USCGC OCRACOKE (WPB-1307)

110 FOOT A CLASS PATROL BOAT

SPECIFICATION FOR DOCKSIDE REPAIRS

2009

Developed By:
KEVIN KAMMETER

Commander (v)
Maintenance and Logistics
Command, Atlantic
300 E. Main Street, Suite
(600)
Norfolk, VA 23510-9102

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List of Sketches

Work Item	Sketch Number	Page

This section is not applicable to this package.

Revisions Record

This page is used to record specification revisions, which may have occurred subsequent to a Revision 0 (Rev-0) package. Information listed is intended to provide contractors and field unit personnel a means to ensure all the current specification revision pages are present when reviewing or utilizing this specification package.

DATE	REV#	WORK ITEM#	CHANGES MADE

NOTE: All work item and paragraph numbers listed above for a given revision correspond to same numbers in the previous revision. This revised specification is self-contained with all of the above listed changes incorporated.

List of Applicable References

The below-listed documents form a part of this specification to the extent specified herein. Approval/publication dates or revision dates/numbers are also identified, to ensure that same document versions are used at time of specification writing and during contract execution. Electronic copies of the latest Editions of MLCA Standard Specifications are available on the Internet and may be accessed at the following Internet Uniform Resource Locator (URL) address: http://www.uscg.mil/mlclant/vdiv/standard_specifications.asp. Guidance for obtaining copies of all other documents referenced herein is provided in the solicitation.

Order of precedence. In the event of conflicts between text of this specification and the applicable references specified herein, order of precedence shall be in accordance with MLCA Standard Specification 0000_STD, paragraph 3.2 (Order of precedence), unless otherwise specified by the Contracting Officer (KO). The Contractor shall immediately notify the KO in writing of any perceived conflicts contained herein. Nothing in these documents, however, supersedes applicable laws and regulations, unless a specific exemption has been obtained.

FEDERAL AND MILITARY SPECIFICATIONS AND STANDARDS

MIL-D-16791, Jan 1993, Detergents, General Purpose (Liquid, Nonionic)

MIL-D-3134, Sep 1989, Deck Covering Materials

MIL-PRF-24613, Dec 1990, Deck Covering Materials, Interior, Cosmetic Polymeric

OTHER GOVERNMENT DOCUMENTS, DRAWINGS, AND PUBLICATIONS

DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0000_STD, 2006 Edition, General Requirements

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0740_STD, 2004 Edition, Welding and Allied Processes

DRAWINGS

Coast Guard Drawing 110 WPB 506-001, Rev B, Reach Rod Details

Coast Guard Drawing 110 WPB 111-001, Rev A, Shell Expansion

Coast Guard Drawing 110 WPB 117-001, Rev A, Transverse Sections (1301-1311)

Coast Guard Drawing 110 WPB 514-001, Rev A, Air Conditioning & Heating System

Coast Guard Drawing 110 WPB 635-001, Rev-, Linings & Insulation, Plan & Details

Coast Guard Drawing 110 WPB 636-001, Rev A, Noise Damping Details

Coast Guard Drawing 110C WPB 167-005, Rev E, Doors, Hatches & Manholes

Coast Guard Drawing 110C WPB 167-006, Rev A, 25" X 57", 6 Dog, Steel, Quick Acting Weathertight Door

Coast Guard Drawing 110C WPB 167-011, Rev A, 24” x 24”, Aluminum, 4 Dog, Quick Acting Raised Weathertight Hatch

NAVSEA Drawing 804-5773932, Rev A, Acoustic & Thermal Insulation for Ducts Installation Details

PUBLICATIONS

Coast Guard Commandant Instruction (COMDTINST) M10360.3 (series), Jun 2006, Coatings and Color Manual

INDUSTRY STANDARDS

ASTM International (ASTM) E797, 2005, Standard Practice for Measuring Thickness by Manual Ultrasonic Pulse-Echo Contact Method

Society of Automotive Engineers (SAE) Aerospace Material Specification (AMS) C6183, 2007, Cork and Rubber Composition Sheet; For Aromatic Fuel And Oil Resistant Gaskets

The Society for Protective Coatings (SSPC) Surface Preparation Specification No.11 (SSPC-SP 11), 2004, Power Tool Cleaning to Bare Metal

The Society for Protective Coatings (SSPC)/NACE International (NACE) Joint Surface Preparation Standard SSPC-SP 10/NACE No.2, 2004, Near-White Blast Cleaning

List of Government-furnished Property

The following is a list of property, which the Government will furnish. This list supersedes any other material obligations indicated or implied by referenced drawings.

WORK ITEM	MTI	ITEM DESCRIPTION	NSN/PN	QTY	ESTIMATED COST ($/UNIT)
5	N	Quick-acting watertight hatch, 4 Dog	NSN: 2040-01-293-5642	1 ea.	$2,009.34
6	N	Quick-acting weathertight door, Right-hand, 6-dog	NSN: 2040-01-297-2211	2 ea.	$2,300.40
6	N	Quick-acting weathertight door, Left-hand, 6-dog	NSN: 2040-01-304-4291	1 ea.	$2,194.29
11	N	Reefer Door	PN: Unknown	1 ea.	425.00
11	N	Freezer Door	PN: Unknown	1 ea.	255.00

***Government-loaned property, which shall be returned to the vessel upon completion of the availability.**
****New or refurbished equipment that the Government may provide for installation in place of existing equipment.**
*****Government-furnished property, which is to be supplied by either the vessel, Electronic Systems Support Unit (ESU) or local Electronic Support Detachment (ESD).**

List of Critical Inspection Items

The following is a list of work items, which contain Critical Inspection reports, which the Contractor must complete within the first 25% of the availability contract period (see Std Spec 0000_STD, paragraph 3.6.2 (Inspection report particulars)):

Work Item	Title
8	Preserve Bilge Surfaces In Various Locations

Specification Feedback

The intent of this section is to inform all users that a spec feedback mechanism is in place, and is located on the MLCA Naval Engineering Division's website. Spec feedback is a very important part of our overall continuous improvement process, and is crucial to specification development. It will allow spec writers to capture all specification-related lessons learned, and avoid mistakes or ambiguities in follow-on availabilities. All feedback will be reviewed, evaluated, and responded to in a timely manner.

If you have access to the CGWeb (Intranet), please use the following link, which will connect you to the MLCA(v) Naval Engineering website, for submitting your feedbacks:

http://webapps.mlca.uscg.mil/vdiv/specifications/feedback/default.cfm

If you do not have access to the CGWeb (Intranet), you may still submit your feedbacks, using the following web link:

http://www.uscg.mil/mlclant/vdiv/specfeedback.asp

PC_110A_WPB
(22 Jan 2007)

Principal Characteristics

110’WPB (A CLASS) PATROL BOAT	
Length Overall	113’
Depth (main deck at side to baseline)	10’ 0-1/2”
Maximum Beam	21’ 3”
Height of Highest Projection (above baseline)	55'
Frame Spacing	various
Full Load Draft	6’ 5-3/4”
Full Load Displacement	165.1 long tons
Shore Tie Voltage Requirements	450VAC 400A 3PH 60HZ ungrounded
PROPELLER / SHAFT	
Number of Propellers	2
Number of Blades per Propeller	5
Diameter of Propeller	49.6”
Pitch	61.4”
Revolutions per Minute (RPM)	N/A
Shaft Diameter	4”

General Requirements

1. SCOPE

1.1 Scope. This item describes the general requirements to be followed by the Contractor while conducting this availability.

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0000_STD, 2006 Edition, General Requirements

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0740_STD, 2004 Edition, Welding and Allied Processes

Coast Guard Commandant Instruction (COMDTINST) M10360.3 (series), Jun 2006, Coatings and Color Manual

3. REQUIREMENTS

3.1 General. The Contractor shall conform to all requirements specified in Std Spec 0000_STD and in this item, as applicable, during the performance of this availability.

NOTICE!

The requirements of paragraph 3.1 (General) applies to all work under the scope of this contract, whether explicitly stated in work items or not, and also to all other work subsequently authorized by changes, modifications, or extensions to the contract.

3.2 Contractor-provided fire extinguishers. The Contractor shall provide portable fire extinguishers.

3.3 Welding and brazing requirements. The Contractor shall perform all welding and allied processes, and nondestructive inspection (NDI), in accordance with Std Spec 0740_STD.

3.4 Term substitution - COTR for COR. The Contractor shall be aware that the term "COR" (Contracting Officer's Representative) has been discontinued in favor of "COTR" (Contracting Officer's Technical Representative); consequently, whenever "COR" is

encountered in this specification package, including referenced standard specifications and other referenced documents, it shall refer to "COTR", explicitly.

4. QUALITY ASSURANCE

No additional requirements.

5. NOTES

5.1 Access to COMDTINST M10360.3. The COMDTINST M10360.3 may be accessed at the following URL address:

http://www.uscg.mil/directives/cim.asp

5.2 QA inspection forms. QA inspection forms (QA-1 thru QA-5), required in Std Spec 0000_STD to be completed and submitted during preservation of "critical-coated surfaces", are provided at the end of this item.

QA-1: QUALITY ASSURANCE INSPECTION FORM - PRESERVATION CHECKLIST

CHECKPOINT 1 - COATING SYSTEM COMPLIANCE	
	Ensure all coatings are in compliance with COMDTINST M10360.3, Appendix C.
CHECKPOINT 2 - PAINT STORAGE	
	Ensure all coatings are kept at a temperature of 65 to 85°F at all times, unless otherwise specified by the coating manufacturer(s).
CHECKPOINT 3 - AMBIENT CONDITIONS	
	Ensure surface and surrounding temperatures are each between 50 and 90°F for water-based coatings, and 35 and 95°F for other coatings, unless otherwise specified by the coating manufacturer(s).
	Ensure maximum relative humidity (RH) is as follows, from surface preparations through final curing of topcoat: 50% for tanks, voids, and vent plenum; and 85% for all other areas, unless otherwise specified by manufacturer(s).
	Ensure surface temperature is at least 5°F above the dew point, unless otherwise specified by the coating manufacturer(s).
CHECKPOINT 4 - PRE-SURFACE PREPARATION	
	Remove surface contaminants (soluble salts, loose rust, mud, and marine growth) with low pressure fresh water wash down (maximum 5,000 psi). If oil and grease are present, perform solvent cleaning, as per SSPC SP-1.
CHECKPOINT 5 - SURFACE PREPARATION	
	Verify environmental conditions (see CHECKPOINT 3).
	Ensure cleanliness of prepared surface is as per specification (i.e.: SSPC SP-12, SP-11, SP-10?).
	Verify surface anchor profile (1.5-3.5 mils for abrasive-blasted steel surfaces; 1.0 mil (minimum) for power-tool cleaned surfaces; 1.0-1.5 mils for abrasive-blasted aluminum surfaces); and 1.5 -2.5 for surfaces to be coated w/single coat of inorganic zinc).
	Measure soluble salt conductivity (5 measurements per 1000 sqft) - maximum threshold: 70 microsiemens/cm for non-submerged surfaces and 30 microsiemens/cm for submerged surfaces.
CHECKPOINT 6 - PRIMER COAT APPLICATION	
	Verify environmental conditions (see CHECKPOINT 3).
	Verify proper mixing and stand-in (induction) times.
	Ensure no paint is applied when the temperature is expected to drop to freezing before the paint has dried.
	Ensure surfaces are completely dry, unless otherwise allowed by the Coating Manufacturer(s).
	Verify wet film thickness at random, to prevent under or over application.
	Brush out all runs, sags, drips, and puddles.
	Perform visual inspection for holidays and other defects.
CHECKPOINT 7 - STRIPE COAT APPLICATION	
	Verify environmental conditions (see CHECKPOINT 3).
	Ensure overcoating window is as per manufacturer's instructions.
	After primer coat (mist coat after inorganic zinc), brush-apply un-thinned coat of same primer paint over edges, weld seams, cut-outs, and areas of complex geometries @ 3-4 mils wet film thickness (WFT).
CHECKPOINT 8 - TOP COAT APPLICATION	
	Verify environmental conditions (see CHECKPOINT 3).
	Ensure overcoating window is as per manufacturer's instructions.
	Verify proper mixing and stand-in (induction) times, as applicable.
	Verify wet film thickness at random, to prevent under or over application.
	Brush out all runs, sags, drips, and puddles.
CHECKPOINT 9 - FINAL INSPECTION	
	Verify final system dry film thickness.
	Verify system cure for service resumption - U/W Body surfaces: 5-8 hours @ 77 degrees F; Potable water tanks: 7 days @ 77 degrees F.
	Ensure potable water tank exhaust ventilation is maintained continuously from and during coating application through final system cure (minimum 7 days @ 77 degrees F.), to exhaust all solvent to the atmosphere and to prevent solvent entrapment.
CHECKPOINT 10 - RECORD KEEPING	
	Complete, sign, and submit all provided QA Inspection Forms.

