

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES	
			J	1	27
2. AMENDMENT/MODIFICATION NO. 0001	3. EFFECTIVE DATE 10-Aug-2007	4. REQUISITION/PURCHASE REQ. NO. W42HEM71800171		5. PROJECT NO.(If applicable)	
6. ISSUED BY USACE, CONTRACTING DIVISION ATTN: CEMVN-CT, ROOM 172 7400 LEAKE AVE. NEW ORLEANS LA 70118-3651	CODE W912P8	7. ADMINISTERED BY (If other than item 6) See Item 6		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. W912P8-07-T-0167	
			X	9B. DATED (SEE ITEM 11) 31-Jul-2007	
				10A. MOD. OF CONTRACT/ORDER NO.	
				10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended. Offer 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 ACKNOWLEDGMENT 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)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
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:					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Solicitation W912P8-07-T-0167 to drydock and repair the Tow boat Kent is hereby amended as follows: 1. On Page 9, change the quantity in Paragraph 6.1.6 from 20 to 50 lineal feet. 2. On Page 14, delete the second line in the table under paragraph 8.9.2 (Texas Deckhouse and Plothouse, from the deck up 15" - slate gray - 16187).					
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)		
			TEL: _____ EMAIL: _____		
15B. CONTRACTOR/OFFEROR _____ (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED 10-Aug-2007	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION SF 1449 - CONTINUATION SHEET

The following have been modified:

SUPPLIES OR SERVICES AND PRICES/COSTS

<u>CLIN</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>U/I</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
0001	3 Drydocking	1	JB	_____	_____
0002	4 Gas Freeing and Gas Free Certificate	1	JB	_____	_____
0003	5 Ultrasonic Testing	1	JB	_____	_____
0004	6.1.1 1/4" Steel Plate (OPTIONAL)	100	SF	_____	_____
0005	6.1.2 5/16" Steel Plate (OPTIONAL)	100	SF	_____	_____
0006	6.1.3 3/8" Steel Plate (OPTIONAL)	100	SF	_____	_____
0007	6.1.4 1/2" Steel Plate (OPTIONAL)	100	SF	_____	_____
0008	6.1.5 Structurals (OPTIONAL)	500	LB	_____	_____
0009	6.1.6 Rubrail (OPTIONAL)	50	LF	_____	_____
0010	7.1 1/4" Fillet Weld (OPTIONAL)	100	LF	_____	_____
0011	8 Cleaning and Painting	1	JB	_____	_____
0012	9 Propellers, Propeller Shafts, and Bearings	1	JB	_____	_____
0013	9.1.1 Stern Tube Bearing (OPTIONAL)	2	EA	_____	_____
0014	9.1.2 Strut Tube Bearing (OPTIONAL)	2	EA	_____	_____

W912P8-07-T-0167

0015	9.2 Main Engine Alignment (OPTIONAL)	2	EA	_____	_____
0016	10 Anodes (OPTIONAL)	12	EA	_____	_____
0017	11 Compressed Air System	1	JB	_____	_____
0018	12 Daytank Fuel Shutoff	1	JB	_____	_____
0019	13 Main Engine Guards	1	JB	_____	_____
0020	14 Bilge Alarm System	1	JB	_____	_____
0021	15 Whistle Light	1	JB	_____	_____
0022	16 Fire Detection System	1	JB	_____	_____
0023	17 MSD Vent	1	JB	_____	_____
0024	18 Scupper Drain Pipe	1	JB	_____	_____
0025	19 Main Deck Flooring	1	JB	_____	_____
0026	20 Shower Pans	1	JB	_____	_____
0027	21 Seachest Valves And Discharge Valves	1	JB	_____	_____
0028	22 Sea Strainer	1	JB	_____	_____
0029	23 Hull Penetrations	1	JB	_____	_____
0030	24 Release Hook Removal	1	JB	_____	_____
0031	25 Searchlight	1	JB	_____	_____
0032	26 Keel Cooler Replacement	1	JB	_____	_____
0033	27 CO2 Storage Vent	1	JB	_____	_____
	TOTAL				_____

DATES OF PROPOSED DRY DOCK PERIOD _____

NOTES:

1. Offers in response to this solicitation/RFQ can be forwarded by either personal delivery, regular mail, email, or fax to arrive by the date and time specified in Block 8 of this form. **OFFERS ARE NOT TO BE PLACED IN THE BID BOX** located in the New Orleans District Contracting Division Office. Addresses for responses are as follows:

Physical Address: U.S. Army, Corps of Engineers, Contracting Division,
Attn: Katrina Pelrean (CEMVN-CT-P)
7400 Leake Ave
New Orleans, LA 70118

Mailing Address: U.S. Army, Corps of Engineers, Contracting Division,
Attn: Katrina Pelrean (CEMVN-CT-P)
P.O. Box 60267
New Orleans, LA 70160-0267

Fax to: (504) 862-2880

Email to: Katrina.d.pelrean@mvn02.usace.army.mil

2. The Government's standard payment terms are NET 30. If Offerors desire to submit alternative discount terms, please include in Block 12 for consideration.

3. Contractor must be registered in the Central Contractor Registrator before award can be made. Register or update information at www.ccr.gov.

DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

1 SCOPE (INFORMATION). The Contractor shall furnish all management, supervision, labor, subcontracting, services of manufacturer's representatives and all facilities, utilities, equipment, tools, lubricants, fuels, materials and articles (excluding Government-furnished property) required to fully execute the Mandatory and Contracting Officer authorized Optional work items specified herein.

1.1 VESSEL DATA (INFORMATION). The KENT is a welded steel towboat 85' long, 32' wide and 10'-6" deep. The light displacement is 304 long tons. The loaded displacement is 410 long tons. Loaded draft is approximately 8'-6".

NOTICE: THE INTERIOR SURFACES OF THE VESSEL ARE COATED WITH PAINT CONTAINING LEAD. The Contractor shall perform all work in strict accordance with Federal, State, and Local regulations, laws, codes and practices regarding lead paint removal. The Contractor shall provide copies of all completed hazardous waste manifests to the Contracting Officer.

1.2 CONTRACTOR QUALITY CONTROL AND GOVERNMENT QUALITY ASSURANCE (INFORMATION). The Contractor shall establish and maintain a quality control plan as specified in Section E, Inspection and Acceptance. The Government will evaluate the Contractor's performance in accordance with the Quality Assurance Surveillance Plan as specified in Section E, Inspection and Acceptance.

W912P8-07-T-0167

2 APPLICABLE PUBLICATIONS (INFORMATION). The following publications form part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only. The latest revision shall be used unless otherwise specified.

