

**STATEMENT  
OF  
WORK  
(SOW)  
FOR THE  
AAV VT- 400 ENGINE  
NSN 2815-01-109-5052  
AND  
AAV VT-400 ENGINE WITH CONTAINER  
NSN 281501-140-8799  
REBUILD**

**SOW-00-834-1-88643C-1/1  
22 October 1999**

AND VT-400 ENGINE WITH CONTAINER  
REBUILD  
TABLE OF CONTENT

<u>PARAGRAPH</u>	<u>TITLE</u>		
1.0	Scope		1
1.1	Background		1
2.0	Applicable Documents	1	
2.1	Military Standards		1
2.2	Other Government Documentation and Publications		1
2.3	Industry Standards		2
3.0	Requirements		3
3.1	General Tasks		2
3.2	Detailed Tasks		3
3.2.1	Phase I-Rebuild		3
3.2.2	Phase II-Inspection, Testing, Acceptance		3
3.2.3	Packaging, Handling, Storage and Transportation (PHS&T)		4
3.3	Configuration Control	4	
3.4	Government Furnished Equipment (GFE)/ Government Furnished Materiel (GFM)		5
3.5	Contractor Furnished Materiel (CFM)	5	
3.6	Quality Assurance Provisions		5
4.0	Reports/Documentation		6

VT-400 WITH CONTAINER  
REBUILD

1.0 SCOPE. This Statement of Work (SOW), along with TM 88643B-45 establishes and sets forth tasks and identifies the work efforts that shall be performed by the contractor in the rebuild of the Assault Amphibious Vehicle (AAV) VT-400 Engine, hereafter referred to as the VT-400, or the VT-400 with Container. This document contains minimum requirements to restore the VT-400 or VT-400 with Container to Condition Code "A". Condition Code "A" is defined as "serviceable/issuable without qualification, new, used, repaired or reconditioned material which is serviceable and issuable to all customers without limitations or restrictions". The VT-400 is identified by National Stock Number 2815-01-109-5052 and the VT-400 with Container is identified by National Stock Number 2815-01-140-8799.

1.1 BACKGROUND. Rebuild is defined as that maintenance technique to restore an item to a standard as near as possible to original or new condition in appearance, performance, and life expectancy. This is accomplished through complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable parts using original manufacturing tolerances and/or specifications and subsequent reassembly of the item.

2.0 APPLICABLE DOCUMENTS. The following documents herein form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

2.1 Military Standards

MIL-STD-2073-1C DoD Standard Practice for Military Packaging

MIL-STD-129 DoD Standard Practice for Military Marking

Military Standards (Guidance Only)

MIL-STD-973 Configuration Management

2.2 Other Government Documents and Publications

DoD 4160.21 Defense Utilization and Disposal Manual

TM 88643B-45 Maintenance Instruction and Rebuild Standards

TM 09674A-25&P/4A Assault Amphibious Vehicle, Personnel

TM 2350-45 DMA Standard Procedures

TI-4700-45/6B Installation Of Repair/ Overhaul Data Plates-All  
Equipment End Items, Assemblies and Components

MI-2350-25/97	DDM Transducer Relocation
MI-2350-50/81	Smoke Generator Manual Valve Retention
ECP E05068	Change Engine And Transmission Drain Hose
ECP E05135	Inst. Of Engine and Transmission Oil Sampling Valves
DRAWING 2600092	Engine, Diesel, VT-400
DRAWING 2600062	Engines, Diesel, VT-400 With Container
DTD	MEARS Document Type Definition
DOD 4000.25-1-M	MILSTRIP Manual
NAVICPINST 4491.2A	Requisitioning of Contractor Furnished Material From The Federal Supply System

### 2.3. Industry Standards

ANSI/ISO/ASQC Q 9002-1994	Quality Systems-Model for Quality Assurance in Production, Installation and Servicing
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(Copies of Military Specifications and Standards are available from the Naval Publications and Forms Center, [ATTN: NPODS], 5801 Tabor Avenue, Philadelphia, PA 19120-5099. Copies of handbooks, publications, and other Government documents by the contractor in connection with specific SOW requirements shall be obtained, in writing from: Commander, Attn: (Code 876), Marine Corps Logistics Base, 814 Radford Boulevard, Albany, Georgia 31704-5000. Commercial (912) 439-5818/19 or DSN 567-5818/19. Copies of Drawings or Engineering Change Proposals required by the contractor shall be obtained in writing from: Life Cycle Management Center, Attn: (Code 825-3), Marine Corps Logistics Bases, 814 Radford Boulevard, Suite 20302 Albany, Georgia 31704-0320, Comm (912) 439-6410 or DSN 567-6410.)