Signature of Inspector:_____**Date:**_____

QA-2. QUALITY ASSURANCE INSPECTION FORM
ENVIRONMENTAL READINGS

(Use one sheet for each activity. Record conditions every four hours from before surface preparation to application of final coating system coat)

DATE	TIME	ENTER ACTIVITY *(Surface preparation, primer coat, barrier coat, top coat, etc?)*	LOCATION	DEW POINT	SURFACE TEMP.	% REL. HUMIDITY	SIGNATURE OF INSPECTOR

.**Signature of Inspector:**_____**Date:**_____

QA-3 QUALITY ASSURANCE INSPECTION FORM
SURFACE PROFILE LOG

Vessel Name And Hull Number:_____

Work Item Title:_____

Location Of Work (Including Frame Numbers):_____

Area (Square Feet):_____

Surface Preparation Method:_____

Abrasive Manufacturer And Size:_____

Degreasing Method Used:_____

Number Of Hours Surfaces (Steel Only) Left Unpainted:_____

Sweep blasting performed to remove flash rusting (steel)? Yes/No:_____

Place Surface Profile Replica Tapes In The Spaces Provided Below, To Serve As Permanent QA record. Maintain separate log for each area/location. When an Area Is Divided Into Separate Sections, Maintain A Separate Log for Each Section.		**AVERAGE MILS (IAW ASTM D4417, METHOD C)**
Place Surface Profile Replica Tape Here Reading:_____ mils	• Place Surface Profile Replica Tape Here Reading:_____ mils	
Place Surface Profile Replica Tape Here Reading:_____ mils	Place Surface Profile Replica Tape Here Reading:_____ mils	
Place Surface Profile Replica Tape Here Reading:_____ mils	Place Surface Profile Replica Tape Here Reading:_____ mils	
Place Surface Profile Replica Tape Here Reading:_____ mils	Place Surface Profile Replica Tape Here Reading:_____ mils	

Date and Time:_____

Location of Surface Profile Measurements:_____

Signature of Inspector:_____

QA-4. QUALITY ASSURANCE INSPECTION FORM
SURFACE SOLUBLE SALT CONDUCTIVITY LOG

Vessel Name and Hull Number:_____

Work Item Title:_____

Location of Work (including frame numbers):_____

Area (square feet):_____

DATE	TEST LOCATIONS	CONDUCTIVITY (microsiemens/cm)

Date and Time:_____

Signature of Inspector:_____

QA-5. QUALITY ASSURANCE DATA FORM
DRY FILM THICKNESS (DFT) MEASUREMENTS IAW SSPC PA-2
(Use one sheet for each sequence)

Vessel Name and Hull Number:_____

Work Item Title:_____

Coating Manufacturer:_____

Product Name:_____

Batch Number:_____

Induction Time:_____

Coating System Sequence (Indicate whether: primer, touch-up primer, barrier coat, 3rd coat?):_____

DFT MEASUREMENT NUMBER	LOCATION OF READINGS	MEASURED DFT
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		

Application Method (Airless, Conventional Spray, Rolled):_____

Average DFT: _____

Date and Time: _____

Signature of Inspector: _____

07400D_110_123 (08 Nov 06)
110B (02 Jan 2004)

WORK ITEM 1: Welding Repairs – Freeboard Crack Repair

1. SCOPE

1.1 Scope. This work item describes the requirements for the Contractor to repair a crack (steel substrate) located on the starboard side freeboard surface aft of frame 28.

NOTICE!

The crack is located on the starboard side of the freeboard, it is approximately aft of frame 28 and approximately 3-feet down from the edge of the main deck.

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0000_STD, 2006 Edition, General Requirements

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0740_STD, 2004 Edition, Welding and Allied Processes

Coast Guard Commandant Instruction (COMDTINST) M10360.3 (series), Coatings and Color Manual

Coast Guard Drawing 110 WPB 111-001, Rev A, Shell Expansion

Coast Guard Drawing 110 WPB 117-001, Rev A, Transverse Sections (1301-1311)

Coast Guard Drawing 110 WPB 635-001, Rev-, Linings & Insulation, Plan & Details

3. REQUIREMENTS

3.1 General. The Contractor shall perform all welding and nondestructive inspection (NDI) in accordance with Std Spec 0740_STD.

3.1.1 Related work items. The Contractor shall accomplish this work item in conjunction with the following, which are separate work items in this specification package:

- "Clean and Inspect Fuel Stowage and Overflow Tanks".
- "Clean and Inspect Fuel Service Tanks".

3.1.2 Interferences. The Contractor shall be aware that interferences in way of work include, but are not limited to the following:

- Bulkhead insulation.
- Joiner panels.
- Berthing racks.
- Lockers.
- AFT FUEL TANKS (3-28-1-F and 3-28-2-F – need to empty and clean) Renew gasket material – Separat work item.

NOTICE!

The Contractor shall be aware that the hull structure (shapes, plates, and bars) for the 110 WPB class cutters is made primarily with BS 4360 Type 43A British steel.

3.2 Welding qualification. For the purposes of qualifying welding procedure specifications and welding personnel, the Contractor shall consider ASTM 572 Grade 50, ASTM 572 Grade 42, and API 5L Grade X52 steel, equivalent to BS 4360, Type 43A British steel.

3.3 Requirements. The Contractor shall repair the crack located in the designated area in accordance with Std Spec 0740_STD.

