

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES	
			1	2
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ NO	5. PROJECT NO. (If applicable)	
0004	06/20/2012	MA-PR617-20120589		
6. ISSUED BY	CODE	7. ADMINISTERED BY (If other than Item 6)	CODE	
	00094		00094	
U.S. DOT/ Maritime Administration Pacific Div. Acquisition Office MAR 380-4 201 Mission Street Suite 1800 San Francisco CA 94105		U. S. DOT Maritime Administration Pacific Div. Acquisition Office MAR 380.4 201 Mission Street Suite 1800 San Francisco CA 94105		
8. NAME AND ADDRESS OF CONTRACTOR (No. street, county, State and ZIP Code)		(x)	9A. AMENDMENT OF SOLICITATION NO.	
Patriot Contract Services, LLC Attn: Judy Collins 1320 Willow Pass Rd Ste 485 Concord CA 94520-7940				
			9B. DATED (SEE ITEM 11)	
		x	10A. MODIFICATION OF CONTRACT/ORDER NO.	
			DTMA1H01001	
			PAT13P2012004	
			10B. DATED (SEE ITEM 13)	
			10/31/2011	
CODE	911862242	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 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) Net Increase: \$604,120.00  
See Schedule

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).
x	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-2 Changes Cost Reimbursement Alt II
	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.)

HENRY REPAIRS PCS-HNY12-1005 A4  
HENRY - COST REIMBURSABLE

M&R REPAIRS

THE PURPOSE OF THIS MODIFICATION IS TO INCREASE FUNDING FOR REPAIRS TO COVER LINE ITEM 005, ITEMS A THROUGH N OF THE ABBP.

THIS COMPLETES PROJECT FUNDING AT \$1,461,836.00.

SEE ATTACHED SOW.

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)		
Lisa Hernandez Contracting	Debra K. Velmore		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
	6-21-12		
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

NSN 7540-01-152-8070  
Previous edition unusable

STANDARD FORM 30 (REV. 10-83)  
Prescribed by GSA  
FAR (48 CFR) 53.243

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTMA1H01001/PAT13P2012004/0004

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NAME OF OFFEROR OR CONTRACTOR  
Patriot Contract Services, LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Total Amount changed from \$857,716.00 by \$604,120.00 to \$1,461,836.00.</p> <p>Obligated Amount for this modification: \$604,120.00</p> <p>CHANGES FOR ACCOUNTING CODE: 70XR161710.2012.93340HNY00.1261000000.25432.610066 00.7012613340HNY0 Amount changed from \$816,721.00 to \$1,420,841.00</p> <p>Delivery Location Code: 00094-CAPE HENRY Cape Henry Patriot Contract Services COTR: Kimon Antoniadis Pier 96 San Francisco Ca 94107-9991</p> <p>Payment: MARAD A/P INVOICES 6500 SOUTH MACARTHUR BLVD OKLAHOMA CITY OK 73169</p> <p>FOB: Destination Period of Performance: 10/31/2011 to 12/31/2012</p>				

CAPE HENRY MA-PR617-20120589

FY 12 REPAIRS

PROJECT: PCS-HNY12-1005 A4

MOD4

This SOW replaces in its entirety the SOW of MOD3.

End of performance period is December 31, 2012

Line Item: 001

**A. S/R 1804060 - Sludge Tank Equipment and Piping Modifications (MARPOL); Compliance**

Intent: The intent is to implement the work scope of Naval Architect services to create the necessary one line piping schematics and drawings for the new MARPOL Sludge Tank regulations (Annex I, Reg. 12) making it mandatory to have a designated pump for the sludge tank with no discharge connections to the bilge system, oily bilge water holding tank, tank top, or oily water separator, unless the sludge tank is fitted with a drain, has manually operated self-closing valves, and has means of visually monitoring the settled water. This drain should lead to an oily bilge water holding tank, bilge well, or alternative arrangement provided it does not connect directly to the bilge piping system. Upon completion of drawings, accomplish mods required including the installation of piping, valves and fittings to meet the MARPOL requirements and to enable ABS issuance of IOPP annual certificates.

