

DEPARTMENT OF THE NAVY  
HRMC (NMD)



NAVSTA PEARL HARBOR HI ( [REDACTED] )

SPECIFICATIONS FOR WORK TO BE ACCOMPLISHED

SPECIFICATION NUMBER: HRMC-034-23

INCLUDES ALL CHANGES THROUGH 7/3/2023

## INDEX

ITEMS THAT ARE STRUCK OUT IN THIS INDEX DO NOT APPLY TO THIS CONTRACT.

CATEGORY I. FY-24 STANDARD ITEMS APPLICABLE TO THIS JOB ORDER WITHOUT FURTHER REFERENCE.

<u>ITEM_NO.</u>	<u>TITLE</u>	<u>CHANGE DATE</u>	<u>CHANGE</u>
009-01	General Criteria; accomplish	09/27/2022	Original
009-02	Environmental Compliance Report for Material Usage; accomplish	09/27/2022	Original
009-03	Toxic and Hazardous Substance; control	09/27/2022	Original
009-04	Quality Management System; provide	09/27/2022	Original
009-05	Temporary Access; accomplish	09/27/2022	Original
009-06	Maintaining Protection and Cleanliness from Non-Radioactive Operations; accomplish	09/27/2022	Original
009-07	Confined Space Entry, and Certification; accomplish	09/27/2022	Original
009-08	Shipboard Fire Protection and Fire Prevention; accomplish	10/14/2022	Original
009-10	Asbestos-Containing Material (ACM); control	09/27/2022	Original
009-18	Mine Warfare Ships Magnetic Material; control	09/29/2022	Original
009-19	Provisioning Technical Documentation (PTD); provide	09/27/2022	Original
009-20	Government Property; control	09/27/2022	Original
009-21	Logistics and Technical Data; provide	09/27/2022	Original
009-23	Interference; remove and install	09/29/2022	Original
009-24	Authorization, Control, Isolation, Blanking, Tagging, and Cleanliness; accomplish	09/27/2022	Original
009-34	Fire Protection of Unmanned Vessel at Contractor Facility; accomplish	09/27/2022	Original
009-39	Technical Manual Contract Requirement (TMCR) for a New Technical Manual for Commercial Equipment/Component; accomplish	09/27/2022	Original
009-40	Contractor Crane, Multi-Purpose Machine and Material Handling Equipment at a Naval Facility; provide	09/27/2022	Original
009-60	Schedule and Associated Reports for CNO Availabilities; provide and manage	09/30/2022	Original
009-61	Shipboard Use of Fluorocarbons; control	09/27/2022	Original
009-67	Integrated Total Ship Testing; manage	09/27/2022	Original
009-69	Heavy Weather/Mooring Plan; provide	09/27/2022	Original
009-70	Confined Space Entry, Certification, Fire Protection, Fire Prevention and Housekeeping for Unmanned Vessels; accomplish	09/27/2022	Original
009-72	Physical Security at a Private Contractor Facility; accomplish	09/30/2022	Original
009-73	Shipboard Electrical/Electronic Cable Procedure; inspect, test, install, remove, and repair	09/30/2022	Original
009-74	Occupational, Safety and Health Plan; accomplish	09/30/2022	Original
009-80	Ship Facilities; maintain	09/27/2022	Original
009-81	Compartment Closeout; accomplish	09/30/2022	Original
009-82	Installation of Equal Component Vice Specified Component; report	09/27/2022	Original
009-84	Threaded Fastener Requirements; accomplish	09/30/2022	Original
009-88	Collection, Holding and Transfer (CHT) and Motor Gasoline (MOGAS) Tanks, Spaces, and Piping, including Sewage or MOGAS-Contaminated Tanks, Spaces, and Piping; certify	09/27/2022	Original
009-93	Emergency Planning and Community Right-to-Know Act (EPCRA) and Pollution Prevention Act (PPA) Information; provide	09/27/2022	Original

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<u>ITEM NO.</u>	<u>TITLE</u>	<u>CHANGE DATE</u>	<u>CHANGE</u>
009-99	Ship Departure Report; provide	09/27/2022	Original
009-100	Ship's Stability; maintain	09/30/2022	Original
009-101	Ship Transit and Berthing; accomplish	09/27/2022	Original
009-106	Work Authorization Form Coordinator (WAFCOR); provide	09/27/2022	Original
009-109	Non-SUBSAFE Work on SUBSAFE-Certified Vessel; accomplish	09/27/2022	Original
009-110	Non-Nuclear Work on a Nuclear Vessel; accomplish	09/27/2022	Original
009-111	Schedule and Associated Reports for non-CNO Availabilities; provide and manage	09/30/2022	Original
009-117	Combat Systems, Light-Off Support; provide	09/30/2022	Original
009-118	CG Deck Loading; accomplish	09/27/2022	Original
009-120	Fact Finding and Critique of Unplanned Event; manage	09/30/2022	Original
009-122	Temporary Padeye; install and remove	09/30/2022	Original
009-125	Boats Less Than 65 Feet Long; accomplish	10/25/2022	Original
099-01PH	Waste Generated on Government Property, including Satellite Accumulation area (SAA), Managing and Disposing of Hazardous Waste (HW) and non-HW; accomplish	01/20/2023	Original
099-02PH	Dry Dock Requirement; accomplish	01/20/2023	Original
099-03PH	Additional Environmental Requirements; accomplish	01/20/2023	Original
099-04PH	Industrial Wastewater/Oily Wastewater Disposal; accomplish	01/20/2023	Original
099-08PH	Safety of Ship Requirement; provide	01/17/2023	Original
099-40PH	Additional Requirements for Contractor Cranes, Multi-Purpose machine, and Material Handling Equipment at Joint Base Pearl Harbor Hawaii; accomplish	01/17/2023	Original
099-69PH	Pier Laydown for Pearl Harbor Naval Shipyard & IMF (PHNSY & IMF) Availability; accomplish	02/08/2023	CH-1

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CATEGORY II. FY-24 STANDARD ITEMS WHICH MAY BE INVOKED IN THE WORK ITEMS OF THIS JOB ORDER.