## 3.0 REQUIREMENTS

### 3.1 General Tasks. In fulfilling the specified requirements, the contractor shall:

a. Provide materials, labor, facilities, and services necessary to troubleshoot, test, diagnose, engineer, integrate, install, repair, rebuild, and calibrate as required to make the VT-400 or the VT-400 with Container fully operational. Upon completion of rebuild, the VT-400 or VT-400 with Container shall be Condition Code "A".

b. Conduct final-on-site testing which shall be witnessed by Marine Corps Logistics Base MARCORLOGBASEALB (Code 834-1) representative at his/her discretion.

c. The contractor shall be responsible for all structural, electrical, and mechanical requirements associated with the rebuild of the VT-400 or the VT-400 with Container as specified in TM 88643B-45, TM07007b-25&P/2, MIL-STD 20731C, and MIL-STD-129.

d. Ensure all VT-400 or VT-400 with Container meet the configuration of Naval Sea System Command Drawings 2600092 or 2600062.

e. All mandatory replacement parts shall be replaced 100%. Economical replacement parts may be reused if they meet the applicable inspection requirements in TM 2350-45. All parts shall be disposed of in accordance with DoD 4160.21-M.

3.2 Detailed Tasks. The following tasks describe the different phases for the rebuild of the VT-400 or the VT-400 with Container.

3.2.1 Phase I - Rebuild. The contractor shall receive VT-400 or the VT-400 with Container for rebuild. The contractor shall then disassemble the VT-400 or the VT-400 with Container into components and conduct the rebuild process. The contractor shall rebuild components in accordance with the requirements in TM 88643B-45, and this SOW. The contractor shall be responsible for supplying all equipment, tools, test equipment, and materials for the conduct of this effort. The contractor shall be responsible for the integration, assembly of all components. All Modification Instructions (MIs) and Engineering Change Proposals (ECPs) cited in paragraph 2.2, MI 2350-25/97, MI 2350-50/81, ECP E05068, E05135 of this SOW. The configuration identification for the VT-400 is defined by the specifications annotated on current revision levels of Naval Sea System Command Drawing 2600092. The VT-400 with Container is defined by the Specifications annotated on current revision levels of Naval Sea System Command Drawing 2600062. A Rebuild Data Plate shall be installed in accordance with TM-4700-45/6B.

3.2.2 Phase II - Inspection, Testing, Acceptance

a. Inspection, testing, and acceptance of the VT-400 or the VT-400 with Container shall be conducted in accordance with TM 88643B-45 and ANSI/ISO/ASQC Q9002-1994.

3

b. The performance of the contractor and the quality of work delivered, including all documentation of material written or compiled, shall be subject to in-process review and inspection during performance. Inspection may be accomplished in-plant or at any work site. The MARCORLOGBASEALB representative shall be permitted to observe the work and/or to conduct inspections at any reasonable hour. Final inspection and acceptance shall be at the contractors.

c. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by the MARCORLOGBASEALB representative. The contractor shall, at no additional cost to the Marine Corps, provide the following:

(1) Develop an approach for the correction of all deficiencies.

(2) Upon approval by the MARCORLOGBASEALB representative, the contractor shall correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedure requirements is demonstrated.

### 3.2.3 Phase III - Packaging, Handling, Storage and Transportation (PHS&T).

a. The contractor shall be responsible for the application of preservation and packaging of items being repaired under the terms of this SOW. Preservation and packaging shall be level "A" in accordance with MIL-STD 2037-1C.

b. Marking shall be in accordance with MIL-STD-129.

c. The Marine Corps will provide the contractor with shipping address(es) for delivery of the repaired equipment, and the contractor shall be responsible for arranging for shipment to the pre-designated site(s). The Marine Corps will be responsible for transportation costs associated with shipping the subject equipment to and from the Contractor.

