

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE J	PAGE OF PAGES 1 3
2. AMENDMENT/MODIFICATION NO. 0004	3. EFFECTIVE DATE 02-Sep-2004	4. REQUISITION/PURCHASE REQ. NO. W25PHS-4184-0392		5. PROJECT NO.(If applicable)
6. ISSUED BY US ARMY ENGINEER DISTRICT, PHILADELPHIA CONTRACTING DIVISION WANAMAKER BUILDING 100 PENN SQUARE EAS PHILADELPHIA PA 19107-3390	CODE W912BU	7. ADMINISTERED BY (If other than item 6) US ARMY ENGINEER DISTRICT, PHILADELPHIA POC: CHERITA WILLIAMS WANAMAKER BUILDING 100 PENN SQUARE EAST PHILADELPHIA PA 19107-3390		CODE E5CTSCLW
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)		X	9A. AMENDMENT OF SOLICITATION NO. W912BU-04-B-0026	
		X	9B. DATED (SEE ITEM 11) 03-Aug-2004	
			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 <u>1</u> 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) Provide One Triple Steel Screw Towboat				
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.) The following is Amendment 0004 W912BU-04-B-0026 to Provide One Triple Screw Steel Towboat. Please indicate receipt of this Amendment on Standard Form 33(Solicitation, Offer, Award) as Amendment 0004. Failure to acknowledge all Amendments may be a cause for rejection of bid. The bid opening date remains the same of 16 September 2004. (Amendment Number 0004 continued on next page.)				
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	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)		

- Ability to add outside fresh air
- Thermostatic control mounted on the unit
- Multiple fan speed

3. Fire Detection System Interconnection

Each unit shall be provided with controls linked to the fire detection and alarm system. All of the heat pump units and the Galley/Mess Split System shall shutdown with the activation of the fire detection and alarm system. See contract Clause C678.

D. VENTILATION

1. Upper & Lower Engine Room

The Contractor shall provide and install a mechanical supply and exhaust ventilation system for the upper and lower engine room.

a. Ventilation Calculations

The ventilation system shall be designed to:

- provide a minimum of two air changes per minute to the upper and lower engine room or maintain the space temperature at 120 degrees F or below. The larger criteria should be used. It shall be assumed that the outside temperature is 95 degrees F.
- provide positive pressure to the entire space (upper and lower engine room) at all times.
- account for carrying away the radiated heat of both main engines operating at the engines' maximum rating at the same time.
- ~~account for the combustion air requirements of the diesel driven fire pump as well as the radiated heat of the engine operating at its maximum rating.~~
- supply and carry away the proper amount of air for all other equipment operating in the upper and lower engine room.

The Contractor shall perform calculations to determine the sizes of the supply inlets and exhaust outlets required and the size of the supply and exhaust fans required. The calculations along with cutsheets of the equipment selected shall be submitted for review and acceptance by the COR prior to the purchase of any equipment by the Contractor.

b. Supply Fans

- The auto-centering feature for the flanking rudders.
- The emergency operation of the system.
- Walking the vessel in the port and starboard directions.

The above features shall be demonstrated while performing a series of S-curves and while making a series of 360 degree turns in each direction.

9. CRASH STOP

With the vessel running light, the vessel shall be brought from full speed and rpm ahead to full speed and rpm astern to stop. Record the distance the vessel travels and the time from full speed and rpm ahead to full rpm astern and to stop. ~~Verify the operation of the shaft brakes.~~

Turn the vessel and repeat the crash stop while heading in the opposite direction.

10. COMMUNICATION & NAVIGATION EQUIPMENT

During the Open Water/River Trials, the following equipment shall be demonstrated:

- Public address/loudhailer
- VHF radios
- Radars
- Fathometer and all transducers
- Swing meter
- GPS/DGS and Chart Plotter
- Wind monitor
- Air horn with whistle light
- Automatic foghorn/light combination

11. NOISE SURVEY

The survey will entail the taking of sufficient noise measurements in each of the vessel's spaces to determine noise levels. A report shall be prepared containing the survey results.

The Contractor shall perform the survey using a subcontractor especially qualified for this work either by training or experience. The Contractor shall identify the proposed subcontractor in the Subcontracting Plan (see Clause H09) and include the subcontractor's qualifications.

The survey shall be conducted for each of the following conditions with all ventilation equipment and systems in full operation: