

2570 CATEGORY "A" ITEMS

ITEM 115 - STANDING RIGGING, STAYS AND SHROUDS: (MAC)

Locations: Foremast
Mainmast
Radar mast - *Leave Tight?*
Stacks (2)

Slacken the stays and shrouds on all the aforementioned masts and stacks.

Remove all serving, from all turnbuckles and fittings including canvas covers.

Clean the exterior surfaces of the turnbuckles and apply 3 coats of solvent cutback corrosion preventive compound, Military Specification, MIL-C-16173 Grade I.

90%

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ITEM 120 - WEATHER DECK DRAINS: (MAC)

Remove strainers, remove debris and prove clear all weather deck drains at 04 level, 03 level, 02 level and 01 level. Upon proving clear in the presence of and to the satisfaction of the MSTS Inspector reinstall strainers. The foregoing shall include, but not be limited to a total of approximately forty (40) drains.

CATEGORY "A" ITEMS

25%
ITEM 121 - WEATHER DECK PAINTING: (MAC)

Clean and paint as follows, all weather deck surfaces including a six (6) inch "Dado" on all vertical exterior bulkheads and up to six (6) inches on the inboard sides of all bulwarks, rails and coamings, under all exposed chairs supporting chocks, bitts, cleats and padeyes.

Include all deck areas exposed by winch, fan, lifefloat and other removals.

Include all surfaces of all weather deck ladder treads, stringers, hand-rails and stanchions.

Weather deck surfaces are defined as the main deck, 01-Deck, 02-Deck, 03-Deck, 04-Deck, focs'l deck, the top decks of all the uppermost houses and the top decks of all shelters, lockers and plenum chambers.

Remove all existing adhesive attached abrasive deck treads.

Include the exposed deckhead plating, framing and fish plating on the underside of the 01-Level port and starboard from frame 93 to frame 210.

1. SURFACE PREPARATION

(A) Thoroughly wash down all surfaces specified above using fresh water and/or approved chemicals as required to remove all dust, dirt, salt, soot, oil, ~~grease~~ and other extraneous substances. Approximately 55,000 square feet to be washed down.

(B) All surfaces of the paint system showing signs of rust, scale, loose or blistered paint shall be cleaned to bare metal by the use of scrapers, chippers, jitter bugs, wire brushes or any other approved method. All edges of intact paint shall be feather-edged to a smooth surface. Approximately 10,000 square feet to be cleaned to bare metal.

NOTE: All weather deck ladder treads shall be cleaned in their entirety to bare metal.

2. PRIMER APPLICATION

(A) Brush or roller apply one (1) coat of unthinned "WETSALL" red primer number 3240 manufactured by the Farboil Company or an equal material approved by the Contracting Officer on all bare metal surfaces. Approximately 10,000 square feet of red primer to be applied.

(B) When the red primer has dried, brush or roller apply one (1) coat of unthinned "WETSALL" grey primer number 3241 manufactured by the Farboil Company or an equal material approved by the Contracting Officer, on all surfaces coated with red primer. Approximately 10,000 square feet of grey primer to be applied.

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ITEM 122 - INTERIOR PAINT CLEANING: (MAC)

From the interior decks, deckheads, bulkheads, ships side plating and sheathing, and all sides of vent trunks and ducts, remove all loose and flaking paint to a good tight paint film in the below listed spaces.

Remove from the ship on a daily basis all debris generated by the above noted removals.

Interior spaces to be cleaned are, but not limited to the following:

Engine rooms, fire rooms, uptakes and auxiliary machinery spaces.

Cargo holds and trunks.

Stairs and stairwells.

Ladders and ladderwells.

All vestibules and passageways.

All messing, galley and other food preparation spaces.

All elevator and dumbwaiter shafts.

All working spaces (shops).

All fan rooms generator and control rooms.

All living, berthing, hospital and detention spaces.

Navigation bridge, radio rooms, and chart rooms.

All toilet, shower and washroom spaces.

Approximate square footage: 2000

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ITEM 123 - DEHUMIDIFICATION ZONE, BLANKING OF: (MAC)

Reference (a) MSTS Plan No. TAP-110-502-1173134 Titled "Dehumidification, Diagrammatic Arrangement".

1. Accomplish blanking of all openings in boundary bulkheads and other structure forming the boundaries of zones to be dehumidified, as shown on reference (a) and all other openings listed below.

On the second deck and above, most zones are penetrated with 6 inch by 6 inch collared wireways. Fifteen to twenty various sized wires pass through the openings. Duct seal or some similar type material is presently packed in collars and around wires forming a seal between boundaries. To insure airtightness, reseal these wireways with caulking compound equal to specification MIL-C-18969B, Type II. Approximately thirty-five (35) openings are involved.

On the second deck and above, most boundaries are penetrated with groups of piping that are not fitted with watertight connections. Seal these penetrations with the above noted caulking compound. Approximately thirty-five (35) individual pipe openings involved.

Caulk all miscellaneous zone penetrations from 1/4-inch tubing to two (2) inch piping not grouped and in various locations with the above noted compound and seal airtight between boundaries. Approximately twenty-five (25) penetrations involved.

In upper boundaries of zones in living areas, the zone bulkheads are fitted with non-tight doors. The passage on one side of the ship is fitted with a double door with a clear opening of 48 X 75 inches and on the opposite side of the ship the opening has a single door with a clear opening of 30 X 75 inches. Engine room casings are fitted with non-tight doors approximately 30 X 75 inches.

The total number of doors is two (2) each sets of double doors and twenty-seven (27) each single doors in engine room casings and other zone boundary bulkheads.

Fit all non-tight door openings in zone boundaries with No. 10 USSG sheetmetal closures flanged as necessary to clear door frames, secured with 2 X 8 inch intermittent welds on all sides.

