

Captain

MILITARY SEA TRANSPORTATION SERVICE, PACIFIC  
NAVAL SUPPLY CENTER  
OAKLAND, CALIFORNIA 94625

SPECIFICATION NUMBER: MSTSP 69-19

4 September 1968

S P E C I F I C A T I O N S

For

INACTIVATION - TOPSIDE

USNS EDWIN D. PATRICK (T-AP 124)

The General Conditions dated 15 July 1955 and Amendment No. 1 dated 23 November 1962 to the General Conditions for work under Department of Defense, Department of the Navy, Master Contract for Repair and Alteration of Vessels are a part of these specifications and any conflict between these specifications and the Master Contract for Repair and Alteration of Vessels shall be governed by the provisions of the Master Contract.

These specifications consist of 29 pages and General Conditions, referenced above.

SUPT PORT ENGINEER:

Approved: Director, Transport/Tanker Engineering Div. 

Approved: Supt. Port Engineer Geo. H. Hailor

I N D E X

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INFORMATION REGARDING THE INVITATION FOR BIDS INCLUDING THESE SPECIFICATIONS

Prior to the time of bid opening and after award of job order, inquiries should be directed to one of the following:

Procurement and Contractual Matters  
(Maintenance and Repair Office)

Title

Director, Procurement & Control Division  
Head, Contract Branch

Telephone

466-5185  
466-5185

Legal Matters  
(Office of Counsel)

Title

Assistant Counsel  
Counsel

Telephone

466-6481  
466-6481

Engineering and Technical Matters  
(Maintenance and Repair Officer)

Title

Deputy M & R Officer

Telephone

466-6955

Statement of Manufacturer's Representative

On any specification item which calls for supervision by the manufacturer's representative the following shall be strictly complied with:

Submit a statement of supervision exercised by the representative, prepared and signed by the representative. The statement shall include certification of work actually performed and certification either that work was performed to the satisfaction of the representative, or that work deficiencies, explicitly identified by the manufacturer's representative, exist. The original plus four copies of each statement shall be delivered to the MSTSP Inspector.

Overtime Policy

The Contracting Officer may require of the Contractor's statement in writing regarding the need for overtime in the performance of the contract in the event of the issuance of a Change Order or a Supplemental Agreement for extra work. No overtime premium pay shall be considered in the price or equitable adjustment to be paid by the Government on account of the Change Order or a Supplemental Agreement unless authorized by the Contracting Officer.

ITEM 101 - SERVICES: (TC)

Upon arrival of the ship in the Contractor's plant, the Contractor shall provide the following for a period of seventeen (17) continuous calendar days:

- (a) Electric Power 500 Amps, 440 volts, 3 phase, 60 cycle AC.
- (b) Ventilation: Provide portable blower ventilation as required for safety of Contractor's assigned working personnel during the inactivation of equipment.
- (c) Fire Protection: Provide temporary fire protection independent of ship's facilities.
- (d) Provide temporary but adequate means for pumping of bilges, shaft alley, etc.
- (e) Provide two (2) telephones through Contractor's plant switchboard, one located in the MSTSP Inspector's office onboard ship, and one (1) located at Quarter Deck.

At time of ship's departure from Contractor's plant, all circuit breakers and switches on main switchboards shall be left in their open positions, except for Anchor Windlass.

ITEM 102-LIFERAFTS: (GRB)

Restow the twenty-seven (27) 25-person liferafts and twenty-eight (28) 60-person liferafts currently located 'tween decks in No's. 1 & 5 holds, to the lower levels of the respective holds.

Stow in tiers of five (5) each on 12" X 12" timbers at a minimum distance of 2 feet from shell plating and bulkheads. Use 3/4" wood spacers between raft tiers to permit air circulation.

ITEM 103 - LIFEBOATS: (GRB)

Completely strip all lifeboats excluding the two (2) gasoline powered lifeboats (total of eighteen (18)), of all equipment, portable buoyancy tanks, provision tanks, gear lockers, and portable gratings and floor boards.

Tag with exact locations from which boats were removed and stow all removed equipment, tanks and lockers and portable units in lower hold designated by MSTSP Representative at least 2-feet from ship's sides and 2-feet from bulkheads.

Remove the spark plugs from the two (2) gasoline powered lifeboats and pour approximately 1-pint of cylinder oil in each cylinder, jack the engines sufficiently to insure complete lubrication and reinstall the spark plugs. Remove all water from each engine and blow all water passages dry. Stow the two (2) power boats in lower No. 2 hold on 12" X 12" timbers and suitably check in an upright position at least 2-feet from bulkheads and ship's side.

(Continued)

**ITEM 103 - LIFEBOATS: (GRB)**

(CONT'D)

Using MSTSP Drawing 601-PAC-8123 for guidance fabricate and install the stowages and stow the eight (8) 77-persons lifeboats on the O1 Deck level under their respective davits and the ten (10) 135-persons lifeboats on open deck areas on main deck, O1 and O3 levels.

Remove the ten (10) lifejacket stowages on O1 level in way of 77-person lifeboat stowages and stow in lower hold as designated by MSTS Representative.

All wood checking shall be Douglas Fir, Grade "B" or better.

Coat faying surfaces between gunwale bars and wood chocks or wedges with TFRC Grade #1.

Install longitudinal adjustable wire rope stays and stay fittings to prevent longitudinal movement of boat at each stowage.

