

DELIVERY ORDER **DRAFT**

1. CONTRACT NO. N00178-04-D-4033	2. DELIVERY ORDER NO. 000203	3. EFFECTIVE DATE ORIG 05/19/2005 MOD 09/19/2005	4. PURCHASE REQUEST NO. N65540-05-MR-55334
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5. ISSUED BY CODE: N65540 NSWC, CARDEROCK DIVISION, PHILADELPHIA Elizabeth J Youse 3351 NAVSSSES Philadelphia, PA 19112-1403 Elizabeth.Youse@navy.mil 215-897-7768 Ext.	6. ADMINISTERED BY CODE: S3915A DCMA PHILADELPHIA 700 ROBBINS AVENUE, BLDG. 4-A, P.O. BOX 11427 PHILADELPHIA, PA 19111-0427
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7. CONTRACTOR CODE: 08LQ0 Delphinus Engineering, Inc. 650 Baldwin Tower Eddystone, PA 19022-1366 TIN: 23-2784914	FACILITY	8. DELIVERY DATE See Section F
		9. CLOSING DATE/TIME
		SET ASIDE TYPE
		10. MAIL INVOICES TO See Section G

11. SHIP TO See Section D	12. PAYMENT WILL BE MADE BY CODE: HQ0337 DFAS Columbus Center, North Entitlement Operations P.O. Box 182266 Columbus, OH 43218-2266
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13. TYPE OF ORDER	<input checked="" type="checkbox"/> D	<input checked="" type="checkbox"/> X	This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above-numbered contract.
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ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.

Delphinus Engineering, Inc.	Ranjit K. Das, President
NAME OF CONTRACTOR	SIGNATURE
	TYPED NAME AND TITLE
	DATE SIGNED

14. ACCOUNTING AND APPROPRIATION DATA
See Section G

15. ITEM NO.	16. SCHEDULE OF SUPPLIES/SERVICES	17. QUANTITY ORDERED/ACCEPTED*	18. UNIT	19. UNIT PRICE	20. AMOUNT
See the Following Pages					

*If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.	21. UNITED STATES OF AMERICA By: Annette Bucci	08/22/2005 CONTRACTING/ORDERING OFFICER	22. TOTAL
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SECTION	DESCRIPTION	SECTION	DESCRIPTION
B	SUPPLIES OR SERVICES AND PRICES/COSTS	H	SPECIAL CONTRACT REQUIREMENTS
C	DESCRIPTION/SPECS/WORK STATEMENT	I	CONTRACT CLAUSES
D	PACKAGING AND MARKING	J	LIST OF ATTACHMENTS
E	INSPECTION AND ACCEPTANCE		
F	DELIVERIES OR PERFORMANCE		
G	CONTRACT ADMINISTRATION DATA		

The purpose of this modification is to modify the Statement of Work to require the contractor to install a cofferdam. Accordingly, said Task Order is modified as follows:

(1) The following is added to the Statement of Work contained in Section C of this Task Order:

2.3.15 Contractor shall provide a cofferdam as required for removal and relocation of existing overboard.

(2) As a result of the additional work, the ceiling amount of this Task Order is increased by [REDACTED] from [REDACTED] to [REDACTED]

(3) The SLINs for this Task Order are revised as follows:

(a) SLIN 0001AA is reduced by a total of [REDACTED] from [REDACTED] to [REDACTED]

(b) SLIN 0003AC is created in the amount of [REDACTED] and will be fully funded.

(c) SLIN 0003AD is created in the amount of [REDACTED] and will be fully funded.

A conformed copy of this Task Order is attached to this modification for information purposes only.

