

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	Page 1 of 6	
2. AMENDMENT/MODIFICATION NO. 0004	3. EFFECTIVE DATE 11/17/2009	4. REQUISITION/PURCHASE REQ. NO. See Lines	5. PROJECT NO. (If applicable)			
6. ISSUED BY DOT/Maritime Administration, Atlantic Division Acquisition Office of Acquisition, MRG-7200,7737 Hampton Boulevard, Building 19, Suite 300 Norfolk, VA 23505		CODE 00092	7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and Zip Code) MARINE SYSTEMS CORPORATION 70 FARGO STREET BOSTON, MA 02210-2122			9A. AMENDMENT OF SOLICITATION NO.			
			9B. DATED (SEE ITEM 11)			
			(X)	10A. MODIFICATION OF CONTRACT/ORDER NO. GS-23F-0342K / DTMA2F09008		
			(X)	10B. DATED (SEE ITEM 13) 02/24/2009		
CODE *		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)

See Line Item Detail

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 checked="" type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Mutual agreement of the parties.
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

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 accomplishment of final design documents relative to MSD and RO installations. 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) <i>Synthia Farrell-Norton, VP Contracts</i>		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Milton G. Spears	
15B. CONTRACTOR/OFFEROR <i>Synthia Farrell-Norton</i> (Signature of person authorized to sign)	15C. DATE SIGNED 11/17/09	16B. United States of America BY <i>Milton G. Spears</i> (Signature of Contracting Officer)	16C. DATE SIGNED 11/17/2009

Line Item Summary	Document Number DTMA2F09008/0004	Title SOM DESIGN WORK	Page 2 of 6
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Total Funding: \$123,703.70

FYs	Fund	Budget Org	Sub	Object Class	Sub	Program	Cost Org	Sub	Proj/Job No.	Sub	Reporting Category
See Line Item(s)											
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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0004	COMPLETE MSD AND RO INSTALL DESIGNS	12/15/2009 (11/17/2009 to 12/15/2009)	1.00	JOB	\$36,112.70	\$36,112.70
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This is a New Line
 PERFORM ALL ENGINEERING AND DESIGN WORK RELATIVE TO THE REVERSE OSMOSIS PLATFORM AND NEW MSD
 INSTALLATION IN ACCORDANCE WITH THE ATTACHED STATEMENT OF WORK.

Ref Req No: PRSAR090235/0005

Funding Information:
 2010 - - X1750 - SMR 120 - SM - B107 - 0 - 0000 - 160000 -
 - - - - 25711 - 6100 - 6600 -
 36,112.70

Previous Total: \$87,591.00
Modification Total: \$36,112.70
Grand Total: \$123,703.70
 (Includes Discounts)

Address Detail**Title**
SOM DESIGN WORK**Document Number**
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3 of 6**Shipping Addresses**

Code	Detail	Code	Detail
0001	Org: DOT/Maritime Administration, Atlantic Division Of Addr: STATE OF MAINE Maine Maritime Academy Castine ME 04420 Attn: Joe Poltrack Phone: (207) 326-2421 ext. Fax: (207) 326-2121 ext.	0002	Org: DOT/Maritime Administration, South Atlantic Regio Addr: STATE OF MAINE Maine Maritime Academy Castine ME 04420 Attn: Joe Poltrack Phone: (207) 326-2421 ext. Fax: (207) 326-2131 ext.

Invoice Addresses

Code	Detail
0001	Org: DOT/ Enterprise Services Center (ESC) OFO/FAA, Addr: MARAD A/P Branch, AMZ-150 PO Box 25710 Oklahoma City OK 73125 Attn: Christy Remington, Accounting Technician Phone: (405) 954-1693 ext. Fax: (405) 954-1270 ext.

Requisitioning Office Addresses

Code	Detail
0001	Org: DOT/Maritime Administration, South Atlantic Regio Addr: 7737 Hampton Blvd. Bldg. 4D Room 211 Norfolk VA 23505 Attn: Tim Baka, Marine Surveyor/ACOTR Phone: (757) 441-3137 ext. Fax: (757) 440-0321 ext.