<u>ITEM NO.</u>	<u>TITLE</u>	<u>CHANGE DATE</u>	<u>CHANGE</u>
009-12	Weld, Fabricate, and Inspect; accomplish	09/27/2022	Original
009-32	Cleaning and Painting Requirements; accomplish	09/29/2022	Original
009-37	General Procedure for Woodwork; accomplish	09/29/2022	Original
009-71	Piping System; test	09/27/2022	Original
009-90	Technical Representative; provide	09/27/2022	Original

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<u>ITEM NO.</u>	<u>TITLE</u>
077-00-001	Hazardous Waste Produced on Naval Vessels; control
110-11-001	Wood Work; repair, refurbish and preserve
233-11-001	Main Engines; inspect, repair, and service
243-10-001	Propulsion Shafting, Propeller, Rudder and Seals; repair
583-11-001	Transfer of Boat Custody; accomplish
612-11-001	Handrails and Stanchions; repair and replace
625-11-001	Windshield Wiper Motor and Wiper Blades; replace
631-20-001	R2 Exterior; clean, inspect, repair, and preserve
982-30-001	Sea Trials; accomplish
997-11-001	Drydocking & Undocking; accomplish

SHIP: [REDACTED] ITEM NO: 077-00-001  
COAR: 16 PCN: HSB1-L043  
CMP: NONE  
PLANNER: [REDACTED]

1. SCOPE:

- 1.1 Title: Hazardous Waste Produced on Naval Vessels; control
- 1.2 Location of Work:
  - 1.2.1 Throughout the Ship
- 1.3 Identification:
  - 1.3.1 Not Applicable

2. REFERENCES:

- 2.1 Resource Conservation and Recovery Act (RCRA)
- 2.2 Federal Hazardous Materials Transportation Act, 49 U.S.C. 5103
- 2.3 Applicable Hazardous Waste Manifest Form
- 2.4 10 U.S.C. 7311

3. REQUIREMENTS:

- 3.1 Manage and dispose of all hazardous waste listed in 3.5 in accordance with 2.1 and 2.2.
  - 3.1.1 When a Navy generator number is required by this Work Item, submit the original of 2.3 to the SUPERVISOR for assignment of Environmental Protection Agency (EPA) or delegated state environmental agency identification number.
  - 3.1.2 Manage and transport for Navy disposal, Navy-generated hazardous waste listed in 3.5 in accordance with 2.1 and 2.2, as designated by the SUPERVISOR.
  - 3.1.3 Submit one legible copy of 2.3 signed by the owner or operator of the disposal facility to the SUPERVISOR within 48 hours of receipt from owner or operator of disposal facility.
- 3.2 Complete documentation required by 2.1 and 2.2, using EPA or delegated state environmental agency identification number in accordance with 2.4.
  - 3.2.1 Documentation related to hazardous waste generated solely by the physical actions of Ship's Force or Navy employees (termed Navy-Generated Hazardous Waste) on board the vessel shall only bear a generator identification number issued to the Navy pursuant to applicable law. The contractor shall obtain SUPERVISOR'S concurrence with the categorization of the waste as Navy-generated before completion of the manifest. The manifest prepared shall be presented to the SUPERVISOR for completion after the hazardous waste has been identified.
  - 3.2.2 Documentation related to hazardous waste generated solely by the physical actions of contractor personnel (termed Contractor-Generated Hazardous Waste) shall bear a generator identification number issued to the contractor pursuant to applicable law. Regardless of the presence of other material in or on the shipboard systems or structure which may have qualified a waste stream as

hazardous, where the contractor performs work on a system or structure using materials (whether or not the use of such materials was specified by the Navy) which by themselves would cause the waste from such work to be a hazardous waste, documentation related to such waste shall only bear a generator number issued to the contractor.

3.2.3 Documentation related to hazardous waste generated by the combined physical actions of Navy and contractor personnel (termed Co-Generated Hazardous Waste) shall bear a generator identification number issued to the contractor pursuant to applicable law and shall also cite in the remarks block a generator identification number issued to the Navy pursuant to applicable law. When the contractor merely drains a system and such drainage creates hazardous waste or the contractor performs work on system or structure using materials which by themselves would not cause the waste from such work to be hazardous waste but such work nonetheless creates a hazardous waste, documentation related to such waste shall bear a generator identification number issued to the contractor and shall also cite in the remarks block a generator identification number issued to the Navy. The contractor shall sign the generator certification on the Uniform Hazardous Waste Manifest whenever use of the manifest is required for disposal. The contractor shall obtain SUPERVISOR's concurrence with the categorization of the wastes as co-generated before completion of the manifest. Manifests prepared shall be presented to the SUPERVISOR for completion after the hazardous waste has been identified.

3.3 If the contractor, while performing work at a Government facility, cannot obtain a separate generator identification number from the state in which the availability will be performed, the contractor shall notify the SUPERVISOR within three business days of receipt of written notification by the state. After obtaining approval of the SUPERVISOR, the contractor shall use the Navy site generator identification number and insert in the remarks block the contractor generator identification number issued for the site where his main facilities are located.

3.4 If, for availabilities at a contractor-owned or controlled facility, the Navy cannot obtain a separate generator identification number for use at a contractor facility, the Navy shall notify the contractor within three business days of receipt of notification by the state. The contractor shall dispose of hazardous waste in accordance with 2.1, 2.2, and 3.2.3.

3.5 Hazardous waste, as identified in 2.1, expected to be produced during performance of this Job Order:

TYPE	AMOUNT		
	NAVY	CO-GENERATED	CONTRACTOR
Acid Solutions (may include spent sulfamic, citric, chromic, nitric, sulfuric, hydrochloric, etc.)	_____	_____	_____
Ethylene Glycol (Antifreeze)	_____	_____	_____
Sodium Hydroxide	_____	_____	_____

SHIP:



Cleaning Solvents	_____	_____	_____
Sodium Phosphates (Tri, Bi, or Mono)	_____	_____	_____
Fluorocarbons	_____	_____	_____
Morpholine	_____	_____	_____
Sodium Chromates	_____	_____	_____
Hydrazine	_____	_____	_____
Methyl Ethyl Ketone	_____	_____	_____
Spent Abrasive Blast Material (contaminated with a known hazardous waste)	_____	_____	_____
Trichloroethane	_____	_____	_____
Miscellaneous Chemicals (Rust Preventative)	_____	_____	_____
Miscellaneous Chemicals (Corrosive)	_____	_____	_____
Miscellaneous Chemicals _____ (TCLP Toxic)	_____	_____	_____
Miscellaneous Chemicals (Reactive)	_____	_____	_____
Oil (Synthetic)	_____	_____	_____
Paints (Enamel, Latex, Epoxy, thinners, oil based, rubber paint, non-skid, lacquer, remover, varnishes)	_____	_____	_____
Paints (May include lead, cadmium, or chrome)	_____	_____	_____
Paint Strippers (phenols, lead, chromium)	_____	_____	_____
Sludges (Contaminated with a known hazardous waste)	_____	_____	_____
Wool Felt (contaminated with chromium and PCB's)	_____	_____	_____
Lube/Fuel Oil Soaked Rags	_____	_____	_____
Paint/Flakes (Pressure Washing Ext Hull Surfaces)	_____	_____	_____
Fuel Oil(Residual)	_____	_____	_____

Bilge Water	_____	_____	_____
Oil/Water	_____	_____	_____
AFFF/Water	_____	_____	_____
MEK Contaminated Rags	_____	_____	_____

3.5.1 Provide 0 dollars for managing and disposing of all hazardous waste listed in 3.5. Total cost greater or less than above dollar amount will be the subject of an equitable adjustment.

3.6 Submit one legible copy, in approved transferrable media of a report identifying type, amount, and disposal cost of waste listed in 3.5 that was removed during the performance of this Job Order to the SUPERVISOR.

3.6.1 The report shall include analysis or other method used to identify the waste and state whether each listed waste was hazardous (with generator assignment), non-hazardous, or did not exist.

