
Annex V PDR-CDR (REV 2)

ANNEX V REV 2 is included as a separate attachment in this amendment ('annexe v rev2.zip').