### 3.3 Configuration Control

a. The contractor shall apply configuration control to established configuration items. The contractor shall not implement a design or performance change to any item without receiving prior authorization from the contracting activity. The need to deviate from the written procedures or materials contained in the technical manuals/engineering drawings shall be requested by the electronic submission of a Request for Deviation/Request for Waiver (RFD/RFW). MIL-STD-973, paragraph 5.4.3 and 5.4.4, provides guidance for preparing these configuration change documents.

The contractor shall be furnished with MEARS Document Type Definitions (DTD), and either the associated template for the production of electronic RFD/RFWs or the MEARS CREATE application. All electronic change submissions shall be prepared in accordance with the DTD. Delivery media and formats are contained in the applicable Contract Data Requirements List.

4

b. The submission of electronic files shall be accomplished by the originator placing the file RFD/RFW files on the MCLBA shared drive, FS Group Shared files 1@ALADMA05@Servers on "Street talk" (G) or equivalent address. The originator shall notify the contracting activity of a RFD residing on applicable server by e-mail. As an alternative to placing the RFD/RFW on the server, the originator may e-mail the document using .zip files.

### 3.4 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM)

GFE is government owned equipment authorized by contract for use by a commercial/ Government contractor. It is neither consumed during production nor incorporated into any product. GFM is materiel furnished to a contractor that will be consumed during the course of production or incorporated into a product being manufactured/remanufactured under a contract/ statement of work. In the event the Marine Corps does have a GFE/GFM requirement the Management Control Activity (MCA/Code 822), Marine Corps Logistics Bases, Albany, Georgia, will coordinate required GFE and maintain a central control on Marine Corps assets in the contractors possession. The MCA will forward a GFE Accountability agreement to the contractor for signature to establish a chain of custody and property responsibility for Marine Corps assets.

### 3.5 Contractor Furnished Materiel (CFM)

The Marine Corps has adopted the Navy's procedures regarding Contractor Furnished Materiel (NAVICPINST 4491.2A). In the event that Contractor Furnished Materiel is required for repair parts, the DOD 4000.25-1-M, (MILSTRIP) Chapter 11 authorizes contractors to requisition through the DoD Supply System.

### 3.6 Quality Assurance Provisions

3.6.1 The performance of the contractors quality of work performed, material provided and documents written shall be subject to in-process review and inspection by the MARCORLOGBASEALB representative during contract performance. Inspection may be accomplished at any work location. The MARCORLOGBASEALB representative shall be permitted to observe the work/tasks accomplishment and/or to conduct inspections at any reasonable hour. Acceptance Tests shall be held in-plant. The MARCORLOGBASEALB representative requires, at a minimum, two weeks notice prior to acceptance testing being done, to allow for sufficient time for witnessing these tests. Inspection by the MARCORLOGBASEALB representative of all acceptance tests, materials and associated lists furnished hereunder does not relieve the contractor from any responsibility regarding defects or other failures to meet the SOW requirements which may be disclosed prior to final acceptance.

3.6.2 The contractor shall provide and maintain a Quality System that as a minimum, adheres to the requirements of ANSI/ISO/ASQC Q 9002-1994, Quality System Model for Quality Assurance in Production, Installation, and Servicing. The contractors work shall be subject to

5

in-process reviews and inspections for compliance with these procedures and standards by MARCORLOGBASEALB representative.

Noncompliance with these quality assurance procedures resulting in degraded quality of work may result in a stop-work order requiring action by the contractor to correct the work performed and to enforce compliance with quality assurance procedures or face contract termination. Notwithstanding such inspection, it shall be the contractors responsibility to ensure that the entire system meets the performance requirements of this SOW.

3.6.3 Quality Assurance Inspections will be in accordance with ANSI/ISO/ASQC Q 9002-1994, Quality System Model for Quality Assurance in Production, Installation, and Servicing.

3.6.4 Quality assurance operations performed by the contractor shall be subject to the MARCORLOGBASEALB representative's verification at any reasonable hour. MARCORLOGBASEALB representative's verification can include, but shall not be limited to the following:

a. Inspection of materials, products, assemblies, subassemblies, and documentation to assess compliance with quality standards.

b. Surveillance of operations to determine that quality assurance, practices, methods, and procedures are being properly applied.

c. Inspections of deliverable products to assure compliance with all requirements of the VT 400 Engine or VT 400 Engine with Container rebuild process, this SOW, and applicable documents used herein.

3.6.5 Failure of the contractor to promptly correct deficiencies discovered, shall be reason for suspension of acceptance until corrective action has been made.