Scribe tight to the deck, the bottoms of all sheetmetal door closures terminating on magnesite or other non-weldable material. After closures have been welded, the periphery of all closures shall be sealed with caulking compound, specification MIL-C-18969B Type II on both sides of closures as necessary to insure airtightness of boundary for dehumidification.

Disconnect all vent ducts penetrating boundaries at a flange nearest to boundary of each zone and install a No. 10 USSG sheetmetal blank, bolted in

(Continued)

CATEGORY "A" ITEMS

ITEM 123 - DEHUMIDIFICATION ZONE, BLANKING OF: (MAC) (CONT'D)

place and caulked around periphery with the above noted caulking compound. Where vent ducts are of welded construction and welded to the boundaries, cut these vents away and close the openings left with inserted blanks, equal in thickness to bulkhead and seal weld all around to make airtight; approximately 27 various size vents to be blanked.

In places where boundaries are holed, insert blanks of equal thickness and seal weld all around to insure airtightness. Four (4) areas, with approximately eight (8) square feet involved.

An 18 inch by 36 inch access opening shall be cut in bulkhead 142 above 02-level as designated on reference (a).

All doors, vent ducts and any other items removed to facilitate blanking of zones shall be identified, marked with non ferrous metal tags and stowed as directed by the MSTB Inspector.

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ITEM 124 - CARGO HOLDS, HATCH BEAMS: (MAC)

"Remove all hatch beams from hatches No. 1 hold, No. 2 hold, No. 3 hold, No. 6 hold and No. 7 hold.

Remove all rust, scale and loosely adhering paint to bare metal.

Apply one coat, bursh or roller applied, unthinned "Wetsall" red primer number 3240 or equal material approved by the Contracting Officer, on all bare metal surfaces.

On completion of painting, reinstall all hatch beams in their respective locations and reinstall hatch boards.

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ITEM 125 - CARGO GEAR INACTIVATION: (MAC)

Remove the wire rope cargo falls, topping lift, vang guys, cargo blocks and swivels from the eight (8) cargo booms.

Unship the eight (8) cargo booms and remove the goosenecks and boom heel pins.

Neatly coil all wire rope, apply Viscolite slushing compound.

Tag all equipment with non-ferrous metal tags indicating location and unit from which removed.

Stow all aforementioned equipment except booms on pallets and secure by lashing or banding.

Stow pallets with cargo gear in the cargo holds. All units shall be stowed two (2) feet from bulkheads and shell plating to allow D/H air circulation.

Stow each boom in steel cradles on weather decks.

Install steel angle "X" type frames of sufficient size to support the booms approximately two (2) feet off of the deck.

Install three (3) stowages for each boom, one (1) each at the head, heel and center of the booms.

Remove all rust, scale and loosely adhering paint to bare metal, on the eight (8) booms.

Prime bare metal surfaces of the booms and the boom stowage cradles with two coats of unthinned "Wetsall" primer manufactured by the Farboil Company or equal material as approved by the Contracting Officer.

The first coat shall be "Wetsall" red number 3240 and the second coat "Wetsall" grey number 3241.

90%

CATEGORY "A" ITEMS

ITEM 126 - AFTER ELECTRIC CAPSTAN, SEALING OF: (MAC)

Enclose and seal the after Capstans port and starboard, frame 215, main deck, by installing No. 14 USSG galvanized sheet metal covers.

Seal weld enclosures to the flat bar coaming plates and caulk with sealer specification MIL-C-18969-B Type II and make airtight.

Apply two coats of "Wetsall" as manufactured by the Farboil Company or equal material as approved by the Contracting Officer.

The first coat shall be "Wetsall" red primer No. 3240 and the second coat "Wetsall" gray No. 3241.

CATEGORY "B" ITEMS

INDEFINITE

ITEM 127 - CRANE SERVICES: (MAC)

Submit a separate bid price to provide from time to time, as requested by the MSTS Inspector, the services of a crane, crane operator and three (3) slingmen to remove equipment and/or stores from any weather deck or cargo hatch of the ship to dock and load on Government furnished transportation. Equipment and/or stores to be removed from the ship will be placed on pallets on weather decks or in an accessible area of hatch openings.

A total of forty (40) hours of the foregoing services will be used to evaluate the bid.

BID PRICE PER HOUR \$ _____

CATEGORY "B" ITEMS

INDEFINITE

ITEM 128 - DOUBLER PLATES INSTALLATION OF: (MAC)

Submit a separate bid price to install doubler plates over deteriorated areas of decks and bulkheads on weather decks.

The doublers shall be fabricated from 15.3 lb. mild steel plate and welded with a continuous weld on the outer periphery and plug welded on 12-inch centers.

Upon completion of installation paint the external surfaces with two (2) coats of brush or roller applied, unthinned "Wetsall" primer manufactured by the Farboil Company or an equal material approved by the Contracting Officer.

The first coat shall be "Wetsall" red primer number 3240 and second coat "Wetsall" gray primer number 3241.

A total of one hundred (100) square feet will be used to evaluate the bid.

Bid Price Per Square Foot _____

50%

CATEGORY "A" ITEMS

ITEM 201 - BOILER FIRESIDE CLEANING OF: (LNP)

Accomplish the following work on numbers 1, 2, 3, and 4 Foster Wheeler Corp. "D" type boilers, P2-S2-R2 design. Use NAVSHIPS Technical Manual 9030.186 as a guide.

Remove all access doors and panels necessary to gain access to boiler firesides to accomplish the following.

FIRESIDE CLEANING:

Thoroughly clean by mechanical means, power wire brushing, sweeping, scraping, and/or air lancing to remove all soot, dirt, fuel oil residue, and other foreign material from all fireside surfaces of the two (2) stacks, uptakes, economizers, generating tube banks, superheater elements, all fireside screen tubes, side waterwall, rear waterwall, and front waterwall tubes, all drums and headers. Remove all soot, dirt and other foreign material from the superheater header vestibules, all waterwall header vestibules, (upper and lower, front and rear, and the lower side waterwall header vestibules). Clean the economizer vestibules both header and loop ends, all interior surfaces of the economizer soot boxes, furnace fireboxes and the forced draft blower ducts and windboxes.

