

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. CONTRACT ID CODE

Page  
1 of 62. AMENDMENT/MODIFICATION NO. 0001  
3. EFFECTIVE DATE 03/26/2010  
4. REQUISITION/PURCHASE REQ. NO. PRSAR100187  
5. PROJECT NO. (If applicable)6. ISSUED BY CODE 00092  
DOT/Maritime Administration, Atlantic Division Acquisition  
Office of Acquisition, MRG-7200,7737 Hampton Boulevard, Building 19, Suite 300  
Norfolk, VA 23505

7. ADMINISTERED BY (If other than Item 6) CODE

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

Crowley Technical Management, Inc.  
9487 REGENCY SQ BLVD  
JACKSONVILLE, FL 32225-8126

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

(X) 10A. MODIFICATION OF CONTRACT/ORDER NO. DTMA8C05004 / CLS04S10006

(X) 10B. DATED (SEE ITEM 13)  
12/03/2009

CODE m FACILITY CODE

**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 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)**

2010 - - X4303 - RRF 931 - 40 - WRA0 - 0 - 0000 - 000000 - 70 - 106131 - 40 - WRA0 - 25432 - 6100 - 6600 -

**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.
<input type="checkbox"/>	
<input type="checkbox"/>	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).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input checked="" type="checkbox"/>	D. OTHER (Specify type of modification and authority) Unilateral IAW G.11 "TASK ORDERS - REIMBURSABLE"

E. IMPORTANT: Contractor  is not,  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.)**

This modification authorizes additional funding and services to be performed in support of the FY10 approved business plan M&amp;R Repairs. See Line Item Summary and attached Statement of Work.

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) Laurel Bishop
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED
16B. Unit BY 	16C. DATE SIGNED 03/27/2010

<b>Line Item Summary</b>	<b>Document Number</b> CLS04S10006/0001	<b>Title</b> WRA FY10 M&R REPAIRS	<b>Page</b> 2 of 6
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Total Funding: \$435,000.00

FYs	Fund	Budget Org	Sub	Object Class	Sub	Program	Cost Org	Sub	Proj/Job No.	Sub	Reporting Category
Division		Closed FYs		Cancelled Fund							

Line Item Number	Description	Delivery Date (Start date to End date)	Quantity	Unit of Issue	Unit Price	Total Cost
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0001	CLIN 0501AE - CAPE WRATH	(11/24/2009 to 12/31/2010)	0.00	JOB	\$170,000.00	\$170,000.00
	Change in Funding, Unit Price THIS IS A CONFIRMING ORDER.					
	FY10 M&R REPAIRS-(Project CLS-WRA10-1005A)					
	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.					
	The Ship Manger is to accomplish the following WO/SRs: See attached Statement of Work.					

Ref Req No: PRSAR100187

Funding Information:  
2010 - - X4303 - RRF 931 - 40 - WRA0 - 0 - 0000 - 000000 -  
70 - 106131 - 40 - WRA0 - 25432 - 6100 - 6600 -  
170,000.00

**Previous Total:** \$265,000.00  
**Modification Total:** \$170,000.00  
**Grand Total:** \$435,000.00  
(Includes Discounts)

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## SECTION A -- SOLICITATION/CONTRACT FORM

### A.1 SUMMARY OF CHANGES

The free form item 'STATEMENT OF WORK has been edited.

### A.2 STATEMENT OF WORK

WRATH  
FY10 M&R REPAIRS

PROJECT NUMBER: CLS-WRA10-1005A

#### 1. WORK ITEM SUMMARY

##### 1. WO/SR 1102941 Replace Faulty Purifier Controls

- a. 5.1 Contractor to provide all labor, equipment and materials in order to install five (5) new EPC60 purifier controller kits to replace the existing controllers that are not parts supportable. Kits will include EPC-60 controller, RTD's, press switches, water block, three-way valve and associated hardware. Vendor shall modify existing mounting brackets to accept new controllers. Three way valves, power supplies and control mechanisms are all to be replaced at this time by the Contractor.
- b. 5.2 Following the completion of the installation, Contractor to supply services of factory trained service technician for initial startup of the units following modification. Any additional time required by the factory technician due to Contractor installation errors are to be to the account of the Contractor.
- c. 5.3 Following completion of acceptance testing by the OEM, Contractor is to prove functionality of the systems to the satisfaction of the vessel Chief Engineer.

##### 2. WO/SR 4745153 Auxiliary Boiler Burner Management Repairs

- a. 5.1 Contractor to supply all labor, equipment and materials in order to replace the existing auxiliary boiler automation system with a modern, domestically supportable burner management automation system. New automation system to be approved by ABS for installation onboard the vessel. Contractor bid shall clearly indicate what manufacturer and model automation system to be installed. New burner management systems is to have the following characteristics as a minimum requirement:
  - b. 5.1.1 Burner management shall be microprocessor based to insure proper burner sequencing, ignition and flame monitoring.
  - c. 5.1.2 Alarm indications shall be through a PLC-based central control system which will feed directly to the currently installed IMAC 55 system. The following alarms are to be provided for at a minimum:
    - d. 5.1.2.1 Low Boiler Steam Pressure
    - e. 5.1.2.2 Low Low Water Level Trip
    - f. 5.1.2.3 Low Water Level Alarm
    - g. 5.1.2.4 High Water Level Alarm
    - h. 5.1.2.5 Low Combustion Air Flow Trip
    - i. 5.1.2.6 Flame Failure Trip
    - j. 5.1.2.7 Low Oil Pressure Trip
  - k. 5.1.3 Combustion controls shall be included which links fuel oil flow to the combustion air flow.

