

DELIVERY ORDER

FINAL

1. CONTRACT NO. N00178-04-D-4140	2. DELIVERY ORDER NO. EHP204	3. EFFECTIVE DATE ORIG 08/11/2005 MOD 02/02/2007	4. PURCHASE REQUEST NO. N65540-07-MR-57017
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5. ISSUED BY NSWC, CARDEROCK DIVISION, PHILADELPHIA Crystal A D'Alonzo-Ferraro 3351 NAVSSSES Philadelphia, PA 19112-1403 crystal.ferraro-dalo@navy.mil 215-897-7063 Ext.	CODE N65540	6. ADMINISTERED BY DCMA VIRGINIA 10500 BATTLEVIEW PARKWAY, SUITE 200 MANASSAS, VA 20109-2342	CODE S2404A
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7. CONTRACTOR Técnico Corp 831 Industrial Ave. Chesapeake, VA 23324	CODE ONY44	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 DFAS Columbus Center, South Entitlement Operations P.O. Box 182264 Columbus, OH 43213	CODE HQ0338
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13. TYPE OF ORDER	D	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.

Técnico Corp

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: Robert R Colot CONTRACTING/ORDERING OFFICER	02/15/2007	22. TOTAL [REDACTED]
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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 add Clause CAR-G11 as detailed in Section G.

All other terms and conditions remain unchanged.

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

The total value of the task order remains unchanged. The total amount of funds obligated to the task is hereby increased by [REDACTED]

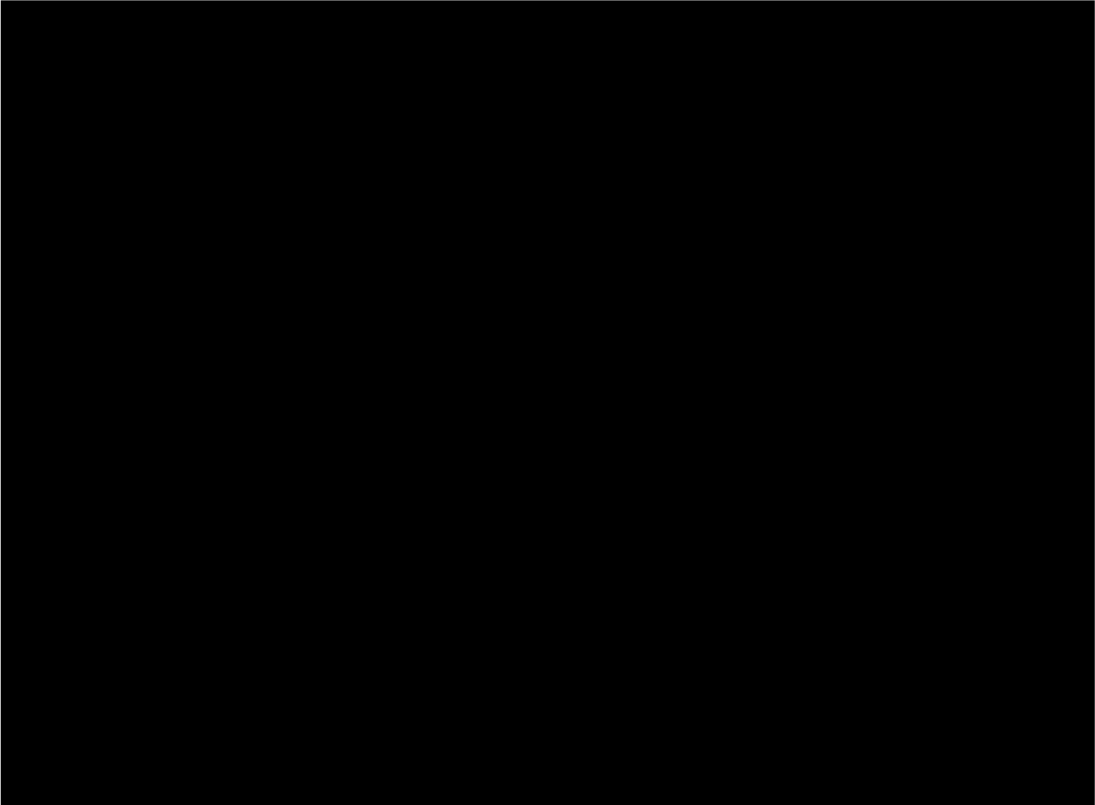
SECTION B SUPPLIES OR SERVICES AND PRICES

CLIN - SUPPLIES OR SERVICES

For Cost Type Items:

1000 Engineering and
Technical
Services for
INstallation of
SHIPALT
FFG-7-423K (SSDG
Re-Engine) and
FFG-7-429K
(Reverse Osmosis
Desalinator)

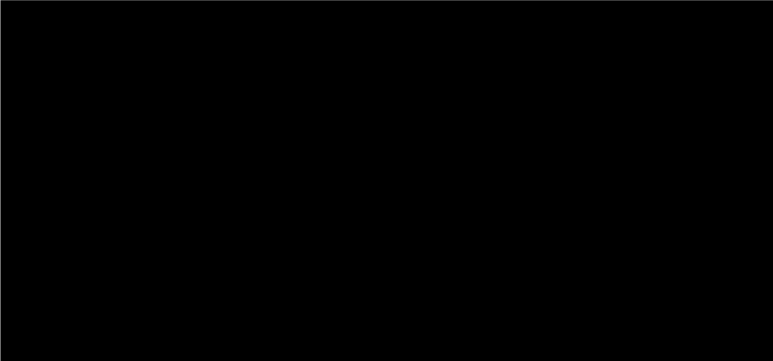
[REDACTED]



Funds Accommodate
(OPN)

For ODC Items:

Item	Supplies/Services Qty	Unit Est. Cost
3000	Support Costs inclusive of Material and Travel in support of Clin 1000	[REDACTED]



(OPN)

“The Service Contract Act is not applicable to this task order since the work to be performed will be

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completed onboard U.S. Navy Ships.”

In accordance with FAR 52.219-9, entitled "Small Business Subcontracting Plan" (JAN 2002) Alternate II, subcontracting plans are required for all large businesses submitting proposals. The Small Business Subcontracting Plan must be included with any proposal submission.

SECTION C DESCRIPTIONS AND SPECIFICATIONS

STATEMENT OF WORK

This is a Performance Based Statement of Work. The efforts performed hereunder will be evaluated in accordance with the Statement of Work and the evaluation methods described in Section H, CAR H07.

