

ORDER FOR SUPPLIES OR SERVICES

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 05/11/2009	2. CONTRACT NO. (If any) DTMA8C05014	6. SHIP TO: FRANK LINEHAN		
3. ORDER NO. CLS14W09028	4. REQUISITION/REFERENCE NO. PRWRSM09131	a. NAME OF CONSIGNEE DOT/Maritime Administration, WR Operations		
5. ISSUING OFFICE (Address correspondence to) DOT/Maritime Administration, DPO Acquisition 201 Mission Street, Suite 1800 San Francisco CA 94105-1905		b. STREET ADDRESS CAPE INTREPID		
		c. CITY TACOMA	d. STATE WA	e. ZIP CODE

7. TO: a. NAME OF CONTRACTOR	f. SHIP VIA
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b. COMPANY NAME Crowley Liner Services, Inc.		8. TYPE OF ORDER		
c. STREET ADDRESS 9487 Regency Square Blvd,		<input type="checkbox"/> a. PURCHASE REFERENCE YOUR:		<input type="checkbox"/> b. DELIVERY - Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.
d. CITY Jacksonville	e. STATE FL	f. ZIP CODE 32225-8126		

9. ACCOUNTING AND APPROPRIATION DATA 2009 - - X4303 - RRF 933 - 40 - INT0 - 0 - 0000 - 000000 - 70 - 096133 - 40 - INT0 - 25432 - - -	10. REQUISITIONING OFFICE DOT/Maritime Administration, Western Region
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11. BUSINESS CLASSIFICATION (Check appropriate box(es))				12. F.O.B. POINT
<input type="checkbox"/> a. SMALL	<input checked="" type="checkbox"/> b. OTHER THAN SMALL	<input type="checkbox"/> c. DISADVANTAGED	<input type="checkbox"/> g. SERVICE-DISABLED VETERAN-OWNED	Destination
<input type="checkbox"/> d. WOMEN-OWNED	<input type="checkbox"/> e. HUBZone	<input type="checkbox"/> f. EMERGING SMALL BUSINESS		

13. PLACE OF		14. GOVERNMENT B/L NO.	15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 09/30/2009	16. DISCOUNT TERMS
a. INSPECTION	b. ACCEPTANCE			

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	SEE LINE ITEM DETAIL					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT	19. GROSS SHIPPING WEIGHT	20. INVOICE NO.		17(h) TOT. (Cont. pages) 17(i) GRAND TOTAL \$527,551.00
	21. MAIL INVOICE TO: Susan Wong				
	a. NAME DOT/ Enterprise Services Center (ESC) OFO/FAA, Oklahoma City				
	b. STREET ADDRESS (or P.O. Box) MARAD A/P WR Invoices Branch, AMZ-150 PO Box 25710,				
	c. CITY Oklahoma City	d. STATE OK	e. ZIP CODE 73125		

22. UNITED STATES OF AMERICA BY (Signature) 	23. NAME (Typed) Patricia L. Etridge TITLE: CONTRACTING/ORDERING OFFICER
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**ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION**

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IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 05/11/2009	CONTRACT NO. DTMA8C05014	ORDER NO. CLS14W09028
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ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	<p><i>(CAPE INTREPID)</i> <i>CLIN 0401AE; PROJECT NO. CLS INT09 1005 A</i> <i>M&R REPAIRS</i> <i>PRWRSM09131</i></p> <p>Cost reimbursable items (see Attachment J-9) individually funded via task order</p> <p>Base year 4, Ship group 14, Ship 1 (CAPE INTREPID) CLIN 0401AE; PROJECT NO. CLS INT09 1005 A</p> <p>M&R REPAIRS</p> <p>The purpose of this project is to accomplish marad approved specific work items on the ship's approved business plan, as identified below. All completed work shall be in compliance with applicable standards as set forth in the Ship Manager contract at C.6.3, Compliance Documents, and subparagraphs thereto, at the time of acceptance.</p> <p>SEE ATTACHED DESCRIPTION OF WORK.</p> <p><i>Delivery Date</i> 09/30/2009</p> <p>Reference Requisition: PRWRSM09131 <i>DIST: SM/COTR/CO/FCO</i></p>	1.00	LOT	527,551.000	527,551.00	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17i) ⇒ \$527,551.00

