AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGES
	1 12

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
0005	See Block 16C	MA-PR615-20121039	

6. ISSUED BY	CODE	7. ADMINISTERED BY *(If other than Item 6)*	CODE
U.S.DOT/ Maritime Administration Atlantic Div. Acquisition Office MAR-380-2 7737 Hampton Blvd Building 19 Suite 300 NORFOLK VA 23505-1204	00092	U. S. DOT Maritime Administration Atlantic Div. Acquisition Office MAR-380.2 7737 Hampton Blvd Building 19 Suite 300 Norfolk VA 23505-1204	00092

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*

Ocean Duchess, Inc
Attn: James P. McGregor
16211 Park Ten Place
Houston TX 77084-5113

CODE 760362534 FACILITY CODE

(x) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED *(SEE ITEM 11)*

X 10A. MODIFICATION OF CONTRACT/ORDER NO.
DTMA8C05020
ODI20A2012002

10B. DATED *(SEE ITEM 13)*
10/24/2011

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*
70XR161710.2012.93140MAY00.1261000000.25432.61006600 / 7012613140MAY0

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	FAR 52.243-2 Cost reimbursement change
	D. OTHER *(Specify type of modification and authority)*

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

FY12 MAY M&R REPAIRS A
LIST OF CHANGES:
Reason for Modification : Supplemental Agreement for work within scope

This modification changes the scope of work list items authorized without a change in funding or total authorized price. Specifically, eight additional work list items are authorized and four previously authorized work list items are removed. See attached Statement of Work with provides a STATUS SUMMARY of all work list items on the last page as of this Modification No. 0005.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*	16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*
John A. James VP.	Melinda Simmons-Healy
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	15C. DATE SIGNED 9/13/12
16B. UNITED STATES OF AMERICA *(Signature of Contracting Officer)*	16C. DATE SIGNED 09/13/2012

NAME OF OFFEROR OR CONTRACTOR
Ocean Duchess, Inc

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Previous Total: $1,127,131.00 Increase: $ 0.00 Grand Total: $1,127,131.00 Delivery Location Code: 00092-CAPE MAY CAPE MAY 8791 C Norfolk International Terminal PIER 3 Norfolk VA 23505 USA Payment: MARAD A/P INVOICES P.O.BOX 25710 OKLAHOMA CITY OK 73125 FOB: Destination Period of Performance: 10/24/2011 to 12/31/2012				

MODIFICATION 0005:

ADMINISTRATION CHANGES – SUMMARY:

DELETE 4506591 SHAFTING ALIGNMENT STRAIN GAUGE METHOD

CORRECT SR NUMBER FROM 4506432 TO 4506440 WATERTIGHT SIDE PORT REPAIR.

CORRECT SR NUMBER FROM 1601315 TO 1601297 #1 MAIN CIRC PMP MOTOR OVHL

A SUMMARY WORK LIST IS PROVIDED ON THE LAST PAGE

CAPE MAY - FY12 M&R REPAIRS A

PROJECT: ODI-MAY12-1005A

FY12 M&R REPAIRS
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.
Ship Manager is authorized to create additional SRs/MRs in NS5 to support this Task Order only if the additional SRs/MRs fall within the original scope of the work items described below on this Task Order. SM shall reference the supplemented original SR/MR # under "Remarks" in each new SR/MR. Furthermore, the Ship Manager is authorized to modify the description in their RFQ and PO documents, resulting from this Task Order, if required to improve their specification as more information becomes available during the Ship Manager's purchasing process - but only if the modified description falls within the scope of work items authorized in this Task Order.
(Work Item List)

DELETE THE FOLLOWING SR/WOs:

4502127	ELEVATOR UPPER SHEAVE BEARINGS INSPECTION
4502151	E.R. VENTILATION, REPAIR
4503228	CARGO HOLD LOWER DECK, PRESERVATION
4503258	LUBE OIL PURFIER; INSTALLATION
4505399	CONTROLLER, FORCED DRAFT FAN #2; REPLACE
4505427	CAMERAS, MONITORS, CARD READERS; PROCURE, MAINTAIN.
4505677	VIDMAR STORAGE SYSTEM INSTALLATION
4506316	TRANSPORTER REPAIRS
4506323	BRIDGE ALARM REPLACEMENT
4506431	STERN DOOR AND STRANSOM STEEL
4506436	BARGE ELEVATOR SHEAVE INSPECTION
4506445	SEWAGE TANK CLEAN INSPECT AND COAT
4506466	NAVIGATION LIGHTING PANEL
4506478	AUTOMATIC IDENTIFICATION SYSTEM
4506479	BRIDGE NAVIGATION WATCH ALARM SYSTEM
4506480	NAVTEX
4506577	HULL THICKNESS MEASUREMENTS SPECIALSURVEY