All fireside cleaning shall be accomplished by mechanical means and/or air lancing Do Not Water Wash or Steam Lance.

Clean the exposed exterior areas of all waterwall headers, superheater headers, economizer return headers and return bends, economizer inlet and outlet headers, economizer front and rear support sheets. The waterwall headers include the upper and lower, front and rear headers and the lower sidewall headers.

Remove all fuel oil burner registers from each boiler, three (3) registers each boiler. Clean all fuel oil burner registers. Remove all burner tips and atomizers from all burner barrels, clean and store in a designated storeroom or burner barrel rack at the front of the boilers.

Drain and flush with diesel oil all fuel oil lines and secure all fuel oil valves on the fuel oil manifolds.

Wire brush the fireside surfaces of the framing and sheathing of all access doors.

Upon completion of all cleaning and inspection by the MSTS Inspector, paint all headers, vestibules, economizer return headers, return bends, support sheets and access doors with two (2) overall coats of heat resistant aluminum paint.

Upon completion and acceptance of above outlined work, install all removed access doors, bolted access panels and fuel oil burner registers as designated by the MSTS Inspector.

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ITEM 202 -BOILER WATERSIDE CLEANING: (LNP)

Accomplish the following work on No.'s 1, 2, 3, and 4 Foster Wheeler Corp. "B" type boilers, P2-S2-R2 design. Use NAVSHIPS Technical Manual 9030.186 as a guide.

Remove all header handhole plates, handhole plugs, cleanout plugs and manhole plates. Remove all the steam drum internal fittings. Remove all pockets of standing water by swabbing and wiping dry. Thoroughly dry out boilers prior to waterside cleaning.

Clean the waterside surfaces of all generator tubes, superheater tubes, screen tubes, the front, side and rear waterwall tubes, floor tubes, riser tubes, roof circulating tubes, all economizer elements, all waterwall headers, superheater headers, economizer return headers, economizer inlet and outlet headers, steam drums, mud drums and superheater support tubes, using air or electric power rotary wire brush method.

Upon completion of cleaning, wash down all tubes, drums and headers using clean warm, fresh water.

Dry out, using compressed air, all tubes, drums and headers immediately after watersides are washed down. Remove all pockets of standing water by swabbing and wiping dry. Water pockets referred to are bottom blow nozzles, economizer return headers and at the front and rear of the steam drum and mud drum.

Clean and install all steam drum internal fittings. Clean all handhole plates, handhole plugs, clean out plugs and manhole plates together with their respective seating surfaces. Install all handhole plates, handhole plugs, clean out plugs and manhole plates using new gaskets and ferrules.

All work shall be accomplished to the satisfaction of the MSTS Inspector.

CATEGORY "A" ITEMS

ITEM 203 - BOILER REFRACTORY REMOVAL: (LNP)

Accomplish the following work on numbers 1, 2, 3, and 4 Foster Wheeler Corp. "D" type boilers, P2-S2-R2 design. Use NAVSHIPS Technical manual 9030.186 as a guide.

Remove all refractory material in the furnace floors in its entirety, this shall include refractory material and insulation down to the floor pans.

Remove all refractory material in the economizer soot boxes down to the floor pans.

Remove the superheater support plate protection baffles in the screen tube rows.

Remove all refractory material in all corbels and refractory material over the mud drums.

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

Remove all refractory material and insulation in all waterwall header vestibules.

Upon completion of refractory material and insulation removal, clean all exposed surfaces of the furnace floor pans, economizer soot box floor pans, floor tubes, all waterwall headers, header vestibules and waterwall tubes adjacent to the waterwall headers.

Upon completion of cleaning and inspection, paint all exposed areas with two (2) overall coats of heat resistant aluminum paint.

Remove insulation and fire tile adjacent to the waterwall tubes for inspection purposes. Cut access openings in the boiler casings, 24-inches square, to facilitate insulation removal. Six (6) access openings on each boiler will be required. The MSTS Inspector will designate the exact location on all access openings.

Upon completion of removal of insulation and tile, thoroughly clean exposed waterwall tubes for inspection. Upon completion of cleaning and inspection, install new insulation and fire tile and reinstall casing access openings. All access openings shall be seal welded.

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ITEM 301 - DEHUMIDIFICATION, ELECTRICAL: (JCH)

Ref. (a) MSTS Plan No. 502-1173136 Alt. A, Dehumidification Electrical Diagrams, Typical

Ref. (b) MSTS Plan No. T-AP 110-502-1173134, Dehumidification Diagrammatic Arrangement

Install a complete six (6) zone dehumidification system in conformance with References (a) and (b) with six (6) fire alarm circuits, twelve (12) bilge alarm circuits and three (3) blowers, 115 volt 60 cy., United Blower Co. Model V22, or equal, connected to blower breaker using DHOF-2, or equal, cable.

Remove the elapsed time meters from each D/H machine, mount on plywood or similar material, and install in way of port hole glass in such a manner that meter may be easily read from outside deck. Connect elapsed time meters to each machine using DHOF-4, or equal, cable.

All material in this item shall be installed in locations approved prior to installation by the MSTS Inspector.

All cabling in this item shall be installed and supported in a manner not to interfere with personnel working on equipment or to effect the safety of personnel walking under limited lighting conditions.

All metal frames of switches, D/H machine, transformer and panels shall be grounded to ships structure with wire jumpers.

The U.S. Government will provide forth-two (42) styrofoam ball bilge alarm float switches and six (6) 500 CFM Dehumidification machines. The six (6) dehumidification machines shall be installed under another item of these specifications titled, "Installation of Dehumidification System". The contractor shall provide all other material required in this item.