ACCOUNTING INFORMATION FOR MOD 03:

AD 97X4930.NH1C 000 77777 0 000167 2F 000000 058915316999 [REDACTED]

REQ # 52454026

SECTION B SUPPLIES OR SERVICES AND PRICES

CLIN - SUPPLIES OR SERVICES

For Cost Type Items:

0001

Item	Supplies/Services Qty	Unit Est. Cost	Fixed Fee	CPFF
0001AA	Engineering, Technical and Logistics Support for HFC-236fa SHIPALT (OPN)	1.0 Lot		

Item	Supplies/Services Qty	Unit Est. Cost	Fixed Fee	CPFF
0001AB	Same as CLIN 0001AA (informational SLIN to show line of accounting) (OPN)	1.0 Lot		

Item	Supplies/Services Qty	Unit Est. Cost	Fixed Fee	CPFF
0001AC	Same as CLIN 0001AA (informational SLIN to show line of accounting) (OPN)	1.0 Lot		

For ODC Items:

Item	Supplies/Services Qty	Unit Est. Cost
0003		
0003AA	Engineering, Technical and Logistics Support for HFC-236fa SHIPALT (OPN)	1.0 Lot
0003AB	Same as CLIN 0003AA (informational SLIN to show line of accounting) (OPN)	1.0 Lot
0003AC	Same as CLIN 0003AA (informational SLIN to show line of accounting) (OPN)	1.0 Lot
0003AD	Same as CLIN 0003AA (informational SLIN to show line of accounting) (OPN)	1.0 Lot

CONTRACT NO. N00178-04-D-4033	DELIVERY ORDER NO. 000203	PAGE 2 of 11
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SECTION C DESCRIPTIONS AND SPECIFICATIONS

STATEMENT OF WORK

1 SCOPE

1.1 General Scope:

The Programs and Platforms Department, Special Programs Section, Technology Deployment Branch (Code 9153) of the Naval Surface Warfare Center, Carderock Division (NSWCCD), Ship Systems Engineering Station (SSES) requires the services of a contractor to provide materials, tooling and personnel to accomplish HFC-236fa Ship Alteration (SHIPALT) on R-114 Air Conditioning Plants (originally manufactured by York International) aboard the USS HUE CITY CG-66 (2 AC Plants).

1.2 Government Furnished Services:

To the extent that the following services are required to perform the SHIPALTS, such services will be provided by the Naval Supervising Activity:

1.2.1 Crane and rigging

1.2.2 Painting and lagging

2 REQUIREMENTS

2.1 General Requirements:

2.1.1 In accordance with the NSWCCD schedule and as coordinated by the NSWCCD Field Representative, the contractor shall provide engineering services, manpower, material support, and required technical supervisory, and field service support to modify designated shipboard Air Conditioning plants in accordance with the HFC-236fa Installation Kits/Procedures provided as GFM/I and Reference 3.10.

2.1.2 Installation Team must include a Site Foreman with experience in the installation and repair of shipboard refrigeration/air conditioning plants.

2.1.3 Team members tasked to perform conversion, repair and alterations on installed/existing Air Conditioning equipment that could be expected to release Class 1 (CFC) refrigerants into the atmosphere must possess EPA-approved Universal technician certification in accordance with Section 608 of the U.S. Clean Air Act, 1990, as amended.

2.1.4 Contractor shall provide storage containers at each pier side site for staging of materials to support the HFC-236fa installation.

2.1.5 Contractor shall provide special materials and inspection services as required to support the installation.

2.1.6 Contractor shall have Quality Systems that complies with NAVSEA Standard Item 009-04. Contractor shall develop a QA Work Book in a format approved by NSWCCD-SSES for each SHIPALT.

2.2 TASK 1

In accordance with the NSWCCD schedule and as coordinated by the NSWCCD Field Representative, contractor shall conduct a Pre-Alteration Site Survey/Shipcheck to: determine the condition of, and requirements for, overhaul or replacement of items not affected by the modification in accordance with NSWCCD test procedures; determine requirements for removal of interferences and establish removal and access routes for the old equipment to be removed and new equipment to be installed; and identify new support equipment locations for the modification of new electrical enclosures, piping runs, and mounting brackets. The contractor shall provide a Ship Check Report with results of Site Survey and Installation Sketches to NSWCCD utilizing government provided data sheets. Based on site survey and any unique repairs authorized by NSWCCD, contractor shall revise the initial POA&M and provide an estimate of materials and labor required to accomplish conversion of each plant prior to start of work (estimate to specifically identify cost for repair/overhaul of items not part of the conversion).