Installation of SHIPALTS FFG-7-423K (SSDG Re-engine) and FFG-7-429K (Reverse Osmosis Desalinator)

1.0 SCOPE

1.1 Contractor shall provide Naval Surface Warfare Center, Carderock Division (NSWCCD-SSES) engineering, design, pre-fabrication, personnel, installation and material procurement for SHIPALT FFG-7-423K (Ship's Service Diesel Generator (SSDG) Re-engine Installation) on three (3) SSDG Engines, and SHIPALT FFG-7-429K (Reverse Osmosis Desalinator Installation). Support will include ship checks, developing ship check reports, prefabrication of structures, piping and components associated with the installation, receipt and inventory of materials, equipment and components. Also required will be the shipment of materials, equipment and components to the installation site. Contractor may be required to provide cofferdam for waterborne installation. Contractor may require subcontracting support for services depending on ship availability location. Travel to Mayport, FL will be required for the work to be accomplished on USS HALYBURTON (FFG-40) beginning in August 2005. The above ship can be substituted by request of PEO Ships FC.

2.0 APPLICABLE REFERENCE DOCUMENTS

Contractor shall perform work under this Delivery Order in compliance with the most current version of applicable reference documents cited below.

2.1. Ship Alteration Record (SAR) FFG7-423K (SSDG Re-engine Installation)

2.2. Ship Alteration Record (SAR) FFG7-429K (Reverse Osmosis Desalinator Installation)

2.3. NAVSEA S9AA0-AB-GOS-010/GSO Rev 3 (Effective 31 Aug 00), "General Specifications for Overhaul (GSO) of Surface Ships"

2.4. NAVSEA SL720-AA-MAN-010/020, "Fleet Modernization Program (FMP) Management & Operations Manual"

2.5. NAVSEA Technical Specification 9090-310D, "Alterations to Ships Accomplished by Alteration Installation Teams"

2.6. NAVSSES INSTR. 4720.2D, Dated 16 July 2004, "Process and Policy for Shipboard Industrial Work"

2.7. NAVSEA S9086-CH-STM-010/CH-074, Naval Ships Technical Manual for Patches and/or Inserts Installation.

2.8. NAVSEA STD ITEMS (These can be obtained from <http://www.supship.navy.mil/ssrac4/standard.htm>)

2.9. NAVSEA Dwg 53711-100-7634466, Rev B, SSDG #1 Diesel Re-Engine, Hull Outfit/Structural Mods & ML

2.10. NAVSEA Dwg 53711-100-7520524, Rev B, SSDG #1 Engine Replacement Shell & Deck Cut Dets

2.11. NAVSEA Dwg 53711-100-7634467, Rev B, SSDG #2 Diesel Re-Engine, Hull Outfit/Structural Mods & ML

2.12. NAVSEA Dwg 53711-100-7520525, Rev B, SSDG #2 Engine Replacement Shell & Deck Cut Dets

2.13. NAVSEA Dwg 53711-100-7634468, Rev B, SSDG #3 Diesel Re-Engine, Hull Outfit/Structural Mods & ML

2.14. NAVSEA Dwg 53711-100-7520526, Rev B, SSDG #3 Engine Replacement Shell & Deck Cut Dets

2.15. NAVSEA Dwg 53711-100-7634469, Rev B, SSDG #4 Diesel Re-Engine, Hull Outfit/Structural Mods & ML

2.16. NAVSEA Dwg 53711-100-7520527, Rev B, SSDG #4 Engine Replacement Shell & Deck Cut Dets

- 2.17. NAVSEA Dwg 53711-342-7634470, Rev B, SSDG #1 Diesel Re-Engine Piping Mods & ML
- 2.18. NAVSEA Dwg 53711-342-7634471, Rev B, SSDG #2 Diesel Re-Engine Piping Mods & ML
- 2.19. NAVSEA Dwg 53711-342-7634472, Rev B, SSDG #3 Diesel Re-Engine Piping Mods & ML
- 2.20. NAVSEA Dwg 53711-342-7634473, Rev B, SSDG #4 Diesel Re-Engine Piping Mods & ML
- 2.21. NAVSEA Dwg 53711-320-7634462, Rev B, SSDG #1 Diesel Re-Engine Elec Mods & ML
- 2.22. NAVSEA Dwg 53711-320-7634463, Rev B, SSDG #2 Diesel Re-Engine Elec Mods & ML
- 2.23. NAVSEA Dwg 53711-320-7634464, Rev B, SSDG #3 Diesel Re-Engine Elec Mods & ML
- 2.24. NAVSEA Dwg 53711-320-7634465, Rev B, SSDG #4 Diesel Re-Engine Elec Mods & ML
- 2.25. NAVSEA DWG 803-7613026, FFG-7 Alignment Procedure SAC to CAT Diesel Model 3512B
- 2.26. NAVSEA Dwg 53711-180-7634481, Rev B, RO Desal Install Strl Fdn Mods & ML
- 2.27. NAVSEA Dwg 53711-331-7634482, Rev A, Reverse Osmosis Desalinators Instl Elec Mods & ML
- 2.28. NAVSEA Dwg 53711-531-7634483, Rev B, RO Desal Instl, Piping Mods & ML
- 2.29. 101-5415014, Rev BG, Equipment Removal Routes
- 2.30. RLAR 00429/FFG36/1073928 Revise class dwg to inc ship differences
- 2.31. RLAR 00429/FFG36/1074625 Fatal Flaw Review
- 2.32. LAR 00429/FFG50/1076930 Wire Connection for Cable
- 2.33. RLAR 00429/FFG54/1074450 Switch valve with sight flow indicator
- 2.34. LAR 00429/FFG61/1072415 Chemical Injection Tank Ripout
- 2.35. RLAR 00429/FFG7CL/1074138 Reroute waste oil drain line
- 2.36. RLAR 00429/FFG7CL/1074540 Chemical feed pump location
- 2.37. RLAR 00429/FFG50/1073601 Revise MH drawing to incorporate ship differences

3.0 REQUIREMENTS

Contractor shall provide installation team in Mayport, FL to perform the following tasks:

Task 1 – SHIPALT FFG-7-423K: Using References 2.1, 2.3 through 2.25, and “General Technical Instruction for the Installation of Caterpillar Engine FFG7 Class” contractor shall accomplish SHIPALT FFG-7-423K, replacing three (3) existing Detroit Diesel prime mover engines for the Ship’s Service Diesel Generators (SSDG) with Government furnished Caterpillar diesel engines. The #2 SSDG Re-engine has been previously accomplished.

Task 2 – SHIPALT FFG-7-429K: Utilizing References 2.2, 2.3 through 2.8, 2.26 through 2.37, contractor shall accomplish SHIPALT FFG-7-429K, installing Reverse Osmosis Desalinators.

In performing these tasks, the contractor shall comply with the following requirements:

3.1 Prior to the start of each installation, the contractor shall provide a QA Workbook meeting the requirements of NAVSSES INSTR. 4720.2D (see reference 2.6) and applicable ship installation drawings (SIDs) (see references 2.9 through 2.24, and 2.26 through 2.28) for NSWCCD-SSES review. Upon completion of each installation, contractor shall provide a copy of the QA Workbook and completed IPCPs to the Program Manager.

3.2 Prior to start of each installation, contractor shall provide copies of procedures for each welding and brazing operation for approval by NSWCCD-SSES or evidence of prior approval from previous installations. In addition, contractor shall provide a list of personnel qualified to do each procedure or evidence of prior approval by NSWCCD-SSES from previous installations.