NOTE:

Attach light flexible wire leads to styrofoam float switches and insulate connections/

5070 CATEGORY "A" ITEMS

ITEM 302 - DECK EQUIPMENT, ELECTRICAL: (JCH)

Engine Order Telegraphs:

Uncouple, disconnect, and completely remove the four (4) engine order telegraph stands, and wood foundations, two (2) on bridge wings and two (2) on aft steering station.

Gyro Repeaters:

Uncouple, disconnect and completely remove the four (4) gyro repeaters complete with pedestals, mounting, and wood foundations, one (1) each located port and starboard on bridge wings, flying bridge and aft steering station.

Magnetic Compasses:

Remove the two (2) binnacles, complete with wood foundations, located one (1) each on the flying bridge and aft steering station.

Telephones:

Remove the four ships dial telephones, complete with housings, located one (1) each on the bow, port & starboard at frame 102 on promenade deck, and aft steering station.

Remove the four (4) ships sound powered telephones located one (1) each on the bow, flying bridge, aft steering station, and stern docking station.

Master Switches:

Uncouple, disconnect, and remove the eight (8) cargo winch master switches and the two (2) capstan winch master switches.

Lifeboat Limit Switches:

Uncouple, disconnect and remove the twenty-four (24) lifeboat limit switches.

Windshield Wipers:

Remove the three (3) windshield wipers located on pilot house windows.

The following applies to all equipment removed in this item:

Stow and secure each item removed, in areas as designated by the MSTS Inspector.

Pull back below deck all cables, which do not have false ceilings and overhead interference, remove kickpipes and seal weld openings.

(CONTINUED)

/ CATEGORY "A" ITEMS

ITEM 302 - DECK EQUIPMENT, ELECTRICAL: (JCH) (CONTINUED)

Cable penetrations over false ceiling overhead shall be left in place with the leads insulated and encapsulated in approved heat shrinkable tubing to and over two (2) inches of cable armor.

Identify each item with a non-ferrous metal tag denoting location from which it was removed.

All cable leads shall be properly identified.

All water retaining cavities, deck and bulkhead openings created by removal of equipment shall be covered by 1/8-inch thick steel plate and seal welded in an air and watertight manner.

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CATEGORY "A" ITEMS

ITEM 303 - GENERATORS: (JCH)

Perform the following on each of the four (4) ship service generators and one (1) emergency generator.

Break couplings, disassemble each generator sufficiently to lift armature and thoroughly clean all dirt, carbon dust, grease, and oil from armature, fields, interior and exterior of generator housing, and remove all residue.

Reassemble and connect generator as original.

Remove all carbon brushes, tag and attach to housing.

Data Ship Service Generators:

Crocker Wheeler 240 VDC, 1650 Amp, 400 KW, 1200 RPM

Data Emergency Generator:

Columbia Electric 75 KW, 120/240 VDC, 313 Amp

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ITEM 304 - MOTORS AND M/G SETS, CLEANING OF: (JCH)

Perform the following on all electric motors and M/G sets, one (1) Horse power and above, aboard ship.

Break Couplings, disassemble motors and M/G sets and thoroughly clean all dirt, carbon dust, grease and oil from armature, fields, interior and exterior of housings, and remove residue.

Reassemble, connect and reinstall in original location. Remove all carbon brushes, tag and store in respective controllers.

The following list is issued for Contractor's guidance only and does not relieve the Contractor of responsibility to properly deactivate each motor aboard ship, one (1) Horse Power and above.

Four	(4)	Fuel oil service pumps	5 H.P.
Two	(2)	Lube oil service pumps	15 H.P.
Two	(2)	Bilge pumps	15 H.P.
Three	(3)	Fire and general service pumps	50 H.P.
Four	(4)	Main condenser condensate pumps	20 H.P.
Two	(2)	Main circulating pumps	101.5 H.P.
Two	(2)	Auxiliary Cond. pumps	5 H.P.
Two	(2)	Sanitary Pumps	6.9 H.P.
Two	(2)	Drinking and fresh water pump	4.9 H.P.
Four	(4)	Boiler feed pumps	40 H.P.
One	(1)	Hot water circulating pump	1.4 H.P.
Two	(2)	Evaporator brine O.B. pump	5 H.P.
Two	(2)	Distiller circulating pump	9 H.P.
One	(1)	Reefer cond. circ. pump	7½ H.P.
Two	(2)	Evaporator feed pump	4 H.P.
Two	(2)	Distilled fresh water pump	2 H.P.
Two	(2)	Tube nest drain pump	3 H.P.
Two	(2)	Distiller condensate	1.5 H.P.
One	(1)	Pump, submersible bilge	15 H.P.
One	(1)	Bilge system priming	2 H.P.
One	(1)	Reefer vacuum pump	½ H.P.
One	(1)	Air conditioning circ. pump	100 H.P.
One	(1)	Air cond. chilled water pump	60 H.P.
One	(1)	Meat Chopper	1 H.P.
One	(1)	Bone cutting machinery	1½ H.P.
Two	(2)	Dishwasher	5 H.P.
Two	(2)	Dishwasher	1 H.P.
One	(1)	Dough Mixer	10 H.P.
One	(1)	Food Mixer	2 H.P.
One	(1)	Food Mixer	1 H.P.
Two	(2)	Vegatable Peeler	1½ H.P.
Two	(2)	Capstan	35 H.P.
Eight	(8)	Cargo Winch	50 H.P.
Two-	(2)	Lifeboat Winch 1 & 2	12.5 H.P.
Ten	(10)	Lifeboat Winches	25 H.P.
Two	(2)	Steering Gear	90 H.P.