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SECTION C -- DESCRIPTIONS AND SPECIFICATIONS

C.1 STATEMENT OF WORK

Cape Intrepid - PRWRSM09131
FY'09 M&R REPAIRS A

SERVICE REQUISITIONS

SR 1103095: SWITCHBOARD BREAKERS, RENEWAL

CONTRACTOR IS TO FURNISH ALL NECESSARY LABOR, MATERIAL AND EQUIPMENT TO REPLACE PANEL No. 4 ON THE MAIN SWITCHBOARD WITH NEW CUTLER HAMMER BREAKERS.

Reference Drawings # 807783
Tech manual # 109

Contractor is to provide all labor, materials and equipment to accomplish all work required by this specification to the "C" Panel only of the Main Switchboard. All work to timing to be coordinated with the vessel's Chief Engineer. Contractor shall provide a written and precise timeline for the work scope. This work will require a complete shutdown of the vessel's electrical system except for Emergency Lighting through the EDG switchboard. Provide power from other vessel through extension cords as necessary during black out periods. Contractor shall be responsible for all support during shutdown phase of work.

Contractor is to electrically disconnect all components of panel 'C' only. Remove all breakers, buss-tie connections, and tulip connections. Thoroughly clean all vacated areas, including buss-bar. Provide and install new buss-tie connections and tulip connections. Make all necessary effort to utilize existing mounting holes on the Buss-Bar and eliminate the need for any new holes being drilled.

Provide and install new 'Powder-coated' face panel. Panel color to match existing panels. Install new blank inserts in unused sections. Provide all new fasteners and hardware. and nameplate labels to match existing. New labels shall be white-on-black, and be applied as per original layout attachment.

Main Switch Board Conversion Unit Number four
ITE Imperial Corporation Marine Type Power Distribution Switchgear
Ship's manual 62-A

Color match Unit Number four to Unit Number Three
Change circuit breakers to Cutler Hammer FDC30XX style Series "C" 600 Volt 3 Pole
100,000 Amp IC @ 4809 Volts with Thermal Magnetic trip
Dip unit bus bars to clean all tarnish off them.

Bent conversion bars to use as many of the original bus bar holes as possible
No shunt trips or AUX switches.

Calculate the surface area/volume of bus bar. Be sure to stay with in required surface area/volume. Full low rules called out by IEEE 45 and ABS Standards for the Construction of Steel Vessels. Size breakers for proper protection in a 480 Volt Delta Wound System.

Provide breakers in the following amp ratings and QTYs:

Breaker #	Rating	Use
P442	1000 A	Spare
P441	1000 A	Steering Gear

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P451 400 A Deck Machy fwd. and amid.
L405 200 A Cargo Hold lighting Transfer Bank
L402 150 A Lighting Transfer Bank #3
P458 150 A Deckhouse Vent Panel
P459 300 A Engine Room Vent Panel

SR 1103096: MOTOR CONTROLLERS, REPLACE

THE INTENT OF THIS ITEM IS TO REPAIR THE EXISTING MOTOR CONTROLLERS AS NOTED BELOW. ANY ADDITIONAL REPAIRS DEEMED NECESSARY IS TO BE VERIFIED BY THE VESSEL'S CHIEF ENGINEER, AND SUBMITTED ON A SEPARATE CONDITION FOUND REPORT TO THE VESSEL'S PORT ENGINEER WITHIN 48 HOURS OF DISCOVERY.

No. 2 MAIN CONDENSATE PUMP MOTOR CONTROLLER:

Heater type: Cutler Hammer H1050
NEMA 3; 50HP
Enclosure size: 18"W x 9-3/4"D x 32-3/8"T

Contractor is to provide all necessary labor, material and equipment to perform the following:

- The contractor is to properly tag out and disconnect all electrical connections, ensuring that all wiring is adequately marked and labeled for re-connection.
- The contractor is to replace the main disconnect mechanism and switch.
- The contractor is to replace the push-pull relay.
- The contractor is to replace the hour meter.
- The contractor is to thoroughly clean all rust and debris from the controller internal surfaces.
- The contractor is to prime and coat the controller internal and external surfaces. Coating is to match the main switchboard.
- The contractor is to rebuild and reseal all wire pass troughs.
- The contractor shall prove complete and satisfactory operation to the vessel's Chief Engineer.
- All work is to be done within all ABS guidelines for electrical machinery.