**ITEM 104 - LIFEBOAT DAVITS: (GRB)**

Remove all sheaves, gripes, and blocks from each of the ship's twelve (12) lifeboat stations. Thoroughly clean and grease all worm gears, sheaves, rollers, and other moving parts on all davits and respective blocks. The lifeboat falls are being reeved onto respective drums and removed with winches by another item in these specifications. Neatly coil all other wire rope. Remove the lifeboat jacks ladders.

Secure the davit stopper bars to the davit trackway on each side of the ship's twenty (20) davit tracks. Bars shall be welded on one (1) side only. Three inches of weld on each trackway. Do not weld bars on the hinged side.

Stow the jacks ladders, blocks, sheaves and gripes in No. 7 cargo hold, 2-feet from ship's shell plating and bulkheads and at least 6-inches off deck.

Tag each piece of equipment with a sheet metal tag denoting its installed shipboard location.

**ITEM 105 - CARGO HOLDS HATCHES AND 'TWEEN DECKS: (GRB)**

Accomplish the following in No's. 1 through 8 cargo holds:

(a) Remove all dunnage.

(b) Drain and clean all bilges and bilge wells. Stow strainer plates adjacent to bilge wells. Prove all sounding and vent pipes clear.

(c) Remove all cargo debris and sweep all hatch and hold areas clean. Cleaning shall include all framing, stiffeners, ladders, and appurtenances. Clean hand holes in 'tween deck plating.

(d) Install all hatch beams, hatch boards, and pontoons in their respective locations on weather deck and 'tween deck hatches after all hold work has been completed.

**ITEM 106 - BILGE AND DRAINWELLS: (GRB)**

Clean all tank tops, bilges and drain wells in all machinery spaces and shaft alleys, as follows:

- Thoroughly clean all tank tops and bilges and remove all loose scale, rust and all extraneous matter.

Clean all drainwells including rose boxes, by pumping dry and removing all water, sludge, scale and rust. Free up all valves, reach rods and clean all piping associated with drainage system. Clean all strainer plates, stow adjacent to respective opening in a vertical position and secure with wire.

Upon completion of cleaning wash down all bilges drain wells and tank top with fresh hot water and wipe dry.

**ITEM 107 - CARGO BOOMS: (GRB)**

Accomplish the following to the ships ten (10) five ton and four (4) ten ton cargo booms. The booms have been stripped of their gear by the ship's force.

(a) Raise each boom gooseneck two (2) inches in the socket, wedge in place with 1 inch X 1 inch X 1/4 inch thick angle irons, and apply rust preventive compound MIL-C-16173 Grade 1 to all exposed machined surfaces.

(b) Stow all booms in their respective cradles on steel wedges. Leave collars open.

**ITEM 108 - TRIATIC STAYS AND DRESSING LINES: (GRB)**

Remove the two (2) triatic stays dressing lines, and all associated balyards, blocks, and fittings located on foremast and after mast.

Neatly coil and seize all lines, tag all items indicating location from which removed and stow below on pallets in an area designated by the MSTB and MARAD Representatives.



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**ITEM 109 - ACCOMMODATION LADDERS: (GRB)**

Remove the Port and Starboard accommodation ladders, ladder platforms, stanchions, and ladder handling and equipment from their installed shipboard locations. Tag each unit with a metal tag denoting their installed shipboard locations.

Stow removed units in holds as designated by the MSTS Representative and properly secure with wire lashing. Keep units at least 2-feet from ship's shell plating and 2-feet from bulkheads and at least 6-inches off deck.

**ITEM 110 - EXTERIOR VENTILATION TERMINALS: (GRB)**

Blank off approximately eighty (80) weatherdeck vent terminals which are not equipped with watertight covers and/or weather deck vent motors, with 5.1 # M.S. plate.

Average sizes of vent openings are approximately 36" X 60".

Install blanks over extreme termini of vent terminals, and seal weld to perimeter of duct to effect an air tight seal.

In areas where hinged louvers and/or other appurtenances interfere with blanking plates, install and seal weld stand-off coamings between perimeter of blanking plate and respective vent duct structure.

In promenade area remove sections of vent ducting nearest to interior D/H bounding bulkheads, blank off resultant stumps with seal welded 5.1 # M.S. plate. Identify sections of ducting removed with metal tags and stow in lower hold as designated by MSTS Representative.

Close up and dog tight all weather deck vent terminals equipped with watertight covers.

ITEM 111 - GENERAL CLEANING: (GRB)

Accomplish cleaning in areas and compartments of ship as indicated.

Staterooms, living and berthing areas:

All drawers and lockers shall be opened, cleaned, and closed.

All rooms, compartments and passageways shall be swept clean, and the access doors closed but not locked.

Reefer Spaces:

Open all ship's walk-in reefer boxes and thaw rooms. Thoroughly broom clean all decks, deckheads and bulkheads.

All reach-in reefer boxes shall be opened and thoroughly cleaned.

Leave the doors in a secured open position on all reefer boxes.

Block up under reefer doors to prevent sag.

Galley and Messrooms:

Galley ranges, griddles and bake ovens located throughout the ship shall be thoroughly cleaned including their hoods, fans, airducts, grease traps, and filters free of all grease and debris.

All galleys and messrooms shall be swept clean, and the access doors closed but not locked.