(CONTINUED)

CATEGORY "A" ITEMS

ITEM 304 - MOTORS AND M/G SETS, CLEANING OF: (JCH)

Four	(4)	Forced Draft Blowers	28 H.P.
One	(1)	Flatwork Ironer	1 H.P.
Two	(2)	Extractors	3.5 H.P.
Two	(2)	Washing Machines	3 H.P.
Two	(2)	Tumbler Dryers	1 H.P.
Two	(2)	Air Comp. Motors	25 H.P.
Five	(5)	Ship Service Reefer Comp. Motors	25 H.P.
One	(1)	Lathe	2 H.P.
One	(1)	Milling Machine	5 H.P.
One	(1)	Drill Press	1½ H.P.
One	(1)	Grinder	2 H.P.
One	(1)	Bench Grinder	3.75 H.P.
One	(1)	Saw	¾ H.P.
Two	(2)	Portable Welders	200 Amp
Two	(2)	Lube Oil Purifiers-	2 H.P.
Two	(2)	Turning Gear Motors	10 H.P.
One	(1)	Garbage Grinder	10 H.P.
Two	(2)	Sterilizer vacuum pump motors	5 H.P.
Two	(2)	Reefer Diffusers	5 H.P.
One	(1)	Reefer Diffusers	3 H.P.
Two	(2)	Elevator	7½ H.P.
One	(1)	Dumbwaiter	5 H.P.
Two	(2)	Air Condition Units	7½ H.P.
Ten	(10)	Air Condition Units	3 H.P.
Six	(6)	Air Condition Units	2 H.P.
Fifteen	(15)	Air Condition Units	1½ H.P.
Three	(3)	Air Condition Units	1 H.P.

The majority of the motors are 230 volts D.C.

MOTOR GENERATOR SETS:

Two	(2)	Telephone Battery M/G Sets in I.C. Room
One	(1)	Gyro M/G. Set in I.C. Room
Two	(2)	Fire Control M/G. Sets 120 KVA 440 VAC in "B" Room
Two	(2)	I.C. M/G Sets 6.3 KVA 115 VAC in I.C. Room
One	(1)	Emerg. Battery Charging M/G Set 3 KW in "B" Room

90%

CATEGORY "A" ITEMS

Allen Insured

ITEM 305 - SPERRY GYRO COMPASS SYSTEM: (TC)

Furnish the services of the Sperry Gyroscope Company 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. The following requirements are included in the preservation of master compass.

Remove mercury ballistic from compass.

Remove mercury from mercury ballistic.
earthenware jar.

Seal mercury in glass or

Secure link bearing to mercury ballistic link arm with oil saturated cloth and cover with masking tape to keep oil from drying out cloth.

Seal mercury ballistic support bearings with masking tape to keep out dust and dirt.

The mercury ballistic and mercury shall be left in the bottom of the binnacle and a cloth cover made covering the entire binnacle. Secure a tag with all nameplate data to the outside of the cover.

Thoroughly degrease bearings and relubricate.

Exercise caution to ensure that instrument oil is not used in locations where damage to electrical wiring or parts might result. Enter the items of work for relubrication of equipment installed in the current Ship's Maintenance Log files for accomplishment upon activation.

Clean, adjust and recondition all gyro compass associated control and repeater equipment as necessary to meet Marad Representative's approval. Replace gaskets with new manufacturer's parts numbers gaskets. Using non-ferrous metal, attach tags denoting location to each removed repeater and pelorus.

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 other location as may be directed by the MSTSP Inspector.

0 CATEGORY "A" ITEMS

ITEM 306 SWITCHBOARDS: (JCH)

Thoroughly clean and vacuum free of all dust and other extraneous substances, the following switchboards:

Main Distribution Switchboard, third deck, frame 120 centerline	(3 sections)
Generator Switchboard No.2-aft Engine Room	(1 section)
Generator Switchboard No.1-Fwd. Engine Room	(1 section)
Power Distribution Switchboard No.1 (Resister Hse, Mn Dk. Fwd)	(3 sections)
Power Distribution Switchboard No.2 (Resister Hse, Mn Dk. Aft)	(3 sections)
Power Distribution Switchboard No. 3 (Superstructure Dk. frames 97-101 port)	(3 sections)
Emergency Generator Control Switchboard (Forward Stack Compartment)	
Emergency Switchboard (I.C. Room) & Associated Components	
115 V.A.C. - I.C. Switchboard (I.C. Room) & Associated Components	
115 V.A.C. - Distr. Panel I.C. Room & Associated Components	
24 V.D.C. Distribution Panel I.C. Room & Associated Components	
440 V.A.C. M/G No. 1 and 2 Distribution Switchboards (3rd dk, frame 124 P&S)	
3 KW charging M/G panel (3rd dk, frame 124 centerline)	
Degaussing panel (FB-313) (Midship Superstructure)	
Test Panel Switchboard	

2070 CATEGORY "A" ITEMS

ITEM 307 - VENTILATION SETS, CLEANING OF: (JCH)

Disassemble all ventilation set motors, and perform the following:

Thoroughly clean all dirt, carbon dust, grease and oil from armatures, fields, interiors and exteriors of housings, motor housing cylinder, and remove residue.

Reassemble, reinstall, and connect all ventilation sets in original locations, except sets removed from weather decks and stowed as specified in another item in these specifications.

The following list is issued for the contractor's guidance only and does not relieve the contractor of responsibility to properly deactivate each ventilation motor aboard ship.