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SECTION A -- SOLICITATION/CONTRACT FORM

A.1 SUMMARY OF CHANGES

The free form item 'CLIN 0004 MSD & RO DESIGN STATEMENT OF WORK has been added.

A.2 CLIN 0004 MSD & RO DESIGN STATEMENT OF WORK

STATEMENT OF WORK

TITLE: Installation Drawings for a Reverse Osmosis Platform and New Forward MSD aboard T.S. State of Maine

INTENT:

It is the intent of this Statement of Work (SOW) to develop and provide ABS and USCG stamped approved drawings detailing all new and interconnecting mechanical and electrical systems associated with installation of a new forward MSD. In addition, it is the intent of this SOW to provide an ABS and USCG stamped approved drawing for a new platform to hold the new Lifestream, 60 ton per day reverse osmosis unit.

LOCATION:

The Training Ship State of Maine is currently located pier side at the Maine Maritime Academy, Castine, ME 04421.

PERFORMANCE PERIOD:

This PWS can begin immediately after award and is to be accomplished by December 15, 2009. Access to the ship shall be from 0700 to 1700, Monday thru Friday exclusive of federal holidays.

DESCRIPTION:

The contractor shall perform all necessary engineering and design work to produce ABS and USCG stamped-approved, detailed drawings for installation of a platform for a new reverse osmosis unit and installation of a new, forward MSD and all associated equipment. In addition, the contractor shall modify the existing Fire and Safety Plan, Trim and Stability Booklet and CargoMax program to reflect any changes resulting from installation of this work.

- 1) Reverse Osmosis Platform Drawing: The platform for the new reverse osmosis unit shall be located as defined in MSC drawing 3190-001-02 to provide support and a containment for a 60 ton per day unit as described in Lifestream drawing SW8M-072709-120-101.
- 2) MSD Installation Drawings: The new detailed MSD drawings shall be based on the conceptual drawings previously provided by Marine Systems Corporation (MSC) and shall include, at a minimum, the following:
 - a) Material Lists: Material lists to include all structural, piping, ventilation and electrical materials required to complete the installation.
 - b) MSD Foundation: Details for a new, 18" high supporting foundation beneath the new forward MSD which will permit maintenance checks of the MSD bottom plating and the deck beneath it.
 - c) Containment and Bilge Well: Details of a new containment around the new forward MSD to include a bilge well and motor operated pump which shall be installed to discharge to the forward lift station.

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- d) **Boundary Fire Ratings:** Details of all required boundary fire ratings (doors, overheads and bulkheads) for the newly created machinery space where the new MSD is to be located.
- e) **Machinery Space Ventilation:** Details of a new exhaust fan and ducting for the newly created forward machinery space.
- f) **Tank Vent:** Details of a new MSD tank vent to be routed up the forward mast.
- g) **Effluent Overboard:** Details for a new, port and starboard, effluent overboard line for the new MSD. These lines shall discharge at both the port and starboard side hull in the area of the new MSD location.
- h) **Doors:** Details for 2 new gas tight doors (one forward, one inboard) of the new machinery space.
- i) **Penetrations and Compensations:** Details of all new penetrations (piping, ducting and electrical) and required compensations associated with the new installation.
- j) **Monitoring and Alarms:** Details of all required monitoring and alarms.
- k) **Aft MSD Lift Station:** Details for a new lift station outboard of the existing Aft MSD. This new lift station vent shall tie into the existing aft MSD vent line. In addition, the lift station shall have a suction line tying it into the existing aft, effluent pump suction.
- l) **Electrical:** Detailed electrical analysis and drawings indicating power sources, circuit breaker sizing, overload protection and wiring routes for all equipment associated with installation of the new MSD.

Prior to submitting any drawings for ABS/USCG approval, a copy shall be provided to the Contracting Officer's Technical Representative (COTR) for comment.