3.3 Prior to the start of each installation, the contractor shall perform a pre-

installation shipcheck to verify the accuracy of the installation documentation provided as GFI in relation to the ship’s configuration and to verify of the material requirements contained in the drawings.

3.4 The contractor shall purchase all material identified as Contractor furnished and incidental material.

3.5 Provide temporary stowage for Government Furnished Material (GFM) as identified by the applicable installation documentation provided as Government Furnished Information (GFI). Shipping of GFM to installation site will be required.

3.6 Arrange for the availability of all required support services. Contractor may be required to provide cofferdam for waterborne installation. Contractor may require subcontracting support for services depending on ship availability location.

3.7 Taking into account conditions observed during the shipcheck, contractor shall prepare a detailed Plan of Action and Milestones (POA&M) before starting each installation.

3.8 Prior to start of each installation, contractor shall review and sign the Industrial/Alteration Pre-Start Checklist (see Enclosure (1) of reference 2.6). The Government oversight installation coordinator (OSIC) will provide this document, sign it and incorporate it into the Alteration Completion Report Package.

3.9 Before starting work on any piping or electrical system, contractor must ensure that each system is tagged out in accordance with standard shipboard procedures. Contractor shall develop and provide system tagouts in advance of ship installation.

3.10 Coordinate all work with the NSWCCD-SSES OSIC onboard Government representative and Program Manager. Contractor shall promptly inform the NSWCCD-SSES Government representative of any technical discrepancies and/or mishap incidents requiring resolution. Corrective Action Reports will be required on any installation mishaps. Level of Action will be determined by OSIC and SSES QA Manager.

3.11 Using Ship Installation Drawing (SIDs) provided as Government Furnished Information and additional references 2.1 through 2.37, the contractor shall accomplish the installations. Contractor shall support the ship's damage control posture during the installations by providing fire watches as requested by the ship's Damage Control Officer.

3.12 Contractor must provide each installation LAR/Condition Report, together with estimated cost to accomplish the LAR/Condition Report, to the NSWCCD-SSES OSIC and Project Manager within 72 hours of discovery of condition referred to in the LAR/Condition Report.

3.13 Upon completion of each installation, the contractor shall perform testing and checkout in accordance with applicable drawings and procedures, documenting the results and correcting any identified deficiencies. Final test and checkout of each installation must be will be coordinated with onboard Government representative and ship's force. Contractor shall provide assistance to the In-Service Engineer in conducting tests of the installation.

3.14 Contractor shall repair all shipboard paint, insulation, lagging and decking disturbed during any portion of an installation.

3.15 The contractor shall, on completion of each installation, prepare "red-lined" copies of the SIDs and submit one copy to the ship and three copies to NSWCCD-SSES,

Code 9152.

3.16 The above requirements shall be accomplished at the contractor's facilities and onboard ship identified at location noted in Para 1.1.

4.0 DELIVERABLES

4.1 Alteration Completion Report (IAW NSTS 9090-310D)

4.2 Lessons Learned

4.3 Financial Reports

4.4 Monthly Progress Reports

4.5 Qualified Employees List

4.6 Handling Reports/Disposal Invoices

4.7 Pre-Installation Site Survey

4.8 QA Workbook

4.9 Welding and Brazing Procedures

4.10 Installation POA&M

4.11 Pre-Start Checklist

4.12 Weekly Status Report

4.13 After completion of each installation, Contractor shall prepare red-lined copies of the SIDs – one copy to be provided to the ship and three copies to be provided to NSWCCD-SSES, OSIC.

5.0 PERFORMANCE STANDARDS FOR SHIPALTS FFG7-423K & 429K

Task Reference Performance Objective Acceptable Quality Level (AQL) Quality Surveillance Plan

Task 1

Install SHIPALT FFG7-423K

Replace three (3) existing Detroit Diesel engines with GFM Caterpillar Diesels

QA Manual

Testing of Equipment and applicable systems

(1) Successful installation of SHIPALT FFG7-423 IAW SOW requirements 3.1 through 3.16 using references 2.1, 2.3 through 2.25 and attachment 1 to SOW

(2) Successful review by NSWCCD SSES of the QA Manual

(3) Satisfactory results from completion of required set of testing procedures.

Government Oversight of Process and Review of Ship Force Comments/Complaints

Program Manager/ NSWCCD SSES Code 623 review Government Oversight of Process , Technical Code rep conducting testing, and Review of Ship Force Comments/Complaints

Task 2

Install SHIPALT FFG7-429K

Install Reverse Osmosis Desalinators

QA Manual Testing of Equipment and applicable systems

(1) Successful installation of SHIPALT FFG7-429K IAW SOW requirements 3.1 through 3.16 using references 2.2, 2.3 through 2.8, and 2.26 through 2.37, and attachments to SOW.

(2) Successful review by NSWCCD SSES of the QA Manual

(3) Satisfactory results from completion of required set of testing procedures.

Government Oversight of Process and Review of Ship Force Comments/Complaints

Program Manager/ NSWCCD SSES Code 623 review Government Oversight of Process , Technical Code rep conducting testing, and Review of Ship Force Comments/Complaints

6.0 GOVERNMENT FURNISHED INFORMATION / MATERIALS

6.1 Ship Alteration Record (SAR) and Ship Installation Drawings (SIDs), and Liason Action Reports (LAR)/Reverse Liason Action Reports (RLAR) for SHIPALT FFG-7-423K.

6.2 Ship Alteration Record (SAR), Ship Installation Drawings (SIDs), and Liason Action Reports (LAR)/Reverse Liason Action Reports (RLAR) for SHIPALT FFG-7-429K.

6.3 Ship Availability Schedules.

6.4 All material and equipment for SHIPALTS FFG-7-423K and FFG-7-429K, identified in SIDs as Government furnished.

7.0 CONTRACTOR FURNISHED MATERIALS AND SUPPORT SERVICES

7.1 The contractor shall provide all industrial equipment, tooling, transportation, and storage required to accomplish SHIPALTS FFG-7-423K and FFG-7-429K.

7.2 The contractor shall provide all material identified on the SIDs as Contractor Furnished Material (CFM) needed to accomplish SHIPALTS FFG-7-423K and FFG-7-429K.

7.3 Contractor shall provide temporary storage for GFM identified in the SIDs.

7.4 Contractor shall arrange for required support services, such as marine chemist, gas free services, cranes, barges, pier storage, fire watches and other required support services not provided by ship's force.

7.5 Contractor shall provide all support services required for shell cuts, staging, pipe lagging, cofferdam and diving services as required.

8.0 TRAVEL

8.1 Travel is authorized/required for ship check from Norfolk, VA to Mayport, FL. A trip will be required to perform a ship check that would involve two (2) personnel for fourteen (14) days.