SYSTEM NUMBER	LOCATION			MOTOR DATA		C.F.M.
	FRAME	SIDE	REMARKS	R.P.M.	H.P.	
S-04-94-1	94	S	Fan Room	1750	1	1625
S-04-94-2	94	P	Open Deck	1750	3	5600
E-03-142-2	142	P	Open Deck	1750	1	9700
S-03-94-2	94	P	Open Deck	1750	3	
E-02-106-1	106	P	Fan Room	1750	1½	2500
S-02-106-3	106	S	Fan Room-	1250	1-3/4	3200
E-02-106-2	106	P	Fan Room	1400-1750	2/4	4000
S-02-106-4	107	P	Fan Room	1150	1-1/4	4000
S-02-108-1	108	S	Fan Room	1250	1-3/4	3375
S-02-108-2	108	P	Fan Room	1750	1	1595
S-02-108-3	108	S	Fan Room	1320-1750	19	28400
S-02-108-4	108	P	Fan Room	1320-1750	19	30200
E-02-134-1	134		Fan Room	1750	2-3/4	8000
E-02-135-2	135		Fan Room	1050	2	5660
S-02-137-2	137	P	Fan Room	1050	3	5650
S-02-137-1	137	S	Fan Room	1250	3	5615
S-02-140-2	140	P	Fan Room	1320-1750	19	26000

PH/jeh

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(CONTINUED)

CATEGORY "A" ITEMS

ITEM 307 - VENTILATION SETS, CLEANING OF:

(CONTINUED)

SYSTEM NUMBER	LOCATION			MOTOR DATA		C.F.M.
	FRAME	SIDE	REMARKS	R.P.M.	H.P.	
S-02-140-1	140	S	Fan Room	1320-1750	19	30700
S-02-142-1	142		Fan Room	1750	1	2500
E-01-77-1	77	S	Open Deck	1750	1	
E-01-78-1	77	S	Open Deck	1310-1750	4/1.9	8045
E-01-78-2	779	P	Open Deck	1150-1750	15	9850
E-01-78-3	79	S	Open Deck	1150-1750	15	8450
E-01-78-4	79	P	Open Deck	1550	2-3/4	7150
E-01-78-5	79	S	Open Deck	1550	2-3/4	7150
E-01-92-1	92	S	Open Deck	1750	2.0	600
E-01-98-1	94	S	Open Deck	1750-1310	3-1.9	4300
1-118-2	118	P	Open Deck		2.0	
E-01-156-1	155	S	Open Deck		3.0	3050
E-01-162-1	163	S	Open Deck	1550	2-3/4	7325
E-01-162-2	163	P	Open Deck	1550	2-3/4	7625
E-01-162-3	163	S	Open Deck	1550	2-3/4	4250
E-01-162-4	163	P	Open Deck	1550	2-3/4	5050
S-01-168-2	170	P	Fan Room	1750	1.0	2500
1-190-3		S			4.0	
01-172-1		S	Open Deck		3.0	
S-01-192-1	192	S	Plenum			2500
S-01-192-2	192	P	Plenum			2500

PB/jeh

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(CONTINUED)

CATEGORY "A" ITEMS

ITEM 307 - VENTILATION SETS, CLEANING OF: (CONTINUED)

SYSTEM NUMBER	LOCATION		REMARKS	MOTOR DATA		C.F.M.
	FRAME	SIDE		R.P.M.	H.P.	
E-1-36-1	36	S	Fan Room	1550	1-3/4	4300
E-1-36-2	36	P	Fan Room	1550	1-3/4	4700
E-1-42-1	42	S	Fan Room	1550	1-3/4	4850
E-1-42-2	42	P	Fan Room	1550	1-3/4	4850
S-1-59-1	59	S	Fan Room	1550	1-3/4	5000
S-1-59-2	59	P	Fan Room	1550	1-3/4	5000
S-1-60-1	61	S	Fan Room	1550	1-3/4	5000
S-1-60-2	61	P	Fan Room	1550	1-3/4	5000
S-1-61-2	62	P	Fan Room	1900	1-1/4	2800
S-1-62-1	62	S	Fan Room	1350	2-3/4	7300
S-1-62-2	62	P	Fan Room	1350	2-3/4	7300
S-1-64-1	64	S	Fan Room	1350	2-3/4	7300
S-1-64-2	64	P	Fan Room	1350	2-3/4	1687
S-1-112-1	112	S		1350	2-3/4	1000
S-1-65-2	65	P	Fan Room	1310-1750	3-1.3	5000
S-1-65-1	65	S	Fan Room	1310-1750	3-1.3	5000
S-1-89-1	90	S	Fan Room	1450	3-3/4	4425
S-1-89-2	90	S	Fan Room	1450	3-3/4	4600
S-1-89-3	90	S	Fan Room	1750	2-3/4	6000
S-1-89-4	90	P	Fan Room	1750	2-3/4	6000
E-1-90-1	90	S	Fan Room	930-1160	5	6025

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CATEGORY "A" ITEMS

ITEM 307 - VENTILATION SETS, CLEANING OF: (CONTINUED)

SYSTEM NUMBER	LOCATION		REMARKS	MOTOR DATA		C.F.M.
	FRAME	SIDE		R.P.M.	H.P.	
E-1-90-2	91	P	Fan Room	930-1160	5	6800
E-1-90-3	91	S	Fan Room	1750-1310	3-1.3	6000
E-1-90-4	91	P	Fan Room	1750-1310	3-1.3	6000
S-1-91-1	92	S	Fan Room	1400-1750	4.0	4500
S-1-91-2	92	P	Fan Room	1400-1750	4.0	4500
E-1-94-1	94	S	Open Deck	1400-1750	4.0	4600
S-1-94-2	94	P	Open Deck	1750-1310	3-1.3	4650
E-1-120-1	120	S	Open Deck	1750	5	10030
S-1-126-1	125	S	Open Deck	1750	1.0	1200
S-1-125-2	126	P	Open Deck	1750-1310	3-1.3	4200
E-1-127-2	128	P	Open Deck		1.0	
S-1-183-1	184	S	Fan Room	1450	3-3/4	3350
S-1-183-2	184	P	Fan Room	1450	3-3/4	3425
E-1-184-1	185	S	Fan Room			4200
S-1-184-2	185	P	Fan Room	1450	3-3/4	3425
E-1-185-2	185	P				1700
S-1-186-2	187	P	Fan Room	3500	1 1/2	2000
S-1-186-3	187	S	Fan Room	1450	3-3/4	3350
E-1-116-2	116	P	Fan Room			1500
S-1-188-1	189	S	Fan Room	1350	2-3/4	7150
S-1-188-2	189	P	Fan Room	1350	2-3/4	7150