**B. S/R 1804975 – CO2 Regulatory Modifications**

Intent: The intent of this S/R is to engineer and provide specifications and drawings to revise/modify the Chemetron Fixed CO2 system to come into compliance with the provisions of paragraph 2.2.2 of chapter 5 of the Fire Safety Systems code as required by 2010 SOLAS. This modification will provide for two separate controls for releasing carbon dioxide into a protected space. The work entailed is to first accomplish the necessary engineering review of the existing system technical documentation and verification of the existing configured system aboard vessel. Engineered drawing development to completely revise/modify LP CO2 system to reflect regulatory requirements, and then obtain approvals from ABS. Engineering development and approvals work must include a complete review of discharge timed release calculations, verification of volumetric dimensions of all protected spaces, installation of secondary controls stations and associated piping, fittings and tubing, replacement of LP CO2 tank mountings valves, and installation of fill station liquid and vapor fill piping and fittings to current standards routed to the vessels starboard side, side port.

The further intent of the work in this service request is to completely dissect the existing technical documentation of the vessels LP CO2 system and incorporate all new specified documentation and

engineering with existing documentation to include/revise all information into one clear and concise operating/technical operations and maintenance manual.

**C. S/R 1804997 – Sewage System; Annex IV Survey/Compliance**

Intent: The intent is to implement the work scope of Naval Architect services to create the necessary one line piping schematics and drawings for sewage system Annex IV regulations to allow for ABS issuance of Statement of Voluntary Compliance Annex IV. Upon completion of drawings, accomplish mods required including the installation of piping, valves and International Connection fittings to meet the Annex IV requirements. Update existing drawings to reflect “As Built” conditions and provide three (3) CD-RM electronic copies of the drawings in AutoCAD or another format fully compatible with AutoCAD.

**D. S/R 1704873 – Main Engine Controls; Engineering**

Intent: The intent of this S/R is to provide OEM engineering services to Retro-fit/survey the existing semi functional main engine control system for replacement to meet Regulatory requirements. Develop, Regulatory Approved, drawings to replace/modify/Retro-fit components of the existing system and include ABS Type Approvals, Engine Control Diagrams, Engine Interface Specifications, Cable Layout and block diagrams, Main Engine Control Interface wiring diagrams, E10 and ECR Console wiring diagrams, E20, E25, wheel house and auxiliary blower wiring diagrams, Cable lists for signal, Can Bus, and power cables, operational procedures, Periodic Safety Test Procedures, Automatic Design Verification Test Procedures, Fault Failure Mode Analysis, . Also, provide list of required spare parts to support the upgraded system. Auto chief 20 Wartsila/Kongsberg system is presumed to be the new system of choice as recent installations of propulsion controls to Cape Orlando, Cape K's, Cape W's is intended as these other MARAD vessels with same main engines have been retrofitted with this system and the basic engineering is already in place. This engineering request will produce the necessary drawings and procedures necessary for class to approve prior to the vessels next Annual Surveys scheduled for January 2012.

**E. S/R 1704924 CO2 Tank & Station Valve & Piping Repairs; Provide**

Intent: The intent of this item is to accomplish repair and or replacement of the vessels CO2 tank, controls, vapor and liquid fill valves and piping to enable refilling of CO2 into tank as existing valves and piping are allowing CO2 levels to fall below required minimum. Piping to existing fill stations requires replacement complete with new spool pieces, vent valves, safety valves and filling valves.

**F. S/R 1704927 Mooring Lines; Provide**

Intent: The intent of this item is to provide mooring lines 720 feet long with canvas eyes to replace existing deteriorated mooring lines prior to the harsh winter season.

**CAPE HENRY  
FY 12 REPAIRS  
PROJECT: PCS-HNY12-1005A1**

**Line Item: 002**

**A. S/R 1802966 Pumps; Overhaul**

Intent: The intent of this work order is to do a complete overhaul of designated pumps. Ballast pumps inboard, Fire pump #1 #2, fuel oil X-fer pump are to be completely overhauled coupled with replacing vessel spares as used.