Port Holes and Windows:

All portholes and windows throughout the ship shall be closed and secured.

Leave dead lights open.

Storerooms, Ladderwells, Passageways, Lockers, etc:

All shipboard areas not heretofore specified, excluding cargo holds and tween decks, shall be swept clean and left free of debris.

Cargo holds and tween decks will be cleaned as specified in another Item in these specifications titled "Cargo Holds Hatches and Tween Decks"

All supplies and equipment in storerooms shall be stowed at least two (2) ft. clear of deck bulkhead and ship's sides. Spare parts boxes weighing over 50-pounds shall not be tiered.

All doors and hatches to the weather shall be closed.

ITEM 112 - SHIP'S KEYS: (GRB)

1007 Install pilfer proof staple, hasp and padlock assemblies on the ship's key lockers located in the following areas. Chief Engineer's office, 1st Asst Engineer's office, Engineers log room, 1st Officers Office, Medical Officers office, and C.O. Military Dept. Office.

Lock aforementioned lockers in presence of MSTS and Marad Representatives.

Identify with metal tags the master keys accommodating aforementioned lockers and lock same in ship's safe.

ITEM 113 - HAWSER REELS:(GRB)

Remove the four (4) hawser reels located at 1-206-1, 1-206-2, 01-206-1, and 01-206-2, and stow in hold as designated by the MSTS Representative.

ITEM 114 - SECURITY LOCKER: (GRB)

1007 Upon completion of storage of pilferable Items in security locker 5-166-1-A by ship's force, install two (2) 3/8-inch thick x 2 1/2-inch wide flat bars across dutch doors to aforementioned locker. Secure ends and sides of flat bars with continuous weld to bulkhead.

ITEM 115 - BULKHEAD REPAIRS (GRB)

Install an approximate 12 inch x 30 inch x 10.2 #M.S. doubler plate over deteriorated section of outboard bulkhead, located in water closet of passengers S.R. 0107 located at frame 87, starboard.

ITEM 116 - EXTERIOR WOOD DOORS: (GRB)

Blank off approximately twenty six (26) wood weather doors, located on main deck and above as follows:

Remove self closing devices and other appurtenances and stow and secure with wire to inside of respective doors.

Install No. 16 USSG galvanized sheetmetal pans over entire weather sides of doors and associated frames. Tack weld pans to bulkhead plating. Maintain at least a 2-inch clearance from deck to lower edge of pan.

NOTE: Promenade deck is to be considered as a weather area. Only doors which open into D.H. zone in this area to be blanked.



ITEM 117 - KINGPOST INSPECTION PLATES: (GRB)

100% Remove lowermost inspection plates from the eight (8) kingposts, offset to side of opening and secure in place utilizing one (1) of existing securements. Reinstall all unused nuts, studs etc. in respective positions.

ITEM 118 - EXTERIOR INSULATION REMOVAL: (GRB)

100% Remove all insulation, sheathing and lagging in its entirety from all exterior ventilation ducting and piping throughout ship which is exposed to the weather.

NOTE: Promenade area is considered to be exposed to the weather.

ITEM 119 - FREEBOARD TOUCHUP PAINTING: (GRB)

Touch up entire freeboard area between delivery floatation line and gunwales port and starboard as follows:

Using a suitable cleaning agent, remove all surface stains and discolorations approximately one thousand (1000) sq. ft. in aforementioned area and apply one (1) color coat of paint compatible with existing in color and formula.

Clean a band eight (8) inches wide to bare metal equivalent to "Commercial Blast Surface" as defined by the steel structures painting council in "Surface Preparation Specification Blast Cleaning", around perimeters of doors and openings of the eight (8) cargo and four (4) fueling side ports.

Apply one (1) coat of wash primer Spec. MIL-C-15328B followed with two (2) coats of red lead primer Spec. MIL-P-17545B to bare metal surfaces, followed with two (2) coats of haze grey to match surrounding area.

ITEM 120 - REMOVE SCUPPER GUARDS: (GRB)

Remove five (5) welded split pipe scupper guards located aft on port side of ship.

Painting affected areas is covered in another item in these specifications entitled "Freeboard Touchup Painting."

ITEM 121 - DEHUMIDIFICATION MACHINES: (TC)

Furnish transportation and pick up from the custody of the U.S. Maritime Administration Representative, located at Suisun Bay, Benicia Industries Wharf, Benicia, Calif., seven (7) government furnished dehumidification machines. Coordinate pick up through the Maritime Administration Representative aboard the ship.

Deliver six (6) of the machines to the ship and install in locations designated by the MARAD representative aboard the ship.

Deliver the one (1) remaining machine to U.S. Maritime Administration Warehouse, located at Fort Mason Dock Area, San Francisco, Calif.

ITEM 201 - SANITARY SOIL AND DRAIN PIPING SYSTEMS: (BK)

Remove drain plugs, valve bonnets, traps and disconnect piping sections at different low points as required to completely drain and blow dry the entire sanitary piping systems throughout the ship, including all soil drains and lines to their overboard connections.

All sanitary traps, toilet bowls, sinks and wash basins shall be dried out and trap plugs removed and placed in plastic bag and attached to fixture where removed. Shower traps where not accessible shall be blown out with air.

At completion of draining all removals for this purpose shall be left open and plugs and valve bonnets wired adjacent to opening. All disturbed flanges shall be plainly marked.