3.6.1.1 Chemical analysis shall be accomplished by laboratories with state or EPA approved quality assurance programs.

3.6.2 The contractor shall make an effort to minimize hazardous waste generation by reducing the volume or toxicity by neutralizing, recycling, or otherwise removing it from the requirements of Subtitle C of 2.1 and include a description of such efforts in the report.

3.7 Nothing contained in this Work Item shall relieve the contractor from complying with applicable federal, state, and local laws, codes, ordinances, and regulations, including the obtaining of licenses and permits in connection with hazardous waste handling and disposal in the performance of this contract.

#### 4. NOTES:

4.1 The waste listed in 3.5 is based on the best information available at the time of preparation of the solicitation. Hazardous waste generated during the actual performance of the work may vary in type or amount from waste listed in 3.5 which may result in renegotiation for credit or increase pursuant to Paragraph (b) of 2.4. The contractor is expected to use best management practice to identify and dispose of all hazardous waste. Some of the substances listed in 3.5 may be neutralized, recycled, or otherwise removed from the requirements of Subtitle C of 2.1. Inclusion of these substances in the waste listed in 3.5 does not preclude the contractor from taking action consistent with 2.1 to reduce or eliminate the hazardous constituents of any waste required to be disposed of under the contract in accordance with 2.2. Processes that add hazardous constituents to the bilges may require that bilge water be disposed of as a hazardous waste.

4.1.1 The types and amounts of wastes listed in 3.5 are estimates of waste to be disposed of under this contract as required by 2.4. They are not estimates of the amount of the work involved in generating that waste. The work requirements of each individual Work Item specify the actual work to be accomplished.

4.2 Hazardous wastes are determined by one or more of the following methods:

4.2.1 Chemical analysis which shows that the material characteristics of ignitability, corrosivity, reactivity, and/or toxicity (Toxicity Characteristic Leachate Procedure - TCLP) exceed

SHIP: [REDACTED]

the limits for that material in 40 CFR 261.20 Subpart C.

4.2.2 Reference to a Material Safety Data Sheet (MSDS), or

4.2.3 Applying knowledge of the hazardous characteristics of the waste in light of the materials or the process used.

4.3 Asbestos, bilge water, oil/water including sludge, debris and other contaminants, sludge which includes solids and sludge from ballast tanks, CHT tanks, voids, oily waste tanks, fuel ballast tanks, fuel oil tanks, skegs (West coast), PCB's (Maryland), etc., apply only in those states listing them as hazardous waste. When an availability is to be performed in a state where these items are hazardous waste, an estimate of the amount to be generated shall be included in 3.5.

5. GOVERNMENT FURNISHED MATERIAL (GFM):

5.1 LLTM:

1. None.

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

1. None.

SHIP: [REDACTED] ITEM NO: 110-11-001  
COAR: 16 PCN: HSB1-L051  
HSB1-L052  
CMP: NONE  
PLANNER: [REDACTED]

1. SCOPE:

1.1 Title: Wood Work; repair, refurbish and preserve

1.2 Location of Work:

1.2.1 Throughout the Ship

1.3 Identification:

1.3.1 Wood Deck

1.3.2 Cabin Passenger Bench

2. REFERENCES:

2.1 Standard Items, (FY24, CH-1)

2.2 S9008-CP-BIB-010, Boat, Personnel 13 Meter, (Medium) FY99 Boat Information Book

3. REQUIREMENTS:

3.1 Accomplish the requirements of 009-37 of 2.1 for the repairing and refinishing of the wood deck and Teak Wood around the benches, identified in 1.3 and in locations listed in 1.2 using 2.2 as guidance.

3.2 Clean wood deck listed in 1.3.1 using a pressure washer prior to sanding to remove surface contaminants.

3.2.1 Accomplish sanding of all surfaces and joints fair, removing debris, contaminants and shallow nicks and scratches.

3.2.1.1 Sanding shall be in the direction of the wood grain.

3.3 Clean, repair by sanding and preserve all Teak wood trim around the passenger bench as listed in 1.3.2 using 2.2 as guidance.

3.3.1 Preserve teak wood trim using marine grade varnish Rust-Oleum 207008 or equal as approved by the SUPERVISOR.

3.4 Accomplish the requirements of 009-32 of 2.1 for each new and disturbed surface.

(V) (G) "VISUAL INSPECTION"

3.5 Accomplish a visual inspection of the items listed in 1.3. Allowable air bubbles, blotchy, ridge marks and runs: None.

4. NOTES:

4.1 None

5. GOVERNMENT FURNISHED MATERIAL (GFM):

5.1 LLTM:

1. None.

5.2 PUSH MATERIAL:

SHIP:



1. None.

5.3 KITTED MATERIAL:

1. None.

SHIP: [REDACTED] ITEM NO: 233-11-001  
COAR: 16 PCN: HSB1-L056  
CMP: NONE  
PLANNER: [REDACTED]

1. SCOPE:

- 1.1 Title: Main Engines; inspect, repair, and service
- 1.2 Location of Work:
  - 1.2.1 Engine Compartment
- 1.3 Identification:
  - 1.3.1 Quantity (One EA): Port Diesel Engine, Make: Cummins, Model 6BTA5.9-M2, S/N# 45955057
  - 1.3.2 Quantity (One EA): Starboard Diesel Engine, Make: Cummins, Model 6BTA5.9-M2, S/N# 45955971

2. REFERENCES:

- 2.1 Standard Items, (FY-24, CH-1)
- 2.2 S9008-CP-BIB-010, Boat, Personnel 13 Meter, (Medium), FY 99; Boat Information Book
- 2.3 5106476, Machinery & Steering Arrangement & Details
- 2.4 S9008-CP-MAN-010, Engine Parts Manual For 13 Meter Personnel Boat, FY 99
- 2.5 6BTA5.9-ME, Cummins Parts Catalog

3. REQUIREMENTS:

- 3.1 Accomplish the requirements of 009-90 of 2.1 for the services of an authorized technical representative to inspect, disassemble and accomplish maintenance of the items listed in 1.3, located in 1.2 using the Original Equipment Manufacturer's manual and 2.2 through 2.5 as guidance.
  - 3.1.1 Authorized technical representative to provide assistance during operational test of each equipment after maintenance.
- 3.2 Provide the services of a Certified Cummins Diesel technical representative to accomplish maintenance to the equipment listed in 1.3.1 and 1.3.2 using 2.2 through 2.5 and the manufacturer's instructions and or specified in this Work Item.
  - 3.2.1 Accomplish the inspection and replacement of the following items using 2.2 through 2.5 as guidance:
    - 3.2.1.1 Inspect Fuel Lines
    - 3.2.1.2 Replace Sacrificial Anodes
    - 3.2.1.3 Replace Timing Belts
    - 3.2.1.4 Inspect Injectors
    - 3.2.1.5 Inspect and adjust engine valve lash
    - 3.2.1.6 Replace Closed Crankcase Ventilation (CCV) Fumes Deposal Filter

SHIP: [REDACTED]

3.2.1.7 Inspect Crankshaft Vibration Damper

3.2.1.8 Inspect and adjust engine mounts for engine to shaft alignment

3.2.1.9 Inspect and adjust engine valve rotators

3.3 Remove the exhaust lagging for the Port and Starboard engine and replace with new using 2.2 and 2.3 as guidance.

3.3.1 Replace exhaust encapsulated lagging with existing type or equal.

(Q) (G) "OPERATIONAL TEST"

3.4 Coordinate with NAVREG personnel and authorized technical representative to accomplish an operational test of the equipment listed in 1.3, to verify proper operation. Operational parameters: Normal. No external leakage, unusual noise, vibration, or heat build up permitted.