This is to be a fixed all-inclusive price, including all freight and taxes.

No. 2 ENGINE ROOM SUPPLY FAN MOTOR CONTROLLER:

Heater type: Cutler Hammer H1046
NEMA 3; 40HP
Enclosure size: 17-1/8"W x 9-3/4"D x 32-3/8"T

Contractor is to provide all necessary labor, material and equipment to perform the following:

- The contractor is to properly tag out and disconnect all electrical connections, ensuring that all wiring is adequately marked and labeled for re-connection.
- The contractor is to replace the main disconnect mechanism and switch.
- The contractor is to thoroughly clean all rust and debris from the controller internal surfaces.
- The contractor is to prime and coat the controller internal and external surfaces. Coating is to match the main switchboard.
- The contractor is to rebuild and reseal all wire pass troughs.
- The contractor shall prove complete and satisfactory operation to the vessel's Chief Engineer.
- All work is to be done within all ABS guidelines for electrical machinery.

This is to be a fixed all-inclusive price, including all freight and taxes.

No. 2 MAIN LUBE OIL SERVICE PUMP MOTOR CONTROLLER:

Heater type: Cutler Hammer H1049
NEMA 3; 40HP
Enclosure size: 31"W x 12-1/2"D x 50"T

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Contractor is to provide all necessary labor, material and equipment to perform the following:

- The contractor is to properly tag out and disconnect all electrical connections, ensuring that all wiring is adequately marked and labeled for re-connection.
 - The contractor is to replace the main disconnect mechanism and switch.
 - The contractor is to replace the push-pull relay.
 - The contractor is to replace the hour meter.
 - The contractor is to thoroughly clean all rust and debris from the controller internal surfaces.
 - The contractor is to prime and coat the controller internal and external surfaces. Coating is to match the main switchboard.
 - The contractor is to rebuild and reseal all wire pass troughs.
 - The contractor shall prove complete and satisfactory operation to the vessel's Chief Engineer.
 - All work is to be done within all ABS guidelines for electrical machinery.
- This is to be a fixed all-inclusive price, including all freight and taxes.

No. 1 FUEL OIL SERVICE PUMP MOTOR CONTROLLER:

Heater type: Cutler Hammer H1044

NEMA 3; 20/10HP

Enclosure size: 17-1/8"W x 9-3/4"D x 32-3/8"T

Contractor is to provide all necessary labor, material and equipment to perform the following:

- The contractor is to properly tag out and disconnect all electrical connections, ensuring that all wiring is adequately marked and labeled for re-connection.
 - The contractor is to replace the main disconnect mechanism and switch.
 - The contractor is to replace the push-pull relay.
 - The contractor is to replace the hour meter.
 - The contractor is to thoroughly clean all rust and debris from the controller internal surfaces.
 - The contractor is to prime and coat the controller internal and external surfaces. Coating is to match the main switchboard.
 - The contractor is to rebuild and reseal all wire pass troughs.
 - The contractor shall prove complete and satisfactory operation to the vessel's Chief Engineer.
 - All work is to be done within all ABS guidelines for electrical machinery.
- This is to be a fixed all-inclusive price, including all freight and taxes.
- *****

SR 1103097: PUMPS, REPAIR

CONTRACTOR IS TO FURNISH ALL NECESSARY LABOR, MATERIAL AND EQUIPMENT TO OPEN, CLEAN, OVERHAUL AND INSPECT FOUR (4) PUMPS.

With vessel crew, jointly lock and tag liquid ends to pumps. Electric motors will be ashore for rebuilding.