2.1 American Bureau of Shipping (ABS).

Rules for Building and Classing Steel
Vessels for Service on Rivers and
Intracoastal Waterways

2.2 American Society of Mechanical Engineers (ASME).

BPVC Boiler and Pressure Vessel Code

2.3 American Society for Testing and Materials (ASTM).

A36 Structural Steel

2.4 American Water Works Association (AWWA).

C652 Disinfection of Water Storage Facilities

2.5 Federal Regulations (CFR).

29 CFR 1915 Occupational Safety and Health Standards
for Shipyard Employment

46 CFR Subchapter F Marine Engineering

46 CFR Subchapter J Electrical Engineering

2.6 Federal Standards (Fed. Std.).

595 Colors

2.7 Manufacturers' Standardization Society of the Valve and Fittings Industry, Inc. Standard Practice (MSS).

SP-61 Pressure Testing of Steel Valves

2.8 National Board of Boiler and Pressure Vessel Inspectors (NBBI).

NBIC National Board Inspection Code

2.9 Steel Structures Painting Council (SSPC)

SSPC-SP 1 Solvent Cleaning

SSPC-SP 3 Power Tool Cleaning

SSPC-SP 10 Near White Blast Cleaning

3 DRYDOCKING (CLIN 0001). Drydock the vessel and hold it on drydock

W912P8-07-T-0167

until all underwater repairs, cleaning, painting and drydock inspections are complete and all painting up to the deck is thoroughly dry. Pump all bilges dry and dispose of the contents in accordance with all Federal, State and Local regulations.

4 GAS FREEING AND GAS-FREE CERTIFICATE (CLIN 0002).

4.1 Before beginning any hot work, clean and gas-free the affected spaces as required by 29 CFR 1915. Spaces requiring the gas-freeing shall be "Safe For Workers and Safe for Hotwork".

4.2 Test and certify the affected spaces in accordance with 29 CFR 1915. Testing and certification shall be accomplished by a Marine Chemist certified by the National Fire Protection Association, a US Coast Guard authorized person, or a "competent person" as required for the type of work.

4.3 Maintain the affected spaces in a "Safe for Workers and Safe for Hotwork" condition until all hotwork is complete. Inspect and test each affected space in accordance with 29 CFR 1915 to insure that the condition within the space is maintained.

4.4 Furnish and display the Marine Chemist certificate in the immediate vicinity of the affected operation. Furnish one additional copy to the Government Inspector.

4.5 The cost of testing and providing gas-free certificates shall be included in this item. The cost of cleaning and gas freeing the affected spaces shall be included in and proportioned among the bid prices for each item of work requiring cleaning and gas-freeing.

5 ULTRASONIC TESTING (CLIN 0003). Furnish the required instruments and services of an ultrasonic technician to gauge the thickness of the hull plating and keel coolers at the 240 locations defined below:

- (1) Nine hull belts, ten shots per belt (six on the bottom, two on each side, two and four feet off the bottom), nine inches aft of frames 3, 9, 15, 20, 25, 30, 34, 40, and 46.
- (2) 150 shots on the keel coolers, one shot every five feet.

5.1 Indicate the location of the ultrasonic gauge reading and the plate thickness at each location on a copy of drawing 100-1011, Keel Cooling and Piping. Furnish the report to the Government Inspector within seven calendar days after the vessel is drydocked. The price shall include any related services such as electricity, water, and surface preparation necessary to take the ultrasonic readings.

6 RENEWAL OF PLATING AND STRUCTURALS (OPTIONAL). Crop out and renew plating and structurals with new steel conforming to ASTM A36 where directed by the Contracting Officer. All renewals shall duplicate existing construction in size, type and shape. Welding of new plating shall be

W912P8-07-T-0167

continuous butt welds all around with a seal weld on the inside. Welding of plating to structurals shall be as original and not less than that recommended by the American Bureau of Shipping "Rules for Building and Classing Steel Vessels for Service on Rivers and Intracoastal Waterways." The cost of all welding, fairing up of existing plating, staging and cleaning and painting of weld areas shall be included in this item. Actual quantities may be more or less than the estimated quantities. The following quantities will be used to evaluate bids:

- 6.1.1 1/4" Steel Plate - 100 Sq. Ft. (CLIN 0004) (OPTIONAL)
- 6.1.2 5/16" Steel Plate - 100 Sq. Ft. (CLIN 0005) (OPTIONAL)
- 6.1.3 3/8" Steel Plate - 100 Sq. Ft. (CLIN 0006) (OPTIONAL)
- 6.1.4 1/2" Steel Plate - 100 Sq. Ft. (CLIN 0007) (OPTIONAL)
- 6.1.5 Structurals - 500 Lbs. (CLIN 0008) (OPTIONAL)
- 6.1.6 Rubrail - 50 Lineal Feet (CLIN 0009) (OPTIONAL)

6.2 All welded joints in the exterior shell of the hull shall be tested with a water hose at a pressure not less than 50 psi, with a nozzle of not less than 1/2 inch in diameter and held not more than 10 feet from the joint being tested. Testing shall be done after all work has been cleaned as provided for in these specifications, all faulty plating and structure has been renewed, all alterations have been completed and prior to painting. Prove joints watertight to the Government Inspector.

6.3 Welding of leaks in existing structure or members discovered as a result of testing performed in paragraph 6.2 will be accomplished in accordance with paragraph 7. Welding of leaks in material installed or connections made by the Contractor shall be done by the Contractor without additional cost to the Government. After the vessel is undocked, a thorough examination of the hull will be made for leaks by the Government Inspector. If leaks are found, the Contractor shall drydock the vessel, make the necessary repairs and undock the vessel at his expense if the leaks are found in material installed or connections made by him.

7 WELDING (OPTIONAL). Furnish welders and qualified welding operators, fully equipped, including staging and consumables, prepare joints and apply welding as directed by the Contracting Officer. The following quantities will be used to evaluate bids:

- 7.1 1/4" Fillet Weld - 50 Linear Feet (CLIN 0010) (OPTIONAL)

8 CLEANING AND PAINTING (CLIN 0011).

8.1 Oil Tanks. Remove and dispose of the contents of the following oil tanks and associated piping in accordance with Federal, State, and local regulations. The location of the tanks are shown on drawing number 806-1002, sheet 1 of 1, Lines Plan.

- (1) Two fuel oil tanks, 10,760 gallons each.

W912P8-07-T-0167

- (2) One fuel oil day tank, 5,475 gallons.
- (3) Two lube oil tanks, 920 gallons each.
- (4) One oily bilge tank, 2,100 gallons.
- (5) One used oil tank, 2,100 gallons.

8.1.1 Open the manhole covers to the above tanks and discard the existing gaskets. Clean all interior surfaces of the above tanks in accordance with SSPC-SP 1.