All valves that do not affect sea worthiness of the ship shall be left open.

Upon completion and acceptance of work specified above by the MSTS Inspector, reassemble all removals and disconnections. Drain plugs shall be wired adjacent to their normal locations.

Lock all heads, and washrooms and deliver all keys, suitably tagged to the MSTS Inspector in charge.

ITEM 202 - AUXILIARY DIESEL ENGINE: (BK)

100% Accomplish the following to the one (1) emergency ships service generator diesel engine.

Drain, flush and completely dry out water jackets, associated circulating water pumps, cooler, radiator and associated piping.

All openings for drainage shall be left open. Drain plugs shall be tagged and wire secured near their respective locations.

Remove all lube oil from crankcase and dispose of same.

Thoroughly clean crankcase, and strainers of the lube oil and fuel oil systems, remove disposable filters and close-up as original. Tag disposable filter housings to that effect.

Fill lube oil crankcase with sufficient clean oil and circulate through systems under pressure.

(continued)



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ITEM 202 - AUXILIARY DIESEL ENGINE: (BK) (cont'd)

While the oil is being circulated, the engines shall be jacked over five (5) complete revolutions.

At conclusion of this operation the clean oil left in the crankcase shall be completely drained, dried out and closed up, except for designated covers which shall be secured adjacent to sump openings.

Introduce lube oil for preservative to all engine injector's and fuel pumps.

Empty the diesel fuel service tanks, as directed by the MSTS Inspector.

Thoroughly clean and dry tank interiors and close up as original.

Open the engine exhaust manifolds, silencers and exhaust stacks as required to thoroughly clean interiors of all soot and carbon deposits. Remove and dispose of all carbon, soot and debris.

Leave exhaust system open. All access covers, inspection plates, plugs, etc. shall be tagged and wire secured, adjacent to their respective locations.

DATA: National Supply Co. Superior Eng.  
Mfr. Dwg: C.P 9340 CP9140  
Power Rating: 114-136BHP  
Fuel Injection: Solid Fuel Pump  
Bosch Type: APE6B  
No. Cylinders: 6  
Cycle: 4  
Bore: 5 1/2"  
Stroke: 7"  
RPM: 1200  
Model: GD-6  
Serial No: 25409  
Instruction Book No: BU 10,600  
Location: 02-86-2

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ITEM 203 - FRESH WATER AND POTABLE WATER SYSTEMS: (BK)

Make all temporary removals and disconnections to piping sections, valve bonnets, flanges, unions and drain plugs as required to completely empty and dry out the hot and cold fresh water systems and potable water systems in their entirety, including heaters.

At completion of draining and drying out, all removals for this purpose shall be left open and plugs and valve bonnets wired adjacent to openings. All disturbed flanges shall be plainly marked.

All insulation blankets shall be tagged and stored adjacent to their respective units.

ITEM 204 - GOOSE NECK VENTS & OPENINGS: (BK)

Blank the following goose neck vents by removing the screwed vents and install a screwed cap.

All other openings shall be blanked with a 3/16 inch metal cover seal welded in place. Below list is approximate for estimating purposes only.

QUAN	SIZE	LOCATION
One (1)	2"	02-97-1
One (1)	2"	02-97-2
One (1)	1 1/2"	02-96-2
One (1)	1 1/2"	02-96-1
One (1)	3"	01-76-2
One (1)	3"	01-76-1
One (1)	3"	01-75-1
One (1)	1 1/2"	01-75-0
One (1)	2"	1-112-1
One (1)	2"	03-127-1
Two (2)	2"	03-127-2
One (1)	2"	01-116-2
One (1)	2"	1-138-1
One (1)	2"	1-138-2
One (1)	2"	01-169-2
One (1)	2"	01-169-1
One (1)	2 1/2"	1-180-1
One (1)	2 1/2"	1-180-2
One (1)	1 1/2"	1-215-2
One (1)	1 1/2"	2-227-1
One (1)	1 1/2"	2-225-1
One (1)	3"	2-225-2

All removed fittings shall be wrapped in plastic bags and stowed adjacent from systems where removed.



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ITEM 205 - BLANKING OF OVERBOARD ABOVE WATER VALVES: (BK)

Install 3/16 inch metal blank of the frying pan-handle type complete with bolts, nuts washers and gaskets suitably painted, marked and tagged between all the overboard scupper valves, all other openings and the 1st section of connecting piping, located throughout the ship.

The contractor shall take exact sizes from the ship.

Below is an approximate list for estimating purposes only.

SKIN VALVE LOCATIONS - INSTALLED BALL CHECKS

<u>FRAME</u>	<u>SIZE</u>		<u>FRAME</u>	<u>SIZE</u>	
4-20-2	3"		4-10-1	4"	
4-21-2	6"		4-12-1	4"	
4-24-2	6"		4-20-1	4"	
4-28-2	6"		4-21-1	8"	
4-29-2	3"		4-24-1	8"	
4-32-2	6"		4-28-1	8"	
4-37-2	4"		4-29-1	4"	
4-40-2	4"		4-35-1	8"	
4-74-2	5"		4-37-1	6"	
4-89-2	4"		4-40-1	6"	
4-105-2	6"		4-74-1	8"	
4-107-2	6"		4-89-1	6"	
4-160-2	8"		4-105-1	6"	
4-169-2	3"		4-107-1	1"	