4506579 BARGE ELEVATOR SHEAVE INSPECTION
4506586 VENT FANS AND MOTORS
4506587 HVAC SYSTEM CLEANING
4506734 BALLAST TANK CHECK VALVE INSPECTION
1601050 POSITIONER REPAIRS / UPGRADE
1601147 MAIN ENGINE LUBE OIL TEMPERATURE CONTROL
1601241 DRYDOCK ADMINISTRATION
1601242 FY 12 FUEL
4505424 S.W. STRAINER, REPLACE
4506428 GANGWAY WEIGHT TEST
4504129 BARGE ELEVATOR COLUMNS: PRESERVE
4506591 SHAFTING ALIGNMENT STRAIN GAUGE METHOD

APPROVED SPECIFIC WORK ITEMS AS IDENTIFIED BELOW:

4502973 HOUSE DECK SURFACE REPLACEMENT- ASBESTOS

Contractor to furnish all labor and materials to chip out and clean existing concrete and tile flooring in lower crew cabin deck and crew cabin deck passageway. Approx. sq ft = 1150. Care shall be taken to cover and prevent clogging of all deck drains and shower drains. Areas under bunks shall also be accessed and will require removing bunks and re-installing. Any interferences and or furniture shall be removed to access full deck in staterooms and water closets. Shower floor areas to be renewed as well. Replacement flooring shall be of the epoxy resin quick drying pourable flooring in a aggregate green color. Color to be approved by Chief Engineer. Flooring to be USCG approved. Contractor shall apply and use all materials specified by USCG approved material manufacturer to accomplish a professional flooring installation. Bonding and sealing agents and any other necessary applications shall be accomplished as per manufacturer's specifications.
Crew stateroom C-36 - Electrician - Shall have entire stateroom floor and water closet renewed as above. Sq Ft = 250. Longshoreman's water closet shall have entire floor re-newed as above, Sq ft = 80 Wheelhouse flooring to be re-newed as above, sq ft 1200. Total Number of staterooms - 8 - Include 8 bunks. Stateroom's approx 135 sq ft including 1 water closet suite service. Total number of Water Closets - 6 - Include 5 showers Sq Footage of passageway - Approx 320. 90' x 3.5' Passageway has two tank top manholes which will need to be cut in with new flooring. Total Sq Ft = Approx 2700'

4505412 DRAIN PIPING AND MOORING STATIONS AFT STEEL REPAIR

The intent of this item is to renew selected areas of steel on and around the Mooring Stations 7, 8, 9, & 10 as specified. Renew deck access scupper in way of STBD void space at frame 129. The intent of this item is to crop and renew drain piping in way of #12 Wing Ballast Tank. New piping layout to be installed. Three new deck drains will be installed in way of #12P Wing Ballast Tank.

4505414 CARGO GEAR; REPAIRS

Provide all Labor and Materials to integrate the Elevator Controls, Transporter Controls and the Ship's Computer System. This will allow the Elevator Screens to monitor the transporter controls and vice versa and for the Chief Engineer's computer to monitor both systems. All controls will remain as they are.

4505415 MAKE UP RAILS, REFURBISH 2012

Contractor shall remove and renew all the track and transition track associated with the Make Up Rails on the Main deck. Contractor shall remove the old transition inserts, and make up rails in their entirety, scale, machine tool clean to SSPC-3 and weld in new contractor furnish SS studs as required. Contractor to paint surrounding studs and area before installation of the track.

4505418 HABITABILITY; REPAIR

The intent of this item is to upgrade and renew specific areas of crew berthing and rest spaces in order to attain and maintain habitability standards. ITEM LOCATION/DESCRIPTION
1 Two (2) Cabins
2 Master's Office

3 Crew's Lounge
4 Officer's Lounge

4505877 DECK DIESEL TANK MAINTENANCE
The intent of this item is to Replace the Deck Diesel fuel oil tank.

4505952 ELEVATOR GEAR CASE WINCH SEALS
The intent of this item is to change elevator gear case winch seals. Remove existing seals and replace with new split seals. Replace seals as specified by manufacturer. Existing seal is CHI-RAW, P/N 75036-P2. New seals will have to be split seals. Replace the cover on new contractor new contractor supplied fasteners. Clean housing split surfaces thoroughly and coat with a liquid sealing compound (Permatex No.2) non-hardening type or an equivalent type. This shall be performed before installing and securing upper housing to lower housing.

4506324 COATING PRESERVATION LOWER DECK
The intent of this specification is to clean, preserve and coat an area of the Lower Decks as indicated. Contractor shall furnish labor, materials and equipment to degrease, clean, scale, and prepare coat the Lower Cargo Hold Tank Top. Deck preparation shall be by pressure washing of all surfaces using 5000 psi 160 degree water to ensure all surfaces are degreased. This shall include all surfaces of the tank top, including but not limited to track rail, track rail fasteners, pedestals, lashing sockets. Location of work is the deck which includes the cargo pedestals. Entire deck from Port to Starboard. After degreasing has been completed, mechanically scale all deck surfaces, pedestals and lashing sockets to SSPC-SP3. Insides and outsides of pedestals shall be prepared 3" above the deck. Apply one (1) coat of surface tolerant epoxy primer at 4 mil DFT. This shall be followed with one (1) stripe coat of different shade. A final coat finish coat of surface tolerant epoxy shall be applied at 4 mil DFT. Final coat will be red to match existing. Paint used shall be International Paint Company FP series epoxy or equal.