8.2 Travel is authorized/required for installation team from Norfolk, VA to Mayport, FL. A trip will be required to perform the installations that would involve fifteen (15) people for one hundred twenty (120) days, eight (8) people for forty-two (42) days, and two (2) people for fourteen (14) days.

9.0 OVERTIME

9.1 Overtime will be required and is authorized to support emergent ship schedules and shortened pier side / dry docking availabilities. Overtime will minimize the downtime of the equipment and to allow completion to support the ships' operational schedules.

10.0 CLASSIFIED MATERIAL/INFORMATION

10.1 No access to classified material/information will be required for this Delivery Order.

11.0 PERIOD OF PERFORMANCE

11.1 Period of performance will start on the date of award of the Delivery Order and end two years after the date of award.

12.0 TASK ORDER MANAGER

12.1 The Task Order Manager (TOM) for this Delivery Order is [REDACTED]

13.0 TECHNICAL POINT OF CONTRACT

13.1 Technical Point of Contact for this Delivery Order is [REDACTED]

GENERAL TECHNICAL INSTRUCTION

FOR THE INSTALLATION OF CATERPILLAR ENGINE FFG-7 CLASS

02 OCTOBER 2003

1.0 SCOPE

This document discusses the "general" scope of work involved with the installation of a caterpillar engine for the FFG-7 Class ships. This guidance to be completed under Caterpillar Technical Representative supervision and/or approval.

2.0 APPLICABLE DOCUMENTS/REFERENCES

- 2.1. CATERPILLAR DWG 207-6084 ADAPTER PLATE
- 2.2. CATERPILLAR DWG 207-5043 ENGINE SUPPORT
- 2.3. VULKAN SERVICE MANUAL (Engine/Generator) RATO-S 191 W-2210/21
- 2.4. NAVSEA 59311-B9-TRS-010/020 FFG-7 Class Series 149 Diesel Engines
- 2.5. CATERPILLAR PUB SEHS – 7073 ALIGNMENT PROCEDURE (TWO BEARING GENERATOR)
- 2.6. NAVSEA 9311-BK-MMC-010 CATERPILLAR 3512B
- 2.7. CATERPILLAR TORQUE SPECIFICATIONS PUB (SENR 3130 - 08 AUG 02)
- 2.8. U.S. NAVY RESILIENT MOUNT HANDBOOK (NAVSEA 0910-LP-000-5250)
- 2.9. VSE DWG VSE 763 SAC HOUSING DRAWING
- 2.10. NAVSEA DWG 803-7613036 SAC INSTALL AND ALIGNMENT

3.0 REQUIREMENTS

- 3.1 Removals. Prior to load-out of engine, disassemble the engine by removing the engine oil pan and oil connector pipe from engine, and removal of air intake filters. (Additional components may be removed as necessary to facilitate installation through the shell opening into the engine enclosure.) Replacement gaskets/seals shall be provided and reinstalled by installing activity as required to all effected components.
- 3.2 Protective Coverings. Protective covering shall be installed on the underside of the engine block to avoid damage to the crankshaft and machine surfaces as well as over the sump and adapter piece to prevent foreign material from contaminating the sump. The engine shall be covered to prevent damage during rigging.
- 3.3 Install oil pan (sump) to Adapter Plate. Install oil pan to bottom flange of Adapter Plate, CAT dwg 207-6084 (ref 2.1), engine support using gasket and hardware per shown in dwg 207-5043 (ref 2.2).
- 3.4 Rig Sump and Adapter. Rig engine sump and adapter plate assembly into ship and land onto generator sub-base.
- 3.5 Install Generator Coupling Half. Install new Vulkan coupling hub per RATO-S 191W-2210/21 VULKAN SERVICE MANUAL (ref 2.3) to generator shaft (reuse existing key). Ensure hub installed 4.50 inches onto generator shaft IAW procedures in reference 2.3, section H. 1.2.
- 3.6 Rig Engine. Rig engine into ship and align adapter plate. Prior to attaching engine support to the engine block, install the longer OIL CONNECTOR (Cat p/n 166-7259). Attach mounting hardware as necessary to ensure engine is secured to adapter plate to prevent movement during the rough alignment procedure. Ensure cleanliness of sump and adapter piece prior to connection to engine.
- 3.7 Center Generator. Ensure generator is centered on its mountings to allow for future movements. Loosen generator mounting bolts and remove dowels. Thrust generator fore/aft and athwartships and position in a central location. Retighten generator mounting bolts, but do not reinstall dowels.
- 3.8 Position Rotor in Generator Housing. Thrust rotor against drive (coupling) end. Move rotor away from this end by 0.020 in. Use reference 2.4, para 6.2.e. for guidance.
- 3.9 Align Engine to Generator. This preliminary alignment step is to facilitate location of engine mounting (adapter piece to genset subbase). Use references 2.3 and 2.7 for guidance. Vertical alignment criteria need not be met in this step.
- 3.10 Mark Hole Locations. Mark locations on the base for all 1” – 8 X 3.0 inch bolts that secure the engine support to genset subbase.
- 3.11 Drill and Tap Mounting Holes. At discretion of installing activity, the engine shall be moved (lifted) from the engine adapter piece (adapter piece left in place on subbase), or the engine and the adapter piece (as one unit) shall be separated from the oil pan and moved (lifted) to facilitate access for drilling and tapping of mounting holes. Drill and tap all mounting holes in subbase for installation of the 1”

– 8 X 3.0 inch bolts. Weld repair (fill) and grind flush all holes from previous (DDC-16V-149) engine mounting that are within ½ inch of new hole location. Reassemble engine to adapter piece or engine adapter piece to oil pan as applicable. Ensure proper sealants/gaskets are used as detailed in references 2.1, 2.2, and 2.6.

3.12 Secure engine to Subase. Bolt the engine/support to the base using included ID-4709 (1" – 8 X 3.0 inch) bolts and 5P-8250 washers. Torque and Sequence to be IAW CATERPILLAR TORQUE SPECIFICATIONS (SENR3130-08 AUG 02). Install one dowel (min .625 inch diameter) on each side of engine, near flywheel end of engine.

3.13 Generator to Engine Alignment. Align the generator to engine with guidance provided by refs 2.3, 2.5, and 2.8 using reference 2.5 for specific tolerance specifications. Note: Ship must be out of dry-dock and at 50% liquid load for a minimum of 12 hours before final alignment can be verified. Final alignment can be accomplished prior to meeting liquid load requirements however, an alignment check shall be verified after meeting load and time criteria. Upon satisfactory final alignment verification, dowel generator to base.

3.14 Install Engine Flex Coupler. Install new Vulkan Flex Coupling to engine flywheel per reference 2.3.

3.15 Install and Align Start Air Compressor (SAC). Install and align SAC IAW refs 2.9 & 2.10. Note: For SSDG's which require attachment of a starting air compressor (SAC), while supporting the vibration damper mounted to the front of the crankshaft, remove the 6 bolts holding the damper to the crankshaft. Install the SAC power adapter onto the damper using the included 9F-8122 (1" – 14 X 9 inch) bolts. The drilling and tapping of two new mounting holes in base to mount support bracket will be required.

