

STATEMENT
OF
WORK
(SOW)
FOR THE REBUILD OF THE AAV
VT- 400 ENGINE
NSN 2815-01-109-5052
AND THE AAV
VT-400 ENGINE WITH CONTAINER
NSN 2815-01-140-8799
SOW-01-834-1-88643C-1/1
Dated 4 April 2000

STATEMENT OF WORK FOR THE REBUILD OF THE
AAV VT-400 ENGINE AND THE
AAV VT-400 ENGINE WITH CONTAINER
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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 materiel which is serviceable and issuable to all customers without limitations or restrictions". National Stock Number (NSN) 2815-01-109-5052 identifies the VT-400, and National Stock Number (NSN) 2815-01-140-8799 identifies the VT-400 with Container.

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-129	Standard Practice for Military Marking
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Military Standards (Guidance Only)

MIL-STD-973	Configuration Management
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2.2 Other Government Documents and Publications

DoD 4160.21-M	Defense Materiel Dispositional Manual
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TM 88643B-45	Maintenance Instruction and Rebuild Standards
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TM 09674A-25&P/4B	Maintenance Instructions and Repair Parts List Organizational, Intermediate and Depot Assault Amphibious Vehicle Model 7A1 Family of Vehicles and RAM/RS
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
ATPD 2232	Engine: Preparation For Shipment and Storage of
DRAWING 2600092	Engine, Diesel, VT-400
DRAWING 2600062	Engine, Diesel, VT-400 With Container
DTD	Multi User Engineer Change Proposal Automated Review (MEARS) Document Type Definition (DTD)
DoD 4000.25-1-M	MILSTRIP Manual
NAVICPINST 4491.2A	Requisitioning of Contractor Furnished Materiel from the Federal Supply System

2.3 Industry Standards

ANSI/ISO/ASQC Q9002-1994	Quality Systems-Model for Quality Assurance in Production, Installation, and Servicing
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Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Defense Automation Production Service Philadelphia, PA, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Commercial (215) 697-2179 or DSN 442-2179 or <http://www.dodssp.daps.mil>. Copies of handbooks, publications and other Government documents required by the contractor in connection with specific SOW requirements shall be obtained, in writing, from: Commander, Marine Corps Logistics Bases, Attn: (Code 876), Albany, Georgia 31704-5000. Commercial (912) 439-5818/19, or DSN 567-5818/19. Copies of Drawings and 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 Blvd, STE 20302 Albany Georgia, 31704-3020, Commercial (912) 439-6410 or DSN 567-6410.

3.0 REQUIREMENTS

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

a. Provide materiel, 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 may 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, TM 09674A-25&P4B, 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 identified in TM 09674A-25&P4B 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 materiel's to conduct 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 will be applied. The configuration identification for the VT-400 is defined by the specifications annotated on current revision level of Naval Sea System Command Drawing 2600092. The VT-400 with Container is defined by the Specifications annotated on current revision level 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, and Acceptance

a. The Contractor shall provide a Certificate of Conformance with the delivery of the final product attesting the product meets, or exceeds the requirements of this SOW. Any deficiencies discovered will be corrected by the Contractor.

b. 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.

3.2.3 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. Items being prepared for overseas shipment or long term storage shall be in accordance with level "A" requirements of ATPD 2232, Type IV. Items scheduled for domestic shipment, immediate use, or short-term storage shall be to level B requirements.

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

c. The Marine Corps shall 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 Contractor shall be responsible for arranging for shipment to the pre-designated site(s). The Marine Corps shall be responsible for transportation costs associated with shipping the subject equipment to and from the Contractor.

3.3 Configuration Management

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 materiel's 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 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.

b. The submission of electronic files shall be accomplished by the originator placing the file RFD/RFW files on the MARCORLOGBASEALB shared drive at [matcomapps05/mears/foaav](#). 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/SOW. In the event the Marine Corps does have a GFE/GFM requirement the Management Control Activity (MCA) at MARCORLOGBASEALB (MCA/Code 827-2), 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 Material (CFM)