2.3 TASK 2

In accordance with the NSWCCD schedule and as coordinated by the NSWCCD Field Representative, install HFC-236fa Ship Alteration CG47-00413K (1 hull, 2 plants) on R-114 Ship's Air Conditioning Plants as specified utilizing References 3.1 through 3.19, Government and contractor furnished material, and the

CONTRACT NO. N00178-04-D-4033	DELIVERY ORDER NO. 000203	PAGE 3 of 11
----------------------------------	------------------------------	-----------------

guidance provided in the following paragraphs.

- 2.3.1 Remove the refrigerant of the designated plants.
- 2.3.2 Remove compressor oil into a suitable container for disposal.
- 2.3.3 Return used refrigerant and oil to the NSWCCD Field Representative for disposal or dispose of it as directed by the NSWCCD Field Representative.
- 2.3.4 Replace compressors. Perform a Class B overhaul on the motors if condition of motors necessitate overhaul and if directed to do so by the NSWCCD Field Representative.
- 2.3.5 Perform Hydrostatic Test of Condenser Shells (AC units only) in the presence of York Representative, using Government Furnished Hydro rig and NSWCCD approved procedures. *** This test can only occur with the permission of the NSWCCD Program Manager and NSWCCD Field Representative.***
- 2.3.6 Provide services to recover and clean R-11 hydro gas bringing it back to ARI 700 Standards as specified by Reference 3.19.
- 2.3.7 Install/Modify foundations, electrical panels and piping as required to suit the installation. Accomplish modifications to the lube oil system as specified by Reference 3.10.
- 2.3.8 Accomplish specific repairs authorized by NSWCCD required to support post- conversion testing and operation. Such repairs may include modification of installed and operational Halocarbon Monitors to permit detection of HFC-236fa.
- 2.3.9 All new or disturbed piping is to be pressure tested and proven to be free of obstructions prior to flushing the affected systems.
- 2.3.10 Leak test and flush piping systems in accordance with York/NSWCCD HFC-236fa procedure (Reference 3.10).
- 2.3.11 With York Representative on-site, observe and assist in their operational testing of the modified plant in accordance with applicable technical manuals, existing test procedures, and test specifications.
- 2.3.12 Return recovered R-114 refrigerant to the NSWCCD Field Representative for disposal.
- 2.3.13 Install government provided spares of refrigerant and POE oil.
- 2.3.14 Brief crew in the operation of the modified plants.
- 2.3.15 Contractor shall provide a cofferdam as required for removal and relocation of existing overboard.

3 APPLICABLE DOCUMENTS/REFERENCES

In executing work under the Task Order, contractor is required to comply with the following standards/specifications:

- 3.1 Ship Alteration Record CG47-00413K
- 3.2 NAVSEA S9AAO-AB-GOS-010, "General Specifications for Overhaul (GSO) of Surface Ships"
- 3.3 NAVSEA SL720-AA-MAN-010/FMP, "Fleet Modernization Program (FMP) Management and Operations Manual"
- 3.4 MIL-STD-2003, Electric Plant Installation, Standard Methods for Surface Ship and Submarine
- 3.5 NAVSEA S6430-AE-TED-010, Flexible Hose Assemblies
- 3.6 NAVSEA DRWG. 810-1385506, Hose Schedule for Shipboard Services
- 3.7 MIL-STD-777E(SH), Schedule of Piping, Valves, Fittings and Associated Piping Components for Naval Surface Ships
- 3.8 MIL-R-16743F(SH), Refrigerating Plants and Systems, Mechanical; and Refrigerating System Components - Dichlorodifluoromethane (R-12) - Navy Shipboard
- 3.9 NAVSEA S9073-A2-HBK-010
- 3.10 HFC-236fa Installation Instructions & Quality Assurance Plans
- 3.11 NAVSEA DRWG. 150-5604994, Quality Assurance Requirements

CONTRACT NO. N00178-04-D-4033	DELIVERY ORDER NO. 000203	PAGE 4 of 11
----------------------------------	------------------------------	-----------------

- 3.12 MIL-STD-1689, Fabrication, Welding and Inspection of Ships Structure
- 3.13 MIL-STD-2035, Nondestructive Testing Acceptance Criteria
- 3.14 STD 810-4714432, Hangers, Fabrication Details and Installation
- 3.16 NAVSEA 0967-LP-000-0110, Electrical Installation and Maintenance Book
- 3.17 MIL-STD-1627, Bending of Pipe or Tube for Ship Piping Systems
- 3.18 NAVSEA 9090-310D
- 3.19 NSWCCD-SSES R-11 Hydrostatic Test Fluid Handling Procedures