List of gages, instruments, relief valves, and back flow preventers for the complete RO system in conjunction with SHIPALT FFG7-429K (Reverse Osmosis Desalinators) that will require testing is as follows:

Pressure Gages (7):

1-RO-PI-6, 0-60 psig, Permeate Pressure Gage

2-RO-PI-6, 0-60 psig, Permeate Pressure Gage

1-HPRO-PI-203, 0-60 psig, Permeate Pressure Gage

ROSW-GA-01A, 30"hg - 30 psig, No.1 RO Feed Pump Suction Pressure Gage (FFG 52 only)

ROSW-GA-02A, 0-200 psig, No.1 RO Feed Pump Discharge Pressure Gage

ROSW-GA-01B, 30"hg - 30 psig, No. 2 RO Feed Pump Suction Pressure Gage (FFG-52 only)

ROSW-GA-02B, 0-200 psig, No. 2 RO Feed Pump Discharge Pressure Gage

Pressure Transmitters (15), 4-20 mA output:

1-RO-PT-1, 0-200 psi, Seawater Strainer Inlet Pressure

1-RO-PT-2, 0-200 psi, Seawater Strainer Outlet Pressure

1-RO-PT-3, 0-200 psi, 20 Micron Inlet Pressure

1-RO-PT-4, 0-200 psi, 20 micron Outlet Pressure
1-RO-PT-5, 0-200 psi, HP Pump Suction Pressure
1-RO-PT-6, 0-1500 psi, HP Pump Discharge Pressure
2-RO-PT-1, 0-200 psi, Seawater Strainer Inlet Pressure
2-RO-PT-2, 0-200 psi, Seawater Strainer Outlet Pressure
2-RO-PT-3, 0-200 psi, 20 Micron Inlet Pressure
2-RO-PT-4, 0-200 psi, 20 micron Outlet Pressure
2-RO-PT-5, 0-200 psi, HP Pump Suction Pressure
2-RO-PT-6, 0-1500 psi, HP Pump Discharge Pressure
1-HPRO-PT-102A, 0-100 psi, 3 Micron Inlet Pressure
1-HPRO-PT-102B, 0-100 psi, HP Pump Suction Pressure
1-HPRO-PT-105, 0-1000 psi, HP Pump Discharge Pressure

Temperature Gages (4):

1-RO-TI-1, 0-150F, Seawater Inlet Temp
1-RO-TI-2, 0-150F, Permeate Temp
2-RO-TI-1, 0-150F, Seawater Inlet Temp
2-RO-TI-2, 0-150F, Permeate Temp

Temperature Switches (2):

1-RO-TW-1, Detroit Switch, 222-10NL-2222998, Close at 38F, Open at 33F
2-RO-TW-1, Detroit Switch, 222-10NL-2222998, Close at 38F, Open at 33F

Permeate Totalizing Flow Meters Badger M25, 3/4" NPT Ends (3):

1-RO-FQ-1, Permeate to Potable Water Tank
2-RO-FQ-1, Permeate to Potable Water Tank
1-HPRO-FQ-205, Permeate to Storage

Freshwater Flush Totalizing Flow Meter (1), Badger RACAL 70, 1-RO-IF-100

Attach NCR Stickers to the following Flow meters:

1-RO-FI-3, Permeate Flow
1-RO-FI-5, Concentrate Flow
2-RO-FI-3, Permeate Flow
2-RO-FI-5, Concentrate Flow
1-HERO-IF-204, Permeate Flow
1-HPRO-FI-302, Concentrate Flow

Relief Valves (9):

1-RO-RV-1, HP Pump Discharge, 1/2" SUE, Set at 1100 psig.
1-RO-RV-2, Permeate, 1/2" SUE, Set at 50 psig
1-RO-RV-2, Concentrate, 1/2" SUE, Set at 150 psig
2-RO-RV-1, HP Pump Discharge, 1/2" SUE, Set at 1100 psig.
2-RO-RV-2, Permeate, 1/2" SUE, Set at 50 psig
2-RO-RV-2, Concentrate, 1/2" SUE, Set at 150 psig
1-HPRO-PRV-100, HP Pump Discharge, Set at 600 psig

1-HPRO-PRV-200, Concentrate, Set at 50 psig

1-HPRO-PRV-300, Permeate, Set at 50 psig

Backflow Preventers (3)

CPW-V-8009, Freshwater Flush Supply

ROD-V-2A, No. 1 RODU Permeate

ROD-V-2B, No. 2 RODU Permeate

SECTION D PACKAGING AND MARKING

Packaging and Marking shall be in accordance with Section D of the basic IDIQ contract.

SECTION E INSPECTION AND ACCEPTANCE

Inspection and Acceptance shall be at destination by the Government.

