

SOLICITATION F1782-20C186/A – STATEMENT OF WORK SUPPLEMENT – REVISION 03

This Supplement is raised to:

- 1) Address questions raised by industry.
- 2) Present comments made by Canada; and
- 3) Revise the Statement of Work document.

This version of the Solicitation F1782-20C186/A – Statement of Work Supplement supersedes all previous versions of the Solicitation F1782-20C186/A – Statement of Work Supplement. If previously raised questions remain unanswered, please resubmit them by e-mail to the Contracting Authority.

Updates to this Supplement since the last version are in green text.

This Supplement affects the content of the Solicitation and its associated documents.

The bid must take into account:

- 1) The Solicitation documents available from the Government Electronic Tendering System at <https://BuyandSell.gc.ca/procurement-data/tenders>;
- 2) This Statement of Work Supplement; and
- 3) The documentation referenced within the Solicitation documents including this Statement of Work Supplement.

A. Questions and Answers

Item	Specification Reference	Question	Answer	Date
1	General	Would the Coast Guard be open to relocating the vessel to a contractor's facility for the alongside refit, or does the work have to be performed at the Huron Street base?	Yes, the work can occur alongside the Contractor's facility. The solicitation has been revised to allow for this.	<u>Updated</u> 2020-09-22
2	11.2 A.2	Para A.2 states that the contractor must supply new furniture, and para C.3.4 states that all new furniture in the design drawing are GSM (constructed by ProNautic). Is VSL to allow for the cost to supply new furniture, or assume all furniture is GSM?	All furniture shown in the Greg Marshall design drawings will be purchased by CCG.	2020-09-22
3	11.2 C4.1 Deck Covering	The SOW states the Contractor must supply and install new flooring in affected areas. Flooring must be marine vinyl flooring. Colours and pattern of interior deck finish must be as shown on the design drawings and finishing schedule. Flooring must be intended for use on ships and in compliance with SOLAS and the FTP Code. - Please provide document 190-634.00-004 Deck Covering Schedule and/or as fit details as to vinyl deck finish, type/depth of deck screed, supplier/manufacturer details.	As-build drawing to be provided. All references to the finishing schedule in the specification are referring to drawing 1183-603-Finishing Schedule RA	2020-09-22

4	11.2 C.2 Strip-Out	<p>The SOW states the Contractor must supply all new lights, wall sockets, light switches, and other electronic wall mounted sockets.</p> <p>Please provide a material list or P/N, make & model of new lights, switches and any other material contractor must supply.</p>	Ceiling lights, wall sockets, light switches, and reading lights are to be as shown on the finishing schedule or equal. Mounting locations are shown on the cabin design drawings.	2020-09-22
5	11.2 C.9.2 Electrical/Electronics	<p>The SOW states the Contractor must relocate the SSAS button in the ship's office to the Commanding Officer's cabin, 02A02. Contractor must remove the existing wiring and rewire in the new location.</p> <p>Please provide type of cable & length for relocating. Provide location of new SSAS button</p>	<p>SSAS button be located on or near the Commanding Officer's desk.</p> <p>SSAS button cabling is SWE Steel Wire Armoured Cable. Contractor to price based off of 30m of cabling for the SSAS button.</p>	2020-09-22
6	11.2 C.9.3 Electrical/Electronics	<p>The SOW states the Contractor must install new emergency lighting in the new port side cabin. The Contractor must wire the new emergency lights to the existing emergency lighting system. A total of 10 existing Emergency lights are located in both P & STBD cabins & wash places. 34 lights are proposed for the new retrofit. With that said an additional 24 lights are added to existing circuit.</p> <p>Will we have to run a new circuit for additional load? Which PNL and breaker will we use? Please provide cable type and length for emergency lighting.</p>	<p>CCG does not believe the number of lighting additions in the question is correct. Contractor to bid on the addition of 10 emergency lights. If required there is a panel on the 02 Level with available circuits. Note, that lighting and receptacle circuits are not mixed with each other. The lighting in these cabins are not emergency lighting and they are not run off an emergency panel. There is 2 different lighting circuits affected by this reconfiguration (see electrical officer's sketch MEO-003 DWG_S).</p> <p>Emergency lighting cabling is OS 3X1.5. Contractor to price based off of 50m of cabling for emergency lighting.</p>	2020-09-22
7	11.2 C.9.5 Electrical/Electronics	<p>The SOW states there must be 1 fire detector in each cabin. The Contractor must install and wire 1 new fire detector in the new port side cabin. New fire detector to be GSM. The Contractor must relocate the 3 existing fire detectors if required. The Contractor must re-label the fire panel to reflect the new layout.</p> <p>Please provide location details. Provide cable length & cable type. Are smoke detectors going to be daisy chained off existing?</p>	<p>New fire detector to be installed in new port side cabin. Exact location to be determined by Contractor.</p> <p>Smoke detector cabling is OS FR 2X1.5. Yes, smoke detectors can be daisy chained off existing. Fire alarm cabling must have a red jacket. Contractor to price based off of 15m of cabling for smoke detectors.</p>	2020-09-22
8	11.2 C.9.7	The SOW states there must be 1 ICS phone in each cabin, 1 in the ship's office, and 1 in the photocopier room. The Contractor must	New phones will be GFM and will match the existing. There are currently 4 phone	2020-09-22