**B. S/R 1704868 SSDG Obsolete Filter Strainers; Replace**

Intent: The intent of this work order is to replace existing MGO combination SSDG fuel filter/strainer system manufactured by Kansai and replace with Boll or Racor style filter strainers. Modify existing foundations and piping to suit installation of new filter strainers.

**CAPE HENRY  
FY 12 REPAIRS  
PROJECT: PCS-HNY12-1005A2**

**Line Item: 003**

**A. S/R 1803124 Start Air Moisture Dryer; Provide & Install**

The intent of this work order is to procure a new refrigerated air dryer and install the dryer in series with the existing compressed air system for the purpose of removing moisture from compressed air. This installation will duplicate the installation of the Horn and Hudson installation.

**B. S/R 1804771 Main & SSDG Engine Jacket Water Heaters; Install**

The intent of this item is to provide labor, material, and equipment to accomplish the installation of supply and return main engine and SSDG cooling water in port heating piping from the owner furnished circulating pumps and heater with thermostatic controls and pump controller. A sample configuration of this system currently exists aboard the vessel Cape Orlando for main engine heating circuit with regards to pipe sizing, valves, temperature sensing, gauge ports and relief valve. Provide for fabrication of foundations to mount equipment and installation of connecting piping, fittings and valves to connect into the vessels LT cooling water jacket system.

**C. S/R 1704869 Aux. Boiler Refractory Repairs; Provide**

The intent of this item is to accomplish auxiliary boiler refractory repairs to auxiliary oil fired boiler internal firebox refractory at the rear wall of fire box. As aux boiler ABS special survey inspections are due this upcoming survey cycle, repairs will be required to restore refractory within the fire box to satisfy inspection requirements. Remove and replace approximately 25 square feet of rear wall plasticized boiler refractory. Form, mix and install new refractory into areas where refractory was removed and accomplish pounding of refractory for tight adhesion to existing rear wall refractory. With vessel crew assistance, operate boiler at low fire to correctly cure refractory.

**D. S/R 1704874 Main Engine Controls; Cabling Provide & Install**

The intent of this work order is to accomplish the procurement and installation of the required additional electrical CAN Bus, Control, and Power cabling for the installation Auto chief C20 DENIS R Wartsila/Kongsberg system complete with necessary unit foundations and ends similar to recently installed controls to Cape Orlando is intended as several MARAD vessel have been retrofitted with this system and the basic engineering is already in place. This engineering request will produce the necessary drawings and procedures necessary for class to approve.

**E. S/R 1704877 Main Engine Controls; Components Provide**

The intent of this work order is to provide electronic engine control system components for Auto chief C20 DENIS R Wartsila/Kongsberg system similar to recently installed controls to Cape Orlando is intended as several MARAD vessel have been retrofitted with this system and the basic engineering is already in place. System components being provided per this service request are power supply equipment and modules, Digital Output modules, Digital Input modules, Analog output modules, Analog input modules, telegraph controls, main engine interface modules, pneumatic plate controls, display interfaces, gauges, meters and relays and associated interconnecting prefabricated cables.

**F. S/R 1704867 Main Engine Controls; Installation**

The intent of this work order is to accomplish the installation of previously procured propulsion control system materials and components utilizing Ros crew, Wartsila Service Engineer and industrial support to make connections and hook-ups per approved installation drawings. Upon installation a separate order will be issued to accomplish software upload, commissioning, dockside and sea trial operational and ABS required testing.

**G. S/R 1704866 Main Engine Controls; Spares Provide**

The intent of this work order is to accomplish the procurement of spares for the Auto chief 20 Wartsila/Kongsberg system similar to recently installed controls to Cape Orlando is intended as several MARAD vessel have been retrofitted with this system and the basic engineering is already in place. Per recommended spares list, provide the recommended spares consisting of spare power supply equipment and modules, Digital Output modules, Digital Input modules, Analog output modules, Analog input modules, telegraph controls, main engine interface modules, pneumatic plate controls, display interfaces, gauges, meters and relays and associated interconnecting prefabricated cables.

**H. S/R 1804113 Environmental Hazard Hyd. Hoses; Replace**

The intent of this item is replace hydraulic hoses on the main deck as part of an ongoing program to continually replaces all the hydraulic hoses on the weather decks located in the weather deck fan stations which connect to the automatic damper hydraulic cylinders and winch braking units.