4506432 ELEVATOR FENDERING REPAIR
The intent of this item is to renew the vertical fendering on the port and starboard sides of the elevator and repair the four pedestal cushions. Prepare and provide staging as required to crop and remove wood fendering. Fabricate new wood from oak, chamfering bottom section as the original. Remove and renew all securing bolts. Replacement fasteners shall be stainless. Straighten all retainers. Machine tool all exposed areas where wood has been removed. Prime and coat with two (2) coats of surface tolerant epoxy. Each coat shall be 5 mils DFT. Dispose of old wood and bolts. On each of the four (4) pedestals, remove the rubber cushion bumpers from the supporting I beam. Clean and remove the surface layer of metal and rubber. Machine tool clean the pedestal steel. Apply one coat of surface tolerant epoxy primer and two (2) coats of surface tolerant epoxy. Each coat shall be 5 mils DFT. Using new stainless fasteners, re-install the rubber cushion bumpers. Remove the rubber bumpers which are mounted on the elevator vertical and horizontal structures. Machine tool clean the channels in which the rubber bumpers mount. Prime and apply two (2)coats of surface tolerant epoxy. Each coat shall be 5 mils DFT.

4506437 ELEVATOR CABLE SLUSH
Contractor shall provide all labor and material to slush twelve (12) elevator winch wires. The wires are 564 foot long, 1 3/8" 6x41 zinc coated plow steel. Contractor shall slush the wires using NEVAMELT wire rope conditioner to the satisfaction of the owner's representative. The entire length of wire shall be slushed by having the elevator lowered to allow maximum wire exposure. Crew will operate elevator.

4506440 ~~4506432~~ WATERTIGHT SIDE PORT; Repair
Provide all labor, materials, and the services of qualified personnel to inspect, test operate, and provide a condition report to the Owner's Representative of findings of a total of TWO (2) side ports. Work scope shall include, but not be limited to, the inspection and testing of fasteners, grease fittings, door gaskets, and hydraulic oil system with cylinders. Provide necessary scaffolding or JLG to reach under the open doors and coat with same coating system as hull. In all areas where coatings are applied, each coat shall be 5 mils DFT.

4506447 TANK MANHOLE COVERS AND BOLTING RINGS; Repair
To open twelve (12) tank covers and repair bolting rings and renew studs and bolts.
Description: Ballast tanks 12 wings- 2 lids each, total 4 Roll Stabilizer upper access, fr 67 lower hold stbd outboard bulkhead- 1: Grand total 13. Replace broken studs with CRES bolts. Crop and remove stripped studs. Drill and tap cropped and broken studs. Estimate each cover requires seven new bolts. Estimate total 100 new studs.

4506448 BARGE RESTRAINER; Repair
The intent of this item is to repair the Barge Securing Air Operated Restrainer by disassembling and fabricating parts.

4506580 PORT LIGHT REPAIRS
The intent of this item is to repair leaking stateroom and other window port light seals. Remove all hardware, window, frame and securing fixtures for the stateroom windows indicated. Hardware includes 44 window border screws and 30 frame border screws. Contractor shall supply all hardware, steel, glass and brass. Each coating sequence shall be at 5 mils DFT. Most lights can be repaired from inside the vessel. If contractor opts to work from exterior, contractor shall supply JLG or staging as required. Remove window encasement sheet metal inserts which are secured by 26 sheet metal screws. Replace all damaged or wasted sheet metal inserts with new. Lower horizontal sheet metal insert shall be replaced with a double width 8” insert. Disassemble window frame assembly. Clean window and housing of old cement and gasket material. Clean window. Straighten window frame. Power tool window frame and encasement of loose material including all external window sill horizontal and vertical surfaces. Apply 1 coat of contractor furnished enamel primer to all disturbed metal surfaces. Apply two coats of contractor furnished grey epoxy to external surfaces before installing window. Apply Belzona or equal putty to imperfections in sealing surfaces before assembly. Furnish and install window with new nylon inserted neoprene rubber gasket material of original thickness. Material thickness to be approved by vessel representative before installation. Installation will include a light coat of Marine non-hardening sealant to all weather sealing surfaces. Install window encasement sheet metal. Clean entire window encasement, prime and paint with 2 coats of surface tolerant enamel to existing scheme.