SECTION F DELIVERIES OR PERFORMANCE

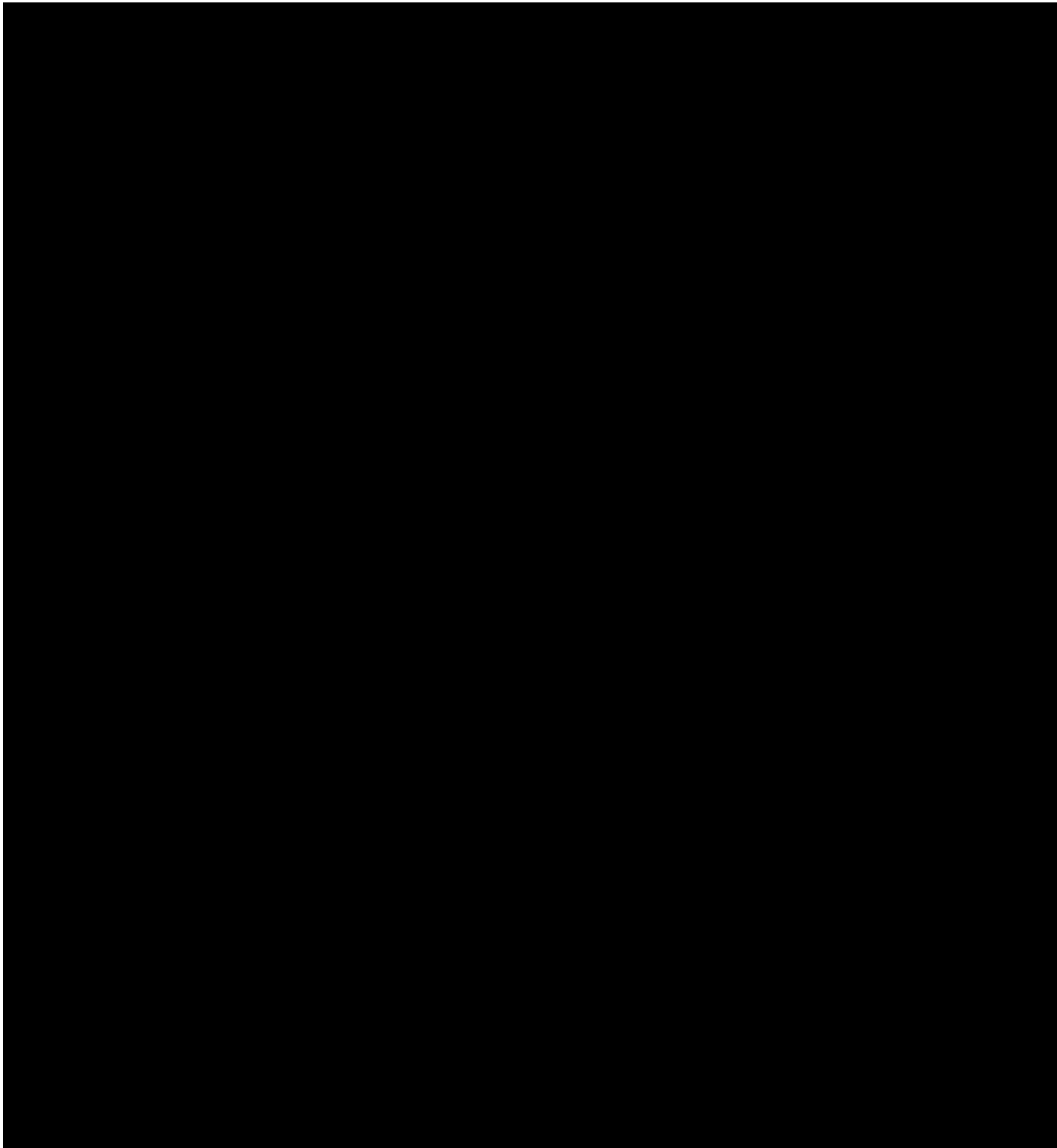
PERIOD OF PERFORMANCE

The period of performance is from date of award through 24 months thereafter.

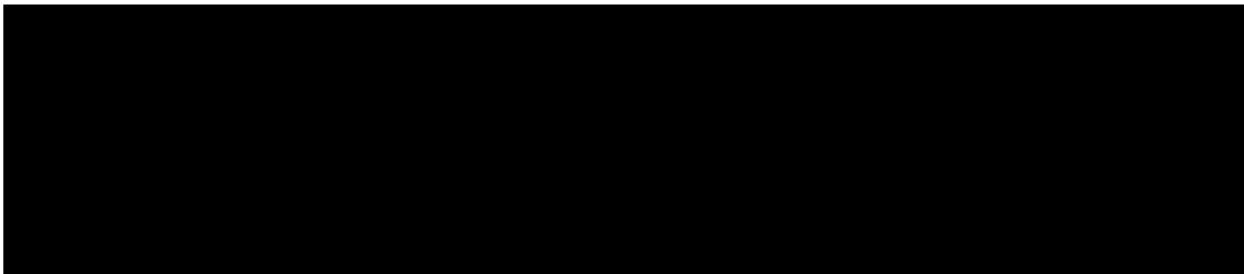
DELIVERY INFORMATION

FOB: Destination

SECTION G CONTRACT ADMINISTRATION DATA



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



(End of Clause)

SEA 5252.232-9104 ALLOTMENT OF FUNDS (MAY 1993)

(a) This contract is incrementally funded with respect to both cost and fee. The amount(s) presently available and allotted to this contract for payment of fee for incrementally funded contract line item number/contract subline item number (CLIN/SLIN), subject to the clause entitled "FIXED FEE" (FAR 52.216-8) or "INCENTIVE FEE" (FAR 52.216-10), as appropriate, is specified below. The amount(s) presently available and allotted to this contract for payment of cost for incrementally funded CLINs/SLINs is set forth below. As

provided in the clause of this contract entitled "LIMITATION OF FUNDS" (FAR 52.232-22), the CLINs/SLINs covered thereby, and the period of performance for which it is estimated the allotted amount(s) will cover are as follows:

ESTIMATED

ITEM(S) ALLOTTED TO COST ALLOTTED TO FEE PERIOD OF PERFORMANCE

\$ \$

(To be provided at the task order level)

(b) The parties contemplate that the Government will allot additional amounts to this contract from time to time for the incrementally funded CLINs/SLINs by unilateral contract modification, and any such modification shall state separately the amount(s) allotted for cost, the amount(s) allotted for fee, the CLINs/SLINs covered thereby, and the period of performance which the amount(s) are expected to cover.

(c) CLINs/SLINs are fully funded and performance under these CLINs/SLINs is subject to the clause of this contract entitled "LIMITATION OF COST" (FAR 52.232-20) or "LIMITATION OF COST (FACILITIES)" (FAR 52.232-21), as applicable.

(d) The Contractor shall segregate costs for the performance of incrementally funded CLINs/SLINs from the costs of

FUNDING PROFILE

It is estimated that these incremental funds will provide for [if LOE, enter the number of hours; if completion or supply enter items and quantities] The following details funding to date:

Total

Contract Funds This Previous Funds Balance

CPFF Action Funding Available Unfunded

(End of Clause)

CAR-G11 INVOICE INSTRUCTIONS (OCT 2006) (NSWCCD)

(a) In accordance with the clause of this contract entitled "ELECTRONIC SUBMISSION OF PAYMENT REQUESTS" (DFARS 252.232-7003), the Naval Sea Systems Command (NAVSEA) will utilize the DoD Wide Area Workflow Receipt and Acceptance (WAWF) system to accept supplies/services delivered under this contract. This web-based system located at <https://wawf.eb.mil> provides the technology for government contractors and authorized Department of Defense (DoD) personnel to generate, capture and process receipt and payment-related documentation in a paperless environment. Invoices for supplies/services rendered under this contract shall be submitted electronically through WAWF. Submission of hard copy DD250/invoices may no longer be accepted for payment.

(b) It is recommended that the person in your company designated as the Central Contractor Registration (CCR) Electronic Business (EB) Point of Contact and anyone responsible for the submission of invoices, use the online training system for WAWF at <http://wawftraining.com>. The Vendor, Group Administrator (GAM), and sections marked with an asterisk in the training system should be reviewed. Vendor Quick Reference Guides also are available at <http://acquisition.navy.mil/navyaos/content/view/full/3521/>. The most useful guides are "Getting Started for Vendors" and "WAWF Vendor Guide".

(c) The designated CCR EB point of contact is responsible for activating the company's CAGE code on WAWF by calling 1-866-618-5988. Once the company is activated, the CCR EB point of contact will self-register under the company's CAGE code on WAWF and follow the instructions for a group administrator. After the company is set-up on WAWF, any additional persons responsible for submitting invoices must self-register under the company's CAGE code at <https://wawf.eb.mil>.