8.1.2 The tanks shall be inspected and approved by the Government Inspector before the tank is closed after cleaning. Clean the gasket surfaces of the manhole cover and tank. Install a new nitrile rubber gasket and reinstall the manhole cover to close the tank. Install new studs, washers, and nuts of equal type to the original, if damaged upon removal or installation.

8.2 Potable Water Tank. Open the manhole cover and discard the existing gasket. Remove and dispose of the contents in the 6,500 gallon potable water tank in accordance with Federal, State, and local regulations. The location of this tank is shown on drawing number 806-1002, sheet 1 of 1, Lines Plan.

8.2.1 The tank shall be inspected and approved by the Government Inspector before coatings are applied and before the tank is closed after the coating cures. Clean all interior surfaces of the tank and manhole cover in accordance with SSPC-SP 10. Apply two 6 mil DFT coats of Ameron Amercoat 233ER Edge Retentive Epoxy or equal to all interior surfaces of the tank. The total dry film thickness shall not be less than 12 mils. One stripe coat shall be applied to all edges and welds. The colors used shall be off-white and light blue. Forced ventilation shall be provided to cure the coating in accordance with the manufacturers recommendations before the tank is closed and filled with water.

8.2.2 Scrape and clean the gasket surfaces of the manhole cover and tank. Install a new neoprene ring gasket and reinstall the manhole cover to close the tank. Install new studs, washers, and nuts of equal type to the original if damaged upon removal or installation. Clean and paint the disturbed areas of the manhole cover.

8.2.3 Disinfect the tank and the entire potable water system in accordance with AWWA C652. The piping shall be disinfected using chlorination method one. The tank shall be disinfected using chlorination method one or two. The chlorinated water shall be disposed of in accordance with Federal, State, and local regulations after the specified retention period. Fill the tank with potable water from a known potable source.

8.3 Forepeak Ballast Tank. Remove and dispose of the contents in the forepeak ballast tank in accordance with Federal, State, and Local regulations. The location of this tank is shown on drawing number 806-1002, sheet 1 of 1, Lines Plan.

8.3.1 Clean all interior surfaces of the tank in accordance with SSPC-SP 10. Clean the surfaces of the manhole cover ring in accordance with SSPC-SP 3. Apply two 8 mil DFT coats of Ameron Amercoat 235 epoxy or equal to all interior surfaces of the forepeak ballast tank and the manhole cover ring. The total dry film thickness shall not be less than 16 mils. The color shall be haze grey.

8.4 Hull Voids. Open the manhole covers to the eight voids listed below and discard the existing gaskets. Remove and dispose of the contents in accordance with Federal, State, and Local regulations. The voids are numbered as to location with respect to the centerline as follows:

- (1) Frame 4 to 10, 16 feet to port and starboard.
- (2) Frame 16 to 21, 16 feet to port and starboard, including the exterior of the potable water tank.
- (3) Frame 21 to 28, 12 feet to port to 16 feet to port.
- (4) Frame 21 to 28, 12 feet to starboard to 16 feet to starboard.
- (5) Frame 34 to 40, 5'-3" to port to 16 feet to port.
- (6) Frame 34 to 40, 5'-3" to starboard to 16 feet to starboard.
- (7) Frame 40 to 46, 16 feet to port to 16 feet to starboard.
- (8) Frame 46 to 52, 16 feet to port to 16 feet to starboard.

8.4.1 Spot clean the interior surfaces of the five voids in accordance with SSPC-SP 3. Apply two 8 mil DFT coats of Ameron Amercoat 235 epoxy or equal to those areas spot cleaned. The total dry film thickness shall not be less than 16 mils. The color shall be haze grey.

8.4.2 The voids shall be inspected and approved by the Government Inspector before the voids are closed. After all work is complete, scrape and clean the gasket surfaces of the manhole covers and voids. Install new studs, washers, and nuts of equal type to the original, if damaged upon removal or installation. Install new nitrile gaskets of equal hardness and thickness to original and reinstall the manhole cover to close the tanks. Clean and paint the disturbed areas of the manhole covers.

8.5 Hull Exterior. Clean the hull exterior from the top of the bulwarks down to the keel, including the bow, stern, sides, bottom, all pad eyes, struts, rudders, keel coolers, interior of the seachest and transducer well, both tow knee structures, and the inboard side of all bulwarks in accordance with the SSPC-SP 10.

8.5.1 Apply two 8 mil DFT coats of Ameron Amercoat 235 epoxy or equal to the areas defined in paragraph 8.5. The total dry film thickness shall not be less than 16 mils. The first coat shall be red. The topcoat shall be black.

W912P8-07-T-0167

8.5.2 Apply two 6 mil DFT coats of Ameron ABC#3 antifoulant or equal to the hull from the waterline down to the keel including the bow, stern, sides, bottom, all pad eyes, struts, rudders and keel coolers. The antifoulant shall be applied before the epoxy has cured hard. The total dry film thickness shall not be less than 28 mils below the waterline. The first coat shall be blue. The top coat shall be red.

8.5.3 Apply two 2 mil DFT coats of aluminum enamel to all identification and draft marks on the port and starboard sides of the hull.

8.5.4 Shift the vessel on its blocks after the hull coating has cured for immersion in accordance with the manufacturer's specifications. Clean and coat the block landing areas in accordance with paragraphs 8.5, 8.5.1, and 8.5.2.

8.6 Deck Exterior. Clean the exterior of the main deck, boat deck, and pilothouse deck including the deck plating within the two steering gear cages, and the two pilothouse landings in accordance with SSPC-SP 10.

8.6.1 Apply one 6 mil DFT coat of Ameron Amercoat 137 epoxy or equal to the areas defined in paragraph 8.6. Roll on one coat of Ameron 138G epoxy non-skid or equal at a rate of 25 to 35 square feet per gallon to the areas defined in paragraph 8.6. The color shall be haze grey.

8.7 Deck Fittings. Clean all deck fittings including fill and vent pipes, chocks, bitts, cleats, kevels, the interior and exterior of the two steering gear cages, the steering gear, the treads of the five exterior stairways, and the handrails on all decks in accordance with SSPC-SP 10.

8.7.1 Apply one 6 mil DFT coat of Ameron Amercoat 235 or equal to the areas defined in paragraph 8.7. Apply one 3 mil DFT coat of Ameron Amercoat 5410 gloss silicone alkyd or equal to the areas defined in paragraph 8.7. The total dry film thickness shall not be less than 9 mils. The deck fittings, steering gear, and stairway treads shall be safety yellow. The handrails and steering gear cages shall be black.

8.9 Superstructure. Clean all exterior surfaces of the superstructure from the deck up including pilothouse top, ladders, light mast and exhaust stacks by pressure washing followed by grit blasting in accordance with SSPC-SP 7.