4506583 CARGO HOLD EXHAUST AND SUPPLY FAN MOTORS; Repair
Provide all labor and material to disconnect, remove to a electrical repair facility, overhaul, and test the cargo hold supply and exhaust fan units.(total of 4 units) Contractor shall tag and electrically disconnect the fan units. Mechanically disconnect the fan units and rig off the vessel. Transport the units to an electric motor repair facility. Clean, dip, bake each fan motor. Balance the motor and reassemble with new bearing bush end bells if required. Clean and mechanically scale the motor housing, the fan blades and the fan blade housing. Contractor balance each of the fans. Transport units back to the vessel and rig in place. Reinstall the fan units providing all new fasteners and expansion joints. Electrically hook up the units and test operates to the satisfaction of the owner’s representative.

4506588 PORT AND STARBOARD LIFEBOAT REPAIRS
Contractor to provide all labor material and equipment to coat the outside surface of both lifeboats. Prepare all surfaces which shall include the areas under existing name, reflective tape and capacity stencils on both sides of two lifeboats and coat areas. Contractor to remove both lifeboats from vessels davits and transport to shop. Contractor shall remove the lifeline in it's entirety and dispose. Contractor shall remove the rubber fenders until coating of the vessel is complete. Prepare surface for coating by washing the boats with detergent to remove any contamination, then orbital sand all surfaces to remove loose coatings, imperfections and existing gloss. Contractor shall provide a condition report on any damaged fiberglass. Mask openings and all areas not readily painted International Orange After preparation apply one full coat of epoxy primer (KH303) and one full coat of a polyurethane (orange) top coat (PHD260). Finish to be smooth and uniform. Upon completion of coating application, re-stencil the names and capacities on the two lifeboats and install new reflective tape, both sides as original.

Contractor to adjust lifeboat doors and fair up frames that may be bent or binding, renew door gaskets, lubricate as necessary to ensure free movement of all doors. Contractor shall re install the rubber fenders using new 316 stainless steel fasteners(1/4" x 20 carriage bolts and nuts) and rings (34 per boat) and re seal the joint between the top and bottom molded flanges. Contractor shall furnish and install a new lifeline including wooden floats (32 per boat).

4506590 CARGO HOLD SUPPLY PLENUMS: Preservation.
Open each of the main deck plenums. Remove and restore manhole covers. Open ducts at entry and exit points.The duct work sections running fore and aft and 'thwartships is rotted and deteriorated along it's entire run. Machine tool clean portions which are intact Identify duct sections which are deteriorated and submit a condition report. Renew and coat throughout, on inside and outside. On inside, apply one (1) coat of surface tolerant epoxy primer and one (1) coat of surface tolerant epoxy paint. On exterior ducting apply one (1) coat of surface tolerant epoxy primer and two (2) coats of surface tolerant epoxy.

DELETE ~~4506591 SHAFTING ALIGMENT STRAIN GAUGE METHOD~~
~~Contractor shall provide the services of a qualified engineering firm to perform a shafting study in preparation of main propulsion shaft alignment by the strain gauge method. The alignment contractor shall be pre approved by owner before work is commenced. Contractor shall provide a complete report in three (3) written copies and one (1) disk PDF upon completion of work item. As found main propulsion shaft alignment condition on shafting systems:~~
~~Acquire shaft alignment readings afloat, prior to being dry docked by the strain gage method, preferably after arrival at repair facility. Final main propulsion shaft alignment condition on shafting systems:~~
~~Contractor shall perform a second alignment check using the strain gauge method after the tail shaft item has been executed and the vessel is afloat. Perform any required alignment corrections by adjustment of the line shaft bearings.~~
~~Contractor shall provide and install pre-wired, full bridge circuits containing weld-on gages and quality connectors. When placing new gages on the shafts every effort must be made to mitigate sources of error including those associated with axial position, radial position, angular position, bonding, and signal transmission. Signal transmission errors encompass every influence affecting the displayed strain value including gage excitation, wiring & connection resistances, instrument calibration, and electrical interference. The number and location of the bridge circuits is to be chosen to optimize strain measurement accuracy within the constraints of the shaft arrangement. Prior to recording strain readings the shaft is to be rotated one complete turn in the ahead direction and one complete turn in the astern direction. Shaft rotation during actual strain readings can be in either direction but must be noted in the data collection sheet. No less than four strain readings are to be recorded at each gage station in units of mirco-strain; the minimum four readings correspond to when the reference position is at the Top, Port side, Bottom, and Stbd side. In addition to strain readings, sufficient supporting information shall be recorded during each set of alignment readings to completely document the condition of the vessel and machinery at the time the readings. Supporting information shall include:~~

~~Vessel drafts and displacement~~
~~Ambient weather conditions and temperature~~
~~Machinery space temperatures~~
~~Machinery and bearing temperatures~~
~~Sea water temperature~~

~~The resulting strains measured at each 90 degrees of shaft rotation, shall be recorded and entered into the mathematical model, to yield the bearing loads that must exist to have produced the mix of measured strains.~~

4506592 AFT STORES CRANE REPAIR
The intent of this item is to inspect and troubleshoot hydraulic problems with the Stores Crane.