3.4.1 Submit one legible copy, in hard copy or approved transferrable media, of a report listing results of the requirements of 3.4 to the SUPERVISOR.

3.5 Accomplish the requirements of 009-32 of 2.1 for new and disturbed surfaces.

4. NOTES:

4.1 None

5. GOVERNMENT FURNISHED MATERIAL (GFM) :

5.1 LLTM:

1. None.

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

1. None.

SHIP: [REDACTED] ITEM NO: 243-10-001  
COAR: 16 PCN: HSB1-L057  
HSB1-L054  
CMP: NONE  
PLANNER: [REDACTED]

1. SCOPE:

1.1 Title: Propulsion Shafting, Propeller, Rudder and Seals; repair

1.2 Location of Work:

1.2.1 Engine Room Compartment

1.2.2 Drydock

1.3 Identification:

1.3.1 Quantity (2 EA), Left Hand, Right Hand Propeller, 4 Blades, 24" x 24" Pitch, 5-1/4" Hub Manganese-bronze #7 Cup w/RD. TIP

1.3.2 Quantity (2 EA), Propulsion Shaft, Size 1.75" X 11'-9", Aquamet.

1.3.2.1 Quantity (2 EA), Prop Shaft Strut Bearing

1.3.3 Quantity (2 EA) Rudder, Rudder Stock

1.3.3.1 Quantity (2 EA), Prop Shaft Strut Bearing

1.3.4 Quantity (One EA) Steering Accumulator

1.3.4.1 Quantity (One EA), Flex Hose Item 152 of 2.11

1.3.4.2 Quantity (2 EA), Flex Hose Item 153 of 2.11

1.3.4.3 Quantity (One EA), Flex Hose Item 154 of 2.11

1.3.4.4 Quantity (2 EA), Flex Hose Item 137 of 2.11

1.3.4.5 Quantity (3 EA), Flex Hose Item 138 of 2.11

2. REFERENCES:

2.1 Standard Items, (FY-24, CH-1)

2.2 S9008-CP-BIB-010, Boat, Personnel 13 Meter, (Medium), FY 99; Boat Information Book

2.3 S9245-AR-TSM-010, Marine Propeller Inspection Repair, and Certification

2.4 T9074-AS-GTB-010/271, Requirements for Nondestructive Testing Methods

2.5 MIL-STD-2035, Nondestructive Testing Acceptance Criteria

2.6 5106476, Machinery & Steering Arrangement & Details

2.7 MIL-STD-167-1A, Mechanical Vibrations of Shipboard Equipment (Reciprocating Machinery and Propulsion System and Shafting) Types III, IV, and V.

2.8 S6430-AE-TED-010 Rev 7, Piping Devices And Flexible Hose Assemblies

2.9 S9AA0-AB-GOS-010 Rev 9, General Specifications for Overhaul of Surface Ships

2.10 5106478, Piping System-Diagrams & Details

2.11 13mPE-501-017 Rev C, 13 Meter Personnel Boat Piping System Diagrams And Detail

2.12 NAVSEA-S9200-A2-MMA-010, Main Propulsion System Alignment Manual For Craft Of the U.S. Navy

3. REQUIREMENTS:

3.1 Disassemble, disconnect and remove each equipment listed in 1.3.1 through 1.3.4, using 2.2 and 2.6 for guidance.

3.1.1 Clean exposed parts free of foreign matter leaving no residue or injurious effects.

3.1.2 Inspect each part for wear and defects.

3.1.2.1 Measure and record sizes and clearances.

3.1.2.2 Include sizes, clearances, fits, and finishes for wearing parts, seal and packing areas, and physical conditions of parts not specified for renewal.

3.1.2.3 Submit one legible copy, in hard copy or electronic media, of a report listing results of the requirements of 3.1.2 through 3.1.2.2 to the SUPERVISOR.

3.2 Accomplish the following repairs on the equipment listed in 1.3.1 using 2.2 through 2.3 as guidance.

3.2.1 Clean and polish the propeller to a like new condition, removing a minimum of metal, maintaining design dimensions and tolerances.

3.2.1.1 Accomplish left hand and right hand propeller pitch adjustment reported out of tolerance in 3.1.2.3.using 2.2 and 2.3 as guidance.

(I) "LIQUID PENETRANT TEST"

3.2.2 Accomplish liquid penetrant test on the propeller listed in 1.3.1, in accordance with 2.4. The accept or reject criteria shall be in accordance with Class 2 of 2.5.

3.2.3 Balance the propeller using 2.3 as guidance.

(V) (G) "INSPECT FIT"

3.2.4 Fit the propeller hub bore to shaft taper using prussian blue applied to the shaft taper. Obtain a fit of at least 60 percent uniformly distributed contact on both the forward and aft lands of the propeller bore and install with new cotter pin.

3.2.4.1 Submit one legible copy, in hard copy or electronic media, of a report listing results of the requirements of 3.2.2 through 3.2.4 to the SUPERVISOR.

3.3 Accomplish the following inspections and repairs on the equipment listed in 1.3.2 using 2.2 and 2.6 as guidance.

3.3.1 Submit one legible copy, in hard copy or electronic media, of a report listing the results of the requirement of 3.3 including as found readings of the total indicated runout measurements taken no less than one foot increments to the SUPERVISOR.

3.3.2 Remove high spots, burrs, abrasions, nicks, corrosion, gasket material, and foreign matter from exposed flanges and mating surfaces.

3.3.3 Remove burrs and high spots from exposed sliding surfaces, screw threads, keys, and keyways.

3.3.4 Chase and tap exposed threaded areas.

3.3.5 Handwork and skim cut machined, sealing, aligning, mating, and gasket surfaces, taking precautions to ensure no excessive metal removal.

3.3.6 Polish machined surfaces to a new like condition.

3.3.7 Straighten each shaft listed in 1.3.2, to within 0.002 inch total indicator reading, using 2.2 and 2.6 for guidance.

3.3.8 Accomplish an alignment check of the strut and MRG coupling.

3.3.8.1 Submit one legible copy, in hard copy or electronic media, of a report listing results of the requirements of 3.3.7 and 3.3.8 to the SUPERVISOR.

3.4 Accomplish the following repairs on the equipment listed in 1.3.3 using 2.2 and 2.6 as guidance.

3.4.1 Disconnect all linkages, hoses, rams rudder stocks.

3.4.2 Remove burrs, high spots, nicks corrosion and foreign matter from wear and sealing surfaces.

3.4.3 Chase and tap exposed threads

3.4.4 Clear and clean pockets and passages on the stern frame and rudders, free of obstructions and foreign matter.

3.4.5 Measure and record rudder post dimensions.

3.4.6 Measure and record dimensions of the through hull fittings.

3.4.7 Accomplish dye penetrant inspection of the rudder, rudder stock and attachment welds using 2.5 for accept/reject criteria.