3.4 Touch-up preservation. The Contractor shall prepare and coat all new and disturbed exterior and interior surfaces to match existing adjacent surfaces, in accordance with COMDTINST M10360.3, Appendix A (Cutter and Boat Exterior Painting Systems) and Appendix B (Cutter and Boat Interior Painting Systems), respectively, and as applicable. Abide by all touch-up requirements outlined in paragraph 3.11.9 (Touch-ups and minor coating repairs)) of Std Spec 0000_STD.

4. QUALITY ASSURANCE

No additional requirements.

5. NOTES

5.1 The shell expansion and transverse sections are shown in drawings 110B WPB 111-003 and 110B WPB 117-001 respectively.

5.2 Insulation details are shown on Coast Guard Drawing 110B WPB 635-001.

07400D_110_123 (08 Nov 06)
110B (02 Jan 2004)

WORK ITEM 2: Welding Repairs – Armory Crack Repair

1. SCOPE

1.1 Scope. This work item describes the requirements for the Contractor to repair a crack (steel substrate) located in the armory (Compartment 2-15-2-M).

NOTICE!

The crack is approximately 3-4 inches in length; located near the overhead on the forward frame (FR 16), port side in the armory.

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0000_STD, 2006 Edition, General Requirements

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0740_STD, 2004 Edition, Welding and Allied Processes

Coast Guard Commandant Instruction (COMDTINST) M10360.3 (series), Coatings and Color Manual

Coast Guard Drawing 110 WPB 111-001, Rev A, Shell Expansion

Coast Guard Drawing 110 WPB 117-001, Rev A, Transverse Sections (1301-1311)

Coast Guard Drawing 110 WPB 635-001, Rev-, Linings & Insulation, Plan & Details

3. REQUIREMENTS

3.1 General. The Contractor shall perform all welding and nondestructive inspection (NDI) in accordance with Std Spec 0740_STD.

3.1.1 Related work items. The Contractor shall accomplish this work item in conjunction with the following, which are separate work items in this specification package:

- "Clean and Inspect Fuel Stowage and Overflow Tanks".
- "Clean and Inspect Fuel Service Tanks".

3.1.1 Interferences. The Contractor shall be aware that interferences in way of work include, but are not limited to the following:

- Bulkhead insulation.

NOTICE!

The Contractor shall be aware that the hull structure (shapes, plates, and bars) for the 110 WPB class cutters is made primarily with BS 4360 Type 43A British steel.

3.2 Welding qualification. For the purposes of qualifying welding procedure specifications and welding personnel, the Contractor shall consider ASTM 572 Grade 50, ASTM 572 Grade 42, and API 5L Grade X52 steel, equivalent to BS 4360, Type 43A British steel.

3.3 Requirements. The Contractor shall repair the crack located in the designated area in accordance with Std Spec 0740_STD.

3.4 Touch-up preservation. The Contractor shall prepare and touch-up coat all disturbed surfaces to match existing adjacent surfaces in accordance with COMDTINST M10360.3, Appendix B (Cutter and Boat Interior Painting Systems). Abide by all touch-up requirements outlined in paragraph 3.11.9 (Touch-ups and minor coating repairs)) of Std Spec 0000_STD.

4. QUALITY ASSURANCE

No additional requirements.

5. NOTES

5.1 The shell expansion and transverse sections are shown in drawings 110B WPB 111-003 and 110B WPB 117-001 respectively.

5.2 Insulation details are shown on Coast Guard Drawing 110B WPB 635-001.

WORK ITEM 3: Clean and Inspect Fuel Stowage and Overflow Tanks (Includes Disposal)

1. SCOPE

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

TYPE OF TANK	LOCATION	CAPACITY (GALLONS)
Fuel	3-11-1-F	1,023
Fuel	3-11-2-F	1,023
Fuel	3-18-0-F	1,438
Fuel*	3-28-1-F	1,162
Fuel*	3-28-2-F	1,162

*Due to the complex geometrical shape and hard accessibility, it is very difficult to perform thorough visual inspection of these tanks.

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0740_STD, 2004 Edition, Welding and Allied Processes

Society of Automotive Engineers (SAE) Aerospace Material Specification (AMS) C6183, 2007, Cork and Rubber Composition Sheet; For Aromatic Fuel And Oil Resistant Gaskets

3. REQUIREMENTS

3.1 General.

3.1.1 Related work items. The Contractor shall accomplish this work item in conjunction with the following, which are separate work items in this specification package:

- "Welding Repairs – Freeboard Crack Repair".
- "Welding Repairs – Armory Crack Repair".

3.1.2 Operational test – initial. Prior to commencement of work, the Contractor shall witness an operational pre-test (by Coast Guard personnel) of all designated tank TLIs to demonstrate

existing operational condition. Submit a CFR.

3.1.3 Tank content removal. The Contractor shall remove and dispose of up to a total of 3,000 gallons of fuel.

NOTICE!

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

3.2 Cleaning requirements. The Contractor shall remove tank cover(s) and clean tank interior surfaces free of all foreign materials, such as sediment or sludge, 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.

3.3 Tank content and waste disposal. The Contractor shall dispose of tank contents and all 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 COTR upon completion of work.

3.4 Inspection. The Contractor shall 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.
- Condition of tank coating, including measurements taken, percentage, location, and type of coating failure.
- Tank level indicator (TLI) and/or float switch condition.
- Sounding tube and striker plate condition.
- Suction and discharge piping condition.
- Fastener material and condition (correct fastener material is stainless steel).

3.5 Tank closing. The Contractor shall ensure that the tank(s) remain open for approximately 24 hours after completion of all authorized repair and preservation procedures. Notify the COTR 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.

4. QUALITY ASSURANCE

4.1 Operational test – final. In the presence of the Coast Guard Inspector, the Contractor shall thoroughly test and prove the TLIs to be in satisfactory operating condition (see 5.1 (Equipment operation)). Submit a CFR.

4.2 Compartment air test. The Contractor shall air test the designated tanks after tank closing in accordance with Std Spec 0740_STD, Appendix C. Submit a CFR.

5. NOTES

5.1 Equipment operation. Coast Guard personnel will operate all shipboard machinery and equipment during all operational tests.

