

WORK ITEM 1: Tanks, Clean and Inspect

1. SCOPE

1.1 Intent. This work item describes the requirements for the Contractor to clean and inspect the following tank(s):

TABLE 1 – FUEL TANKS AND VOIDS

TANK	LOCATION	CAPACITY - 95% (GALLONS)	FUEL OR WASTE WATER TO BE REMOVED AND DISPOSED OF (GALLONS)
Fuel Oil Service 1S	3-17-1-F	1750	175
Fuel Oil Service 1P	3-17-2-F	1750	175
Fuel Oil Service 2S	3-41-1-F	840	84
Fuel Oil Service 2P	3-41-2-F	840	84
Emer Gen Fuel Tank	1-10-1-F	93	10
Fuel Oil Storage 1	3-11-0-F	5040	504
Fuel Oil Storage 2	3-23-0-F	5350	535
Fuel Oil Overflow 1	3-10-0-F	606	60
Fuel Oil Overflow 2	3-40-0-F	1159	115
Oily Water	3-34-1-W	336	34
Dirty Oil	3-34-2-F	336	34
Aft Void	3-43-0-V	924	N/A

1.2 Government-furnished property.

None.

2. REFERENCES

COAST GUARD DRAWINGS

Coast Guard Drawing 154 WPC 601-302, Rev D, General Arrangement

Coast Guard Drawing 154 WPC 506-301, Rev -, Fills, Vents, Sounds and Overflows Diagram

COAST GUARD PUBLICATIONS

Surface Forces Logistics Center Standard Specification 0000 (SFLC Std Spec 0000), 2020,
General Requirements

OTHER REFERENCES

Society of Automotive Engineers (SAE) Aerospace Material Specification (AMS) C6183, 2013,
Cork and Rubber Composition Sheet; For Aromatic Fuel and Oil Resistant Gaskets

MIL-DTL-1222, Dec 2000, Studs, Bolts, Screws and Nuts for Applications Where a High Degree
of Reliability Is Required

3. REQUIREMENTS

3.1 General.

3.1.1 CIR.

None.

3.1.2 Tech Rep.

Not applicable.

3.1.3 Protective measures. The Contractor must furnish and install all protective coverings to seal off and protect all non-affected vessel's components, equipment, and spaces near the work area against contamination during the performance of work. Upon completion of work, the Contractor must remove all installed protective measures, inspect for the presence of contamination, and return all contaminated equipment, components, and spaces to original condition of cleanliness.

3.1.4 Interferences. The Contractor must handle all interferences in accordance with SFLC Std Spec 0000, paragraph 3.3.5 (Interferences). Known interferences include, but are not limited to the below-listed:

- Fuel
- Piping
- Tank access cover

3.1.4.1 Fuel. The Contractor must remove and dispose of diesel fuel in the quantities listed in Table 1. Dispose of removed fluids in accordance with all applicable Federal, state, and local regulations (see 4.2 (Tank content restoration)). Document a complete chain of custody record of the removed tank contents from the vessel to the point of final destination or delivery. Submit CFR to the COR upon completion of work.

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3.1.4.2 SSDG service tank draining/cleaning. In the event that generators must be operated aboard the vessel during execution of this item, an adequate amount of fuel must remain in at least one generator service tank for the duration while others are being cleaned. The Contractor must coordinate with ships force to determine a plan for filling this requirement (e.g. drain/clean one SSDG service tank then ship force refill prior to working subsequent service tanks, etc.). Submit a CFR documenting the mutually agreed upon plan for SSDG service tank cleaning.

NOTE

Vessel may come in with less tank fluid contents than specified above.

NOTE

Coast Guard personnel will operate all shipboard machinery and equipment.

3.2 Operational test, initial. Prior to commencement of work, the Contractor must witness Coast Guard Personnel perform an initial operational test of the TLI's for tanks listed in paragraph 1.1 (Intent), to demonstrate existing operational condition. Submit a CFR.

3.3 Plug log. The Contractor must keep a written record of all plugs put in any tanks vents. A separate list must be kept for each tank being entered.

3.3.1 Ensure that all plugs are removed from each tank upon completion of work in the tank.

3.3.2 Ensure the plug log is available to the Coast Guard inspector when the inspector is performing his close-out inspection on each tank.

NOTE

Initial and post repair operational tests apply only to tanks that possess TLIs.

3.4 Cleaning requirements. The Contractor must remove tank cover(s) and clean tank interior surfaces free of all foreign materials, such as residual fuel or water, sediment, sludge, rust, or biological growth, taking care not to damage the coating system (if applicable). Remove cleaning media and residues continuously during the washing process. Remove any residual wash media; and wipe up residual moisture with clean lint-free cloths.

3.5 Tank content and waste disposal. The Contractor must dispose of residual tank contents and any cleaning fluids in compliance with all applicable Federal, state, and local laws, ordinances and regulations. Document a complete chain of custody record of the removed tank contents and generated wastes, from the vessel to the point of final destination or delivery. Submit document to the COR upon completion of work.

3.6 Inspection. The Contractor must accomplish the following tasks:

3.6.1 Visually inspect all tank interior surfaces, including, but not limited to bulkheads, floor and overhead plating, structural members, manhole cover surfaces, fasteners and gasket seating surfaces. Submit a CFR including the following, as applicable:

- Tank structural condition.
- Inaccessible areas.

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- Condition of tank coating, including measurements taken, percentage, location, and type of coating failure (if tank interior surfaces are coated).
- Tank level indicator (TLI) and/or float switch condition, as applicable.
- Sounding/vent tube and striker plate condition.
- Suction and discharge piping condition.
- Fastener material and condition (correct fastener material is stainless steel).
- Determine condition of zinc anodes in oily water & dirty oil tanks (zincs with 50% wastage or more should be renewed).

3.6.2 Measure up to 10 “pits” within each tank as designated by the Coast Guard Inspector using a Contractor supplied ‘Pit Gauge’. Include pit measurement results in CFR specified above, showing where pit measurements were taken and the depth of the pit.

3.7 Tank closing. The Contractor must ensure that the tank(s) remain open for at least 24 hours after completion of any KO-authorized repair and preservation procedures. Notify the COR at least 24 hours prior to closing the tank(s). After satisfactory inspection by the Coast Guard Inspector and completion of all authorized repairs, close tank manhole cover(s) with new gasket material conforming to AMS-C-6183. Chase threads on studs to ensure even installation of the access covers. Renew any damaged or missing fasteners. Use MIL-DTL-1222 as guidance. Existing undamaged fasteners may be reused. For purpose of bid, assume 10% of existing fasteners will require renewal. Renew all Nylock hex nuts.

NOTE

Coast Guard personnel will operate all shipboard machinery and equipment.

3.8 Operational test, post repairs. After completion of work, the Contractor must thoroughly test, in the presence of the Coast Guard Inspector and demonstrate all designated tank TLI’s to be in satisfactory operating condition. Submit a CFR.

4. NOTES

4.1 Tank content removal. The Ship’s force will pump down the tanks to the maximum extent possible with the installed pumping system.

4.2 Tank content restoration. The Ship’s force will procure new fluids and refill all tanks at the appropriate time.