1) No. 1 FUEL OIL SERVICE PUMP, Delaval model T-323 Rotary screw pump (tech manual # 51)

Remove drain plug and drain pump case. Recovered oil may be poured down a Chief Engineer approved fuel oil sounding tube. Disconnect coupling, inlet and outlet flanges. Disconnect seal lines. Pull coupling half. Remove bracket bolts from foundation. Pull mechanical seal. Pull idler and power rotor as an assembly. Remove all covers. Clean all parts. Make pump available for Regulatory Body inspection.

After approval, rebuild pump with new Contractor furnished "O" rings, mechanical seal and gaskets. Reassemble pump using SAE-30 oil, (do not use grease)

2) DIESEL OIL TRANSFER PUMP, Delaval, (tech manual # 49, DWG 279-S47-1-108)

Mech seal - John Crane F-SP-16122, Bearing - SKF 63072 RS

Remove drain plug and drain pump case. Recovered oil may be poured down a Chief Engineer approved fuel oil sounding tube. Disconnect coupling, inlet and outlet flanges. Disconnect seal lines. Pull coupling half. Remove bracket bolts from foundation. Pull mechanical seal.

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Remove inlet head and thrust cage. Remove both idler balance piston housings. Remove idler and power rotors. Remove all covers. Clean all parts. Make pump available for Regulatory Body inspection.
After approval, rebuild pump with new Contractor furnished ball bearing, "O" rings, mechanical seal and gaskets. Reassemble pump using SAE-30 oil, (do not use grease)

3) EMERGENCY FIRE PUMP (Warren 4-DBH-10,tech manual # 264)

4) No. 2 MAIN CONDENSATE PUMP (tech manual # 267)

Disconnect pump coupling. Disconnect and rig out pump casing half. Casing and casing flanges to be thoroughly cleaned of all gasket material and debris. Pump impeller assembly removed. Inner pump casing to be thoroughly cleaned and inspected. Impeller assembly is to be completely dismantled and thoroughly cleaned. Contractor is to provide and install casing and wear rings, new mechanical seal assembly, new throat liner, new sleeve bearings, and grease seals. Contractor is to ensure that all clearances are within manufacturer's tolerances. Upon satisfactory inspection by the Regulatory bodies and vessel's Chief Engineer reinstall rotating assembly, ensuring that assembly rotates freely after installation. Contractor is to reinstall outer pump casing, using new, vessel approved gasket material.

All work is to be accomplished to the satisfaction of the vessel's Chief Engineer and conform to all ABS requirements.

SR 1103098: MOTORS, REPAIR

CONTRACTOR IS TO FURNISH ALL NECESSARY LABOR, MATERIAL AND EQUIPMENT TO OVERHAUL AND REPAIR THE FOUR (4) FOLLOWING MOTORS:

Reference: Tech Manual #29

1) No. 1 FORCED DRAFT FAN MOTOR

2) No. 2 FORCED DRAFT FAN MOTOR

TEMP: 65 DEG C AMBIENT, 60 DEG C RISE, INSULATION CLASS F, OPERATION: CONTINUOUS, CAPACITY: 1.0 SF, ENCLOSURE: DRIPPROOF PROTECTED, VOLT: 440, AMP: 414/258, CYCLE: 60, PHASE: 3, HP: 350/155, RPM: 1780/1190, FRAME: 5808S, DWG: 701696, LOC: ENGINE ROOM\25' LEVEL\PORT & STBD\FORWARD (TECH MANUAL INDEX: 29)

3) No. 1 ANCHOR WINDLASS MOTOR

4) No. 2 ANCHOR WINDLASS MOTOR

Tech manual #29 Sec 6A-31

125 hp, 440 V, Frame 405 TS

With vessel crew, jointly lock and tag out power to motors.

Unbolt and remove the flexible coupling between the pump and motor. Unbolt the motor from the foundation, ensuring that all shims and spacers are properly tagged and noted for replacement. Rig and transport motor from the vessel and deliver to a certified motor repair facility. Dissassemble motor to then clean, dip bake, renew bearings and balance motor.

Transport motor to vessel, rig and reinstall. Reinstallation of the flexible coupling, precision alignment and operational test run of motor is to be accomplished to the satisfaction of the vessel's Chief Engineer. Upon completion of installation, motor is to be test run to the satisfaction of the vessel's Chief Engineer.