8.9.1 Apply one 3 mil DFT coat of Ameron Amercoat 5410 gloss silicone alkyd or equal to the areas defined in paragraph 8.9. Apply one 2 mil DFT coat of Ameron Amercoat 873 high-heat modified silicone topcoat to the tops of the exhaust stacks. The colors shall be as shown in paragraph 8.9.2.

8.9.2 The color of the specific superstructure area shall approximately match the following corresponding color chip numbers from Fed. Std. 595.

<u>Location</u>	<u>Color</u>	<u>Chip No.</u>
Main Deckhouse, from the deck up 36"	Slate gray	16187

W912P8-07-T-0167

Remainder of Main deckhouse, Texas deckhouse and Pilothouse	Old Ivory	17855
Margin Facings and Guardrail arms	Red	11136
Exhaust Stacks (matching existing pattern)	Black Red Aluminum	11136
Pilothouse top	Aluminum	
Ladders and light masts	Black	
Sunshade bottom, light Screens	Flat Black	

9 PROPELLERS, PROPELLER SHAFTS, AND BEARINGS (CLIN 0012). Remove the two propellers and two propeller shafts. Measure the inside diameter of the two stern tube bearings and two strut bearings, fore and aft at 0 and 90 degrees. Measure the two existing shafts and the two spare shafts for straightness and out of roundness at the bearing journals and tapers. Furnish a condition report on the bearings and shafts to the Government Inspector within seven calendar days after the vessel is drydocked. Remove the packing, degrease, and clean both stuffing boxes. Install the coupling companion flanges on the spare shafts and make a face cut to provide a zero runout total indicator reading. Install the spare shafts and propellers and strap the propeller nuts to the shaft ends with stainless steel flat bar. Install new flax packing in the stuffing boxes and lubricate. Check the alignment of the shafting at the coupling after the vessel has been afloat for 12 hours with fuel and water tanks full. Furnish an alignment report to the Government Inspector before the couplings are bolted together. See drawing number 203-1016, sheet 1 of 1, Shafting Details.

9.1 Replacement of Strut and Stern Tube Bearings (OPTIONAL). Remove the existing strut and/or stern tube bearings and install new 5-1/2" ID x 7-1/4" OD, brass shelled, rubber, flanged bearings as directed by the Contracting Officer. The installation shall include the preparation of the bearing housing, machining the bearing, replacement of stainless steel set screws, and the installation of epoxy filler. The following quantities will be used to evaluate bids:

9.1.1 Stern Tube Bearing - 2 each (CLIN 0013)(OPTIONAL)

9.1.2 Strut Tube Bearing - 2 each (CLIN 0014)(OPTIONAL)

9.2 Main Engine Alignment (OPTIONAL). Align each main engine as directed by the Contracting Officer. Each engine and shaft shall be aligned to not more 0.004" difference at the coupling faces, top to bottom and side and side. The alignment shall include the removal and replacement of the chocking compound with Chockfast Orange or equal. The following quantities will be used to evaluate bids:

W912P8-07-T-0167

9.2.1 Main Engine Alignment - 2 each (CLIN 0015)(OPTIONAL)

-10 ANODES (OPTIONAL). Remove and replace zinc anodes where directed by the Contracting Officer. Surface weld all pits in way of the existing anode mount locations and grind flush. New anodes shall be 23.5 pound zinc anodes with cast-in galvanized straps. Repair damaged coatings in way of new anode locations. The following quantities will be used to evaluate bids:

10.1 Anodes - 12 each (CLIN 0016)(OPTIONAL).

11 COMPRESSED AIR SYSTEM (CLIN 0017). Perform an external and internal inspection and a hydrostatic test to the two 125 gallon air receivers in the engine room, the 250 gallon receiver in the upper machinery room, and the 20 gallon air receiver below the pilothouse in accordance with the NBBI, NBIC. Inspect and test the pressure relief devices and gages in accordance with the NBBI, NBIC. Furnish a report describing the procedures and results of the inspections and tests to the Contracting Officer. Details of the compressed air system are shown on drawing number 513-1015, sheet 1 of 1, Compressed Air Piping.

12 DAYTANK FUEL SHUTOFF (CLIN 0018). Relocate the fuel supply shutoff from the main deck inside the upper machinery room to outside the aft upper machinery room bulkhead. Use a cable or shaft operating system that penetrates the upper machinery room deck beneath the work bench and goes aft to the bulkhead. Install a label on the outside bulkhead that reads "Emergency Fuel Shutoff".

13 MAIN ENGINE GUARDS (CLIN 0019). Fabricate and install guards to completely cover the forward rotating ends of the crankshafts on the port and starboard main engines. Stiffen the expanded metal guards over the port and starboard main engine couplings to support a 250 pound load.

14 BILGE ALARM SYSTEM (CLIN 0020). Install a bilge high level alarm system that includes a panel for the pilothouse that contains visual and audible alarms for each space, wiring, and sensors to detect bilge level. The alarms shall sound when the level of fluid in the bilge is six inches above the bottom plate. A means shall be provided to test the visual and audible alarms and silence the audible alarms. The system shall be operate on the existing 12 volt system. All wiring shall pass through welded collars and watertight fittings at bulkheads. The spaces to be included are numbered as to location with respect to the centerline as follows:

- (1) Frame 4 to 10, 16 feet to port and starboard.
- (2) Frame 16 to 21, 16 feet to port and 16 feet to starboard.
- (3) Frame 21 to 28, 12 feet to port to 16 feet to port.
- (4) Frame 21 to 28, 12 feet to starboard to 16 feet to starboard.
- (5) Frame 34 to 40, 5'-3" to port to 16 feet to port.

W912P8-07-T-0167

- (6) Frame 34 to 40, 5'-3" to starboard to 16 feet to starboard.
- (7) Frame 40 to 46, 16 feet to port to 16 feet to starboard.
- (8) Frame 46 to 52, 16 feet to port to 16 feet to starboard.

15 WHISTLE LIGHT (CLIN 0021). Diagnose and repair the whistle light. There is a pressure switch located in the overhead behind the paneling.

16 FIRE DETECTION SYSTEM (CLIN 0022). Furnish and install a marine automatic fire detection system for the upper machinery room and engine room. The system shall meet the requirements of 46 CFR 27.203, USCG Fire Protection Measures for Towing Vessels. The system shall include a primary power supply, a control unit with visible and audible fire and trouble signaling devices, fire detector circuits, conductors, and all other requirements specified in 46 CFR 161.002, USCG Fire Protective Systems. A 12-volt battery located near the pilothouse is available for the secondary source of power. All conductors between the pilothouse and protected spaces shall be located in the existing raceway behind the paneling. The system shall be installed and tested in accordance with the manufacturer's design manual. The electrical installation shall meet the requirements of 46 CFR Subchapter J, Electrical Engineering.