	Electrical/Electronics	<p>install 1 new ICS phone in the new port side cabin and 1 new ICS phone in the photocopier room. The Contractor must relocate the 4 existing ICS phones as required. 2 new ICS phones to be GSM.</p> <p>Are these phones a plug and play like existing? No additional connections?</p>	connections. One additional phone connection to be installed by the Contractor.	
9	11.2 C.9.8 Electrical/Electronics	<p>The SOW states there must be 1 ICS speaker in each cabin and 1 in the ship's office. The Contractor must install 1 new ICS speaker in the new port side cabin. The Contractor must relocate the 4 existing ICS speakers as required. New ICS speaker to be GSM.</p> <p>Please provide location? Are these speakers daisy chained together from existing? Provide cable length & type</p>	<p>Exact location of ceiling mounted ICS speakers to be determined by Contractor.</p> <p>ICS speakers are routed to the ICS PA/GA line monitoring device.</p> <p>Yes, ICS speakers are daisy chained to existing.</p> <p>ICS speaker cabling is shipboard communication cable TPOS FR 1x2x0.75 mm². Speaker cabling must have a red jacket. 02 Level ICS speakers are routed to junction box 432.20-E0513 in compartment 02A43 and E0512 in stairwell, 3A25. Contractor to price based off of 25m of cabling for ICS Speakers.</p>	2020-09-22
10	11.2 C.9.9 Electrical/Electronics	<p>The SOW states there must be 1 EDS box in each cabin. The Contractor must install 1 new EDS box in the new port side cabin and 1 new EDS box in the new starboard side cabin. The Contractor must relocate the 2 existing EDS boxes as required. EDS boxes to be connected to the TVs with an HDMI cable. 2 new EDS boxes to be GSM.</p> <p>Are we using existing foundations for these EDS Boxes? Is contractor required to fabricate 2 new foundations for 2 new EDS boxes?</p>	Every EDS box must be installed on a suitable foundation. Contractor must relocate and reuse the existing EDS foundations. Contractor must supply 2 additional foundations for the new EDS boxes.	2020-09-22
11	11.2 C.9.10 Electrical/Electronics	<p>The SOW states the Contractor must relocate the contents of the EDS entertainment system rack in the Ship's Office to the Control Lab, 01A37, on the 01 Level. EDS entertainment system to be relocated to the lowest shelf on the spare science rack. Contractor must remove the existing wiring and rewire in the new location. Contractor to dispose of the empty EDS entertainment system rack.</p>	EDS Entertainment system rack connects to the EDS-ICS 4-way splitter using a 75 OHM Coaxial. The EDS-ICS 4-way splitter is in the EDS rack located in the server/sonar room, 1A30. This is one deck below the proposed new location in the control lab. Therefore, no additional cable required.	2020-09-22