Any additional repairs found necessary is to be verified by the vessel's Chief Engineer, and submitted on a separate Condition Found Report to the vessel's Port Engineer within 72 hours of discovery.

SR 1102056: CARGO HOLDS STEEL, PRESERVATION

FURNISH NECESSARY LABOR, MATERIAL AND EQUIPMENT TO MAKE REPAIRS TO THE FOLLOWING FAN HOUSES. ANY ADDITIONAL REPAIRS FOUND NECESSARY IS TO BE VERIFIED BY THE VESSEL'S CHIEF

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ENGINEER, AND SUBMITTED ON A SEPARATE CONDITION FOUND REPORT TO THE VESSEL'S PORT ENGINEER WITHIN 72 HOURS OF DISCOVERY.

Fan House	Location	Wasted Area
208-1	A Deck Stern, Stbd Side	Outbd side, 8" x 6'
208-2	A Deck Stern, Port side	Aft section, 8" x 12"
239-2	A Deck Stern, Port side	Fwd section, 8" x 6'
74-2	A Deck Midships, Port side	Inboard section, 8" x 1'
85-1	A Deck Midships, Stbd side	Inboard section, 6" x 18"
85-2	A Deck Midships, Port side	Outboard section, 6" x 2'
96-1	A Deck Midships, Stbd side	Outboard section, 6" x 18"
102-1	A Deck Midships, Stbd side	Outboard section, 6" x 6'
159-2	A Deck Midships, Port side	Outboard section, 6" x 8'
NR-2	A Deck, Port side at Frame 166	1ft x 1ft

WORK TO BE ACCOMPLISHED:

- Contractor is to properly remove the wasted sections of steel plating.
- Contractor is to prep all remaining surfaces in preparation for welding.
- Contractor is to fit up and weld in new steel plating.
- Upon completion of welding, all welding slag and debris is to be removed and properly disposed of.
- Contractor is to prime and coating the new surfaces with Owner Furnished Coatings.
- All work to be done to the satisfaction of the vessel's Chief Engineer.

SR 1103100: LAGGING/INSULATION, REPAIR

CONTRACTOR IS TO FURNISH ALL NECESSARY LABOR, MATERIAL AND EQUIPMENT TO REPAIR/REPLACE THE LAGGING AND INSULATION ON THE MAIN STEAM LINES FROM THE BOILERS TO THE MAIN THROTTLE. REPAIR/REPLACE THE LAGGING ON THE SSTG SETS.

1. Repair Lagging LP Bleed Line
2. Repair lower part of Port Boiler exhaust trunk
3. Repair #1 Feed Pump Gland Seal leak off line
4. Butt End of Lagging on Steam to #1 Feed Pump
5. Replace lagging and Pads on HP drain Lines #1 Feed Pump
6. Replace Pad #1 Feed Pump steam inlet line
7. Replace Lagging on HP Drain Line #2 Feed Pump
8. Repair lagging Gland Leak Off #2 Feed Pump
9. Replace Pad on IP Bleed Check Valve
10. Repair Drain Line IP Bleed Check valve
11. Make Pad for IP Bleed Valve Bonnet
12. Replace Pad on LP Bleed Check Valve
13. Repair Lagging Steam to atomizing steam Regulator
14. Make Pad for Atomizing Steam Regulator
15. Repair Lagging to Gland Seal Regulator
16. Butt Ends on DC Heater Drop Valve to Inport Feed Pump
17. Make Pad for DC heater Drop Valve to Inport Feed Pump
18. Replace Pad for Drain Line on steam for Astern Throttle Valve
19. Patch Drain Line on Shore Steam Regulator Drain Line
20. Replace Lagging and Pads on Automatic Drain Line to Bilge
21. Repairs Lagging on Automatic Drain Line to Main Condenser
22. Lag Test Cooler Lines Lower Level Fwd of STBD Boiler
23. Patch Air Duct Lagging Lower Level Fwd

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- 24. Patch Inlet and outlet lagging on settler steam regulator
 - 25. Make Pad for Port steam Heating Supply
 - 26. Replace Pad #2 FO Heater INBD End
 - 27. Repair Gland Seal leak Off under HP Turbine
 - 28. Repair Feed Water Line above Control Room
 - 29. Insulate Air Handling Unit above Control Room
 - 30. Repair lagging Port economizer Access
 - 31. Install Hooks for pads on Port and Stbd Economizer Man Holes
- *****