3.4.8 Remove and inspect rudder seal, rudder bearings, rudder post, identify any damage and deterioration.

3.4.8.1 Submit one legible copy, in hard copy or electronic media, of a report listing results of the requirements of 3.4.6 through 3.4.8 to the SUPERVISOR

3.4.9 Accomplish base metal build up repair a total of 24 square inches of pitted surfaces of rudders identified and marked in 3.4.8.1 using 2.2 and 2.6 for guidance.

3.4.9.1 Deteriorated surfaces shall be ground to sound metal prior to clad welding.

3.4.9.2 Fill local pits and grooves with weld metal prior to application of principal build-up layers.

3.4.9.3 New weld repairs shall be ground flush to contour of rudders upon completion of welding.

3.4.10 Dead end, Vee-out and weld a total of 2 linear feet of deteriorated, cracked and damaged welds and plating identified in 3.4.8.1.

3.4.10.1 New weld repairs shall be ground flush to contour of rudders upon completion of welding.

3.4.10.2 Polish rudder stock to a new like condition.

3.4.11 Accomplish the requirements of 009-12 of 2.1, including Table 3, Columns C, Lines One through 7.

3.4.12 Remove Port and Starboard rudder hanger bearing and replace with new, using 2.6 as guidance.

3.4.13 Remove steering accumulator listed in 1.3.4 and 9 each hoses listed in 1.3.4.1 through 1.3.4.5 and replace with new using 2.2 and 2.8 through 2.11 for guidance.

3.4.13.1 Fabricate new hose assemblies in accordance with section 5.1 of 2.8.

3.4.13.2 Template from each existing shipboard conditions.

3.4.13.3 New hose material shall conform to section 5 of 2.8.

3.4.13.4 All fittings to be 316 Stainless Steel.

3.4.14 Accomplish a hydrostatic test/inspection of the new flexible hose assembly with attached fittings using pressurized fresh water at 200% of the rated pressure of the hose in accordance with paragraph 7.2 of 2.8 following the test requirements of Standard Item 009-71 of 2.1.

3.4.14.1 Submit One legible copy of a report in hard copy or accepted transferable media, listing results of the requirements of 3.4.14 to the

SUPERVISOR.

3.5 Assemble, install, align and connect the equipment listed in 1.3, fitting and installing new seals, packings and bearings, using 2.2 and 2.6 for guidance.

3.5.1 Measure and record the final sizes and clearances.

3.5.1.1 Submit one legible copy, in hard copy or electronic media, of a report listing results of the requirements of 3.5.1 to the SUPERVISOR.

(V) (G) "VERIFY ALIGNMENT"

3.6 Accomplish alignment of the shaft using 2.2, 2.8 and 2.12 for guidance, evaluate alignment measurements and determine corrections required.

3.6.1 Reposition each main propulsion engine and transmission to correct misalignment using 2.2, 2.8 and 2.12 for guidance.

3.6.2 Measure and record final alignment readings.

3.6.3 Submit one legible copy, in hard copy or electronic media, of a report listing results of the requirements of 3.6.2 to the SUPERVISOR.

(V) (G) "OPERATIONAL TEST"

3.7 Accomplish an operational test of the equipment listed in 1.3.1

SHIP: [REDACTED]

through 1.3.4 in conjunction with sea trails.

3.7.1 Allowable Vibration: Shall be in accordance with 2.7.

3.7.2 Allowable binding: None.

3.7.3 Allowable leaks: None.

3.8 Accomplish the requirements of 009-32 of 2.1, for new and disturbed surfaces.

4. NOTES:

4.1 None

5. GOVERNMENT FURNISHED MATERIAL (GFM):

5.1 LLTM:

1. None.

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

1. None.

SHIP: [REDACTED] ITEM NO: 583-11-001  
COAR: 16 PCN: HSB1-L044  
CMP: NONE  
PLANNER: [REDACTED]

1. SCOPE:

1.1 Title: Transfer of Boat Custody; accomplish

1.2 Location of Work: Contractor's Plant

1.3 Identification:

1.3.1 None

2. REFERENCES:

2.1 Attachment (A): Boat Custody Form

3. REQUIREMENTS:

3.1 The GOVERNMENT will deliver custody of the boat to the Contractor's facility and upon completion of the availability will accept custody of the boat at the Contractor's facility.

(V) (G) "SYSTEM PRE-CHECK"

3.1.1 Prior to turning over the boat to the contractor, the customer and contractor shall do a precheck on all systems and equipment to the max extent possible. A list of the equipment stored onboard the boat and systems/equipment not working shall be signed by the customer and submitted as CFR.

3.1.2 The Contractor will be responsible for the boat during the time in which he has custody.

3.2 Upon receiving custody of the boat from the activity, complete Part A of 2.1. Submit one copy, in approved transferrable media, of 2.1 to the SUPERVISOR within 24 hours after delivery of the boat.

(V) (G) "SYSTEM POST-CHECK"

3.2.1 Prior to turning over the boat to the GOVERNMENT, the customer and contractor shall do a post check on all systems and equipment to the max extent possible. The results will be checked against the report submitted in 3.1.1.

3.3 After returning custody of the boat to the activity, complete Part B of 2.1. Submit one copy, in approved transferrable media, of 2.1 to the SUPERVISOR within 24 hours after redelivery of the boat.

3.3.1 Upon completion of all new installations specified in all Work Items, turn over all manuals, design instructions, product specification sheets, and warranty information to the SUPERVISOR.

4. NOTES:

4.1 None.

5. GOVERNMENT FURNISHED MATERIAL (GFM):

5.1 LLTM:

1. None.

SHIP: [REDACTED]

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

1. None.

SHIP: [REDACTED] ITEM NO: 612-11-001  
COAR: 16 PCN: HSB1-L053  
CMP: NONE  
PLANNER: [REDACTED]

1. SCOPE:

- 1.1 Title: Handrails and Stanchions; repair and replace
- 1.2 Location of Work:
  - 1.2.1 Throughout the Ship
- 1.3 Identification:
  - 1.3.1 Not Applicable

2. REFERENCES:

- 2.1 Standard Items, (FY-24, CH-1)
- 2.2 13mPE-601-019 Rev C, 13 Meter Personnel Boat Miscellaneous Fabricated Parts And Label Plates
- 2.3 13mPE-101-012 Rev B, 13 Meter Personnel Boat Outboard Profile And Arrangement
- 2.4 5106474, 13 Meter Personnel Boat General Arrangement & Construction
- 2.5 5107672, Barge and GIG Standard Conversion Label Plates And Placards

3. REQUIREMENTS:

3.1 Remove and and replace with new the following items using 2.2 through 2.4 as guidance, pay special attention to the General Notes of 2.2, and 2.4:

- 3.1.1 Bow Rail.
- 3.1.2 Stern Rail.
- 3.1.3 Mast
- 3.1.4 A total of 20 liner feet of life rail stanchions and canopy rails.