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ITEM 205 - BLANKING OF OVERBOARD ABOVE WATER VALVES: (BK) (cont'd)

SKIN VALVE LOCATIONS - INSTALLED BALL CHECKS

<u>FRAME</u>	<u>SIZE</u>		<u>FRAME</u>	<u>SIZE</u>	
4-170-2	4"	_____	4-136-1	6"	_____
4-178-2	2"	_____	4-169-1	4"	_____
4-179-2	4"	_____	4-170-4	4"	_____
4-184-2	3"	_____	4-183-1	4"	_____
4-194-2	4"	_____	4-194-1	4"	_____
4-199-2	4	_____	4-210-1	6"	_____
4-205-2	4"	_____	4-212-1	6"	_____
4-210-2	4"	_____	4-221-1	8"	_____
4-212-2	4"	_____	4-227-1	4"	_____
4-221-2-	6"	_____	4-230-1	8"	_____
4-227-2	3"	_____			_____
4-230-2	6"	_____			_____
4-212-2	2" Eductor	_____			_____

DOUBLE GLASSER VALVE LOCATIONS

4-44-2	3" & 4"	_____	4-44-1	_____	_____
4-58-2		_____	4-58-1	_____	_____
4-76-2		_____	4-76-1	_____	_____
4-93-2		_____	4-93-1	_____	_____
4-97-2		_____	4-97-1	_____	_____
4-102-2	Single Glasser	_____	4-105-1	Stack Drain Fwd	_____
4-107-2		_____	4-107-1	_____	_____

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ITEM 205 - BLANKING OF OVERBOARD ABOVE WATER VALVES: (BK) (cont'd)

DOUBLE CLAPPER VALVE LOCATIONS

<u>FRAME</u>	<u>SIZE</u>		<u>FRAME</u>	<u>SIZE</u>	
4-117-2			4-117-1		
4-135-2			4-125-1		
			4-134-1	Stack Drain Aft	
4-143-2			4-143-1		
4-152-2			4-152-1		
4-165-2			4-165-1		
4-189-2			4-189-1		
4-206-2	4" Gate Valve & Clapper		4-202-1	Angle Clapper	
4-215-2			4-204-1	4" Gate Valve & Clapper	
			4-215-1		
4-134-2	12"				
4-131-1	12"				

NOTE: All double valves are 3" & 4".

ITEM 206 - MACHINE TOOL EQUIPMENT, PRESERVATION OF: (PB)

Clean all machined, ground or polished steel surfaces of all machine tool equipment consisting of lathes, shapers, drill presses, band saw, joiner and planer, etc., located in the machine shop, electric shop, carpenter shop and ship fitter shop.

Clean machined surfaces of chucks, face plates, vises and similar attachments. Apply protective coating of thin film rust preventive compound, Grade II to the cleaned surfaces.

ITEM 207 - MACHINERY, PRESERVATION OF: (PB)

Clean all exposed rods, journals, couplings and machined surfaces of pumps, auxiliary and main machinery, steering engine rams and telemotors and apply one (1) coat of rust preventive compound, grade II to the cleaned surfaces.

ITEM 208 - WHISTLE PIPING, BLANKING OF: (PB)

Drain the ships whistle and its adjacent piping.

At the completion of draining and drying out of same blank the steam supply piping flange nearest the whistle.

All removals for this purpose shall be wired adjacent to its respective location.

ITEM 209 - SHAFT LOCKING DEVICE: (BK)

Remove the main shaft port and starboard muff coupling sheet metal guards and secure in a suitable location adjacent to muff couplings.

Install the ship's furnished port and starboard shaft locks.

Locks are located in the shaft alley mounted on the bulkhead adjacent to muff couplings.

Chase the hold down bolts threads, (threads have paint on them now).



**ITEM 301 - BOILERS, CLEANING OF: (LNP)**

Accomplish the following to prepare No's. 1, 2, 3, and 4 Combustion Engineering Co. "D" type boilers for inactivation.

Remove all access doors and panels necessary to gain access to the boilers to accomplish fire side cleaning.

**Fireside Cleaning**

Thoroughly clean by mechanical means and air lancing all fireside surfaces of the two (2) stacks and all uptakes. Thoroughly clean the fireside surfaces of the economizers, generating tube banks, superheater elements, all screen tubes, waterwall tubes, drums and headers. Clean all soot and other foreign material from the superheater header vestibules, water wall header vestibules, the economizer vestibules both header and loop ends and all interior surfaces of the forced draft air ducts and wind boxes in their entirety.

All fireside cleaning shall be accomplished by mechanical means, power wire brushing or air lancing. No water allowed.

**Do Not Waterwash or Steam Lance****Boiler Refractory Material**

Remove the furnace floors in their entirety, this includes all refractory material and insulation to the floor pans, all corbels, refractory material over the mud drum and all refractory material and insulation in the waterwall header vestibules.

Remove all refractory material in and around the waterwall tubes adjacent to the waterwall headers.

Remove all refractory material from the screen tubes forming the superheater support plates protection baffle including the refractory at the steam drum and mud drum ends of the superheater support plates and brackets.

**NOTE:** Two (2) support plates per boiler.

Remove the plastic burner fronts in their entirety including insulation to the front burner plate.

Remove all refractory material and insulation from the economizer soot box floors down to the floor pans.

Cut access opening in the side, roof and rear wall casing and remove all refractory material and insulation from behind the side wall, rear wall and roof tubes including the upper rear wall headers.