SR 1102091: QUARTERS VENT SYSTEM, REPAIR

Contractor to provide all necessary material, equipment and labor to perform the following:

GALLEY:

- o Clean exhaust system (E02-187-1) and supply system (S1-177-2), including fans, housing, walls, dampers and access panels.
- o Clean approximately 120 ft of galvanized bare exhaust air ducting, including horizontals and risers.
- o Clean approximately 140 ft of galvanized bare supply air ductwork, including horizontals and risers.
- o Clean eleven (11) supply air diffusers.
- o Clean all associate exhaust hoods and grilles.
- o Coat all cleaned and exposed areas with a safe encasement coating system.
- o Furnish and install all necessary access doors needed for cleaning and coating.

FILTER UPGRADE:

- o Remove all existing Auto-roll housings.
- o Provide and install new framing for pocket filters (24"x24"x6")
- o Provide and install twenty-four (24) new pocket filters.
- o Provide three (3) extra sets of pocket filters (total of 72 filters)

HEAD EXHAUST:

- o Clean exhaust fan, unit housing, walls, dampers and access panels.
- o Clean approximately 360 ft of galvanized bare exhaust air ducting, including horizontals and risers.
- o Clean forty-one (41) exhaust air grilles.
- o Furnish and install all necessary access doors needed for cleaning and coating.

LAUNDRY EXHAUST:

- o Clean exhaust fan, unit housing, walls, dampers and access panels.
- o Clean all associated galvanized bare exhaust air ducting, including horizontals and risers in three (3) laundry rooms.
- o Furnish and install all necessary access doors needed for cleaning and coating.

STEAM COILS:

- o Disconnect and remove obsolete steam preheat coils from system ducting. Fabricate and install sheet metal duct transition pieces to seal off ductwork. Remove and cap off steam supply and return lines.

SYSTEM BALANCING:

- o Provide and install approximately forty-five (45) new room thermostats.

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- o Balance system airflow to all spaces.

MISCELLANEOUS SPACES:

- o Clean exhaust fan, unit housing, walls, dampers and access panels in the exhaust systems of the Garbage room and Battery Room.
 - o Clean supply fan, unit housing, walls, dampers and access panels in the Emergency Generator room.
 - o Clean all associated galvanized bare exhaust air ducting, including horizontals and risers.
 - o Furnish and install all necessary access doors needed for cleaning and coating.
- *****

SR 1103105: WT DOOR HOSES, RENEWALS

CONTRACTOR IS TO FURNISH ALL NECESSARY LABOR, MATERIAL AND EQUIPMENT TO PROVIDE AND REPLACE THE HYDRAULIC HOSES ON THE WATER TIGHT DOORS AT LEVELS 'A', 'C' AND 'D'.

Contractor to furnish all necessary labor, material and equipment to replace the hydraulic Hoses on the following doors

Garage Door

- Lifting ram QTY (4)
- Latching ram QTY (4)

#4 WTD

- Lifting ram QTY (6)
- Latching ram QTY (4)
- Dogging ram QTY (16)

#2 WTD

- Lifting ram QTY (6)
- Latching ram QTY (4)
- Dogging ram QTY (16)

#3 WTD

- Lifting ram QTY (4)
- Latching ram QTY (2)
- Dogging ram QTY (10)

#12 WTD

- Lifting ram QTY (4)
 - Latching ram QTY (4)
 - Dogging ram QTY (12)
- *****

SR 1103106: STERN RAMP, REPAIRS

CONTRACTOR IS TO FURNISH ALL NECESSARY LABOR, MATERIAL AND EQUIPMENT TO OVERHAUL W-1 PUMP AND MOTOR ASSEMBLIES.