17 MSD VENT (CLIN 0023). The MSD vent terminates inside the starboard exhaust stack. Relocate the vent to the outside of the exhaust stack to the inboard side of the stack. The j-vent shall be installed so that it rises 18 inches above the deck. Clean and coat the vent in accordance with paragraph 8.7.

18 SCUPPER DRAIN PIPE (CLIN 0024). Replace the deck scupper drain pipe on the starboard aft corner of the boat deck.

19 MAIN DECK FLOORING (CLIN 0025). Replace the floor tile in the galley, dining area, pantry, main deck head, and the hallway between the galley/dining area and the engine room with new Armstrong Standard Excelon vinyl composition tile, or equal. The color shall be medium brown. The color shall be selected by the Government from samples presented by the Contractor. The deck areas that are rusted shall be cleaned to SSPC-SP3 and coated with two coats of epoxy primer. The shoe molding shall be replaced with dark brown shoe molding equal to the existing. The removal of the existing floor and preparation of the floor surface shall be included in this item.

20 SHOWER PANS (CLIN 0026). Clean the three shower pans in accordance with SSPC-SP3. Apply Dex-O-Tex Deco-Flor troweled epoxy floor coating or equal to the three shower pans in accordance with the manufacturer's instructions. The coating shall be applied up the surrounding bulkheads 4 inches making an integral cove base. An appropriate primer shall be applied to the steel as recommended by the coating manufacturer.

21 SEA CHEST VALVES (CLIN 0027). Remove the two gate valves from the seachest and disassemble. Thoroughly clean, machine, or grind the valve discs, disc guides, and seats. Replace all gaskets and packing with material

W912P8-07-T-0167

equal to original. Replace any bolts, nuts, and washers equal to original, if damaged. Reassemble the valves and perform a shell test and seat closure test in accordance with the MSS SP-61, and repair all leaks. Clean and coat the valves with an alkyd primer and topcoat paint system. Reinstall the valves and correct all leaks after the vessel is refloated. The two valves are cast steel gate valves, one 2-1/2 inch and one 6 inch, nominal size. Replace the 2 inch schedule 80 nipple and 2 inch valve on the seachest for compressed air blowdown with a new equivalent valve. The nipple shall be welded all around on both sides of the seachest plate.

22 SEA STRAINER (CLIN 0028). Remove the 6 inch flanged simplex strainer from the seachest. Disassemble, clean, and inspect for damage and worn parts. Furnish a condition report to the Government within two days of the inspection. Any required additional repairs shall be authorized by the Contracting Officer. Reassemble and reinstall the strainer with new gaskets and fasteners as required. Test for functional operation and leaks.

23 OVERBOARD DISCHARGES (CLIN 0029). Replace the ten overboard discharge pipes from the side shell to the first inboard valve. The overboard discharges shall include all doubler plates, the schedule 80 steel piping, pipe flanges, gaskets, and pipe threads. Replace the ten check valves and ten gate valves with valves equal to the original. The piping penetrations shall be welded all around on both sides at the side shell and wing tank bulkheads. There are eight each 2 inch and 2 each 3/4 inch discharges. The details are shown on drawings 505-1009, 1 of 2 and 2 of 2, Sewage and Drain Piping, 506-1010, 1 of 1, Fire Piping System, and 508-1021, 1 of 1, Bilge and Ballast System. Clean and paint the above work in accordance with paragraph 8.4. Do not paint those discharges that pass through fuel or lube oil tanks.

24 RELEASE HOOK REMOVAL (CLIN 0030). Remove the port and starboard release hooks and return them to the Government. Cut the stands off the deck and grind the welds flush. Remove the solenoid valves and air lines from above deck to the aft transverse bulkhead in the storage void and plug. Remove the release hook actuation buttons from the pilothouse console. Disconnect and remove the wiring from the source of power to the switches and down to the solenoids.

25 SEARCHLIGHT (CLIN 0031). Remove the existing port searchlight and install the Government furnished Carlisle and Finch 500 watt xenon searchlight, power supply, control station, and wiring. The power supply shall be mounted below the pilothouse deck. The installation shall be done in accordance with the manufacturer's instructions and 46 CFR Subchapter J, Electrical Engineering.

26 KEEL COOLER REPLACEMENT (CLIN 0032). Replace the 8[18.75 steel channel keel cooler in two locations for the generators. Replace the 12[25 steel channel keel cooler in one location for the port main engine. Each location is estimated to be four feet long. Each location will include the installation of a separation block and half collar/flush plug drain fitting. The installation shall be in accordance with drawing 100-1011, 1 of 1, Keel Cooling and Piping.

27 CO2 STORAGE VENT (CLIN 0033). Install a two inch J-vent in the

W912P8-07-T-0167

overhead of the CO2 storage locker. The vent shall penetrate the second deck just inside the guardrail and rise 18 inches above the deck. Clean and coat the vent in accordance with paragraph 8.7.

INSPECTION AND ACCEPTANCE

1 The Contractor shall perform or have performed the inspections and tests required to substantiate that the supplies and services provided under this contract conform to the specifications, drawings and contract requirements herein. The Contractor shall also perform or have performed the inspections and tests specified herein.

2 The Contractor shall provide and maintain a Quality Control Program covering all work specified in the Job Order. The program shall result in the preparation and maintenance of documentation. The documentation shall define the tests and inspections to be accomplished for each specification item keyed to the appropriate contract line item number and paragraph of the specification.

3 The Government Inspector shall witness all tests and inspections. The Contractor shall make certain that all materials, installation and workmanship meet the requirements of the specifications and are ready for test or inspection prior to notifying the Government Inspector.

4 The Contractor shall notify the Government Inspector at least 24 hours before all testing and inspection. The Government Inspector will be available to witness testing and inspection of completed work Monday thru Friday, except Federal Holidays. The time of his availability will depend upon the distance between the Contractor's or Subcontractor's facility and New Orleans, LA.

5 The Contractor shall proceed with work if the Government Inspector is not present to witness the inspection or test after the scheduled time provided the advanced notice required in Inspection and Acceptance Paragraph 4 above has been given. The Contractor shall document his inspection or test as if the Government Inspector was present.

6 Witnessing tests and inspections by the Government Inspector does not constitute acceptance of the item and does not relieve the Contractor of the responsibility of assuring that the work conforms to the requirements of the specifications.

7 Work subcontracted and performed away from the shipyard is covered by this Quality Control Program. The prime Contractor can not delegate the authority to witness or perform and sign for tests and inspections conducted away from his facility without approval of the Contracting Officer. If the Subcontractor has an established Quality Control Program with designated organization and personnel, the prime Contractor may designate an appropriate individual in that organization as his authorized representative. Such designation shall clearly indicate that the individual is an employee of a subcontractor and shall be subject to the approval of the Contracting Officer. The Government Inspector will witness tests and inspections at the Subcontractor's facility in accordance with Inspection and Acceptance Paragraphs 4 and 5 above.