(Continued)

ITEM 301 - BOILERS, CLEANING OF: (LNP) (CONT'D)

Secure the access opening panels adjacent to their respective openings.

Thoroughly clean all drums, tubes, headers, brackets, plates, floor pans, and exposed areas of the front burner plate.

Burner Registers and Access Doors

Remove all burner registers from the boilers (three (3) registers per boiler) and remove all barrels from the burner registers. Remove all burner tips. Thoroughly clean all registers, burner barrels and burner tips and store in a designated store-room.

Drain all fuel oil lines and secure all fuel oil valves to burners.

Wire brush the fireside framing and sheathing of all access doors, leave all doors in an open position with all securing nuts, bolts and clamps attached to their various respective locations. Mark all access doors and panels showing respective boiler and location and secure and stow in the engine room as directed by the MSTSP Inspector.

Safety Valves and Boiler Mountings

Release the spring tension on all boiler safety valves to raise valve discs off their seats.

Close all boiler valves to a closed tight position and then open each valve approximately one and one half revolutions of the valve wheel to raise the valve disc off their respective seats.

ITEM 302 - STACK COVERS: (LNP)

Fabricate and install covers for the two (2) main stacks using 3/16 inch mild steel plate. Extend covers beyond the perimeters of the stacks thence downward and seal welded to stack deck to seal off both stack expansion, cowling and stacks.

Fabricate and install 1/8 inch mild steel plate covers over the entire louvered section of each of the forward and after stacks and seal weld in place.

Install blanks on the atmosphere escape pipes on the forward and after stacks by seal welding.

Template all work on ship.

All covers shall be proven tight to the satisfaction of the MSTSP Inspector.

Burn a 4-inch hole in the forward and after inner smoke stacks as near the top as possible.

Burn a 6-inch hole in the deck of the emergency generator room.

(Continued)

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ITEM 302 - STACK COVERS: (LNP) (CONT'D)

Presently installed wooden stack covers to be returned to USNS POPE, Pier 1, Berth 32, San Francisco Naval Shipyard, Hunters Point, San Francisco.

ITEM 303 - WATER BOXES AND COVERS, STOWAGE OF: (TC)

Pick up two (2) water boxes and two (2) covers for water boxes now located in passageway at 2-170-2, and store in Engine Room as designated by the MSTS Representative.

Place a metal tag on each item with the following legend "Air Cooler for Main Propulsion Motor."

The material to be moved is two (2) each of Item 16 and two (2) each of Item 17 on Figure 84 in General Electric Instruction Book GEI-16179A for Turbine-Electric Propulsion Equipment.

ITEM 401 - WEATHERDECK WINCHES: (TC)

Uncouple, disconnect, and completely remove all cargo winches, topping winches, lifeboat winches and bathythermograph winch from installed positions and stow in designated areas in cargo holds, properly secured at least two (2) feet from skin of ship and six (6) inches from deck.

Reeve lifeboat falls on to the drums.

Pull all electric cable back within the ship.

All openings created shall be sealed off to assure water tightness.

Identify each winch with a metal tag showing location from which winch was removed.

Paint marred or unpainted area left by removal of winches.

NOTE: No. 13 and No. 14 cargo winches have previously been removed. Pull back cable, and seal all openings.

Data: Twelve (12) Cargo Winches  
Twelve (12) Lifeboat Winches  
Ten (10) Topping Winches

ITEM 402 - ENGINE ORDER TELEGRAPHS ON WEATHER DECK: (TC)

Uncouple, disconnect and completely remove the three engine order telegraph stands and wood foundations, one (1) port and one (1) starboard on bridge wings, and one at aft steering station. Stow in areas designated by the MSTs Representative.

Pull back all cable to within the ship's structure, and install watertight caps on kickpipes. Scale and paint deck in way of wood foundation removals.

All openings created in deck by removals shall be sealed by welding 1/8" plate to openings.

Remove the rudder indicator instrument on the top of wheelhouse and stow in wheelhouse. Pull back cable and install watertight cap on kickpipe.



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ITEM 403 - MAGNETIC COMPASSES: (TC)

Remove the three (3) magnetic compasses from their binnacles, properly tag and stow face down on a piece of cardboard or heavy paper in location as designated by the MSTS Inspector.

Remove the two (2) weather exposed binnacles at top of wheelhouse and aft steering including compensating coils on top of wheelhouse binnacle and their wood foundation plates, and stow in location as designated by the MSTS Inspector. Pull all cable and compensating coil leads back to within ship's structure and properly tag.

All openings created by removals shall be sealed for air and water tightness.

Scale and paint deck in way of wood foundation removal at aft steering.

ITEM 404 - SPERRY GYRO COMPASS SYSTEM: (TC)

Furnish the services of a Sperry Gyroscope technician to prepare the entire Sperry Gyro Compass System for deactivation.

Service and preserve the Mark XIV master compass and all associated control and receiver equipment including the Gyro Pilot equipment.

Properly tag for location, disconnect (do not cut leads) and remove all gyro repeaters and peloruses from their pedestals or mountings and stow face down on a piece of cardboard or heavy paper in secured storeroom as designated by the MSTS Representative. Tags shall be non-ferrous metal.