**I. S/R 1705156 Cargo Hold Combustible Gas Detection System Components; Remove/Replace**

The intent of this item is to provide labor, material, and equipment to accomplish the following: Remove the existing nonfunctional, non-supportable MSA gas detection system components to allow for portable system monitoring of cargo holds during loading operations. Where components are removed from with the cargo control room, restore control cabinets with blank plates to restore cabinet fronts. Ensure all removals are documented and any unused wiring is removed and or tailed via terminal strips.

**J. S/R 1705236 P&S Tunnel Steel Repairs in way of Steam Stations; Provide**

The intent of this item is to provide labor, material, and equipment to accomplish Structural repairs to the steam stations # located in the port and starboard piping tunnels where adjacent structure to the stations has been found deteriorated and holed as a result of the leaking steam stations now being overhauled and refurbished under reference PO# 1704211.

**CAPE HENRY**

**FY 12 REPAIRS**

**PROJECT: PCS-HNY12-1005A3**

**Line Item: 004**

**A. S/R 1705746 Containments for VGP; Provide**

The intent of this item is to provide labor, material, and equipment to accomplish the following: Renew and replace two (2) fuel oil vent overflow steel containments. Insert new plating to repair wasted steel divisional plating, seven feet (7') long by one foot (1') high, of the lower athwart ship bulkhead between the numbers 16 and 18 port vent fans. Repair and renew door seals by clad welding access door sealing surfaces (bulkheads and doors) and installing new gaskets for the number 16 and number 18 port vent fan doors.

**B. S/R 1704924 CO2 Tank & Station Valve & Piping Repairs; Provide)**

**Intent:** The intent of this item is to accomplish repair and or replacement of the vessels CO2 tank, controls, vapor and liquid fill valves and piping to enable refilling of CO2 into tank as existing valves and piping are allowing CO2 levels to fall below required minimum. Piping to existing fill stations requires replacement complete with new spool pieces, vent valves, safety valves and filling valves.

CAPE HENRY  
FY 12 REPAIRS  
PROJECT: PCS-HNY12-1005A4

Line Item: 005

**A. S/R 1705971, Machinery Spaces Deck Plate; Repair/Renewal**

The intent of this item is to provide labor, material, and equipment to accomplish the following: Deck plating in the engine spaces needs to be replaced and/or repaired where it has been damaged, or where the current configuration interferes with the safe and efficient operation of the plant. In the purifier space all the diamond plate is to be removed and replaced with gratings. In the boiler room, main and auxiliary engine spaces, plates that have been identified by the port engineer are to be removed and replaced with new plates. A further aim of this item is that all deck plates and gratings will have a total of at least four attachment points to the framing they rest on.

**B. S/R 1705998, Emergency Generator Weather Deck Plenums; Recondition**

The intent of this item is to provide labor, material, and equipment to accomplish the following: Plenum and vent ducting for the emergency diesel generator is to be cleaned and scaled. After this is accomplished, these structures are to be coated to the proper standard and new weather resistant fasteners for louver screens are to be installed.

**C. S/R 1706010, Engine Room Supply Exhaust Plenums; Renew**

The intent of this item is to provide labor, material, and equipment to accomplish the following: The plenums containing the engine room supply/exhaust fans shows extensive corrosion and deferred maintenance of fittings. Also, certain electrical and mechanical elements have found to be sub-standard. This work will refurbish this space to an operational standard.

**D. S/R 1706001, Winch Brake Band and Drum; Repair**

The intent of this item is to provide labor, material, and equipment to accomplish the following: Forward combination anchor windlass and mooring winch units, #2 and #3, are in need of repair and service. These units consist of an integrated mooring winch and anchor windlass, mooring line roller assembly and anchor chain stopper assembly with associated hawsepipe barrier stanchions. Areas to be addressed are mechanical controls, brakes and stops, structural repairs, removal of rust and scale, paint, lubrication, and modification of wiring to reflect the current configuration of winch controls

**E. S/R 1706000, Corroded Fueling Station (Port); Refurbishment**

The intent of this item is to provide labor, material, and equipment to accomplish the following: Refurbish the port side fueling station by scaling, cleaning and recoating all surfaces, removing all extraneous fittings, replacing all fittings that are in compromised condition, and refurbishing mechanical and electrical equipment as required.