3.2 Install new material using the same type, size and configuration as that removed in 3.1 using 2.2 through 2.4 for guidance.

3.3 Accomplish the requirements of 009-12 of 2.1, including Table 3, Column D, Lines One through 7.

3.4 Clean and buff to a like new condition all polished stainless steel items including stanchions, canopy rails, scuff plates, mooring Bitts, ensign staff, jack staff and deck cleats.

- 3.4.1 Remove and replace with new all rusted/corroded fasteners.
- 3.4.2 Remove items if required to gain access to rusted/corroded areas.

(I) (G) "STATIC LOAD TEST"

3.5 Accomplish a static load test of 300 pounds applied horizontally outboard at the top of the new support stanchion and perpendicular to the railing and hold for ten minutes.

SHIP: [REDACTED]

3.5.1 Remove the test load and accomplish a visual inspection of the lifeline rail stanchion assembly for structural integrity, cracks, and areas of damage or distortion. Allowable damage: None.

3.6 Replace with new, 2 each label plates, templating from existing material, thickness and fonts using 2.2 and 2.5 for guidance.

3.6.1 "Boat Alts Accomplished"

3.6.2 "Hoisting Test Data"

3.7 Manufacture, 2 each label plates, templating to match existing material, thickness and fonts using 2.2 and 2.5 for guidance.

3.7.1 "EMERGENCY ENGINE ROOM FIRE SUPPRESSION"

3.7.1.1 Labe plate shall be aluminum, arrange lettering to fit the dimensions of 1" x 2" plate.

3.7.2 "PORT Fuel Level STBD"

3.7.2.1 Labe plate shall be aluminum, arrange lettering to fit the dimensions of 1/2" x 2-1/2" plate.

3.8 Remove and replace with new, Engine Gauge Panel using existing panel and 2.2 and 2.5 for guidance.

3.9 Clean, restore and polish the Bilge Alarm and Cabin Lights placards using 2.2 and 2.5 for guidance.

3.10 Accomplish the requirements of 009-32 of 2.1 for the new and disturbed surfaces.

4. NOTES:

4.1 None

5. GOVERNMENT FURNISHED MATERIAL (GFM) :

5.1 LLTM:

1. None.

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

1. None.

SHIP: [REDACTED] ITEM NO: 625-11-001  
COAR: 16 PCN: HSB1-L059  
CMP: NONE  
PLANNER: [REDACTED]

1. SCOPE:

1.1 Title: Windshield Wiper Motor and Wiper Blades; replace

1.2 Location of Work:

1.2.1 Maindeck

1.3 Identification:

1.3.1 Quantity (3 EA), Windshield Wiper Motor Assembly

1.3.2 Quantity (3 EA), Wiper Arm

1.3.3 Quantity (3 EA), Blade Wiper

2. REFERENCES:

2.1 Standard Items, (FY-24, CH-1)

2.2 S9008-CP-BIB-010, Boat, Personnel 13 Meter, (Medium), FY 99; Boat Information Book

2.3 DOD-STD-2003, Electric Plant installation Standard Methods

3. REQUIREMENTS:

3.1 Electrically and mechanically remove existing windshield wiper motor assembly, wiper arm assembly, and wiper blades identified in 1.3, using 2.2 and 2.3 as guidance.

3.1.1 Record electrical hook-up data.

3.2 Procure and install new wiper motor assembly identified in 1.3.1 using 2.2 and 2.3 for guidance.

3.2.1 Install new CRES fasteners conforming to MIL-S-1222, Type I, Grade 316.

3.2.2 Install new wiper arm assembly identified in 1.3.2 using 2.2 for guidance.

3.2.3 New wiper motor and arm shall be the equal or greater than the original equipment. New wiper motor and arm shall be of same specification, size, voltage and material as the existing.

3.3 Remove existing and install new wiper blades identified in 1.3.3 using 2.2 for guidance.

3.3.1 New wiper blades shall be of the same material and size of the existing blade.

(V) (G) "OPERATIONAL TEST"

3.4 Accomplish a operational test of the windshield wiper assembly.

3.4.1 Verify the wiper blade assembly sweeps windshield cleanly and evenly while applying water to windshield.

3.5 Accomplish the requirements of 009-32 of 2.1 for painting and preservation of new and disturbed surfaces to match surrounding areas.

SHIP: [REDACTED]

4. NOTES:

4.1 None

5. GOVERNMENT FURNISHED MATERIAL (GFM) :

5.1 LLTM:

1. None.

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

1. None.

SHIP: [REDACTED] ITEM NO: 631-20-001  
COAR: 16 PCN: HSB1-L047  
HSB1-L048  
HSB1-L049  
HSB1-L050  
CMP: NONE  
PLANNER: [REDACTED]

1. SCOPE:

- 1.1 Title: R2 Exterior; clean, inspect, repair, and preserve
- 1.2 Location of Work:
  - 1.2.1 Underwater Hull Surfaces, Keel to Upper Limit of Boot Top including appendages and attachments
  - 1.2.2 Freeboard Surfaces, Upper Boot Top Limit to Main Deck
  - 1.2.3 Main Deck to Mast
- 1.3 Identification:
  - 1.3.1 Quantity (One EA), 13 Meter, Personnel Boat (R2) Mfr: Willard Marine INC

2. REFERENCES:

- 2.1 Standard Items, (FY-24, CH-1)
- 2.2 S9008-CP-BIB-010, Boat, Personnel 13 Meter, (Medium), FY 99; Boat Information Book
- 2.3 S9086-TX-STM-010/CH-583, Boats and Small Craft
- 2.4 Systems and Specifications, SSPC Painting Manual, Volume 2
- 2.5 T9008-B4-MAN-010, Inspection and Repair Manual for Fiber Reinforced Plastic Boats and Craft
- 2.6 13mPE-101-013 Rev C, 13 Meter Personnel Boat Inboard Profile Arrangement And Details
- 2.7 13mPE-101-014 Rev C, 13 Meter Personnel Boat Miscellaneous Details

3. REQUIREMENTS:

- 3.1 Record existing vinyl stenciling, periphery lines, exact locations, colors and dimensions of painted coatings on each exterior surface identified in 1.2, extending from the keel upper boot top limits to the to Main Deck.
  - 3.1.1 Record all existing stickers throughout the craft listed in 1.3.1 of the exact location, size, shape and color. Remove all existing stickers and replace with new ultraviolet ray resistant stickers. Use existing stickers for templates, if existing stickers cannot be used as a template the Government will provide samples for templates
- 3.2 Erect shrouds/curtains to contain environmental pollutants generated by exterior preservation operations. Remove upon completion of R2 preservation work items in work package are accomplished.
- 3.3 Accomplish 100 percent removal of marine growth using fresh water at a minimum of 3,000 PSIG nozzle pressure from the areas listed in 1.2

prior to abrasive blasting.

3.4 Record locations of upper and lower boot topping limits, draft marks, craft name and hull number. Verify location for re-establishing layout after underwater hull and freeboard preservation, using 2.2 for guidance.