Remove all weather deck pelorous pedestals and wood foundations, and stow as designated by the MSTS Representative. Pull back all cable to within the ship's structure, and install watertight caps over kickpipes. Seal off all deck openings by welding 1/8 inch thick plate to openings. Scale and paint deck in way of wood foundation removals.

Make entries in Gyro Log as required to bring data up to date and place log book inside the Mark XIV compass case or in some other location as may be directed by the MSTS Representative.

ITEM 405 - NAVIGATION AND RUNNING LIGHTS: (TC)

Disconnect and remove all of the ship's navigation and running light fixtures such as, but not limited to, side lights, range lights, masthead light, anchor lights, steering lights, towing lights, aircraft warning lights, blinker lights, out of command lights, man overboard, stern light, wake light, etc. and stow in locations designated by the MSTSP Inspector.

Attach tags showing function and location of each fixture.

Paint marred or unpainted areas left by the removal of fixtures.

Thoroughly clean all ship's navigation and running light plug-in receptacles free of all corrosion and foreign matter. Renew missing or damaged receptacle outlet caps and/or receptacle covers and deteriorated receptacle cover gaskets as required to assure watertightness of each receptacle.

ITEM 406 - SHIP'S GENERAL LIGHTING & RECEPTACLES ON THE WEATHER DECKS: (TC)

Check out every general and emergency lighting fixture, switch and electric outlet receptacles on weather exposed decks and areas for watertightness.

Renew broken or missing vapor-proof globes and deteriorated or missing gaskets as required to make all lighting fixtures watertight. Renew deteriorated gaskets on watertight type light switches. Renew missing or damaged receptacle outlet caps and/or receptacle covers and deteriorated receptacle cover gaskets as required to assure watertightness of each plug-in receptacle.

ITEM 407 - CARGO, DEBARKATION, SIGNAL AND SEARCHLIGHTS: (TC)

Disconnect and remove one (1) eighteen inch searchlight and wood foundation plate in its entirety, two (2) twelve inch signal lights, and all cargo and debarkation floodlights from foremast, mainmast, kingposts, weather decks and superstructure. (approximately thirty (30) cargo and debarkation lights to be removed). Tag each fixture showing function and location, and stow in a secured store room location as designated by the MSTS Representative.

Reassemble the eighteen inch searchlight with its train and elevation remote controls and all component mounting parts as one (1) unit and stow in location designated by the MSTS Representative. Pull searchlight cable back to within ship's structure and properly tag each lead. Blank off cable packing tube to make watertight. Blank off deck penetration with a steel plate and make watertight. Apply two (2) coats of deck paint to the plate.

Paint all marred areas left by the removal of the portable fixtures.

Renew missing or damaged receptacle caps and/or covers.

Renew receptacle cover gaskets and assure watertightness of each receptacle.

ITEM 408 - VENT FANS AND MOTORS ON WEATHER DECKS: (TC)

Uncouple, disconnect and remove all weather deck ventilation motors and impellers, a total of approximately twenty three (23) to be removed, as per guidance list below.

Stow below, in locations designated by the MSTS Representative, along with all duct pieces necessary to remove to gain access for removal of motors and impellers.

Tag the vent motors and impellers, duct pieces, and the corresponding openings with stamped metal identification tags, denoting on the opening where vent is stowed, and on the motors, impellers, and duct pieces the system identification number.

Pull back all cable to within ship's structure, identify with metal tags and tape leads with plastic tape.

All openings thus created shall be made air and water tight by welding 1/8 inch thick metal plate to inside diameter of bolt circle. Place watertight caps over cable kickpipes.

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ITEM 408 - VENT FANS AND MOTORS ON WEATHER DECKS: (TC) (CONT'D)

<u>SYSTEM</u>	<u>TYPE</u>	<u>RATING</u>
1-166-1	Axial Flow	5 HP
1-166-2	Axial Flow	5 HP
1-170-2	Axial Flow	5 HP
1-213-3	Axial Flow	7.5 HP
1-188-2	Axial Flow	5 HP
1-188-1	Axial Flow	5 HP
1-177-1	Axial Flow	3 HP
1-177-2	Axial Flow	1.5 HP
1-141-2	Axial Flow	1.5 HP
01-192-0	Axial Flow	15 HP (Fifteen)
01-138-2	Centrifugal	1.5 HP
01-147-0	Axial Flow	1 HP
01-147-2	Centrifugal	5 HP
01-78-2	Axial Flow	10 HP
01-147-0	Axial Flow	7.5 HP
02-139-1	Centrifugal	5 HP
02-140-2	Centrifugal	10 HP
03-116-1	Centrifugal	2 HP
03-116-2	Axial Flow	3 HP
03-96-2	Axial Flow	3 HP
04-89-2	Centrifugal	1.5 HP
04-89-1	Axial Flow	1.5 HP
04-92-1	Axial Flow	1.5 HP
	Centrifugal	1/2 HP

NOTE: The closing of all other weather deck vent openings, not involving motors, is covered in another item of this specification. Enclosed promenade is considered to be weather deck

ITEM 409 - MASTER SWITCHES: (TC)

Undercouple, disconnect and remove all cargo winch and capstan master switches and stow in areas designated by the MSTS Representative. Pull back all cable to within the ship's structure. Do not cut any cable. Install watertight caps over kickpipes. All openings created by removals shall be sealed with a welded 1/8-inch thick plate to inside diameter of bolt circle to provide air and water tightness.