**F. S/R 1705999, Exhaust Gas Boiler Tubes; Inspect/Procure**

The intent of this item is to provide labor, material, and equipment to accomplish the following: Prepare the Exhaust Gas Boiler for inspection, and for possible re-tubing. This would include opening up the boiler, cleaning, removal of deteriorated lagging and fabrication of replacements, and service of all boiler fittings as can be accomplished preparatory to the actual re-tubing.

**G. S/R 1705955, Operational Placards and Signage; Procure**

The intent of this item is to provide material to accomplish the following: In the interests of the safe and efficient operation of the vessel, it has been determined that it would provide best value to label the ships piping such as to meet the standards of ISO Standard 14726. Ready-made pipe labeling tapes of a material suited to the shipboard environment have been found to be the best way to achieve this. Brady Corporation manufactures a line of roll form markers that meet the environmental and durability requirements of the vessel.

**H. S/R 1704864, Main Engine Controls; Commissioning**

The intent of this work order is to accomplish commissioning of the newly installed Auto chief C20 Wartsila/Kongsberg system to initiate and set parameters within the Auto Chief System Software to duplicate main engine requirements for operations. Upon loading and setting parameters/commissioning, Wartsila and Kongsberg commissioning engineers required prior to and during sea trials to prove settings and accomplish Automation Design Verification and Safety Periodic Test Procedures in the presence of attending ABS Sea Trial Surveyor.

**I. S/R 1704880, SSDG #5 Space Class Compliance Bulkhead; Repairs**

The intent of this service request is to provide labor, material and equipment in the #5 SSDG machinery room seal the CO2 protected space where open areas exist leading to main machinery space which require sealing to contain CO2 release to #5 SSDG space. The work also entails modifications to adjoining fiddly space door and installation of compliant louver assembly.

**J. S/R 1704817, Salt Water Pump Strainer Repairs; Provide**

The intent of this service request is to effect repairs identified during regulatory body inspections of various pumps throughout the main machinery spaces of the vessel and during operational testing, the In Port Salt Water Suction Strainer blew a hole through its body adjacent to discharge off sticker piping. In addition to the In Port Strainer, the existing two each main salt water strainers require removal and structural/preservation repairs and reinstallation.

**K. S/R 1804259, Stern Ramp (Phase 3); Repairs**

The intent of this item is to provide labor, material, and equipment to accomplish the following repairs to the stern ramp controls to enable power isolation and environmental controls to the existing programmable logic controls for operation of stern ramp within the existing controller cabinets.

**L. S/R 1704885, Deteriorated Piping Lagging; Remove & Replace**

The intent of this work order is to completely remove the deteriorated and crumbling fuel oil x-fer piping header piping insulation within the port and starboard tunnels. Approximately 480 feet of 10" 250mm piping header padded lagging is to be removed and renewed. Lagging and padding repair required to steam heating coil supply and return piping throughout the P&S tunnels. Two inch supply and 1 1/4" return piping lagging to be removed and replaced. Estimate two hundred lineal feet per tunnel of lagging and padding to be renewed.

**M. S/R 17042823, Stern Ramp Hydraulic Buttress Cylinders; Remove**

The intent of this item is to accomplish the removal of existing obsolete header and control piping to the vessel stern ramp flap cylinders to prevent hydraulic fluid discharge through leaking seals while ramp is operated to raise or lower. Operational testing of the stern ramp this week has demonstrated the possibility of fluid spills from this obsolete equipment. Intent is to remove equipment and hard blank piping at cylinders and controls station. Obsolete electrical controls and foundations are to be removed in addition to piping.

**N. S/R 1704870 Replenishment of Spares Consumed; Provide**

Intent: The intent of this work order is to replenish spare parts consumed during regulatory body pump inspections and spares consumed. Three each salt water pump shafts, one each impeller, two each mechanical seals