4506744 FLOAT FOR ACCOMMODATION LADDER; Removal

The intent of this item is to remove the Accommodation Ladder Float from the vessel and to scrap.

1600870 ASBESTOS REMOVAL AND INSULATION REPAIR- 2012

The intent of this item is to fabricate piping insulation pads and abate identified areas of asbestos. To dispose of asbestos containing insulation in accordance with all applicable state and federal regulations. Contractor shall provide, tools, test equipment and labor to perform the following:
Remove, fabricate and install at designated areas insulation and pads per the below listed items as follows:

Item # description:

1. Forward cross breezeway air duct ventilation (grey) -approx (60) sf, 13' of 12"x 30" x 12" duct.
2. A/c circ valves and strainers - 4 lf of 4" pipe with (2) 90s, (2) 4" valves, (2) 4" strainers
3. Chill water pump, chill water in -(1) 4" valve
4. Chill water piping above port main circ motor -10 lf of 4" pipe, 7 lf of ½" pipe, (1) 1" valve
5. Starboard boiler superheater vent valve blanket -(1) 1" valve , encapsulate 2 lf of ½" pipe
6. Piping over outboard feed pump, re-apply cloth -3 lf of 6" pipe, 4 lf of 4" pipe
7. Stbd boiler #2 burner fo piping-1 lf of 1" pipe, including a 1"valve and elbow
8. Atomizing steam into #1 burner stbd boiler -blanket over pipe strap, 1 lf of 1" pipe
9. S.h. vent relief valve flange blanket, lower er -3" flange, encapsulate 2 sf loose material around pipe.
10. Whistle valve blanket, by dc heater -1-1/4" valve, 2 lf
11. #2 main feed pump steam drain valve blanket -1-1/2" valve, 3 lf of 1-1/2" pipe
12. Check valve blanket, feed inlet, fwd steam drum port boiler -2.5 lf of 4" pipe, (1) 4" check valve.
13. Generator stop valve blanket, port boiler -4" angle valve, encapsulate 90* bend, 3 lf of 4" 90*
14. Check valve blanket, feed inlet, fwd steam drum stbd boiler -2.5 lf of 4" pipe, (1) 4" check valve
15. Economizer outlet valve blanket, stbd boiler -6" valve , 5 lf
16. #2 feed pump gland leak off and recirc pipes and blankets -(1) 2" valve, 7 lf of 2" pipe, (1) 2" check valve, (2) 2" flanges
17. #2 evap air ejector drains & valve blankets -(2) ¾" valve , 5 lf of ¾" pipe
18. Steam drum stbd boiler manhole covers fwd and aft -(2) blankets, approx 12 sf each
19. Port boiler bottom blow valve blanket -(1) 2" valve, 4 lf of 2" pipe
20. Stbd boiler bottom blow valve blanket -(1) 2" valve, 5 lf of 2" pipe
21. Port boiler s.h. drain valves -(2) 1" valves, 2 lf of 1" pipe
22. Stbd boiler s.h. to control desuperheater (steam drum) -(1) 4" flange blanket, encapsulate 2 lf up to metal shield
23. 860/140 station relief valve flange blanket -(1) 2" flange
24. 860/140 station regulating valve blanket -(1) 2" valve, 2lf
25. Air ejector steam inlet #1 generator -(1) 1" valve, 3lf of 1" pipe
26. Stbd boiler water level indicator valve -(1) 1/2" angle valve blanket
27. Strainer blowdown flange blanket -3 lf of 2' pipe, (1) 2" valve, encapsulate 4 lf of 2" pipe (1) 6" strainer cover blanket, 18" diameter, consisting of an 8" circular collar, and 2 sf of blanket material with a 2" hole in the center

1601049 GAUGE CALIBRATION AND REPLACEMENT

The intent of this item is to calibrate gages and meters as listed.

Main Engine Room;
83 Pressure Gages located in Engine room
42 Thermometers

1601152 BARGE RETRIEVING WINCHES: Repairs / Slushing

Contractor to supply labor and materials to replace wires on 4 Barge Retrieving Winches located on the port and starboard poop decks (150' of 3/8'' diameter. 6 x 37, galvanized wire rope). Wires to be slushed before installation with vessel approved slushing compound. Contractor to provide labor and materials to replace the associated hardware to connect barge retrieving wires to Barge position Wires (barge mooring wire and 1-7/8'' missing link) 4 total. Contractor to provide labor and materials to remove, disassemble, inspect, overhaul 4 Barge Retrieving Winches consisting 4 Cardwell AC Motors and cable drums. Contractor to provide labor and materials to mechanically scale winch, drum and winch foundation, apply 2 coats of epoxy primer and 1 topcoat. Replace foundation fasteners equal to original. Contractor to provide labor and materials to drain and flush gear box and replace oil.