WORK ITEM 4: Clean and Inspect Fuel Service Tanks (Includes Disposal)

1. SCOPE

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

TYPE OF TANK	LOCATION	CAPACITY (GALLONS)
Fuel	3-17-1-F	2,560
Fuel	3-17-2-F	2,560

*Due to the complex geometrical shape and hard accessibility, it is very difficult to perform thorough visual inspection of these tanks.

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0740_STD, 2004 Edition, Welding and Allied Processes

Society of Automotive Engineers (SAE) Aerospace Material Specification (AMS) C6183, 2007, Cork and Rubber Composition Sheet; For Aromatic Fuel And Oil Resistant Gaskets

3. REQUIREMENTS

3.1 General.

3.1.1 Related work items. The Contractor shall accomplish this work item in conjunction with the following, which are separate work items in this specification package:

- "Welding Repairs – Freeboard Crack Repair".
- "Welding Repairs – Armory Crack Repair".

3.1.1 Operational test – initial. Prior to commencement of work, the Contractor shall witness an operational pre-test (by Coast Guard personnel) of all designated tank TLIs to demonstrate existing operational condition. Submit a CFR.

3.1.2 Tank content removal. The Contractor shall remove and

dispose of up to a total of 3,000 gallons of fuel.

NOTICE!

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

3.2 Cleaning requirements. The Contractor shall remove tank cover(s) and clean tank interior surfaces free of all foreign materials, such as sediment or sludge, 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.

3.3 Tank content and waste disposal. The Contractor shall dispose of tank contents and all 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 COTR upon completion of work.

3.4 Inspection. The Contractor shall 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.
- Condition of tank coating, including measurements taken, percentage, location, and type of coating failure.
- Tank level indicator (TLI) and/or float switch condition.
- Sounding tube and striker plate condition.
- Suction and discharge piping condition.
- Fastener material and condition (correct fastener material is stainless steel).

3.5 Tank closing. The Contractor shall ensure that the tank(s) remain open for approximately 24 hours after completion of all authorized repair and preservation procedures. Notify the COTR 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.

4. QUALITY ASSURANCE

4.1 Operational test – final. In the presence of the Coast Guard Inspector, the Contractor shall thoroughly test and prove the TLIs to be in satisfactory operating condition (see 5.1 (Equipment operation)). Submit a CFR.

4.2 Compartment air test. The Contractor shall air test the designated tanks after tank closing in accordance with Std Spec 0740_STD, Appendix C. Submit a CFR.

5. NOTES

5.1 Equipment operation. Coast Guard personnel will operate all shipboard machinery and equipment during all operational tests.

WORK ITEM 5: Renew Quick-Acting Watertight Hatch

1. SCOPE

1.1 Scope. This work item describes the requirements for the Contractor to renew the quick-acting aluminum watertight hatch and raised coaming designated in the table below.

DESCRIPTION	LOCATION	COMPARTMENT	SIZE (INCHES)	QTY
Quick-acting watertight hatch, 4-Dog	1-28-2	Aft Port Main Weather Deck (Access to Aft Berthing)	24″ x 24″	1 ea.

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0000_STD, 2006 Edition, General Requirements

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0740_STD, 2004 Edition, Welding and Allied Processes

Coast Guard Commandant Instruction (COMDTINST) M10360.3 (series), Coatings and Color Manual

Coast Guard Drawing 110C WPB 167-005, Rev E, Doors, Hatches & Manholes

Coast Guard Drawing 110C WPB 167-011, Rev A, 24″ x 24″, Aluminum, 4 Dog, Quick Acting Raised Weathertight Hatch

Coast Guard Drawing 110 WPB 635-001, Rev-, Linings & Insulation, Plan & Details

3. REQUIREMENTS

3.1 General.

3.1.1 Related work items. The Contractor shall accomplish this work item in conjunction with the following, which are separate work items in this specification package:

- "Clean and Inspect Fuel Stowage and Overflow Tanks (Includes Disposal)".
- "Clean and Inspect Fuel Service Tanks (Includes Disposal)".

3.1.2 Interferences. The Contractor shall be aware that interferences in way of work include, but are not limited to:

- Overhead insulation.
- Non-skid on surrounding deck surfaces.

3.2 Protective measures. The Contractor shall provide protective covering while the hatch is removed. Ensure that covering is installed daily at the end of the workday.

3.3 Requirements. The Contractor shall accomplish the following for the designated hatch and coaming in accordance with Std Spec 0740_STD and using Coast Guard Drawings 110C WPB 167-005 and 110C WPB 167-011 for additional guidance.

3.3.1 Removals. Crop and remove the designated hatch and coaming. Dispose of in accordance with all applicable Federal, state, and local regulations.

3.3.2 Installation. Install the new Government-furnished hatch and coaming in accordance with Std Spec 0740_STD and Coast Guard Drawing 110C WPB 167-011.

3.3.2.1 Ensure that during the installation of the hatch onto the coaming, it is adjusted properly to allow for complete sealing and watertight integrity.

3.4 Nondestructive inspection (NDI). The Contractor shall perform NDI of the new hatch welds in accordance with Std Spec 0740_STD, Appendix C. Submit a CFR.

3.5 Touch-up preservation. The Contractor shall prepare and coat all new and disturbed exterior surfaces to match existing adjacent surfaces, in accordance with COMDTINST M10360.3, Appendix A (Cutter and Boat Exterior Painting Systems). Abide by all touch-up requirements outlined in paragraph 3.11.9 (Touch-ups and minor coating repairs)) of Std Spec 0000_STD.

3.5.1 Exterior surfaces. Coat all exterior surfaces of the hatch and coaming using the coating system specified for "Freeboard/Superstructure, Aluminum", Option I" in Appendix A (Cutters and Boats Exterior Painting Systems).

NOTICE!

Do not paint knife-edges, gaskets, or any moving parts; including dogs, nuts, wedges, spindles, yokes, packing, connecting rods and hinge pins.

Do not paint the interior surfaces of the hatch or coaming, they are to be left as bare aluminum.