3.4.1 Submit one legible copy, in hard copy or transferrable media, of a report listing the results and locations of 3.1 and 3.4 to the SUPERVISOR.

3.5 Accomplish a visual inspection upon completion of the hydro pressure water wash cleaning of the areas listed in 1.2 for damage or deterioration. Inspection to include appendages, shell plating and structural members for structural integrity, deterioration, pitting, cracks and areas of damage or distortion using 2.2 and 2.6 for guidance.

3.5.1 Submit one legible copy, in hard copy or transferrable media, of a report listing results of the requirements of 3.5 to the SUPERVISOR.

3.5.1.1 The report shall describe in detail each discrepancy, damage, and/or missing items, including exact location.

3.5.2 Accomplish a total of 5 square foot of fiberglass repairs to the hull using 2.2 and 2.5 for guidance.

3.6 Accomplish the preservation of hull exterior above and below waterline as listed in 1.2.1 and 1.2.2 in accordance with paint manufactures instructions, Data Sheet and 2.2 through 2.6 for guidance.

3.6.1 Colors shall be in accordance with recorded scheme listed in 3.1.

3.6.1.1 Underwater hull to be preserve with Interlux Micron CSC HS paint, P/N# 12954046.

3.6.1.2 Freeboard and waterline Boot Top to be painted with Pettit Marine paint.

3.6.1.3 Follow paint manufactures instructions, Data Sheet, and 2.2 for surface prep, cleanliness, application and wet and dry paint film thickness.

3.6.2 Accomplish degreasing/cleaning prior to surface preparation.

(V) (G) "CLEANLINESS"

3.6.3 Ensure that the surface is free of contaminants in accordance with SSPC-SP 1 of 2.4.

(I) (G) "COATING INSPECTION FOR EACH COAT (CONSISTS OF COATING THICKNESS, HOLIDAYS, AND CLEANLINESS)"

3.6.4 Accomplish WFT / DFT measurements of each paint coat applied. A gage shall be used to verify the application of proper paint thickness for each paint coat in accordance with manufactures instructions and Data Sheet.

3.6.4.1 Reposition supporting keel blocks to permit 100 percent preservation of the entire hull.

(V) (G) "FINAL HULL/STRUCTURAL INSPECTION AFTER PAINTING"

3.6.5 Accomplish a final preservation and structural inspection upon preservation completion. Paint application shall be like-new finish, contains a high uniform gloss, with no signs of holidays, runs, sags, chips, swirls, surface defects, orange peel texture, and or surface contaminants present.

3.6.5.1 Replace with new, all hull zinc anode including new hardware upon completion of preservation.

3.6.5.2 Reinstall rub rails bumpers with new hardware, install bolt hole rubber plugs and re-caulk all gaps using 2.7 as guidance.

(V) (G) "PAINT CLEANING AND BUFFING INSPECTION"

3.7 Clean and polish all areas above the Freeboard painted white to a like-new finish, and contains a high uniform gloss finish as listed in 1.2.3.

3.7.1 Remove caulking prior to cleaning and buffing paint, replace with new upon completion.

3.8 Clean all PVC window frame trim rings as shown in 2.7.

3.9 Remove all blanks, protective covering and temporary drain lines.

3.10 Accomplish the requirements of 009-32 of 2.1 for new and disturbed surfaces.

4. NOTES:

4.1 None

5. GOVERNMENT FURNISHED MATERIAL (GFM):

5.1 LLTM:

1. None.

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

1. None.

SHIP: [REDACTED] ITEM NO: 982-30-001  
COAR: 16 PCN: HSB1-L045  
CMP: NONE  
PLANNER: [REDACTED]

1. SCOPE:

- 1.1 Title: Sea Trials; accomplish
- 1.2 Location of Work:
  - 1.2.1 Throughout the Ship
- 1.3 Identification:
  - 1.3.1 Not Applicable

2. REFERENCES:

- 2.1 Standard Items, (FY-24, CH-1)
- 2.2 S9086-C4-STM-000, Chapter 094, Trials

3. REQUIREMENTS:

- 3.1 Provide 100 gallons of diesel fuel to accomplish a 2 hour sea trial using 2.2 for guidance. Accomplish the requirements of 009-90 of 2.1.
  - 3.1.1 Accomplish sea trial, including operational test of the following work specifications; 233-11-001 (Main Engines; inspect, repair, and service), 243-10-001 (Propulsion Shafting, Propeller, Rudder and Seals; repair) and 625-11-001 (Windshield Wiper Motor and Wiper Blades; replace).
  - 3.1.2 Submit one legible copy, in hard copy or electronic media, of a report listing results of the requirements of 3.1.1 to the SUPERVISOR.

4. NOTES:

- 4.1 None.

5. GOVERNMENT FURNISHED MATERIAL (GFM):

5.1 LLTM:

- 1. None.

5.2 PUSH MATERIAL:

- 1. None.

5.3 KITTED MATERIAL:

- 1. None.

SHIP: [REDACTED] ITEM NO: 997-11-001  
COAR: 16 PCN: HSB1-L046  
CMP: NONE  
PLANNER: [REDACTED]

1. SCOPE:

1.1 Title: Drydocking & Undocking; accomplish

1.2 Location of Work:

1.2.1 Contractor's Facility

1.3 Identification:

1.3.1 Not Applicable

2. REFERENCES:

2.1 Standard Items, (FY 24, CH-1)

2.2 S9008-CP-BIB-010, Boat, Personnel 13 Meter, (Medium), FY 99; Boat Information Book Retriever

2.3 13mPE-084-020 Rev C, 13 Meter Personnel Boat Shipping Cradle

2.4 S9086-7G-STM-010/CH-997, Docking Instructions and Routine Work in Drydock

2.5 13mPE-101-011, 13 Meter Personnel Boat Lines & Offsets

2.6 13mPE-101-021 Rev B, 13 Meter Personnel Boat Hull And Deck Construction

2.7 13mPE-601-018 Rev D, 13 Meter Personnel Boat Hoisting Arrangement And Ship Interface

2.8 601-5106479, 13 Meter Personnel Boat Hoisting Arrangement & Details

3. REQUIREMENTS:

3.1 Furnish a sound docking facility with qualified personnel, plus necessary equipment to safely and satisfactorily dock the craft.

3.1.1 Provide the SUPERVISOR with an independent third party certification of the docking facility and its capability for docking the craft . Any limitation in dock loading, rate of flooding or dewatering, block location , craft displacement or trim shall be included in the statement.

3.1.2 Provide the services of a dockmaster who has been certified by the contractor and accepted by the SUPERVISOR. Provide necessary supporting personnel to satisfactorily accomplish the docking.

3.1.3 Provide tugs, pilots, and personnel for the complete transfer, docking and undocking of the craft. The number of tugs (if any) shall be agreed to by the SUPERVISOR at the Docking Conference.

3.1.4 Submit a drydocking procedure, using 2.2 through 2.8 for guidance, to the SUPERVISOR prior to drydocking the craft which shall include the following: operating practices; safety and security plans; special precautions or actions that are required by the characteristics of the dock or the craft, such as the pumping and flooding schedule on floating drydocks and specific list, trim and stability requirements of the craft during docking and undocking.