(d) The following information regarding invoice routing is provided for completion of the invoice in WAWF:

WAWF Invoice Type	Cost Voucher
Issuing Office DODAAC	N65540
Admin DODAAC	S2404A

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Inspector DODAAC (if applicable)	N/A
Acceptor DODAAC	N65540
LPO DODAAC (if applicable)	N/A
Pay DODAAC:	HQ0338
DCAA Auditor DODAAC (if applicable)	HAA47B

Attachments created in any Microsoft Office product may be attached to the WAWF invoice, e.g., backup documentation, timesheets, etc. Maximum limit for size of each file is 2 megabytes. Maximum limit for size of files per invoice is 5 megabytes.

(e) Before closing out of an invoice session in WAWF, but after submitting the document(s), you will be prompted to send additional email notifications. Click on "Send More Email Notification" and add the acceptor/receiver email addresses noted below in the first email address block, and add any other additional email addresses desired in the following blocks. This additional notification to the government is important to ensure that the acceptor/receiver is aware that the invoice documents have been submitted into WAWF.



(f) The contractor shall submit invoices for payment per contract terms and the government shall process invoices for payment per contract terms.

(g) If you have any questions regarding WAWF, please contact the WAWF helpdesk at the above 1-866 number or the NSWCCD WAWF point of contact Brian D. White at (301) 227-1172 or brian.d.white@navy.mil.

(End of Clause)

SECTION H SPECIAL CONTRACT REQUIREMENTS

Clause HQ C-2-0037 "Organizational Conflict of Interest" (NAVSEA) (JUL 2000) is hereby invoked in accordance with the basic contract.

CAR-H07 Prospective Fee Amount Reduction Incentive Plan (APR 2004) (NSWCCD)

(a) Introduction: The contractor's performance under this Delivery Order will be evaluated by the Government as described in this contract clause. The first

evaluation will cover the period ending twelve months after date of award with successive evaluations being performed for each twelve-month period thereafter

until the contractor completes performance under this Delivery Order. The evaluation will encompass all work performed by the contractor during the twelve-month period

but will not include cumulative information from prior reports. Based on the evaluation results, the Contracting Officer will assign an overall performance

rating to this Delivery Order in accordance with paragraph (b) of this clause.

If the Contracting Officer assigns an "Unsatisfactory" performance rating for the period evaluated, the Contracting Officer will take unilateral action to provide

for a fee reduction for this Delivery Order covering the performance period evaluated.

(b) Performance Ratings: The Government will evaluate the contractor's performance

of the Statement of Work for the Delivery Order, as outlined in the Performance Requirements Summary Table, Attachment I, and the Contracting Officer will assign

one of the following ratings:

- (1) Excellent
- (2) Very Good
- (3) Satisfactory
- (4) Unsatisfactory

The standards associated with these ratings are given in the following Table 1.

Table 1: Overall Performance Ratings

Overall Performance Rating Standard

Excellent "Excellent" ratings for all performance evaluation criteria.

Very Good A combination of "Excellent" and "Satisfactory" ratings determined by the Contracting Officer to exceed Satisfactory" overall.

Satisfactory A minimum of "Satisfactory" ratings for all performance evaluation criteria.

Unsatisfactory A rating of "Unsatisfactory" for one or more performance evaluation criteria.

(c) Incentive Objectives. The purpose of including a prospective fee amount reduction incentive in this contract is to ensure that the Government receives at least "Satisfactory" overall performance under this Delivery Order.

(d) Performance Evaluation Criteria. The contractor's performance under this Delivery Order will be evaluated using the criteria and standards provided for each objective, and identified in Tables 2 through 4 of this clause.

(e) Organization. The performance evaluation organization consists of the Contracting Officer, who will serve as the Incentive Determining Official, the Contracting Officer Representative (COR) and the Technical Point of Contact (TPOC).

(1) Contracting Officer: The Contracting Officer is responsible for properly

administering the performance evaluation process, maintaining the official performance evaluation file, and making incentive determinations.

(2) COR: The COR maintains the written records of the contractor's performance so that a fair and accurate evaluation is obtained. The COR coordinates and compiles the evaluation reports.

(3) Technical Point of Contact (TPOC). The TPOC will provide ongoing performance monitoring, evaluate task performance based on the Delivery Order SOW and assist in the preparation of the evaluation report.

(f) Evaluation Schedule. Each performance evaluation period will be 12 months in length. Following each evaluation period, the Contracting Officer (or Contract Negotiator if so designated by the Contracting Officer) and the TOM/TPOC/COR, as appropriate, will review performance under the Delivery Order, including overall trends, specific problem areas, if any, and their resolution. Other Government and contractor personnel may also participate in the review as deemed appropriate.

(g) Contractor's Review of the Evaluation Report and Self-Evaluation. The Contracting Officer will provide the evaluation report to the contractor as soon as practicable after completion of the evaluation. Contractors shall be given a minimum of 15 calendar days to submit comments, rebut statements, or provide additional information. The contractor may also submit a Self-Evaluation Report for consideration. The report must include an overall performance rating for the Delivery Order covering the evaluation period and may include whatever information the contractor deems relevant to support that rating. The report shall not exceed two (2) pages in length.

(h) Incentive Determination. If the Contracting Officer determines that the contractor's overall performance rating for an evaluation period is "Unsatisfactory", the Contracting Officer will make a fee reduction determination for the Delivery Order to be applied to work performed during the period evaluated. The determination will be based upon the TOM/TPOC's/COR's recommendations, the contractor's comments including any Self-Evaluation Report, and any other information deemed relevant by the Contracting Officer.

The Contracting Officer shall resolve disagreements between the TOM/TPOC's/COR'S recommendations and the contractor's comments/report regarding the evaluation. The Contracting Officer's fee reduction determination is unilateral and final. The Contracting Officer will document the determination and provide a copy to the contractor.

(i) This performance evaluation does not replace any other requirement for evaluating contractor performance that may be required by this contract or Delivery Order such as a Contractor Performance Assessment Reporting System (CPARS) report.

(1) FEE INCENTIVE SCHEDULE

Overall Performance Rating	Standard	Rate for Evaluation
Excellent	"Excellent" ratings for all performance evaluation criteria	No reduction in the fee proposed.
Very Good	A combination of "Excellent" and "Satisfactory" ratings determined by the PCO to exceed "Satisfactory" overall.	No reduction in the fee proposed
Satisfactory	A minimum of "Satisfactory" ratings for all performance evaluation criteria.	No reduction in the fee proposed.
Unsatisfactory	A rating of "Unsatisfactory" for one or more performance evaluation criteria	1% reduction in the fee proposed (i.e. 8% to 7%).

In the event the contractor received a rating of Unsatisfactory for a task order during an evaluation period and has already invoiced and received interim payments for that period, the contractor will be required to remit dollars equal to 1.5% in the Direct Labor Rate for each labor category cited under Schedule B, Supplies or Services and Prices for which the contractor has invoiced and received payment for work accomplished during that evaluation period.