4506433 PORT MAIN CIRCULATING PUMP; Repairs
The intent of this item is to remove the Port Main Circulating Pump and motor from the vessel to the shop and overhaul. Disconnect the coupling and piping to the pump. If vessel is in water, ensure all valves are closed and tagged. A blank shall be placed over the inlet outlet piping.
Disconnect the motor electrically. Perform and record megger readings of windings. Submit report to Owner's Representative. Remove and restore all interferences. Provide riggers to rig out the pump and the motor. Provide crane service to lift pump and motor from vessel. Deliver pump and motor to their respective shops. Open pump, remove the rotating assembly and disassemble. Check clearance between case rings and impeller rings. Provide and install new monel case and impeller wear rings. Provide new shaft sleeves. Take and record shaft TIR. Submit condition report. Provide two (2) new bearing housings of C-40 cast iron. Provide two (2) new cover plates of C-40 cast iron. Provide new thrust and line bearings. Inspect and examine impeller. Submit condition report. Perform all required machining to install new contractor furnished mechanical seals complete and spiral track separator. Reassemble rotating element using the new items from above. Dynamically balance the rotating element. To be witnessed by Owner's representative. Reassemble pump using the new items from above including contractor furnished new "O" rings and gaskets. Disassemble motor. Wash motor and all components. Check shaft TIR and report. Check key way. Varnish dip and bake windings. Replace the two (2) bearings with new contractor supplied SKF sealed bearings. Clean end bells, bore and install new bearing bushings if required. Balance the rotor and provide balance report. Machine tool clean to SP-3 any areas where the foundation coating is deteriorated on the vessel. Apply two (2) coats of surface tolerant epoxy. Each coat shall be 5 mils DFT. Final coat to be same as existing coat. Deliver pump and motor back to vessel from shop. Install pump and motor on vessel. Align pump with the motor using laser alignment tool. Make all electrical connection. Ensure proper rotation. Connect all piping using new gaskets and stainless fasteners. Test operate unit take vibration and amp probe readings while operating to prove proper operation.

ADDITIONAL SPECIFIC WORK ITEMS IDENTIFIED BELOW NOT LISTED IN FY12 APPROVED BUSNESS PLAN:

1601297 ~~1601315~~ #1 MAIN CIRC PMP MOTOR OVERHAUL
Disconnect the STBD motor electrically, mark each lead for identification at re-installation, perform meger readings and submit results with final service report. Uncouple the motor from the pumps; inspect the coupling grid member and coupling. It is intended the same coupling and grid member will be re-used at re-assembly. Detach the motor from its foundation. The Contractor is to mark the location where chalks and shims where removed for use at re-assembly. Rig the motor out of the vessel and deliver to a motor repair facility. The motor repair facility shall disassemble the motors, inspect bearing housings and rotor journals and TIR check the rotor. The motor repair facility shall clean, dip and bake the motor. Dynamically balance the rotors. Re-assemble the motor using new bearings and seals.
CHECK POINT: Test operate the motor for a period of one hour running at both speeds. The Port Engineer or his designated representative is to witness the shop test. Deliver the motor back to the vessel and install. The Contractor shall align the motor to the pump, coupling gap 3/16 and MAX. TIR face and rim .003. Make up the electrical leads, clear all lockouts and tag outs, verify rotation, standby while the vessel test operates the motor for not less than one hour.

1601307 GALLEY SINK PIPING DRAIN REPAIR
Replace the drain piping, valves and clear the drain where it passes through the deck.

1601315 STARBOARD BOILER OPEN ROOF TO ACCESS TUBES and repair tubes
The intent of this item is to remove the inner and outer casing of the roof to expose the tubes in order to locate the leaking tubes. When tubes are located, plug tubes and test. Provide labor, materials and tools to perform the following: Cut inner and outer casing to expose roof tubes. Remove all insulation in the roof. Locate leaking tube(s) and plug. Perform a hydro test as directed by the chief engineer. Restore all insulation. Restore inner and outer casing by welding.

1601359 TAILSHAFT HARDNESS TEST; Perform.
Perform hardness testing on journal bearing in way of #1 line shaft bearing.
Hardness being pursued pursuant to damage by wiping of bearing.

1601308 DINING ROOM DECKS; RESTORE
The crew and officer dining room decks are badly deteriorated, present a health hazard and need of restoration. Location: Dining Rooms Fr 30 to 34.
Identification:
1. Officers Dining Approx. 400 SQ/FT
2. Crew Dining Approx. 400 SQ/FT
Reference: Phoenix One Step MIL-PRF-24613
The Contractor shall remove all interferences in the officers dining and crew dining rooms, interferences are all items loose or portable by means of detaching from its fixed location. The vessel will designate the temporary storage area for stowing interferences. The Contractor will cover all supply, exhaust ventilation, smoke detection and thermostats. The Contractor shall remove all tile and combing, the existing underlayment will remain and become a part of the final product. Where underlayment has been compromised the Contractor shall include 20% underlayment repairs as a part of this work order.
Check Point: The Contractor shall present the decks for inspection prior to the application of the flooring product. The Port Engineer or his designative representative will choose the final color of the flooring product. The Contractor shall apply the flooring product IAW the manufacturers guidelines. Two sealing coats will be required. When the flooring product is complete the Contractor shall install new combing around the periphery of the dining rooms. The color of the combing will be chosen by the Port Engineer or his designated representative. Check Point: Before restoring interferences the Contractor shall present the dining room for inspection. All protective covering will be removed; overheads, bulkheads and fixed items will be inspected to be dust free. The Contractor shall restore interferences.

