

Spec item #: H-02	SPECIFICATION	TCMSB Field #: N/A
Ballast Tank and Voids Maintenance		

Part 1: SCOPE:

- 1.1 The intent of this specification shall be to open Ballast Tank and Void Tank for access to the hull impressed current system. Ballast Tanks are presently used as seawater ballast tanks.
- 1.2 This work shall be carried out in Conjunction with the following:
 - Impressed Current System Inspection

Part 2: REFERENCES:

2.1 Guidance Drawings/Nameplate Data

- 2.1.1. Tank capacity Plan Drawing # 00-00-14 CCG # T131027
- 2.1.2. W.T. Hatches, Manholes etc Drawing # 27-00-01
- 2.1.3. Amercoat 240 Data Sheet

Tanks/Voids to be addressed:

- 2.1.4. # 2 Port Wing WB Tank - Vol: 186.6 M³
- 2.1.5. Aft Starboard Shaft Void

2.2 Standards

- 2.2.1. The following Coast Guard Standards and or Technical Bulletins must be adhered to in the course of executing this specification. Copies of these standards and bulletins can be obtained from the CCG Technical Authority.
- 2.2.2. Canadian Coast Guard Fleet Safety Manual (DFO 5737)
- 2.2.3. Coast Guard ISM Confined Space Entry 7.D.9
- 2.2.4. Coast Guard ISM Hotwork procedures
- 2.2.5. Coast Guard ISM Fall Protection procedures
- 2.2.6. Canadian Coast Guard Welding Specifications for Ferrous Materials, Revision 4. (TP6151 E)
- 2.2.7. CWB CSA 47.1 latest revision Division I, II or III
- 2.2.8. SSPC-SPT

2.3 Regulations

- 2.3.1. Hull Construction Regulations CSA

2.4 Owner Furnished Equipment

- 2.4.1. The contractor shall supply all materials, equipment, and parts required to perform the specified work unless otherwise stated.

Part 3: TECHNICAL DESCRIPTION:

3.1 General

- 3.1.1. The #2 Port Ballast Wing Tank and the Stbd Aft Void will be pumped as low as possible by ship's staff. Contractor shall be responsible for pumping out remainder of tank as required to perform this work. Allow 2 cubic meters per tank. Quote shall include unit cost per cubic meter and to

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be adjusted up or down by 1379 for removing and discarding remaining water.

- 3.1.2.** Locations of manhole covers are indicated in drawing. Contractor shall open manhole covers for access and on completion of all work, manhole covers shall be installed using two (2) new ¼" cloth reinforced neoprene gaskets (CFM).
 - 3.1.3.** Prior to entry into each tank, the tank shall be certified safe for entry and hotwork.
 - 3.1.4.** Before tanks are closed up, the TA will inspect tank level transducers.
 - 3.1.5.** On completion of all anode work, the ballast and void tank are to be tested with air pressure at 1.5 PSI by Contractor to the satisfaction of the Chief Engineer. The quote shall include the installation and removal of blanks/balloons for suctions, sounding pipes, overflow pipes, vent head removal and additional tank entries for subsequent balloon/blank adjustments. Contractor shall advise Chief Engineer prior to reinstalling manhole cover after successful pressure test so that the Chief Engineer may view the tank.
 - 3.1.6.** Contractor shall install manhole covers in good order with new gaskets.
 - 3.1.7.** All work shall be completed to the satisfaction of the TA.
- 3.2 Location**
- 3.2.1.** # 2 Port Wing WB Tank, Frame 105 - 123 Generator Flat
 - 3.2.2.** Aft Starboard Shaft Void, Frame 27 - 33 Mud Room
- 3.3 Interferences**
- 3.3.1** Contractor is responsible for the identification of interference items, their temporary removal, storage and refitting to vessel.

Part 4: PROOF OF PERFORMANCE:

- 4.1 Inspection**
 - 4.1.1.** All work shall be completed to the satisfaction of the TA.
- 4.2 Testing**

Tanks shall be air tested at 2 PSI or the required pressure requested by TCMSB Inspector.
- 4.3 Certification**

N/A

Part 5: DELIVERABLES:

- 5.1 Drawings/Reports**
 - 5.1.1**
- 5.2 Spares**

N/A

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5.3 Training

N/A

5.4 Manuals

N/A