- W1 Pumps MFG Denison Variable Volume Pump
- P/N P48V-02E-130-2L-01-
- M/N 1A04
- S/N 27 & 30
- Code 015-29876

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DWG 82007-J-018

W1 Electric Motors MFG Reliance Frame 445TY
 ID# 38MA893895-G7-LY
 125 Hp 1180 RPM 156 Amps
 3 Phase 60 Hz 440 Volts

System
 Remove all oil from system
 Clean sump
 Replace with 800 GALs of new oil Rando HD 68
 Bleed all air from system
 Provide ship with written report of findings and work done

Pumps
 Rebuild pump
 Replace bearings
 Replace all gaskets and "o"-rings
 Replace all seals
 Replace coupling
 Align pump and motor
 Provide ship with written report of findings and work done

Motors
 Clean dip and bake
 Replace bearings
 Check bearing housing for proper clearance
 Dope and recover the motor leads
 Provide ship with written report of MEGGER readings, findings and work done

SR 4344565: ENGINE ROOM BILGE PRESERVATION

CONTRACTOR IS TO FURNISH ALL NECESSARY LABOR, MATERIAL, AND EQUIPMENT TO COMPLETE THE REPAIR WORK DESCRIBED BELOW:
 FORWARD ENGINE ROOM TANK TOPS

- Contractor will provide one fully capable supervisor
- For bidding purposes, Contractor is to anticipate four (4) men for 20 working days.
- Contractor is to remove the lower engine room space deck plating between the forward bulkhead at frame 170 and the forward end of the Main Condenser at frame 175.
- Contractor is to clean all metal to Steel Structures Painting Council (SSPC)-SP3 standards. Remove all loose debris, including rust, scale, loose paint and any other material that can be removed via brushing and/or scraping from the specified areas of the bilge tank tops.
- Contractor is to completely degrease all areas for surface preparation, using CORROSEAL Rust Converter Metal Primer.
- Contractor shall provide and apply one (1) coat of INTERNATIONAL Interprime 198 Primer #CPA099 Red, to all exposed areas. After the proper drying time, Contractor is to apply a second coat of the primer material.
- Upon completion of the installation of the primer, the Contractor is provide and apply one (1) full coat of INTERNATIONAL Interlac 665 #CLL274 Red.

All work is to be done to the satisfaction of the vessel's Chief Engineer.
 Contractor is to anticipate approximately \$5,000 for material

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SR 1103110: CLEAN/TIGHTEN MAIN & EMERG. SWITCHBOARDS

CONTRACTOR IS TO FURNISH ALL NECESSARY LABOR, MATERIALS, AND EQUIPMENT TO THOROUGHLY CLEAN THE MAIN AND EMERGENCY SWITCHBOARDS. CONTRACTOR IS TO TIGHTEN ALL ELECTRICAL CONNECTIONS THROUGHOUT BOTH SWITCHBOARDS.

- a) Contractor shall ensure that all electrical power to the switchboard to be worked is secured and tagged out. Vessel's Chief Engineer is to be kept abreast of all work in progress.
- b) Contractor shall vacuum both switchboards to remove all loose material and dirt debris. Vacuuming is to include all buss bars, breaker tops and surfaces.
- c) Contractor is to solvent clean, then blow dry with clean dry air, all internal surfaces of both the main and emergency switchboards. Contractor is to ensure that the solvent materials used are not detrimental to any of the electrical components or their enclosures.
- d) Contractor is to jack-out all main power breakers and thoroughly clean all units. Units are not to be reinstalled until inspected by the vessel's Chief Engineer.
- e) Contractor is to tighten all connections on both the main and emergency switchboards. Connections to include all buss bars and tulip connections to the breakers.
- f) Contractor is to take complete megger readings of the main and emergency switchboards and provide a type written report to the vessel's Chief Engineer.

SR 1103113: STORES REEFER CONTAINERS, REPLACE 1/YEAR

CONTRACTOR TO FURNISH ALL NECESSARY LABOR, MATERIAL AND EQUIPMENT TO REPLACE ONE (1) 20FT REEFER CONTAINER USED FOR VESSEL REFRIGERATED STORES.

Cargo REFER Boxes
 Power Volts 230 60 Hz 3 Phase
 Capacity 12500 BTU/Hr @ -10 F° with ambient air of 100 F° @ RH 85%
 Units are chill box freeze box switchable
 Air-cooled condensers
 Need to have trapped inside alarms hooked into existing alarm system.
 Would prefer Stainless Steel shelving structure with plastic coated wire shelving
 Need proper door hold backs for open doors.