8 QUALITY ASSURANCE SURVEILLANCE PLAN. This plan will be used to

W912P8-07-T-0167

assure the Government that the work specified under this contract is completed satisfactorily. This plan is included for information purposes only. All work performed will be monitored by the Government Inspector on a daily basis. The performance based deliverables identified in Table 8 will be inspected and tested (if applicable) and either approved or rejected by the Government. The Contractor shall correct all deficiencies in rejected work at no additional cost to the Government unless caused by reasons beyond the control of the Contractor.

Table 8 - PERFORMANCE REQUIREMENTS

REQUIREMENT	PERFORMANCE STANDARD	MONITORING METHOD	INCENTIVE/ DISINCENTIVE
Work items completed as specified without defects in material and workmanship.	All work performed in accordance with the specifications, manufacturer's recommendations and accepted commercial marine practice.	Observation of the Contractor's activities and workmanship during the performance of the work. Monitor the Contractor furnished parts and materials.	Full payment shall be made for 100% compliance with the specifications. Deficiencies shall be corrected at no additional cost to the Government.
All work performed in accordance with the USACE Safety Manual.	No safety violations or injuries during the term of the contract.	Observation of the Contractor's daily activities. Record and safety violations and discuss with Contractor to prevent a re-occurrence.	Full payment shall be made for 100% compliance. Contractor may be subject to FAR clause 52.212-4 Termination for Cause in addition to any damages or costs incurred if violations occur.

REQUIREMENT	PERFORMANCE	MONITORING	INCENTIVE/
Work items completed as specified without defects in material and workmanship.	All work performed in accordance with the specifications, manufacturer's recommendations and accepted commercial marine practice.	Observation of the Contractor's activities and workmanship during the performance of the work. Monitor the Contractor furnished parts and materials.	Full payment shall be made for 100% compliance with the specifications. Deficiencies shall be corrected at no additional cost to the Government.
All work performed in accordance with the USACE Safety Manual.	No safety violations or injuries during the term of the contract.	Observation of the Contractor's daily activities. Record and safety violations and discuss with Contractor to prevent a re-occurrence.	Full payment shall be made for 100% compliance. Contractor may be subject to FAR clause 52.212-4 Termination for Cause in addition to any damages or costs incurred if

DELIVERIES OR PERFORMANCE

1 COMMENCEMENT, EXECUTION AND COMPLETION. The Contractor is required to commence work under this job order immediately upon delivery of the vessel to him, to execute the work with diligence and to complete the work within forty-five (45) calendar days.

1.1 The Contractor is required to accept delivery of the vessel within thirty (30) calendar days after the date of receipt of the written notice of award.

2 DELIVERY AND RETURN OF THE VESSEL.

2.1 Delivery. The Government will deliver the vessel to the Contractor's facility. The time of commencement will be the time the vessel arrives at the Contractor's facility.

2.2 Return. The Contractor shall return the vessel to the Government at the point of delivery upon completion and acceptance of all work. The time of completion will be the time of acceptance of all work by the Government Inspector.

3 LIQUIDATED DAMAGES.

3.1 If the Contractor fails to deliver the supplies or perform the services within the time frame specified in this contract, or any extension, the Contractor shall, in place of actual damages, pay to the Government as fixed, agreed, and liquidated damages, for each calendar day of delay the sum of \$625.00.

4 SCHEDULE AND PROGRESS OF WORK. The Contractor shall submit a schedule to the Contracting Officer for accomplishing the work before work starts. The schedule shall include a bar chart for each contract line item, including optional items, that shows start and completion dates. The chart shall show the order in which the Contractor proposes to accomplish all work. The schedule shall be updated weekly reflecting the actual progress attained in comparison to the proposed schedule. The updated reports shall be submitted to the Contracting Officer on Monday for the previous work week. Supplement each schedule with a comprehensive written narrative describing:

(1) The amount of progress on work items during the reporting period.

(2) Problems encountered.

(3) Known or anticipated delays, their causes, the impact on the work and the corrective action taken or proposed.

The Contractor shall take appropriate steps necessary to improve his progress if he falls behind the progress schedule in the opinion of the Contracting Officer. The Contracting Officer may require the Contractor to increase the number of shifts and/or overtime, days of work and/or amount of plant used as deemed necessary to regain progress to complete all work within the time

W912P8-07-T-0167

specified, without additional cost to the Government.

5 LOCATION. The Contractor's facility shall be located within a 100 mile radius of the U.S. Army Engineer District, New Orleans. Any bid proposing performance at a location beyond this stated limit will be determined non-responsive and rejected.

SPECIAL CONTRACT REQUIREMENTS

1 MANDATORY ITEMS. All mandatory items, those not specifically identified as INFORMATION or OPTIONAL, shall be accomplished and completed within the specified performance period.

2 OPTIONAL ITEMS. Certain items identified as OPTIONAL in the bidding schedule and description/specifications may or may not be required. No work shall be performed on any item identified as OPTIONAL unless authorized in writing, in whole or in part, by the Contracting Officer. When authorized, the Contractor shall perform the OPTIONAL work required at the unit price quoted in the schedule in the quantities authorized. The total actual quantity authorized may be less or more than the estimated quantity. The Contractor shall allow sufficient time to perform the total estimated quantity of all OPTIONAL items in the bidding schedule.

3 WHARFAGE, DOCKAGE, ETC. The Contractor shall be responsible for and pay all expenses of wharfage, tonnage, dockage, mooring, etc. The Contractor shall provide:

(1) All mooring lines and fenders sufficient in strength, quantity, location and quality to prevent damage to the vessel and the dock.

(2) All necessary labor, material, services and equipment as required to safely move the vessel while it is in his possession.

(3) Adequate protection during adverse weather conditions including, but not limited to, moving the vessel to a safe harbor and providing additional mooring lines and anchors.

(4) The necessary facilities for and shall bear the expense of any movement of the vessel while it is in his possession.

4 INTERFERENCE. The Contractor shall remove and reinstall any interference required to accomplish the work specified without additional contract time or cost to the Government. Interference is defined as any part of the vessel, installed or portable, that must be removed or disturbed to accomplish the work specified. All damaged or missing fasteners shall be replaced with fasteners of the same size and type as original. New gaskets, packing and seals shall be installed on all disturbed connections and proven leak free. Damaged lagging and insulation shall be repaired or replaced. All new work or disturbed old work shall be cleaned and painted in accordance with Section C. All interferences shall be returned to their original operational position and condition upon reinstallation. All costs associated with interferences shall be included in the bid price of the respective item of work.

5 ACCIDENT PROTECTION. All work performed under this contract shall be in accordance with the requirements of the U.S. Army Corps of Engineers Safety Manual, EM 385-1-1 and other safety requirements specified herein.