4. QUALITY ASSURANCE

4.1 Hatch test.

4.1.1 The Contractor shall demonstrate 100 percent gasket contact and proper dog operation by means of a chalk test for each renewal. Ensure that initial contact between gasket and knife edge occurs throughout extent of gasket before final securing of dogs, and without use of excessive closing force. If the mark on the gasket is not uniform, adjust as necessary to achieve uniform contact and retest.

4.1.2 The Contractor shall perform a water hose test of all affected boundaries for this work item in accordance with Std Spec 0740_STD, Appendix C. Submit a CFR.

5. NOTES

5.1 Government-furnished property.

MTI	ITEM DESCRIPTION	NSN/PN	QTY	ESTIMATED COST ($/UNIT)
N	Quick-acting watertight hatch, 4 Dog	NSN: 2040-01-293-5642	1 ea.	$2,009.34

5.2 Damage control markings. The Coast Guard Inspector will apply appropriate damage control decals onto new hatch.

WORK ITEM 6: Renew Quick-Acting Doors

1. SCOPE

1.1 Scope. This work item describes the requirements for the Contractor to renew the steel quick-acting doors designated in the table below.

DESCRIPTION	LOCATION	COMPARTMENT	SIZE (INCHES)	QTY
Quick-acting weathertight door, Right-hand, 6-dog	2-13-2	Six Man Berthing	25″ x 57″	1 ea.
Quick-acting weathertight door, Right-hand, 6-dog	2-17-0	Messdeck / CPO Passage	25″ x 57″	1 ea.
Quick-acting weathertight door, Left-hand, 6-dog	2-28-1	Aft Engine Room	25″ x 57″	1 ea.

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0000_STD, 2006 Edition, General Requirements

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0740_STD, 2004 Edition, Welding and Allied Processes

Coast Guard Commandant Instruction (COMDTINST) M10360.3 (series), Coatings and Color Manual

Coast Guard Drawing 110C WPB 167-005, Rev E, Doors, Hatches & Manholes

Coast Guard Drawing 110C WPB 167-006, Rev A, 25" X 57", 6 Dog, Steel, Quick Acting Weathertight Door

Coast Guard Drawing 110 WPB 635-001, Rev-, Linings & Insulation, Plan & Details

3. REQUIREMENTS

3.1 General.

3.1.1 Related work items. The Contractor shall accomplish this work item in conjunction with the following, which are separate work items in this specification package:

- "Clean and Inspect Fuel Stowage and Overflow Tanks (Includes Disposal)".
- "Clean and Inspect Fuel Service Tanks (Includes Disposal)".

3.1.2 Interferences. The Contractor shall be aware that interferences in way of work include, but are not limited to:

- Bulkhead insulation.

3.2 Requirements. The Contractor shall accomplish the following for the designated quick-acting watertight doors in accordance with Std Spec 0740_STD and using Coast Guard Drawings 110C WPB-167-005 and 110C WPB-167-006 for additional guidance.

3.2.1 Removals. Crop out the existing designated doors and frames. Dispose of in accordance with all applicable Federal, state, and local regulations.

3.2.2 Installation. Install new Government-furnished door and frame assemblies in accordance with Std Spec 0740_STD.

3.2.2.1 Following installation ensure that the new doors are adjusted properly to allow for complete sealing of the gasket surfaces.

3.3 Nondestructive inspection (NDI). The Contractor shall perform NDI of all new door welds in accordance with Std Spec 0740_STD, Appendix C. Submit a CFR.

3.4 Touch-up preservation. The Contractor shall prepare and coat all new and disturbed surfaces to match existing adjacent surfaces, in accordance with COMDTINST M10360.3, Appendix B (Cutter and Boat Interior Painting Systems). Abide by all touch-up requirements outlined in paragraph 3.11.9 (Touch-ups and minor coating repairs)) of Std Spec 0000_STD.

NOTICE!

Do not paint knife-edges, gaskets, or any moving parts; including dogs, nuts, wedges, spindles, yokes, packing, connecting rods and hinge pins.

4. QUALITY ASSURANCE

4.1 Chalk test. The Contractor shall demonstrate 100 percent gasket contact and proper dog operation by means of a chalk test for each renewal. Ensure that initial contact between gasket and knife edge occurs throughout extent of gasket before final securing of dogs, and without use of excessive closing force. If the mark on the gasket is not uniform, adjust as necessary to achieve uniform contact and retest.

5. NOTES

5.1 Government-furnished property.

MTI	ITEM DESCRIPTION	NSN/PN	QTY	ESTIMATED COST ($/UNIT)
N	Quick-acting weathertight door, Right-hand, 6-dog	NSN: 2040-01-297-2211	2 ea.	$2,300.40
N	Quick-acting weathertight door, Left-hand, 6-dog	NSN: 2040-01-304-4291	1 ea.	$2,194.29

5.2 Damage control markings. The Coast Guard Inspector will apply appropriate damage control decals onto new hatch.

WORK ITEM 7: Renew Ventilation Ducting

1. SCOPE

1.1 Scope. This work item describes the requirements for the Contractor to renew a designated section of ventilation ducting.

DESCRIPTION	LOCATION	COMPARTMENT	SIZE	QTY
HVAC Ducting	1-20-1-A	Storage Locker	Approx. 18″ x 6″	Approx. 12 linear feet

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0000_STD, 2006 Edition, General Requirements

Coast Guard Drawing 110 WPB 514-001, Rev A, Air Conditioning & Heating System

NAVSEA Drawing 804-5773932, Rev A, Acoustic & Thermal Insulation for Ducts Installation Details

3. REQUIREMENTS

3.1 General.

3.1.1 Interferences. The Contractor shall be aware that interferences in way of work include, but are not limited to:

- Ducting insulation.
- False overhead panels and support system.

3.1.2 Protective measures. The Contractor shall furnish and install suitable covering to seal off and protect all non-affected surfaces/equipment and spaces in the vicinity of the work area against contamination during the performance of work. Upon completion of work, remove protective material and inspect for the presence of contamination. Clean all equipment and spaces, contaminated due to improper protection, to original condition of cleanliness.

3.2 Removals. The Contractor shall remove and dispose of the designated section of ventilation ducting taking care during removal not to damage any surrounding surfaces/equipment. Use Coast Guard Drawing 110B WPB 514-001 for guidance.