1601353 FABRICATE SPRING
Fabricate spring for 5" Atlas pressure regulating valve.

1601449 DECK DIESEL TANK OUTLET FLANGE Modification
The intent of this item is to modify the 3" BPT SS BPT outlet flange on the new 6000 gallon deck diesel storage tank.

4507567 FIRE PUMP OVERHAUL ENGINE ROOM FIRE PUMP
The pump is to be rigged out of place by the contractor. It will be the responsibility of the contractor to move the pump about the ship and onto the pier. At the discretion of the chief engineer, the crew may be directed to assist the contractor by operating ships equipment, such as material hoists and cranes, for the sole benefit of the contractor. The pump is to be disassembled and inspected at the contractor's shop. The port engineer shall be notified within (3) days of removal from the ship, the condition of the pump internals. The following items must be replaced: bearings, gaskets, and mechanical seals. The following are to be replaced or repaired only if inspection warrants: impeller wearing rings, shaft sleeves, shaft, impeller, and coupling. The bid must be itemized to reflect the cost to replace or repair each item, should it be necessary. A report will be submitted to the port engineer, documenting the criteria used to

determine which repairs or replacements should be made. The port engineer will then provide authorization to continue. The inside of the casing is to be sand blasted and coated with an epoxy coating, as specified by the port engineer. All other repairs are to be made according to the manufacturer's instructions, to bring the pump back to factory tolerances.

4507604 #1 ADT PUMP AND MOTOR REPAIR
Remove and repair pump and motor. The repair facility shall remove the pump rotating element and inspect the pump and case internals for any unusual conditions. Any unusual condition is to be immediately reported to the Port engineer. The pump runner is to be stripped of all parts; the pump shaft is to be checked for straightness, max TIR .002. Perform a complete inspection and report to Port Engineer. New Thrust bearings are to be installed. A new Mechanical Seal is to be provided and installed. All soft parts such as gaskets, seals and "O" Rings are a part of this delivery order without identification. All parts that have been replaced will be returned to the vessel for disposal. The pump rotating element is to be dynamically balanced. The pump rotating element is to be installed in the casing and pressure tested to 60 psi. MOTOR OVERHAUL The motor shall be meger tested immediately upon arrival at the repair facility. The motor shall be disassembled, cleaned, dipped and baked. The motor rotating assembly shall be dynamically balanced. The motor shall be assembled with new bearings and seals. The repaired motor shall be assembled and shop bench tested for one hour.
INSTALLATION
The Contractor shall deliver the motor and pump back to the vessel for installation.
The Contractor shall make the pump up to it's foundation and piping using new gaskets and S/S fasteners.
The Contractor shall make the motor up to the pump support bracket using new S/S fasteners.
Check Point: The Contractor shall demonstrate to the vessel pump to motor coupling gap (3/16) and pump to motor alignment (.003 face and rim).
The Contractor shall electrically connect the motor, the vessel will clear tags and test operate the pump for not less than 30 minutes.

1601748 BARGE ELEVATOR SHEAVE BLOCK #8 PIN; REPAIR
The intent of this item is to drive in the guide pin on #8 Sheave Block and weld a securing plate.
Contractor shall provide labor, materials and equipment to perform the following:

1. With assistance from crew provide sufficient slack on the cable so that the sheave can be flexible to move.
2. Provide necessary staging to reach the pin. Proximity of water at edge of elevator will require wearing of PFDs while aloft on staging.
3. Determine best method to re-insert pin to its home position.
4. Fabricate and weld a retainer preventer plate over the pin.
5. Provide a fire watch at all times while hot work is in progress.
6. Restore all new and disturbed coatings to match original.