5.1 Accident Prevention Program. Four copies of the Accident Prevention Program shall be submitted to the Contracting Officer for review and approval within 10 calendar days after award. The program shall be

W912P8-07-T-0167

prepared in the following format (see Section J, Attachments):

(1) An executed LMN Form 385-43R, Accident Prevention Program Administrative Plan.

(2) An executed LMN Form 385-6R, Accident Prevention Program Hazard Analysis.

(3) An executed LMN Form 385-7R, Accident Prevention Plan Checklist - Administrative Section.

(4) A copy of company policy statement of accident prevention and any other guidance statements normally provided new employees.

5.2 Control of Hazardous Energy (Lockout/Tagout). Before personnel perform any servicing or maintenance on a system where the unexpected energizing, start up, or release of stored energy could occur and cause injury or damage, the system shall be isolated in accordance with the procedures contained in EM-385-1-1, and Engineer Regulation ER 385-1-31. The Contractor shall submit his hazardous energy control plan to the Contracting Officer for acceptance within 10 calendar days after award. Locks and tags will be placed on circuit breakers, or other appropriate devices, to isolate and identify hazardous energy sources. The Contractor will maintain a SAFE CLEARANCE LOG in the engine room. The logbook will have a lock/tag issue sheet and SAFE CLEARANCE REQUEST FORMS. Corps and Contractor designated authorities shall fully coordinate their control activities for the life of the contract. Each shall inform the other of their energy control procedures, ensure that their own personnel understand and comply with rules and restrictions of the procedures, and ensure that all employees affected by the hazardous energy control activity are notified. During each daily walk-through safety inspection the log will be checked. During this inspection the Contractor shall itemize all existing lockouts, all new lockouts, and all removed tags that morning or the previous day. Prior to a change in the status or location of the vessel (such as undocking), the Corps and the Contractor shall meet to review the status of hazardous energy control measures.

5.3 Accident Investigations and Reporting. Refer to EM 385-1-1, Para. 01.D.01. Accidents shall be investigated by the immediate supervisor of the employee(s) involved and reported to the Government's Technical Representative within one working day after accident occurs. A report of all mishaps occurring on the project shall be submitted to the Contracting Officer within four calendar days following the incident. All data reported must be complete, timely and accurate. A follow up report shall be submitted when the estimated lost time days differs from actual lost time days.

5.4 Daily Inspections. The Contractor shall institute a daily inspection program to assure safety requirements are being fulfilled. Reports of daily inspections shall be maintained at the job site. The reports shall be records of the daily inspections and resulting actions. Each report will include, as a minimum, the following:

(1) Items of work underway during the inspection.

W912P8-07-T-0167

(2) Locations of areas where inspections were made.

(3) Results of inspections, including nature of deficiencies observed and corrective action taken, or to be taken, date, and signature of the person responsible for its contents.

(4) Status of Lockout/Tagout items.

5.5 Ground-Fault Protection. Refer to Para. 11.C.05 of EM 385-1-1. The ground-fault circuit interrupter shall be calibrated to trip within the trip-threshold values of 5 Ma + 1 Ma as specified in UL Standard 943. All ground-fault circuit interrupters shall be UL approved and installed in accordance with the latest edition of the National Electrical Code.

5.6 Hatches and Openings. Hatches and openings of all kinds that present a hazard will be provided with safe and suitable guard rails and toe boards.

5.7 Lighting. The Contractor shall ensure that all work areas and walkways are adequately lit, particularly during hours of darkness.

5.8 The Contracting Officer will notify the Contractor immediately of any noncompliance with the foregoing paragraphs and the action to be taken. The Contractor shall, after receipt of such notice, immediately take corrective action. If the Contractor fails or refuses to comply promptly, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. The Contractor shall make no part of the time lost due to any such "stop work" orders the subject of claim against the Government for extension of time or for excess costs or damages.

6 ACCESS TO THE VESSEL.

6.1 Notwithstanding any other clause of this contract, the Contractor agrees to allow officers, employees, associates of the Government, other prime Contractors with the Government and their Subcontractors, and officers, employees, and associates of offerors on other contemplated work admission to the Contractor's facilities and the vessel.

6.2 The Contractor shall provide suitable ladders, gangways and scaffolds for access to the job. Such equipment considered unsafe or inadequate by the Government Inspector shall be removed and replaced by the Contractor with equipment that is acceptable.

7 FALL PROTECTION. Hatches and openings of all kinds that present a hazard will be provided with safe and suitable guardrails and toe boards.

8 FIRE PROTECTION. The Contractor shall assume full responsibility for fire protection while the vessel is in his possession. The Contractor shall provide a dedicated person and a fire extinguisher for fire watch at each location where hot work is being performed.

9 WELDERS AND WELDING. Welders who have successfully passed the qualifications tests of the American Bureau of Shipping, the U.S. Navy, or

W912P8-07-T-0167

the U.S. Coast Guard shall do all welding under this contract. The Contractor shall bear the expense of conducting these tests and shall require any welder to repeat and pass these tests, when in the opinion of the Contracting Officer or his representative, the work of the welder indicates a reasonable doubt as to his proficiency. The Contractor shall submit to the Contracting Officer the list of qualified welders by name, the date of qualification, code and procedures under which qualified.

9.1 The electrodes used throughout the work shall be suitable for use with the parent metal at each weld. Certified statements shall accompany each shipment of electrodes to the effect that sample pieces, representative of each kind and size of each shipment, have satisfactorily passed the tests required by American Welding Society, the ABS or the USCG.

9.2 Assembly of all welded joints before welding shall be such as to secure proper gaps in butt joints and proper metal contact for fillet welds. Welding shall not be used to close openings larger than stipulated for each plate thickness by the ABS. All watertight seal welds shall be of the "bead" type. No "weave" or "stitch" welding will be permitted. Welding procedure, as to direction, length, number and sequence of beads shall be carefully planned to minimize locked up stresses.

9.3 Welding leads and ground wires shall be arranged to prevent current from passing through bearings in reciprocating machinery on the vessel.

10 WORKMANSHIP. All labor shall be skilled for each kind of work, thorough and first class in every respect and performed under competent direction. Where work of one trade joins, passes through, or is integral with other work, there shall be no discrepancy or misfit when completed. In engaging one kind of work with another, marring or damaging of previously acceptable work shall be cause for rejection of previously accepted work. All parts of work intended to join or bear upon others shall have complete and solid surface contact and fit together neatly without excessive cold work during assembly.

11 RECORDS OF GOVERNMENT PROPERTY. The Property Book Officer, U.S. Army Engineer District, New Orleans, LA is designated as the property administrator to maintain the necessary property records in connection with this contract.