PB./jeh

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(CONTINUED)

CATEGORY "A" ITEMS

ITEM 307 - VENTILATION SETS, CLEANING OF: (CONTINUED)

SYSTEM NUMBER	LOCATION			MOTOR DATA		C.F.M
	FRAME	SIDE	REMARKS	R.P.M.	H.P.	
S-1-189-1	190	S	Fan Room	1350	2-3/4	7150
E-1-134-2	134	P	Fan Room			1500
S-1-189-2	190	P	Fan Room	1350	2-3/4	7150
S-1-203-1	203	S	Deck Locker	1400	1/20	400
E-1-206-1	207	S	Open Deck	1750	2-3/4	6300
E-1-206-2	207	P	Open Deck	1750	2-3/4	6300
E-1-209-2	210	P	Open Deck		3	6300
E-1-210-2	211	P	Open Deck	1550	2-3/4	7175
S-2-26-1	26	S	Fan Room	2000	1-3/4	3275
S-2-26-2	26	P	Fan Room	1750	1	2100
E-2-28-1	28	S	Fan Room	1450	2 1/2	5750
E-2-28-2	28	P	Fan Room	1450	2 1/2	5750
S-2-31-1	31	S	Fan Room	1500	5/8	1250
E-2-123-1	123		Fan Room	1750	5	8925
S-2-124-1	125	S	Fan Room	1150	4	8525
S-2-124-2	125	P	Fan Room	1050	6	10800
S-2-125-2	125	P	Fan Room	1750-1150	7 1/2	9800
E-2-126-1	126	S	Fan Room	1500	1/3	500
S-2-143-1	143	S	Fan Room	1150	4	7800
S-2-143-2	144	P	Fan Room	1150	4	6850

PB/jeh

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(CONTINUED)

CATEGORY "A" ITEMS

ITEM 307 - VENTILATION SETS, CLEANING OF: (CONTINUED)

SYSTEM NUMBER	LOCATION			MOTOR DATA		C.F.M
	FRAME	SIDE	REMARKS	R.P.M.	H.P.	
S-2-143-3	143		Fan Room	1150	4	5725
S-2-144-1	145	S	Fan Room	1750	1 $\frac{1}{4}$	1875
S-2-146-1	146	S	Fan Room	1750	2-3/4	6300
S-2-146-2	146	P	Fan Room	1750	2-3/4	6300
S-2-146-3	146	S	Fan Room	1750	2-3/4	4775
E-2-172-1	172	S	Stairwell		4	8000
E-2-216-1	216	S	Capstan Rm.	1550	1-3/4	3465
E-2-216-2	216	P	Capstan Rm.	1550	1-3/4	3460
E-3-115-2	115	P	Fan Room			3425

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CATEGORY "A" ITEMS

ITEM 308 - VENT FANS AND MOTORS ON WEATHER DECKS: (TC)

Uncomple, disconnect and remove all weather deck ventilation fans complete with housings, motors and impellers, a total of approximately twenty-nine (29) to be removed, as per guidance list below. Motors are 230 volts D.C.

Stow ventilation fans below decks, along with all duct pieces necessary to remove to gain access for removal of ventilation fans, in locations designated by the MSTS Inspector. Stow on 6-inch x 6-inch weed timbers, secured with wire fastened to staples on the decks or framing. Maintain a 24-inch clearance between the stowages and the ship's bulkheads and side plating.

Tag the vent fans, duct pieces, and the corresponding openings in vent ducts with stamped non-ferrous metal identification tags, denoting on the opening where vent is stowed, and on the ventilation fans and duct pieces the ventilation system identification number.

All openings created in ventilation ducts or trunks to the weather by removals shall be made watertight by welding 1/8-inch thick metal plates on the flanges inside diameter of the bolt circles.

Pull back all cable to within ship's structure, identify with non-ferrous metal tags and tape leads. Grip off kickpipes flush with deck and seal openings with welded insert plates.

The closing of all other weather deck vent openings, not involving ventilation fans is covered in another item of these specifications titled, "Airtight Closures".

Cleaning of the ventilation fan motors is covered in another item of these specifications titled "Ventilation Sets, Cleaning of".

<u>SYSTEM</u>	<u>TYPE</u>	<u>RATING</u>
1-206-1	Axial	2-3/4 HP
1-206-2	Axial	2-3/4 HP
1-210-2	Axial	4.0 HP
1-209-2	Axial	2-3/4 HP
1-190-3	Axial	4.0 HP
1-126-1	Axial	1.0 HP
1-120-1	Axial	7.5 HP
1-94-1	Centrifugal	4.0 HP
1-127-2	Axial	1.0 HP

(CONTINUED)

CATEGORY "A" ITEMS

ITEM 308 - VENT FANS AND MOTORS ON WEATHER DECKS: (TC) (CONTINUED)

<u>SYSTEM</u>	<u>TYPE</u>	<u>RATING</u>
1-118-2	Centrifugal	2.0 HP
1-94-2	Centrifugal	3.0 HP
01-78-4	Axial	2-3/4 HP
01-78-2	Axial	15 HP
01-78-3	Axial	15 HP
01-78-5	Axial	2-3/4 HP
04-94-2	Centrifugal	3.0 HP
01-156-1	Axial	2-3/4 HP
01-162-3	Axial	2-3/4 HP
01-162-1	Axial	2-3/4 HP
01-162-2	Axial	2-3/4 HP
01-162-4	Axial	2-3/4 HP
01-172-1	Axial	2-3/4 HP
03-94-2	Centrifugal	2.0 HP
03-142-2	Axial	1.0 HP
01-77-1	Axial	2-3/4 HP
01-78-1	Axial	2-3/4 HP
01-98-1	Axial	3.0 HP
01-92-1	Centrifugal	2.0 HP
01-162-3	Axial	2-3/4 HP

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CATEGORY "A" ITEMS

ITEM 309 - WEATHER DECK WINCHES AND MOTOR CONTROLLERS: (TC)

Uncouple, disconnect and completely remove all cargo winches and lifeboat winches from installed positions and stow in designated areas in cargo holds, properly secured with wire to prevent movement, at least two (2) feet from skin of ship and bulkheads, and six (6) inches off the deck, seated on 6-inch by 6-inch timbers of Douglas Fir, Grade B or better. Spot scale and apply one (1) coat of red lead primer, MIL-P-15929, to all winches.