4 DELIVERABLES/SCHEDULES

All items shall be supplied to the Technical Point of Contact, with copies to the other parties identified below:

- 4.1 Draft QA Workbook shall be submitted for review by NSWCCD-SSES 30 days prior to start of the installation.
- 4.2 Detailed Installation Milestone Schedule (POA&M). The initial POA&M shall be submitted within ten (10) working days after award of the Task Order. The POA&M shall be updated on a bi-weekly basis (copies to NSWC Project Manager and NSWC Field Representative).
- 4.3 Site survey and shipcheck report containing plant/equipment and a report of recommended repairs shall be submitted within five (5) working days of completion of site survey/shipcheck.
- 4.4 A financial progress report shall be submitted on a monthly basis. This report shall include hours expended (identified by labor category) and costs expended (identified by SLIN) (additional copies to the TOM and the Procuring Contracting Officer).
- 4.5 A bi-weekly job status report summarizing the accomplishments of the reporting period (including cuts, welds, removals, installs, etc.), technical problems encountered and solutions, and a summary of work expected to be completed in the next reporting period (additional copy to the TOM).
- 4.6 Installation completion report is to be faxed to NSWCCD-SSES immediately upon conclusion of the alteration. A formal report shall be submitted within three (3) days of the completion of the alteration and must include the following information: Dates and names of personnel contacted aboard ship; point of contact for ILS delivery; updates and changes to the ILS; equipment serial numbers; one set of red lined drawings (if necessary); and any other pertinent SHIPALT data. The report shall also provide a breakdown of conversion and non-conversion material costs and labor costs (by labor category). HFC-236fa SHIPALT Installation Package Quality Assurance forms and records must also be included.
- 4.7 A "Lessons Learned" report shall be submitted within ten (10) days of installation completion.

5 GOVERNMENT FURNISHED MATERIAL/INFORMATION (GFM/I)

The following materials/information will be provided by the Government to the contractor:

- 5.1 SHIPALT HFC-236fa Installation Kits
- 5.2 SHIPALT 236fa Installation Procedures and Quality Assurance Plans
- 5.3 Hydrostatic test rig and procedures
- 5.4 236fa Ship Check Forms

6.0 PLACE OF PERFORMANCE/PERIOD OF PERFORMANCE

Performance will take place in Mayport, FL. Conversion dates are expected to be from 26-MAY-2005 through 13-AUG-2005, but the Period of Performance of Task Order will be from date of award through 30-SEP-2005 to allow for adjustments in ship schedules.

7 OVERTIME

Overtime will be required to support emergent ship schedules and shorten pier-side Availabilities. Overtime will also minimize the down time of Combat Systems equipment and allow completion to support the ship's operation schedule.

CONTRACT NO. N00178-04-D-4033	DELIVERY ORDER NO. 000203	PAGE 5 of 11
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SECTION D PACKAGING AND MARKING

HQ D-2-0008 MARKING OF REPORTS (NAVSEA) (SEP 1990)

All reports delivered by the Contractor to the Government under this contract shall prominently show on the cover of the report:

- (1) name and business address of the Contractor
- (2) contract number
- (3) task order number
- (4) sponsor: Naval Surface Warfare Center, Carderock Division, Code 9153 (Attention: Bill Rush)

CONTRACT NO. N00178-04-D-4033	DELIVERY ORDER NO. 000203	PAGE 6 of 11
----------------------------------	------------------------------	-----------------

SECTION E INSPECTION AND ACCEPTANCE

Inspection and Acceptance shall be performed at Destination by the Government.