#### 4.0 REPORTS\DOCUMENTATION

4.1 Report/Documents that are required:

a. The contractor shall provide a Monthly Parts Usage Report on each VT 400 Engine. The report shall be sequenced by Master Work Schedule Line Number and Production Number. (MWSLIN)

b. The contractor shall provide a monthly Production Status Report summarizing the progress and status of the VT 400 Engine.

# CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved  
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

<b>A. CONTRACT LINE ITEM NO.</b>	<b>B. EXHIBIT</b>	<b>C. CATEGORY:</b> TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>	
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<b>D. SYSTEM/ITEM</b> AAV VT-400 Engine/Eng Container	<b>E. CONTRACT/PR NO.</b>	<b>F. CONTRACTOR</b>
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<b>1. DATA ITEM NO.</b> A001	<b>2. TITLE OF DATA ITEM</b> Production Status Report	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b> DI-MGMT-81255	<b>5. CONTRACT REFERENCE</b> SOW 4.1.b	<b>6. REQUIRING OFFICE</b> MCLBA (834-1)
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<b>7. DD 250 REQ</b> LT	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> MTHLY	<b>12. DATE OF FIRST SUBMISSION</b> SEE BLK 16	<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b>	A	<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b>	<b>a. ADDRESSEE</b>	<b>b. COPIES</b>	
					<b>Draft</b>	<b>Final</b>
					<b>Reg</b>	<b>Repro</b>

<b>16. REMARKS</b> Contractor format is authorized.  Blk 4 - Delete the following paragraphs. These paragraphs do not apply to this deliverable: 10.1, 10.2.3, 10.2.5, 10.2.6, and 10.2.9.  In paragraphs 10.2.4 and 10.2.7, replace the word "CLIN" with "MWSLI" (Master Work Schedule Line Item Number.)  Blks 10 & 12 -The report shall be submitted on the 10th of each month. The first submission shall be 30 days after the contract award.  The Production Status Report shall be transmitted via E-Mail to the following address: HoffmanRE@matcom.usmc.mil  Distribution Statement A: Approved for public release, distribution is unlimited.	<b>15. TOTAL</b> →
	0    1    0

<b>G. PREPARED BY</b> <i>[Signature]</i>	<b>H. DATE</b> 12/29/99	<b>I. APPROVED BY</b> <i>[Signature]</i>	<b>J. DATE</b> 10/29/99
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<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>





**CONTRACT DATA REQUIREMENTS LIST**

(1 Data Item)

Form Approved  
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

<b>A. CONTRACT LINE ITEM NO.</b>	<b>B. EXHIBIT</b>	<b>C. CATEGORY:</b> TDP _____ TM _____ OTHER _____ <input checked="" type="checkbox"/>
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<b>D. SYSTEM/ITEM</b> AAV VT-400 Engine/Eng Container	<b>E. CONTRACT/PR NO.</b>	<b>F. CONTRACTOR</b>
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<b>1. DATA ITEM NO.</b> C002	<b>2. TITLE OF DATA ITEM</b> Request For Deviation	<b>3. SUBTITLE</b> Configuration Management
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<b>4. AUTHORITY (Data Acquisition Document No.)</b> DI-CMAN-80640B	<b>5. CONTRACT REFERENCE</b> SOW 3.3	<b>6. REQUIRING OFFICE</b> MCLBA (825)
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<b>7. DD 250 REQ</b> LT	<b>8. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> ASREQ	<b>12. DATE OF FIRST SUBMISSION</b> SEE BLK 16	<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b> A		<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b>	a. ADDRESSEE MCLBA (825-2)	b. COPIES	
					Draft	Final

<b>16. REMARKS</b> Blk 4 - Contractor format is authorized.  Blks 10 & 12 - RFDs shall be submitted to obtain authorization to deliver nonconforming material which does not meet prescribed configuration documentation.  RFDs will be reviewed and disposition determined within 30 calendar days upon receipt by the Government.  RFDs shall be transmitted via E-Mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil  Distribution Statement A: Approved for public release; distribution is unlimited.							

<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>G. PREPARED BY</b> <i>Darcy Smith</i>	<b>H. DATE</b> 11-22-99	<b>I. APPROVED BY</b> <i>[Signature]</i>	<b>J. DATE</b> 11/22/99
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