Disconnect and remove all electrical components from the interiors of the fourteen (14) lifeboat winch motor controllers and stow below decks as directed.

Pull back below deck all cables which do not have false ceiling overhead interference, tape leads individually, remove kickpipes and seal openings by welding.

Cables penetrating decks with false ceiling overhead interference shall be left in place, individual leads taped, and cable encapsulated in approved heat shrinkable tubing to, and covering two (2) inches of cable armor.

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

Paint marred or unpainted areas left by removals.

DATA: Eight (8) Cargo Winches
Fourteen (14) Lifeboat Winches
Fourteen (14) Motor Controllers

8070

CATEGORY "A" ITEMS

ITEM 310 - BATTERIES, BATTERY RACKS AND SHELVES: (TC)

Disconnect and remove the six (6) lead acid Emergency Diesel batteries from the forward stack.

All other lead acid batteries have been removed from the ship.

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

The following is a list of locations of battery racks and shelves, for guidance.

Ship's Service Batteries (3-125-1)
IC, Gyro and Kidde Batteries (2-85-1)
Emergency Diesel (forward stack)
Forward and aft Fire Pump Rooms (5-18-2) (5-186-2)
Aft of Wheelhouse (03-94-1)

0 CATEGORY "A" ITEMS

ITEM 311 - WEATHER EXPOSED LIGHTING AND RECEPTACLES: (TC)

Visually inspect all general and emergency lighting fixtures, switches and outlet receptacles on weather exposed deck areas for signs of deterioration and non-watertightness, and then repair as follows to the satisfaction of the MSTS Electrical Inspector.

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

DATA: Approximately eighty (80) lighting fixtures.
Approximately thirty (30) receptacles.

50 CATEGORY "A" ITEMS

ITEM 312 - ELEVATORS AND DUMBWAITERS: (TC)

Secure the below listed two (2) elevators and five (5) dumbwaiters, as follows:

Remove cables, lower counterweights to blocks, and lower each car to bottom of well.

Block up elevator cars by properly arranged shores as recommended by the MARAD Representative. Shores shall be arranged so that access to beneath the elevator cars is available.

DATA: 1- 5 H.P. Heavy Duty Dumbwaiter
4- 3/4 H.P. Dumbwaiters
1- Freight Elevator - 2000-lb. capacity
1- Passenger Elevator - 2000-lb. capacity.

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CATEGORY "A" ITEMS

ITEM 313 - RHEOSTATS: (JCH)

Thoroughly clean buttons and spaces between buttons on all motors, generator and vent set rheostats aboard ship.

Cover buttons on which the contact brush will rest with paper meeting specification JAN-P-121 for Type 1, Grade A paper.

40

CATEGORY "A" ITEMS

ITEM 314 - CONTROLLERS: (JCH)

Open all motor and motor generator controllers. Thoroughly clean, using air and vacuum process. Open all disconnect switches and leave open, on approval of cleaning by NSTS Inspector. Close up controllers.

4070 CATEGORY "A" ITEMS

ITEM 315 - NAVIGATION AND RUNNING LIGHTS: (TC)

Disconnect and remove all navigation and running light fixtures which are connected to ship's wiring with portable cord and plugs. Attach non-ferrous metal tags showing function and location of each fixture removed, and stow in locations designated by the MSTS Inspector.

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

Visually inspect each fixture permanently attached to ships wiring (not removed) for signs of deterioration and non-watertightness, and repair by renewing defective bolting, gaskets, etc. to assure watertightness.

Visually inspect all navigation and running light plug-in receptacles for signs of deterioration and non-watertightness.

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, to the satisfaction of the MSTS Electrical Inspector.

30 CATEGORY "A" ITEMS

ITEM 316 - ANCHOR WINDLASS: (JCH)

MOTOR:

Uncouple, disconnect, and remove from ship to shop the anchor windlass motor.

Disassemble motor, thoroughly clean, examine and bench test all components.

Fair-up, straighten, undercut, build-up in an approved manner and machine finish armature shaft in way of bearing surfaces to original design dimensions.

Check end bells for bearing fit, undercut, build-up and machine finish bearing housings for correct fit of bearings.

Turn commutator to a true concentricity within .001 inch plus or minus. Undercut mica, ~~remove~~ feather edges and polish.

Renew all defective or deteriorated motor leads, field and brushing jumpers.

Preheat, vacuum impregnate, and bake armature and spray paint field and interpole coils with approved insulating varnish.

Repaint all non-current carrying parts of motors.

Repair and adjust brush rig assembly, renewing insulation, springs, and component parts found defective.

Renew all brushes and completely seat to commutator in proper staggered position, with brushholders evenly spaced around commutator circumference, spaced at a maximum of 1/8-inch from commutator and adjusted to load neutral.

Dynamically balance the armature.

Renew bearings and grease seals with new bearings and seals equal to manufactures original specified parts numbers.

Reassemble and shop test to approval of MSTS Inspector.

Return to ship, reinstall, realign and test for proper operation to the satisfaction of the MSTS Inspector.