(End of Clause)

H-5 TASK ORDER PROCESS

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

theodore.ptashkin@navy.mil

H40 KEY PERSONNEL REQUIREMENTS (SEP 2001)

(a) Certain skilled experienced professional and/or technical personnel are essential for successful performance of the work required under this contract. These are defined as "Key Personnel" and are those persons whose Personnel Data Form (PDFs) were submitted for proposal evaluation purposes.

(b) The contractor agrees that such Key Personnel shall not be removed from the contract effort, replaced or added to the contract without a compelling reason (e.g. death of present key personnel, personnel leaving company employ, unavailability due to excessive, or unanticipated demand made by the Government on this contract), and without compliance with paragraphs (c) and (d) thereof. The Government will not approve substitutions for the sole convenience of the contractor.

(c) If any changes (substitutions or additions) to the list of authorized key personnel become necessary, the

contractor shall immediately notify the Contracting Officer and propose personnel of at least substantially equal ability and qualifications as the individuals currently approved for that labor category. Compliance with the clause entitled, Personnel Qualifications are not, in and of itself, sufficient.

(d) Requests for approval of changes hereunder shall be written and shall provide a detailed explanation of the circumstances necessitating the proposed change. Requests shall be submitted when the need is identified, and not when submitting a quote for an individual order. The Contracting Officer will evaluate such requests and promptly notify the contractor in writing of the approval or disapproval of the request. The request shall also contain, for each individual:

- (1) The currently actual hourly rate, with appropriate burden indicated separately;
- (2) A completed PDF in the same detail as the original proposal; and
- (3) Any other information requested by the Contracting officer in order to reach a decision.

(e) If the contractor uses any personnel under Key Personnel categories in performing the effort who are not currently authorized, the contractor shall bear total risk if any individual is subsequently disapproved by the Contracting Officer.

SECTION I CONTRACT CLAUSES

All clauses are in accordance with Section I of the basic contract.

SECTION J LIST OF ATTACHMENTS

Attachment I to RFP N00024-05-R-3224
Attachments II to N000240-05-R-3224

TABLE 2B: PERFORMANCE REQUIREMENTS SUMMARY TABLE

Task Reference	Performance Objective	Acceptable Quality Level (AQL)	Quality Surveillance Plan
Task 1 – Install SHIPALT FFG7-423K	<p>(1) Old equipment safely removed, rigged off ship and delivered to NSWCCD staging facility</p> <p>(2) New equipment safely installed and functioning properly</p>	<p>(1) Removed material removed and properly disposed of or delivered to staging facility.</p> <p>(2) Contractor Quality Assurance is routinely performed in accordance with NAVSSES approved QA Workbook</p> <p>(3) Any damage to vessel or Navy property caused by removals repaired in a manner reasonably acceptable to ship force with little or no interruption of ship mission caused by contractor.</p> <p>(4) Installation performed substantially in accordance with SHIPALT instructions and final testing of new engines successful.</p>	Government Oversight of Process and Review of Ship Force Comments/Complaints

Attachment I

(TABLE 2B CONT) Task Reference	Performance Objective	Acceptable Quality Level (AQL)	Quality Surveillance Plan
Task 2 – Install SHIPALT FFG7- 429K	Install Reverse Osmosis Desalinators	<p>(1) Contractor Quality Assurance is routinely performed in accordance with NAVSSES approved QA Workbook</p> <p>(2) Any damage to vessel or Navy property caused by removals repaired in a manner reasonably acceptable to ship force with little or no interruption of ship mission caused by contractor.</p> <p>(3) Installation performed substantially in accordance with SHIPALT instructions and final testing of desalinators shows successful operation.</p>	Government Oversight of Process and Review of Ship Force Comments/Complaints

TABLE 2, TASK PERFORMANCE EVALUATION CRITERIA AND STANDARDS

CRITERION	UNSATISFACTORY	SATISFACTORY	EXCELLENT
Task Performance	Work product fails to meet Acceptable Quality Levels (AQLs) defined in Performance Requirements Summary Table, (see Table 2B).	Work product routinely meets Acceptable Quality Levels (AQLs) defined in Performance Requirements Summary Table, (see Table 2B).	Work product frequently exceeds Acceptable Quality Levels (AQLs) defined in Performance Requirements Summary Table, (see Table 2B).
Staffing	Contractor provides marginally qualified or unqualified personnel. Lapses in coverage occur regularly.	Contractor provides qualified personnel. Lapses in coverage may occasionally occur and are managed per individual Delivery Order policy.	Contractor provides highly qualified personnel. Contractor reassigns personnel to ensure proper coverage. Actual lapses in coverage occur very rarely, if ever, and are managed per individual Delivery Order policy. Contractor ensures staff training remains current.
Timeliness	Contractor frequently misses deadlines, schedules, or is slow to respond to government requests or is non-responsive to government requests.	Contractor routinely meets deadlines, schedules, and responds quickly to government requests.	Contractor always meets deadlines, schedules, and responds immediately to government requests.
Customer Satisfaction	Fails to meet customer expectations	Meets customer expectations.	Exceeds customer expectations.

Attachment II

TABLE 3: CONTRACT MANAGEMENT PERFORMANCE EVALUATION CRITERIA AND STANDARDS

CRITERION	UNSATISFACTORY	SATISFACTORY	EXCELLENT
Problem Resolution	Problems are unresolved, repetitive, or take excessive government effort to resolve.	Problems are resolved quickly with minimal government involvement.	Problems are non-existent or the contractor takes corrective action without government involvement.
Responsiveness	Contractor's management is unresponsive to government requests and concerns.	Contractor's management is responsive to government requests and concerns.	Contractor's management takes proactive approach in dealing with government representatives and anticipates Government concerns.
Communications	Contractor often fails to communicate with government in an effective and timely manner.	Contractor routinely communicates with government in an effective and timely manner.	Contractor takes a proactive approach such that communications are almost always clear, effective and timely.

TABLE 4: COST EFFICIENCY PERFORMANCE EVALUATION CRITERIA AND STANDARDS

CRITERION	UNSATISFACTORY	SATISFACTORY	EXCELLENT
Cost Management	Contractor routinely fails to complete the effort within the originally agreed to estimated cost, i.e. cost overruns frequently occur.	Contractor routinely completes the effort within the originally agreed to estimated cost. Contractor provides measures for controlling all costs at estimated costs. Funds and resources are generally used in a cost-effective manner. No major resource management problems are apparent.	Reductions in direct costs to the Government below contract estimated costs are noteworthy. Contractor provides detailed cost analysis and recommendations to Government for resolution of problems identified. Funds and resources are optimally used to provide the maximum benefit for the funds and resources available. Documented savings are apparent.
Cost Reporting	Reports are generally late, inaccurate incomplete or unclear.	Reports are timely, accurate, complete and clearly written. Problems and/or trends are addressed, and an analysis is also submitted.	Reports are clear, accurate, and pro-active. Problems and/or trends are addressed thoroughly, and the contractor's recommendations and/or corrective plans are implemented and effective.