CONTRACT NO. N00178-04-D-4033	DELIVERY ORDER NO. 000203	PAGE 7 of 11
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SECTION F DELIVERIES OR PERFORMANCE

CLIN - DELIVERIES OR PERFORMANCE

The periods of performance for the following firm items are from date of task order award through 12 months thereafter, estimated at:

0001AA	5/17/2005 - 9/30/2005
0001AB	5/17/2005 - 9/30/2005
0001AC	5/17/2005 - 9/30/2005
0003AA	5/17/2005 - 9/30/2005
0003AB	5/17/2005 - 9/30/2005
0003AC	5/17/2005 - 9/30/2005
0003AD	5/17/2005 - 9/30/2005

SECTION G CONTRACT ADMINISTRATION DATA

Accounting Data

SLINID	PR Number	Incremental Amount
0001AA	43385899 (N0002405WXP0 [REDACTED])	[REDACTED]
LLA :		
AA	1751810 81HF 253 SA400 0 068342 2D 000000 HF0060000000	
0001AA	43385899 (N0002405WXP0 [REDACTED])	[REDACTED]
LLA :		
AA	1751810 81HF 253 SA400 0 068342 2D 000000 HF0060000000	
0001AB	52105316 [REDACTED]	[REDACTED]
LLA :		
AB	97X4930.NH1C 000 77777 0 000167 2F 000000 051915318099	
0001AC	52105321 [REDACTED]	[REDACTED]
LLA :		
AC	97X4930.NH1C 000 77777 0 000167 2F 000000 051915317099	
0003AA	43385899 (N0002405WXP0 [REDACTED])	[REDACTED]
LLA :		
AA	1751810 81HF 253 SA400 0 068342 2D 000000 HF0060000000	
0003AB	52105321 [REDACTED]	[REDACTED]
LLA :		
AC	97X4930.NH1C 000 77777 0 000167 2F 000000 051915317099	
0003AC	[REDACTED]	[REDACTED]
LLA :		
AA	1751810 81HF 253 SA400 0 068342 2D 000000 HF0060000000	
0003AD	52454026 [REDACTED]	[REDACTED]
LLA :		
AD	97X4930.NH1C 000 77777 0 000167 2F 000000 058915316999	

Task Order Manager

Richard J Stahl, Code 9154
5001 South Broad St.
Philadelphia, PA 19112-1403
stahlrj@nswccd.navy.mil
215-897-1578

Technical Point of Contact

William J. Rush, Code 9153
5001 South Broad St.
Philadelphia, PA 19112-1403
rushwj@nswccd.navy.mil
215-897-1886

5252.232-9001 SUBMISSION OF INVOICES (COST -REIMBURSEMENT, TIME-AND-MATERIALS, LABOR-HOUR, OR FIXED PRICE INCENTIVE (JUL 1992)

A copy of every invoice shall also be provided to the individuals listed below, at the address shown:

TASK ORDER MANAGER: See above

FINANCE/CODE 3127

Naval Surface Warfare Center Carderock Division

5001 South Broad Street

Philadelphia, PA 19112-1403

(End of Clause)

SECTION H SPECIAL CONTRACT REQUIREMENTS

H-5 TASK ORDER PROCESS

CONTRACT NO. N00178-04-D-4033	DELIVERY ORDER NO. 000203	PAGE 9 of 11
----------------------------------	------------------------------	-----------------

J. Ombudsman Description. In accordance with FAR 16.505(a)(7), no protest under FAR Subpart 33.1 is authorized in connection with PCO decisions regarding fair opportunity or the issuance of a TO under this contract, except for a protest on the grounds that a TO increases the scope, period, or maximum value of the contract. The Local Warfare Center Site Deputy for Small Business has been designated as the NAVSEA and related Program Executive Offices Ombudsman for this contract. The NAVSEA Ombudsman will review complaints from the contractors and ensure that all contractors are afforded a fair opportunity to be considered, consistent with the procedures in the contract. Complaints to the NAVSEA Ombudsman must be forwarded to:

Mr. Ted Ptashkin

215-897-7596

ptashkin@nswccd.navy.mil

CONTRACT NO.
N00178-04-D-4033

DELIVERY ORDER NO.
000203

PAGE
10 of 11

SECTION I CONTRACT CLAUSES

52.222-2 PAYMENT FOR OVERTIME PREMIUMS (JUL 1990)

(a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed \$0 or the overtime premium is paid for work --

(End of Clause)

CONTRACT NO. N00178-04-D-4033	DELIVERY ORDER NO. 000203	PAGE 11 of 11
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SECTION J LIST OF ATTACHMENTS

None