3.3 Fabrication and installation. The Contractor shall fabricate and install a new section of ventilation ducting using the existing as a template in conjunction with Coast Guard Drawing 110B WPB 514-001. During installation the Contractor shall take care to prevent damage to surrounding surfaces/equipment.

3.3.1 The Contractor shall ensure that no sharp edges are left exposed following the installation. Ensure that all gaps are sealed properly to prevent air from leaking out of the ducting.

3.4 The Contractor shall install renew insulation on the new section of HVAC ducting in accordance with NAVSEA Drawing 804-5773932.

4. QUALITY ASSURANCE

4.1 Operational test. In the presence of the Coast Guard Inspector, the Contractor shall thoroughly test and prove to be in satisfactory operating condition all items or shipboard devices that have been disturbed, used, repaired, altered, or installed (see 5.1 (Equipment operation)).

5. NOTES

5.1 Equipment operation. Coast Guard personnel will operate all shipboard machinery and equipment during all operational tests.

WORK ITEM 8: Preserve Bilge Surfaces In Various Locations

1. SCOPE

1.1 Scope. This work item describes the requirements for the Contractor to remove designated sound dampening pads from the bilge surfaces in the battery space and after steering space, and preserve the below designated surfaces.

LOCATION	APPROXIMTE AREA (SQFT)
Battery Space (3-32-0-E) – Area where sound dampening pads are installed. This does not include bilge area where there currently are no pads installed.	75
Aft Steering (3-33-0-E) – Entire bilge area.	100

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0000_STD, 2006 Edition, General Requirements

Coast Guard Commandant Instruction (COMDTINST) M10360.3 (series), Coatings and Color Manual

ASTM International (ASTM) E797, 2005, Standard Practice for Measuring Thickness by Manual Ultrasonic Pulse-Echo Contact Method

Coast Guard Drawing 110 WPB 636-001, Rev A, Noise Damping Details

The Society for Protective Coatings (SSPC) Surface Preparation Specification No.11 (SSPC-SP 11), 2004, Power Tool Cleaning to Bare Metal

3. REQUIREMENTS

3.1 General.

3.1.1 Critical Inspection Report. The Contractor shall submit a critical inspection report (CIR) for the inspections listed in the following paragraph(s):

- 3.2.2 (Substrate inspection).

3.1.2 Related work item. The Contractor shall accomplish this work item in conjunction with "Remove Insulation and Preserve Bulkhead", which is a separate work item in this specification package.

3.1.3 Interferences. The Contractor shall be aware that interferences in way of work include, but are not limited to the following:

3.1.3.1 Battery space (3-32-0-E):

- Deck plating.
- Batteries.
- Battery storage containers.
- A/C system components (compressor, condenser).
- Tow reels.
- CO2 bottles.

3.1.3.2 Aft steering space (3-33-0-E):

- Deck plating.
- Hydraulic power unit – Steering gear.
- Steering gear.
- Hydraulic power unit - Crane.

3.1.4 Protective measures. The Contractor shall furnish and install suitable covering to seal off and protect all non-affected surfaces/equipment and spaces in the vicinity of the work area against contamination during the performance of work. Upon completion of work, remove protective material and inspect for the presence of contamination. Clean all equipment and spaces, contaminated due to improper protection, to original condition of cleanliness.

3.2 Requirements.

3.2.1 Sound dampening pad removal. The Contractor shall remove and dispose of the existing sound dampening pads in each bilge space designated above. The Contractor shall be aware that the sound dampening pads are installed using adhesive. Each pad is approximately 1-foot by 1-foot square, approximately ½-inch thick. See Coast Guard Drawing 110B WPB-636-001 for additional guidance.

3.2.2 Substrate inspection. Following surface preparation and prior to preservation, the Contractor shall perform a visual inspection of the exposed bilge surfaces. Additionally, the Contractor shall perform a total of 200 thickness measurements of the bilge surfaces, in locations designated by the Coast Guard Inspector. Submit a CFR. The ultrasonic apparatus, procedure requirements, and report shall be in accordance with ASTM E797. The report results shall additionally include, for each test point:

- Location.
- Original metal thickness.
- Measured metal thickness.
- Percent deterioration (calculation is based on the original metal thickness).

3.2.3 Surface preservation. The Contractor shall prepare and coat the designated bilge surfaces, including all adjacent structural members, using the system specified for "Bilges, Cofferdams, and Forepeaks, Option II", in COMDTINST M10360.3, Appendix B (Cutters and Boat Interior Painting Systems). Select Light Gray (26373) or Haze Gray (26270) as the finish/top coat color.

3.2.3.1 The Contractor shall be limited in selection to “Hand Tool Cleaning” and/or “Power Tool Cleaning” for surface preparation as defined in COMDTINST M10360.3, chapter 5.

NOTICE!

Do NOT blast the surfaces to be preserved.

4. QUALITY ASSURANCE

4.1 In-process quality control measures. The Contractor shall abide by all the safety, preservation, and quality control requirements specified in Std Spec 0000_STD, paragraph titled "General preservation requirements.

NOTICE!

Surfaces being preserved are considered "critical-coated surfaces".

4.2 Apparatus standardization. The Contractor shall perform ultrasonic equipment standardization in accordance with ASTM E797, Section 7 (Standardization of Apparatus) and Section 8 (Technical Hazards).

5. NOTES

This section is not applicable to this work item.

WORK ITEM 9: Reseal Cosmetic Polymeric Deck Covering Systems

1. SCOPE

1.1 Scope. This work item describes the requirements for the Contractor to seal the following deck covering systems:

SYSTEM	LOCATION	SURFACE AREA (SQFT)
Cosmetic Polymeric	Galley/Messdeck	150
Cosmetic Polymeric	CPO Passageway	30
Cosmetic Polymeric	Main Deck Passageway	100

2. APPLICABLE DOCUMENTS

MIL-D-3134, Sep 1989, Deck Covering Materials

MIL-D-16791, Jan 1993, Detergents, General Purpose (Liquid, Nonionic)

MIL-PRF-24613, Dec 1990, Deck Covering Materials, Interior, Cosmetic Polymeric

Coast Guard Drawing 110 WPB 506-001, Rev B, Reach Rod Details

3. REQUIREMENTS

3.1 General.

3.1.1 Related work item. The Contractor shall accomplish this work item in conjunction with “Renew Galley Reefer & Freezer Doors”, which is a separate work item in this specification package.