		Please provide cable details type & length if we need to re-wire in new location.		
12	11.2 C.9.11 Electrical/Electronics	Is the Contractor supposed to run a new home run to the network rack assembly for new Ethernet LAN boxes? Provide location details for all Ethernet	Yes, Contractor must install new Ethernet cables from the location in the cabin drawings TO the server/sonar room. This would also apply to the EDS box Ethernet connections. Locations for Ethernet LAN drops are shown on design drawings of cabins.	2020-09-22
13	11.2 C.9.13 Electrical/Electronics	The Contractor must supply and install all cabling required for the EDS boxes, ICS phones, ICS speakers, and Ethernet LAN drops. Please provide All cable types & lengths for all low voltage requirements	ICS phones, EDS boxes, and LAN drops must use Bergen CAT6A cabling or marine grade RO approved equivalent. All other cabling must be shielded and tri-cab marine SHF-1. ICS phones are routed to the ICS Telephone switch located in the server/sonar room. EDS boxes are routed to the EDS rack located in the server/sonar room. Contractor to price based off of 150m of Ethernet cabling. See question 9 for ICS speaker cabling.	2020-09-22
14	G1.2.4 List of GSM Material	This paragraph states that a GSM material List will be added as Appendix 1 to Annex A. Can a complete list of all GSM material please be provided?	List provided.	2020-09-22
15	G1.4.1.3 Contractor Amenities	Will CCG provide the contractor with a suitable laydown area near the vessel for a lunch room and washrooms?	Yes, an area will be made available for the Contractor to place lunch room and washroom facilities. Note, the Franklin may be required to move forward or aft during the course of the refit to accommodate work being done on the pilings. If the vessel needs to move, it will be the responsibility of the Contractor to walk to the laydown area. CCG will not be relocating the lunch room and washroom facilities if the ship has to shift positions.	2020-09-22
16	G 1.4.12.3	Can the bidder assume all mobile crane and/or forklift requirements will be provided by CCG?	CCG will provide forklift services. Ship crane will be available for lifting equipment on and	2020-09-22

	CCG Mobile Crane and/or Forklift		off to the main deck or 01 Level. Contractor is responsible for any other craneage required.	
17	16.1 R/O Unit ABS Certification	<p>Regarding ABS Certification, there are 2 choices and we are not sure which one you will need. Systems are built to ABS standards, but the question is:</p> <p>What official document will you need?</p> <p>A) Certification: This is a 2 step process which involves design review by ABS engineering in Houston with a design review letter. This process could take upward of a month. Then there would be a survey with witness of a factory acceptance test in the supplier's facility.</p> <p>OR</p> <p>B) Pre-shipment Survey & Witness of Factory Testing of the actual unit by an ABS examiner in the supplier's facility before shipment. This option should only add a few days time to the supplier's ship date.</p> <p>Note: It is most common to do option B as it has been our experience that ABS must sign off on the desalination unit as an installed unit.</p> <p>Please advise of either option A or B.</p>	<p>Contacted ABS for clarification. Option B is correct. It is a pre-shipment survey.</p> <p>Response from ABS: RO are units are unique and there are no specific ABS requirements for RO units in ABS Rules (unlike for example a diesel engine where there are specific certification requirement in the rules). Typically we provide a "Statement of Fact". Essentially we can observe what ever is needed, and report on same.</p>	2020-09-22
18	11.1 Change Load Line Markings	Will the vessel be turned and de-ballasted for adequate access to both the port and stbd side markings on the vessel?	Section 11.1 is removed from spec.	2020-09-22
19	11.2 C2.4 Joiner bulkhead panels	Can CCG confirm if all joiner bulkhead panels required to complete work will be supplied as GSM?	<p>Yes. CCG has ordered the following quantities of bulkhead panels:</p> <ul style="list-style-type: none"> - 29EA, 50MM panels, colour both sides - 86EA, 25MM panels, colour one side 	2020-09-22
20	11.2 C2.5 Ceiling Panels	Can CCG confirm if all ceiling panels required to complete work will be supplied as GSM?	<p>Yes. CCG has ordered the following quantities of overhead panels:</p> <ul style="list-style-type: none"> - 4 EA, 78-1/8" length - 7 EA, 92-5/8" length - 74 EA, 94-1/8" length 	2020-09-22