SR 1103117: RAMP/DOOR HINGE PINS (ABS INSPECTIONS)

Contractor to furnish all necessary labor, material and equipment to remove and clean all ramp/door hinge pins for inspection by an ABS surveyor.

Measure pin and pivot holes provide ship with written report
 Clean out all lubricant paths, replace all lubrication fittings.
 Replace all pin keepers
 Upon completion of a satisfactory inspection, contractor is to reinstall the hinge pins.

SR 2005056: ECONOMIZER FEEDWATER VALVES RENEWAL

* Contractor is to provide all labor, materials and equipment to accomplish all work required by this specification to four (4) each Rockwell Edwards type 4006Y, 5"-900# valves, and two (2) each Rockwell Edwards ISP 5"-900# Gate Valve.

* Contractor is to completely disassemble each Feed Valve.

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- * Contractor is to clean and polish the valve disc and seat. Upon completion, disc and seat are to be made available for inspection by the vessel's Chief Engineer.
- * Contractor is to replace the pressure seal rings with new Contractor furnished seal rings equal to those that would be supplied by the valve manufacturer. Contractor is to use the utmost care in handling of the new pressure seal rings to ensure no damage is done prior to completion of all repair work.
- * Contractor is to dismantle and clean the bonnet and bonnet retainers. Upon completion, the bonnet and bonnet retainers are to be made available for inspection by the vessel's Chief Engineer.
- * Contractor is to thoroughly clean the valve stem and packing sleeves, removing all old packing material. Upon completion, the valve stem and packing sleeves are to be made available for inspection by the vessel's Chief Engineer. Contractor to provide new packing for installation.
- * Contractor is to reassemble the valves, using good engineering practice.
- * Contractor is to ensure that the vessel's Chief Engineer is kept appraised of all work and findings.
- * Upon completion of all work, and when instructed by the vessel's Chief Engineer, repaired valves are to be hydrostatically tested. Test methods to be designated and conducted to the satisfaction of the vessel's Chief Engineer.

SR 4342768: MEDIUM FORK LIFT, CYLINDER REPLACEMENT

Contractor is to provide all labor, materials and equipment to accomplish all work required by this specification.

Rebuild the main hoist and the side shift cylinders.
The main hoist cylinder is single stage single acting
Contractor is to clean and inspect all areas for pitting and wear. Contractor is to provide a written report of the conditions found on both rams to the vessel's Port Engineer within 72 hours after disassembly.
Contractor is to rebuild both rams using new seals, packing, wipers, o-rings, and bearings.
Clean and flush rams after rebuilding is complete.
Contractor will control all oil leakage
After rebuild reinstall cylinders and prove operation to ship's C/E.
Technical Manual 25-L

SR 1102559: SMOKE DETECTION SYSTEM, REPLACE

Contractor is to furnish all necessary labor, material and equipment to accomplish the following tasks on the Smoke Detection Systems on board the SS Cape Intrepid.

- ~ Contractor shall conduct a thorough inspection of the Smoke Detection Systems on board the vessel. Present system is a Firehold Marine Smoke Detection System, manufactured by Walter Kidde Aerospace. Systems include three (3) Cabinets, p/n K82269, and three (3) Pump Housings, p/n 53951-001, using 110vac, and for a total of fifty-four (54) Sampling points.
- ~ Contractor shall submit a proposal to replace the existing obsolete system with a new system equal to or better than, a SANTEC m/n ST-960, or ANSUL, p/n 432766.
- ~ New system is to be completely USCG & ABS approved.
- ~ Contractor is to provide the cost to procure the necessary system and all components and hardware.
- ~ Contractor is to provide a separate cost to remove the existing obsolete Kidde system and install the new system.

Contractor must be aware that no assistance will be provided by the vessel's crew, nor will any of the vessel's equipment be utilized in any removals or installations.

Contractor must also be aware that the same condition presently exists on the SS Cape Island, and future work of same will occur on this vessel as well.

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