3.1.2 Interferences. The Contractor shall be aware that interferences in way of work include, but are not limited to the following:

- Furniture.
- Deck drains.

- Inspection access hatches (Qty-3). (Galley/Messdeck)
- Hatch to Fwd Auxiliary space. (CPO Passageway)
- Manhole cover – access sewage tank. (CPO Passageway)
- Remote valve operators. (Main Passageway)

3.1.3 Protective measures. The Contractor shall furnish and install suitable covering to seal off and protect all non-affected surfaces/equipment and spaces in the vicinity of the work area against contamination during the performance of work. Upon completion of work, remove protective material and inspect for the presence of contamination. Clean all equipment and spaces, contaminated due to improper protection, to original condition of cleanliness.

3.1.3.1 The Contractor shall take special precautions when sealing the Main Passageway to prevent sealer from being applied over the two remote valve operators in the deck. See Coast Guard Drawing 110 WPB 506-001 for details.

3.2 Sealing requirements. The Contractor shall accomplish the following:

3.2.1 Thoroughly clean deck covering surfaces with a suitable cleaning detergent conforming to MIL-D-16791, and hot water.

3.2.2 Rinse, clean, and dry the deck surfaces until no residue is visible.

3.2.3 Lightly sand with No. 0 steel wool or No. 60 sandpaper, or mechanically sand the surfaces, to remove the existing sealer coat; avoid damaging the color coating. Vacuum thoroughly to remove dust.

3.2.4 Thoroughly seal the deck covering system with a minimum of two coats of a suitable sealer, in accordance with the deck covering system manufacturer's recommendations (see 5.1 (sealer particulars)). Allow sealer to cure for the amount of time recommended by the manufacturer. Keep traffic off deck until sealer is cured.

NOTICE!

The sealing process is complete when the deck has a uniform appearance; i.e., when the surface film is continuous and free of blotchy areas.

WARNING!

Application of sealer coats in excess of what is recommended by the manufacturer is not only not in compliance with MIL-D-24613, but also may reduce the decking system's non-slip effectiveness.

3.2.4.1 During application of sealer, the Contractor shall take the necessary steps to prevent sealer from entering any deck drains.

4. QUALITY ASSURANCE

No additional requirements.

5. NOTES

5.1 Sealer particulars. Sealer for designated deck covering system(s) may be procured from the deck covering system's manufacturer. Authorized suppliers for cosmetic polymeric deck covering systems are listed on the Qualified Product Listing (QPL) 24613 for MIL-PRF-24613.

WORK ITEM 10: Remove Insulation and Preserve Bulkhead

1. SCOPE

1.1 Scope. This work item describes the requirements for the Contractor to remove the existing insulation on the aft bulkhead of the aft steering space (3-33-0-E) and to preserve the same bulkhead.

SURFACE TO PRESERVE	LOCATION	SURFACE AREA (SQFT)
Aft bulkhead	Aft Steering (3-33-0-E)	175

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0000_STD, 2006 Edition, General Requirements

Coast Guard Commandant Instruction (COMDTINST) M10360.3 (series), Coatings and Color Manual

The Society for Protective Coatings (SSPC) Surface Preparation Specification No.11 (SSPC-SP 11), 2004, Power Tool Cleaning to Bare Metal

Coast Guard Drawing 110 WPB 635-001, Rev-, Linings & Insulation, Plan & Details

3. REQUIREMENTS

3.1 General.

3.1.1 Related work item. The Contractor shall accomplish this work item in conjunction with “Preserve Bilge Surfaces In Various Locations” which is a separate work item in this specification package.

3.1.2 Interferences. The Contractor shall be aware that interferences in way of work include, but are not limited to:

- Aluminum shelving.
- Wiring.

3.2 Removals. The Contractor shall remove the existing insulation on the designated surface. Dispose of in accordance with all applicable Federal, state, and local regulations. The Contractor shall be aware that the insulation will not be renewed upon completion of the preservation.

3.3 Surface preservation. The Contractor shall prepare and coat the aft bulkhead surfaces, including all adjacent structural members, as applicable, using the system specified for “Bulkheads (Bulkheads and Overheads, Un-insulated Metal-(Wet areas such as washrooms, water closets, shower spaces, food prep areas and exits to weather))” in COMDTINST M10360.3, Appendix B (Cutter and Boat Interior Painting Systems). Select finish/top coat color to match existing adjacent surfaces.

3.3.1 The Contractor shall be limited in selection to “Hand Tool Cleaning” and/or “Power Tool Cleaning” for surface preparation as defined in COMDTINST M10360.3, chapter 5.

NOTICE!

Do NOT blast the surfaces to be preserved.

4. QUALITY ASSURANCE

No additional requirements.

5. NOTES

This section is not applicable to this work item.

WORK ITEM 11: Renew Galley Reefer & Freezer Doors

1. SCOPE

1.1 Scope. This work item describes the requirements for the Contractor to install new doors and hardware on the galley reefer and freezer.

2. APPLICABLE DOCUMENTS

3. REQUIREMENTS

3.1 Related work item. The Contractor shall accomplish this work item in conjunction with "Renew Galley Reefer & Freezer Doors", which is a separate work item in this specification package.

3.2 Removals. The Contractor shall remove the existing reefer and freezer doors, including all hardware. Dispose of in accordance with all applicable Federal, state, and local regulations.

3.3 Installations. The Contractor shall install new Government-furnished doors and hardware in accordance with manufacturer's instructions.

4. QUALITY ASSURANCE

No additional requirements.

5. NOTES

5.1 Government-furnished property.

MTI	ITEM DESCRIPTION	NSN/PN	QTY	ESTIMATED COST ($/UNIT)
N	Reefer Door	PN: Unknown	1 ea.	425.00
N	Freezer Door	PN: Unknown	1 ea.	255.00