21	11.2 C2.5 Ceiling Panels	It has been noted that the as built ceiling panels are 275mm wide, however new ceiling panels being supplied are 200mm wide. Can CCG please provide details on how to integrate/configure the two different sized panels? Or assume new ceiling panels will match existing?	CCGs request was for exactly the same as originally supplied. Supplier has confirmed the panels are 300mm total width. 275mm width visible with a 25mm mounting flange.	2020-09-22
22	11.2 C.2.8 Exterior Windows	Will CCG remove lifeboat and RHIB from both the port and stbd sides of vessel prior to hot work activities?	Yes, CCG will remove lifeboat and RHIB prior to hot work activities.	2020-09-22
23	11.2 C2.10 Relocate Bathroom 02A26 to Stbd Side	As relocating existing bathrooms may be problematic, does CCG have an acceptable alternative?	Contractor to bid on the assumption that existing washrooms can be relocated. If not possible to relocate the washrooms the contractor must fabricate new washrooms and relocate existing fixtures. Fabrication of new washrooms to be by 1379 work arising procedure.	2020-09-22
24	11.2 C3.3 Fabricate new port side Bathroom	Can CCG please provide a list and details of all required bathroom fixtures?	<p>Contractor must supply all fixtures and furniture to complete a bathroom. The Contractor must provide the following fixtures or equal.</p> <ul style="list-style-type: none"> • Shower stall – One piece fibreglass. Must have access panel for plumbing. • Vanity – To match cabin furniture. Must have a minimum of one drawer and door below. • Bathroom Soles – Epoxy paint, to match existing passageway. • Bathroom Door – Norac G007, sound reduced with integrated ventilation channel, standard lever with lock, off white. • GFCI duplex receptacle, white • Vacuum Toilet – EVAC 910 Wall mount, white. • Shower Head – American Standard, Shower Systems Water Saving Shower System Kit, wall mount hand shower, chrome finish. • Shower Mixer – American Standard, Times Square Central, chrome finish 	2020-09-22

			<ul style="list-style-type: none"> • Tissue Holder – American Standard, Contemporary Square Toilet Paper Holder, chrome finish. • Sink Tapset – American Standard, Fern Monoblock Faucet, chrome finish. • Towel Bar – American Standard, Contemporary Square 18" Towel Bar, chrome finish. • Wash Basin – Kindred QSL1515/6/1, stainless finish. 	
25	11.2 C3.7 Furniture plinths	Can CCG please provide details for furniture plinths? E.g. type/size of material to be used and method of securing to deck, weld studs, stitch welded, fully welded plinths?	Furniture plinth construction and attachment details are at the discretion of the Contractor. Material used must meet the fire regulations. Plinths must be secured to the deck and to the furniture to prevent movement at sea.	2020-09-22
26	11.2 C3.7 Desktop Chair tie-downs	Will desktop chairs require tie-down lugs as per existing configuration?	No. Tie-down lugs are not required. Crew has removed the casters originally supplied on the chairs and installed blocks/cylinders.	2020-09-22
27	11.2 C8.1 HVAC System	Is there a requirement to rebalance the HVAC system on completion of installation? If so please provide details of requirements. E.g. desirable CFM?	No. CCG is coordinating HVAC system updates with the original supplier. Any additional modifications required to be by 1379 work arising procedure.	2020-09-22
28	11.2 D1.1 NDT iwo inserts	Can CCG please provide NDT requirements for the following repairs: iwo window insert? iwo deck penetration inserts? iwo bulkhead penetration inserts?	As per CCG weld specification, Table 5.8. Window (shell), deck, bulkhead - 4 per insert	2020-09-22
29	11.2 C2.4 Top and bottom track	Spec states CCG will supply 15.15 of top and bottom track. Can CCG please confirm if this is 15.15 meters of the top track and 15.15 meters of the bottom track?	CCG has ordered 50 feet (15.2 meters) of 50mm top track and 50 feet (15.2 meters) of 50mm bottom track.	2020-09-22
30	11.2 General	Is the Contractor responsible for removal or relocation of all cabin clocks?	Yes, Contractor is responsible for the relocation of the cabin clocks.	2020-09-22
31	11.2 C.8.4	With regards to relocating existing heater is contractor required to install a JB to extend the length of cable to reach new location? Please provide cable size & type of cable required for outfit.	Yes, the Contractor is required to install a junction box if required to extend the length of cable to reach new location for the washroom heater.	2020-09-22