NOTE: Do not remove the anchor windlass master switch.

DATA: Fourteen (14) Cargo Winch master switches. Two (2) Capstan master switches.

ITEM 410 - ANCHOR WINDLASS MASTER SWITCH: (TC)

1007/ Open up the cover for the anchor windlass master switch. Dry out any traces of moisture, renew gaskets, studs, bolts, and nuts found to be defective and close up in watertight condition.

Leave the anchor windlass motor and controls in a ready to use condition.

ITEM 411 - MOTORS, GENERATORS AND MOTOR-GENERATORS: (TC)

Accomplish the following to two (2) main propulsion motors and generators, four (4) ship's service generators, the emergency generator, approximately two hundred and twenty five (225) AC motors, approximately fifty five (55) DC motors, and four (4) motor generator sets.

Obtain all megger insulation readings with the exception of fractional horse power motors, and provide a written report of readings in triplicate to the MSTS Inspector for entry in the ship's condition survey.

Remove any excessive oil, grease, and dirt. Release spring tension on all commutator brushes on DC motors, motor generators and exciters, and slip ring brushes on ship's service and main propulsion motors and generators. Raise brushes from surface of commutators and slip rings, and leave brushes in place.

Place a thin coating of preservative on main propulsion motors and generators slip rings.

Place protective paper around DC motor commutators.

Drain all water cooler tanks for main propulsion and ship's service motors and generators.

NOTE: Leave the anchor windlass motor and controls in a ready to use condition.

- DATA:
- (a) Two (2) main propulsion motors and generators General Electric, 7650 KW
  - (b) Four (4) 500KW AC/200KW DC ship's service generators with exciters General Electric Co.
  - (c) Approximately four (4) M.G. Sets
  - (d) Approximately two hundred and eighty (280) motors.
  - (e) One (1) 75KW Emergency Generator

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ITEM 412 - LEAD ACID BATTERIES, REMOVAL OF: (TC)

Disconnect and off-load all lead acid batteries from ship. Drain each cell free of electrolyte and flush with fresh water.

1007. Thoroughly clean all battery racks and shelves and leave in dry condition. Clean all ship's wiring battery terminals and coat with petroleum jelly.

The following is a list of batteries for guidance only and does not exempt the contractor from the removal of all lead acid batteries aboard ship.

Emergency Light and Power	- - - -	Thirty (30)
Emergency Diesel Starting	- - - -	Five (5)
Fire Alarm	- - - -	Two (2)
Automatic Telephone	- - - -	Nine (9)
Radio Batteries	- - - -	Four (4)
Motor Lifeboats	- - - -	Four (4)
Spare Batteries in Locker	- - - -	Four (4)

ITEM 413 - ELEVATORS: (TC)

Lower the below listed three (3) elevators to the bottom of their respective wells.

Block up the elevator approximately three (3) feet, with wooden 6" x 6" blocks properly arranged and braced to relieve tension on cable and eliminate any distortion in the elevator structure. Blocks shall be arranged so that an access to beneath the elevator is available.

DATA: Otis 4000 pounds capacity, Frame 110, 01/2 decks  
Otis 2000 pounds capacity, Frame 80, 3/6 decks  
750 pounds capacity, Frame 72, 3/6 decks

ITEM 414 - MISCELLANEOUS: (TC)

a) Leave all disconnect and transfer switches on motor transfer panels in off positions.

b) Leave all watertight doors in open position.

c) Remove name boards of ship and stow as directed.

ITEM 501 - INACTIVATION OF ELECTRONIC EQUIPMENT: (WLJ)

Inactivate the following electronic equipment with associated components aboard ship:

1402A Radar  
ANSPS-35 Radar  
CRP-RAY-240 Radar Indicator  
CRP-DE-102 Fathometer  
CRP-DE-103 Fathometer  
CRM-AR-8714  
AN/SPN-7 Loran  
Wind Indicating Equipment  
Radio Console  
Emergency Announcing System  
General Announcing System  
Entertainment Sound System

The inactivation work shall include:

- A. Open all equipment cabinets and enclosures.
- B. Remove dust from chassis, terminal strips, and units. Use a soft brush and vacuum cleaner.
- C. Apply a thin coat of "Lubriplate" to switch contacts and relay contacts. Apply SAE-10 oil to cabinet opening hinges and securing hardware.
- D. Open power feed switches serving electronic equipment. Remove all circuit protection fuses. Place in cloth bags, tag for identification and attach to applicable equipment on power panel. Apply a thin coat of Cosmoline to cover fuse clips.
- E. Close equipment cabinets and enclosures.

USNS GENERAL E.D. PATRICK (T-AP 124)  
 c/o Fleet Post Office  
 San Francisco, California

HOLD SOUND TUBES - LOCATION LISTING

PORT

STARBOARD

Bilge No.	Location	Bilge No.	Location
1 - - - - -	2-42-2	1 - - - - -	2-42-1
2 - - - - -	2-60-2	2 - - - - -	2-60-1
3 - - - - -	4-78-2	3 - - - - -	4-78-1
4 - - - - -	01-81-2	4 - - - - -	01-81-1
5 - - - - -	-2-157-2	5 - - - - -	2-157-1
6 - - - - -	2-195-2	6 - - - - -	2-195-1
7 - - - - -	1-180-2	7 - - - - -	1-180-1
8 - - - - -	2-213-2		