This procedure shall address the specific docking and undocking evolutions to be performed within the availability.

3.2 Using 2.2 through 2.8 for guidance develop and provide a blocking plan to set and align the docking blocks to the SUPERVISOR for review and approval.

3.2.1 The blocking plan shall be submitted in the form of a scaled drawing which includes: block size, block spacing, location of the craft with respect to the blocks at landing. Position blocking to ensure that the hull will not be damaged and shall be accessible for removal and repairs. Provide at least the minimum clearance between the craft's hull and drydock necessary to accomplish drydock work within these work items. Docking clearances shall be determined by the contractor utilizing 2.5 for guidance and the minimum clearance between the side of the craft (including fixed projections) and permanent dock structure (such as catwalks, crane rails, etc.) shall be 12 inches for bringing the craft into or out of dock and performing drydock work. Ensure that hull openings will not be obstructed or state that fleeting or some other method will be used to make all openings accessible during the drydock period. Data requested by this item shall be accompanied by a written request for approval to the SUPERVISOR a minimum of 5 days prior to the scheduled docking date. The use of haul, fixed, universal or fitted blocks and the type of docking facility in which the craft will be docked shall be clearly stated.

3.2.2 Docking proposals shall include supporting data substantiating that the block loading pressures are limited to a maximum of 20 long tons per square foot and that at least 90 percent of blocks land on longitudinal strength members or main transverse bulkheads.

3.2.3 Crib and brace blocking shall be in accordance with Paragraph 997-2.5 of 2.4 using the drawing applicable to the contractor's type of docking facility.

3.2.4 Blocking shall be constructed of hardwood or composite concrete/hardwood and soft caps, with at least 2 inches of soft cap thickness.

3.3 Provide, set and align the blocks in accordance with the approved blocking plans.

3.4 Accomplish an inspection of blocking. Provide documentation of inspection showing blocking locations relative to sighting marks on docking coping, spacing, offsets, heights and shaping to the SUPERVISOR at least 4 hours prior to flooding the drydock. Immediately prior to flooding of the dock, accomplish a final block check with the SUPERVISOR.

3.5 Drydock the craft. The craft shall be drydocked during the first 10 percent of the availability.

3.5.1 Immediately after the craft is drydocked, inspect the fit on the blocks. Provide necessary shimming between blocking and hull in the event of hull movement due to removal of ballasting or shifting of craft load.

3.6 Within 8 hours after docking, wash down the craft's underwater hull and fittings, with water of at least 100 PSIG pressure and remove dirt, slime, marine growth, fouling and other foreign substances.

3.6.1 Wash down the entire dock basin and remove silt, mud and

debris immediately after the craft is docked.

3.6.2 Shift the ship on the blocks (fleet) and ensure 100 percent bottom cleaning and painting when directed by the SUPERVISOR and upon completion of bottom cleaning and painting.

3.7 Maintain watertight integrity.

3.7.1 Seal access openings with closure plates when conditions warrant.

3.7.2 Secure openings at the end of each shift not immediately followed by another shift engaged in drydock work.

3.7.3 Secure vulnerable compartments in order to minimize potential damage to the extent permitted by scope and urgency of work when an area of shell plating removal makes temporary closure impracticable.

3.7.4 Schedule underwater hull operations to maintain craft's positive stability and maximum hull watertight integrity in the event of flooding.

3.7.5 Remove the temporary closures when no longer required.

3.8 Inspect the underwater hull and underwater appendages. Submit a scale drawing of a docking plan showing the underwater hull appendages, closures, blocking and blanks to the SUPERVISOR for approval.

3.9 Maintain the craft in drydock a sufficient length of time to accomplish all drydock work.

3.10 Remove ballast to accomplish work required by other work items. Comply with regulations for disposal of contaminated liquids.

3.11 Provide ballasting and necessary services to ballast tanks as approved by the SUPERVISOR with clean fresh water.

3.12 Submit a verbal report to the SUPERVISOR prior to undocking, certifying that contractor work in the work items requiring the craft to be in drydock including welding on interior surfaces of underwater hull is in fact complete.

3.13 Undock the craft at a date and time mutually agreed upon by the SUPERVISOR and the contractor. Before undocking ensure that sea valves, shaft seals and other hull penetrations below full load draft are watertight.

3.13.1 Inform the SUPERVISOR a minimum of 2 days prior to refloating the R2.

3.14 Immediately after hull penetrations are submerged but before the craft lifts off of the blocks, stop flooding the drydock. Accomplish a watertight integrity check of contractor work affecting watertightness of the hull or hull penetrations below the water level in company with the SUPERVISOR. Continue flooding of the dock when directed by the SUPERVISOR.

3.15 Submit one legible copy, in hard copy or electronic media, of completed Docking Report, NAVSHIPS Form (9997/1 (Rev 11-80) 9997/2 through 9997/4 (Rev 11-77) to the SUPERVISOR within ten days after undocking. If the information block entitled "Position Number This Docking" cannot be completed, prepare sketch, both plan and elevation views, showing the positions of the blocking in relation to the hull and

include the sketches part of the Docking Report.

3.16 Should the contractor choose to lift the craft in lieu of a more conventional docking method the following additional items should be clarified and submitted as a deviation to the SUPERVISOR:

3.16.1 Submit a material condition and verification by an accredited independent engineering firm that the crane, lifting device, lifting gear, cradle, slings and spreaders that are required, meet the existing criteria by OSHA and can safely lift the craft.

3.16.2 Submit a general site description of the lifting route for the drydocking. The allowable soil pressures and method of distributing soil loading shall be provided.

3.17 Remove each temporary service, including each drain line and static ground lead when directed by the SUPERVISOR and restore each system to normal working condition.

4. NOTES:

4.1 Blocking material/construction requirements.

4.1.1 The term "hardwood" for the purpose of this work item includes : White Oak, California Laurel, Oregon Myrtle, Iron Wood, Blue Gum, American Rock Elm or preserved Red Oak.

4.1.2 The normal life span for hardwood blocking is about 10 years. Nevertheless, blocking showing evidence of excessive crushing, warping, cracking, checking, rotting or damage from dogging, loss of contact at edges caused by checking and unequal shrinkage or deterioration to an extent of no longer being capable of supporting a prescribed load over full bearing areas is not acceptable and shall be replaced.

4.1.3 Woods acceptable for use as soft caps are: Douglas Fir, Tamarack, Long Leaf Pine, or Hemlock.

4.1.4 Composite blocking showing evidence of spalling and cracks or chipped and damaged concrete is not acceptable.

4.2 Routine drydocking and undockings shall not be scheduled on a Federal Holiday or long weekend associated with Federal Holidays, i.e.: King's Birthday, Washington's Birthday, Memorial Day, Fourth of July, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, Christmas Day and New Year's Day. If the contractor elects to drydock or undock the craft on any other weekend, a request shall be submitted to the SUPERVISOR at least 3 working days in advance in writing.

5. GOVERNMENT FURNISHED MATERIAL (GFM):

5.1 LLTM:

1. None.

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

1. None.