WORK LIST - Modification No. 5 - STATUS SUMMARY

SR	DESCRIPTION	STATUS
1600870	ASBESTOS REMOVAL AND INSULATION REPAIR-2012	Authorized by Original Task Order
1601049	GAUGE CALIBRATION AND REPLACEMENT	Authorized by Original Task Order
1601152	BARGE RETRIEVING WINCHES	Authorized by Original Task Order
1601297	#1 MAIN CIRC PUMP MOTOR OVERHAUL	Authorized by MOD 5
1601307	GALLEY SINK PIPING DRAIN REPAIR	Authorized by MOD 5
1601308	RESTORE DINING ROOM DECKS	Authorized by MOD 5
1601315	STARBOARD BOILER REPAIR	Authorized by MOD 3
1601353	FABRICATE SPRING	Authorized by MOD 5
1601359	TAILSHAFT HARDNESS TEST	Authorized by MOD 3
1601449	DECK DIESEL TANK OUTLET FLANGE	Authorized by MOD 5
1601748	REPAIR BARGE ELEVATOR SHEAVE BLOCK #8	Authorized by MOD 5
4502973	HOUSE DECK SURFACE REPLACEMENT- ASBESTOS	Authorized by Original Task Order
4505412	DRAIN PIPING, BALLAST PIPING REPAIRS	Authorized by Original Task Order
4505414	CARGO GEAR; REPAIRS	Authorized by Original Task Order
4505415	MAKE UP RAILS, UPP. DK PORT; REFURBISH	Authorized by Original Task Order
4505418	HABITABILITY; REPAIR	Authorized by Original Task Order
4505877	DECK DIESEL TANK MAINTENANCE	Authorized by Original Task Order
4505952	ELEVATOR GEAR CASE WINCH SEALS	Authorized by Original Task Order
4506324	COATING PRESERVATION LOWER DECK	Authorized by Original Task Order
4506432	ELEVATOR FENDERING REPAIR	Authorized by Original Task Order
4506433	PORT MAIN CIRC PUMP REPAIR	Authorized by MOD 3
4506437	ELEVATOR CABLE SLUSH	Authorized by Original Task Order
4506440	WATERTIGHT SIDE PORT	Authorized by Original Task Order
4506447	TANK MANHOLE COVERS AND BOLTING RINGS	Authorized by Original Task Order
4506448	BARGE RESTRAINER	Authorized by Original Task Order
4506580	PORT LIGHT REPAIRS	Authorized by Original Task Order
4506583	CARGO HOLD EXHAUST AND SUPPLY FAN MOTORS	Authorized by Original Task Order
4506588	PORT AND STARBOARD LIFEBOAT REPAIRS	Authorized by Original Task Order
4506590	CARGO HOLD SUPPLY PLENUMS	Authorized by Original Task Order
4506592	AFT STORES CRANE REPAIR	Authorized by Original Task Order
4506744	FLOAT FOR ACCOMMODATION LADDER	Authorized by Original Task Order
4507567	OVERHAUL ENGINE ROOM FIRE PUMP	Authorized by MOD 5
4507604	#1 ADT PUMP AND MOTOR REPAIR	Authorized by MOD 5
1601050	POSITIONER REPAIRS/UPGRADE	Removed by MOD 3
1601147	MAIN ENGINE LUBE OIL TEMPERATURE CONTROL	Removed by MOD 3
1601241	DRY DOCK ADMINISTRATION	Removed by MOD 3
1601242	FY 12 FUEL	Removed by MOD 3
4502127	ELEVATOR UPPER SHEAVE BEARINGS: INSPECT	Removed by MOD 3
4502151	E.R. VENTILATION; REPAIR	Removed by MOD 3
4503228	CARGO HOLD LOWER DECK, PRESERVATION	Removed by MOD 3
4503258	LUBE OIL PURIFIER; INSTALL	Removed by MOD 3
4504129	BARGE ELEVATOR COLUMNS: PRESERVE	Removed by MOD 5
4505399	CONTROLLER, FORCED DRAFT FAN #2; REPLACE	Removed by MOD 3
4505424	S.W. STRAINER; REPLACE	Removed by MOD 5
4505427	CAMERAS, MONITORS, CARD READERS	Removed by MOD 3
4505677	VIDMAR STORAGE SYSTEM INSTALLATION	Removed by MOD 3
4506316	TRANSPORTER REPAIRS	Removed by MOD 3
4506323	BRIDGE ALARM REPLACEMENT	Removed by MOD 3
4506428	GANGWAY WEIGHT TESTS	Removed by MOD 5
4506431	STERN DOOR AND TRANSOM STEEL	Removed by MOD 3
4506436	BARGE ELEVATOR SHEAVE INSPECTION	Removed by MOD 3
4506445	SEWAGE TANK CLEAN INSPECT AND COAT	Removed by MOD 3
4506477	NAVIGATION LIGHTING PANEL	Removed by MOD 3
4506478	AUTOMATIC IDENTIFICATION SYSYTEM	Removed by MOD 3
4506479	BRIDGE NAVIGATION WATCH ALARM SYSTEM	Removed by MOD 3
4506480	NAVTEX	Removed by MOD 3
4506577	HULL THICKNESS MEASUREMENTS SPECIAL SURVEY	Removed by MOD 3
4506579	BARGE ELEVATOR SHEAVE INSPECTION	Removed by MOD 3
4506586	VENT FANS AND MOTORS	Removed by MOD 3
4506587	HVAC SYSTEM CLEANING	Removed by MOD 3
4506591	SHAFTING ALIGMENT STRAIN GAUGE METHOD	Removed by MOD 5
4506734	BALLAST TANK CHECK VALVE INSPECTION	Removed by MOD 3