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- l. 5.1.4 Existing feedwater regulation system shall be upgraded to a single element level control.
- m. 5.2 Following completion of repairs, boiler and automation system are to be tested to the satisfaction of the vessel Chief Engineer and the CLS Port Engineer.
- n. 5.3 There will be a Contractor walkthrough
3. WO/SR 4745166 Install Soft Start SCR on Bow Thruster
  - a. 5.1 Contractor to provide all labor, equipment and materials in order to install a soft-starter on the currently installed 450V 2100HP Bow Thruster for the vessel. Soft-start is required to insure adequate power is available for emergency thruster movements during maneuvering. Contractor is to perform the following work under this specification:
    - b. 5.1.1 Contractor to procure a soft-start for the existing Zaklady Mechaniczne Model BC25-15 thrusters. Thrusters are 450V, 2100HP units. All installed mechanical equipment on bow and stern thrusters are fully functional and do not need replacement. Contractor to establish what type of thruster is needed to reduce on-start loads and increase the reliability of the thrusters. Contractor to specify the manufacturer of the soft start as part of the bid submittal. Additionally, the Contractor shall clearly indicate in their proposal the anticipated amp draw for the motors following installation of the proposed soft-start for comparative purposes.
    - c. 5.1.2 Following procurement, Contractor to install the new soft-start unit on the Bow Thruster of the vessel. Soft Start to be installed in the area most convenient to the Contractor, but said location is to be agreed upon by the vessel Chief Engineer. Contractor to specify location of the soft start during the bid process.
    - d. 5.1.3 Following completion of installation, Contractor to test the new unit in the presence of the CLS Port Engineer, vessel Chief Engineer and a representative from the OEM of the Soft Start. OEM representative to be at the account of the Contractor.
  - e. 5.2 Contractor shall include as part of his bid the manufacturer of the equipment to be installed together with product information to include functional description and drawing of final installation as part of the bid package.
  - f. 5.3 There will be a Contractor walkthrough. All questions will be answered at that time.
  - g. 5.4 Contractor is to remove all replaced equipment and properly dispose of all wastes and replaced parts, together with any spares in vessel inventory that are not compatible with the new system in accordance with local, State and Federal guidelines. The vessel Chief Engineer shall make all determinations as to any parts, spares or equipment that should be left on the vessel as usable.

THE FOLLOWING ADDITIONAL WORK ITEMS ARE INCORPORATED BY MOD. NO. 0001:

SR 4745163 Repair Wasted Steel in Tanks,

Mooring Decks: Crop and replace (10) ten Ballast double bottom tank manhole inserts. Replace wasted foundations for the two (2) existing W-1 winches on the aft catwalk, 8 deck stern mooring area. Repair wasted area between 5 Port ballast tank and 5 Center ballast tank.

SR 4745164 Purchase and Install Diesel Doctor Engine Analyzer. Install the vessel-procured Diesel Doctor Engine Analyzer Fuel Monitoring Package on the vessel's Main Engine and five (5) SSDGs.

SR 4745169 Repair Wasted Areas of P & S Main Sea Strainers. Make necessary steel weld repairs to area on main sea water strainers in their body and around sealing surface. Seating surfaced to be built up by welding and machined back to original to retain original seal.

SR 4745170 Rewind Four Grounded Cargo Hold Vent Fan Motors. Remove (4) four cargo hold vent fan motors identified by Chief Engineer and rig each fan motor off of the vessel and to the shop of the Contractor. Once at the shop of the Contractor the following work is to be completed on the fans.

1. Motors shall be rebuilt, including rewinding, rebalancing and being fitted with new bearings and seals. Each motor shall be dynamically balanced and a sheet detailing the results of the balancing is to be provided as proof of completion.
2. Each fan shall be preserved in accordance with OEM requirements including external coatings, internal dielectrics and preservative petroleum coverings as per good industry practice.

SR 4745171 Overhaul of Five (5) SSDG Governors. Provide all labor, equipment and materials in order to have an authorized Woodward Governor repair facility to overhaul the vessel's five (5) SSDG UG-8 governors. Remove each of the

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five governors individually and reinstall each governor after repair prior to removing the next governor to insure that the vessel always has four (4) functional generators.

SR 4745173      Replace Damaged Insulation and Spray Shields. remove and repair insulation from steam and fuel piping in the engine room of the vessels. Areas to be addressed at this time are:

1. Diesel Generator Room, fuel supply piping and fuel return piping for the SSDG units.
2. Diesel Generator Room, fuel station at aft port side of the space.
3. Lower Engine Room, steam manifold and steam piping on lower deck of the engine room aft.
4. Lower Engine Room, piping penetrating fuel pump room bulkheads.

All areas listed above may not be completed at this time due to funding requirements. A full list of areas to be repaired will be provided to the Contractor during the walkthrough.

5. Vendor will also install ABS approve spray shields on identified oil flanges where missing or insufficient for safe operation of the vessel. Areas to be addressed include: Pipe Tunnel, P/S: Steam Lines along passageways. Diesel Generator Room, piping in way of the fueling stations and flexible hose connections at the engines.

All areas listed above may not be completed at this time due to funding requirements.

SR 1103965      Clean, Repair and Preserve Topside Areas of Vessel

SR 1103967      Replace Worn and Damaged Hydraulic Hoses. Change out hydraulic hoses on the following systems:

1. Replace hoses for Cargo Deck 1, 2 and A watertight door actuating cylinders.
2. Replace hoses for Guillotine Door, Cargo Deck 1.
3. Replace hoses for A, B and C deck moveable ramp cylinders.