12 GOVERNMENT FURNISHED PROPERTY. Government furnished property (GFP) is described in Section J, List of Attachments. The Contractor shall advise the Contracting Officer of any shortages, breakage or other discrepancies within 48 hours of receipt of GFP. All unused GFP shall be loaded on the Government furnished conveyance for return. GFP will be delivered FOB the Contractor's facility within 5 calendar days after the arrival of the vessel at his facility. The Contractor shall store the GFP in a secure weather tight facility until it is permanently installed on the vessel.

13 SCRAP AND SALVAGE MATERIAL. All items designated as scrap resulting from the work shall become the property of the Contractor. Due consideration of the value of such scrap shall be reflected in the bid price of the items concerned. This shall not apply to salvageable items ordered to

W912P8-07-T-0167

remain the property of the Government.

14 CLEANING AND PAINTING.

14.1 Protection During Abrasive Blasting. Prior to abrasive blasting, precautions shall be taken to protect the hull and machinery from flying sand, dust and water discharge. This also applies to blasting on other vessels in the vicinity. All the main deck scuppers shall be equipped with half pipes or dammed to keep water off the hull during abrasive blasting. All open fans, vents, doors, hatches, machinery and deck gear shall be sealed with plastic film. Glass shall be covered with plywood.

14.1.1 Abrasive blasting shall not be performed while engine, propeller, hydraulics, or gear work, is in progress which requires these systems to be exposed. If propeller shafts, hydraulic actuators, etc., are off the vessel during the blasting, all openings must be securely sealed. It is of the utmost importance to insure that these systems are not contaminated. Coordinate the abrasive blasting and the paint application so that corrosion and/or surface moisture does not interfere with proper paint application. Transducer heads and other underwater equipment shall be protected. Abrasive blasting shall not commence until all precautions and coverings have been approved by the Government Inspector. If at any time there is a possibility of damage from blasting the Contracting Officer may stop work until the problem is corrected. At no time shall this be a cause for extension of contract time or additional cost to the Government. All areas cleaned and painted under these specifications shall be kept clean for the duration of the contract.

14.1.2 All grease fittings will be masked to prevent contamination with paint, dirt, etc. All lenses of the navigation lights must be cleaned and masked as soon as possible, before any cleaning, blasting, or painting takes place elsewhere.

14.1.3 After all cleaning and painting work is completed, remove all protective coverings. Clean navigation light lenses with mild soapy water. Remove all tape, glue, overspray, and drips. Remove all traces of blasting media and dust from the interior and exterior of the vessel to the satisfaction of the Government Inspector.

14.2 The Contractor shall secure the services of a representative of the manufacturer of the paint used to obtain guidance in the proper storage, handling, use and application of the product. The Contractor shall comply with all safety precautions recommended by the manufacturer. The Contractor shall also comply with all safety regulations in 29 CFR 1910 and 29 CFR 1915. The Contractor shall submit Material Safety Data Sheets as required by the Contract Clauses.

14.3 The Contractor shall furnish a certificate to the Contracting Officer stating that the paint to be used conforms to the specifications in all respects.

14.4 DO NOT APPLY PAINT OVER DAMP, DIRTY, OR OILY SURFACES. Surfaces to be painted shall be cleaned in accordance with the applicable paragraph in the specifications before applying paint or surface treatments.

W912P8-07-T-0167

14.5 Mix paint well before brushing or spraying and do not let the paint settle in the paint container or pressure pots during application.

14.6 Do not apply paint when weather conditions would affect the bond between the paint and the surface coated. No painting shall be done at night.

14.7 Furnish all paint in new unopened cans. All cans shall be marked with the correct formula number by the manufacturer verifying the contents. All paint furnished shall have been manufactured within one year of the date of application.

14.8 All paint shall be applied in accordance with the paint manufacturer's recommendations.

14.9 Surfaces that have been cleaned and/or otherwise prepared for painting shall be primed as soon as practicable after such preparations have been completed and prior to any deterioration of the prepared surface.

14.10 Upon completion of painting, do not moor or berth the vessel in a place where the paint will be subject to attack by oil or paint floating on the water surface.

14.11 Any coating having toxicity shall be registered under section 4 of the Federal Insecticide and Rodenticide Act of the US Environmental Protection Agency. The registration number shall be given on each can of paint.

14.12 The coating thickness of all painting work will be measured by the Government Inspector using a Contractor furnished instrument similar or equal to the following:

- (1) Positector 6000, Defelsko Corp.
- (2) Positest, Defelsko Corp.
- (3) Mikrotest, Elektro-Physik, Inc.

(4) Elcometer, Elcometer Instruments, Ltd.

The instrument shall be calibrated on metal identical in composition, surface preparation and thickness to that being coated except for measurements on metal thicker than 1/4 inch, the instrument shall be calibrated on metal with a minimum thickness of 1/4 inch. Calibrating instructions, thickness standards and in the case of the Mikrotest gage, a calibrating tool, should be obtained from the manufacturer or supplier of the gage.

15 OFFICE FACILITY. The Contractor shall provide a well lighted, air conditioned and heated office for use by the Government Inspector. The office shall contain a desk, three chairs, and a telephone.

LIST OF ATTACHMENTS

1 DRAWINGS. (MAY BE DOWNLOADED FROM OUR WEB SITE:
WWW.MVN.USACE.ARMY.MIL)

- (1) 100-1011, Keel Cooling and Piping
- (2) 806-1002, sheet 1 of 1, Lines Plan
- (3) 203-1016, sheet 1 of 1, Shafting Details
- (4) 513-1015, sheet 1 of 1, Compressed Air Piping
- (5) 505-1009, 1 of 2 and 2 of 2, Sewage and Drain Piping
- (6) 506-1010, 1 of 1, Fire Piping System
- (7) 508-1021, 1 of 1, Bilge and Ballast System

2 GOVERNMENT FURNISHED PROPERTY (GFP).

- (1) Spare propellers and shafts.
- (2) Xenon searchlight, power supply, and control station.

3 LIST OF DELIVERABLES.

- (1) Hazardous Waste Manifests, 1.1
- (2) Marine Chemist Certificate, 4.4
- (3) Ultrasonic Test Report, 5.1
- (4) Alignment Report, 9
- (5) Compressed Air System Report, 11
- (6) Work Schedule, Deliveries or Performance Paragraph 4
- (7) Accident Prevention Program Plan, Hazard Analysis, Checklist, Special Contract Requirements Paragraph 5.1
- (8) Hazardous Energy Control Plan, Special Contract Requirements Paragraph 5.2
- (9) List of Qualified Welders, Special Contract Requirements Paragraph 9
- (10) Material Safety Data Sheets, Special Contract Requirements Paragraph 14.2
- (11) Paint Certificate, Special Contract Requirements Paragraph 14.3

(End of Summary of Changes)