			Heater (radiator) cabling is 3C-1.5mm ² (20A) cable. Contractor to price based off of 10m of cabling for the heater.	
32	11.2 General	There is no indication of removal or relocation of thermostats in cabins. Is the Contractor responsible for disconnection, removal and relocation of thermostats in cabins?	<p>Yes, as per 11.2.C.8.3 the Contractor is required to relocate the thermostats in cabins. This includes the disconnection, removal, and installation of associated cabling.</p> <p>Thermostat cabling is OS 3X1.5. Contractor to price based off of 20m of cabling for thermostats.</p>	2020-09-22
33	16.1 R/O Unit ABS Certification	Will shock mounts be CFM?	Yes, shock mounts must be CFM.	2020-09-22
34	11.2.C .9	The lighting that is specified in the finishing schedule for the cabin realignment is 12/24V. Can you confirm that this is correct and that it shouldn't be 120VAC?	The finishing schedule is incorrect. The light switches are 120VAC. Lighting and receptacle cabling must have a black jacket.	2020-09-22
35	11.2.C.8.3	<p>Para C.8.3 states, Note, starboard side already has 2 reheats with thermostats. 1 in the office and 1 in the chief scientist cabin. These are to be relocated to the new starboard cabins. Additional reheats are not required on the starboard side.</p> <p>It is noted that the as-built drawing and the Cabin Re-Alignment HVAC drawing are showing no changes to the existing locations of the supply air reheats.</p> <p>Can CCG please confirm that there is a requirement to relocate reheats within the stbd side cabins?</p>	Reheats do not need to be relocated on the starboard side. Any modifications that is found to be required to suit the new arrangement to be by 1379 work arising procedure.	2020-09-2%
36	11.2.C.10.2	<p>Cabin Re-Alignment drawing 1183-604-Strip Out shows to install new 100x6 bulb bar stiffeners iwo new windows.</p> <p>Can CCG please confirm if using ABS Grade AH36 would be an acceptable substitute grade of material?</p>	CCG is waiting for ABS confirmation of acceptable steel grades. For bidding purposes Contractor is to assume AH36 is acceptable. If ABS will not accept AH36 the change in material will be by 1379 work arising procedure.	2020-09-2%
37	11.2.C.3.3	In addition to question #24 previously asked (regarding bathroom "fixtures"), can CCG please confirm that the required bathroom	Bathroom joiner doors and bathroom joiner wet panels are to be supplied by the Contractor as CFM.	2020-09-25

		joiner doors (x2) as well as the bathroom joiner wet panels are being supplied as GSM?		
38	11.2.C.8.2	Due to lead time / sourcing issues, would CCG find it acceptable for the Contractor to use standard circular ducting and fittings (locally sourced/readily available)?	Yes, it is acceptable to use alternative ducting and fittings for the toilet exhaust.	2020-09-25

B. Comments

Item	Reference	Comment	Date

C. Revisions to the Statement of Work document

Item	Reference	Remove	Insert	Date
1	S2.0	N/A	See new section of SOW document entitled 'Optional Relocation of Vessel'	2020-09-04
2	11.1	ALL	N/A	2020-09-22

ALL OTHER INSTRUCTIONS, TERMS AND CONDITIONS REMAIN UNCHANGED.