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

3.6 Quality Assurance Provisions

a. The performance of the contractor's quality of work performed, material provided and documents written shall be subject to in-process review and inspection by the MARCORLOGBASEALB (Code 834-1) representative during contract performance. Inspection may be accomplished at any work location. The MARCORRLOGBASEALB (Code 834-1) 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 (Code-834-1) representative requires, at a minimum, two weeks notice prior to acceptance testing being done, allowing for sufficient time for witnessing these tests. Inspection by the MARCORLOGBASEALB (Code 834-1) representative of all acceptance tests, material 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.

b. The contractor shall provide and maintain a Quality System that as a minimum adheres to the requirements of ANSI/ISO/ASQC Q9002-1994. The contractor's work shall be subject to in-process reviews and inspections for compliance with these procedures and standards by MARCORLOGBASEALB (Code 834-1) 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 contractor's responsibility to ensure that the entire system meets the performance requirements of this SOW.

4.0 REPORTS/DOCUMENTATION

4.1 Reports/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 (MWSLIN) and Production Number.

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. 1704-0188

The Public reporting burden for this collection of information is authorized 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 this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government issuing Contract Officer for the contract/PR No. listed in block E.

A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ Other XXX _____	
D. SYSTEM/ITEM VT400 ENGINE		E. CONTRACT/PR No.		F. CONTRACTOR	
1. DATA ITEM No. A001	2. TITLE OF DATA ITEM Production Status Report		3. SUBTITLE Monthly Production Status Report		
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81255		5. CONTRACT REFERENCE SOW 4.1.b		6. REQUIRING OFFICE MARCORLOGBASES (834)	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED A	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION See Blk 16	14. DISTRIBUTION	
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE MCLBA (834-1)	b. COPIES Draft Reg Final 0 1 0
16. REMARKS					
Block 4 - Contractor format is authorized. 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 "CLIN" with "MWSLI" (Master Work Schedule Line Item) Number.					
Blocks 10 and 12 - The report shall be submitted on the tenth 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.					
				15. TOTAL	

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY: R. E. Hoffman	H. DATE 03/30/00	I. APPROVED BY: <i>[Signature]</i>	J. DATE 03/30/00
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CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 1704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ Other <u>XXX</u>
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D. SYSTEM/ITEM <u>VT 400 ENGINE</u>	E. CONTRACT/PR No.	F. CONTRACTOR
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1. DATA ITEM No. C001	2. TITLE OF DATA ITEM Request for Waiver (RFW)	3. SUBTITLE Configuration Management
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4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80641B	5. CONTRACT REFERENCE SOW 3.3	6. REQUIRING OFFICE MARCORLOGBASES 825
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED A	10. FREQUENCY	12. DATE OF FIRST SUBMISSION See Blk 16	14. DISTRIBUTION
8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES Draft FINAL Reg Repro

16. REMARKS MEARS CREATE Files shall be provided as an electronic submission. Any supporting documentation shall be submitted as enclosures or figures to the MEARS text files. MEARS text files shall be created in MS Word, MS Excel or CCITT Group IV graphic files. Group IV graphic files shall include MIL-STD-1840 CAL data file header. Graphic density for drawings shall be submitted as 600dpi. RFWs or .zip files shall be transmitted via e-mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil Distribution Statement A: Approved for public release, distribution is unlimited.	MCLBA 825-2	0	1	0
15. TOTAL				

G. PREPARED BY: <u>Doug Smith</u>	H. DATE 2-3-00	I. APPROVED BY: <u>[Signature]</u>	J. DATE 03/31/00
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17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP TM Other XXX
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D. SYSTEM/ITEM VT 400 ENGINE	E. CONTRACT/PR No.	F. CONTRACTOR
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1. DATA ITEM No. C002	2. TITLE OF DATA ITEM Request for Deviation (RFD)	3. SUBTITLE Configuration Management
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4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80640B	5. CONTRACT REFERENCE SOW 3.3	6. REQUIRING OFFICE MARCORLOGBASES 825
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7. DD 250 REQ. LT	9. DIST STATEMENT REQUIRED A	10. FREQUENCY AS REQ	12. DATE OF FIRST SUBMISSION See Blk 16	14. DISTRIBUTION a. ADDRESSEE	b. COPIES		
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8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	Draft	FINAL Reg Repro	
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G. PREPARED BY Doug Smith	H. DATE 4-4-00	I. APPROVED BY <i>R.E. Hoffman</i>	J. DATE 04/04/00
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE