# SOW CHANGE PROPOSAL

SOW-04-CBG-8I043B-1/1 Change 1 — 25 Sep 2002
SOW-05-PMM143-8I043B-1/1 Change 1 — 25 Sep 2002

STATEMENT OF WORK (SOW)
For the Rebuild of the
Assault Amphibious Vehicle (AAV)
VTA-T525 Engine
NSN 2815-01-463-8066
and
AAV VTA-T525 Engine with Container
NSN 2815-01-490-0312

SOW-04-CBG-8I043B-1/1
SOW-05-PMM143-8I043B-1/1

1. Request that the current SOWs dated 25 September 2002 be replaced with the attached SOWs dated 13 April 2004. Additionally, request that the SOW-06-PMM143-8I043B-1/1 be made final and a Draft SOW-07-PMM143-8I043B-1/1 be placed on the Web Site.

Robert E. Hoffman

Change Submitted by: Robert E. Hoffman Date: 16 April 2004
Equipment Specialist
PM AAVS (Code PMM143)
MARCORSYSCOM, Albany GA

Robert E. Hoffman

Change Approved by: Robert E. Hoffman Date: 16 April 2004
Logistics Management Specialist (Acting)
PM AAVS (Code PMM143)
MARCORSYSCOM, Albany, GA

# STATEMENT OF WORK (SOW)

# FOR THE REBUILD OF THE

# ASSAULT AMPHIBIOUS VEHICLE (AAV)
# VTA-T525 ENGINE
# NSN 2815-01-463-8066

# OR

# ASSAULT AMPHIBIOUS VEHICLE (AAV)
# VTA-T525 ENGINE WITH CONTAINER
# NSN 2815-01-490-0312

Statement of Work (SOW) for the Rebuild of the
AAV VTA-T525 Engine
NSN 2815-01-463-8066
or
VTA-T525 Engine with Container
NSN 2815-01-490-0312

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Statement of Work (SOW) for the Rebuild of the
AAV VTA-T525 Engine
NSN 2815-01-463-8066
or
VTA-T525 Engine with Container
NSN 2815-01-490-0312

1.0 SCOPE. This Statement of Work (SOW), along with Cummins Trouble Shooting and Repair Manual and TM 8F152B-25&P/A establishes, sets forth tasks and identifies the work efforts that shall be performed by the Contractor in the rebuild of the Assault Amphibious Vehicle (AAV) VTA-T525 Engine or VTA-T525 Engine with Container, hereafter referred to as the 525 Engine or the 525 Engine with Container. This document contains minimum requirements to restore the 525 Engine or 525 Engine 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) 2815-01-463-8066 identifies the 525 Engine and NSN 2815-01-490-0312 identifies the 525 Engine 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 | DoD Standard Practice: Military Marking for Shipment and Storage |

2.2 Other Government Documents and Publications

| | |
|---|---|
| DoD 4160.21-M | Defense Materiel Disposition Manual |
| TM 8F152B-25&P/A | Power Plant Assembly Assault Amphibious Vehicle (7A1 Family of Vehicles and RAM/RS) |
| TM 2350-45 | DMA Standard Procedures |

| | |
|---|---|
| Engineering Drawing 7010026<br>CAGE 0MLM6 | Engine, Diesel, 525 HP (as provide by Cummins) |
| Engineering Drawing 7010027<br>CAGE 0MLM6 | Engine, Diesel, 525 HP, Built Up |
| Engineering Drawing 7010058<br>CAGE 0MLM6 | Engine with Container |
| DoD 4000.25-1-M | Military Standard Requisitioning and Issue Procedures (MILSTRIP) |
| ATPD 2232 | Preparation for Shipment and Storage of Engines |
| Cummins Repair Manual | Cummins Trouble Shooting and Repair Manual VTA-T525 Engine |

Military Handbooks (For Guidance)

| | |
|---|---|
| MIL-HDBK-61 | Configuration Management Guidance |

2.3 Industry Standards

| | |
|---|---|
| ANSI/ISO/ASQC Q9001-2000 | Quality Management Systems-Requirements |

Industry Standards (For Guidance)

| | |
|---|---|
| ANSI/EIA-649 | National Consensus Standard for Configuration Management |

Copies of Military Specifications and Standards are available from the DoD Single Stock Point, Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, commercial telephone number (215) 697-2179 or DSN 442-2179 or on the Internet at http://www.dodssp.daps.mil. Copies of other Government documents and publications required by Contractors in connection with specific SOW requirements shall be obtained through the Contracting Officer: Contracts Department (Code 891), P.O. Drawer 43019, 814 Radford Blvd., Marine Corps Logistics Command, Albany, Georgia 31704-3019, commercial telephone number (229) 639-6761 or DSN 567-6761. Copies of engineering drawing, if applicable, shall be obtained from Supply Chain Management Center, Attn: (Code 566-1A), 814 Radford Blvd., STE 20320, Albany, Georgia, 31704-0320, commercial telephone number (229) 639-6476 or DSN 567-6476. The Cummins Trouble Shooting and Repair Manual

may be obtained by contacting your Local Cummins Distributor or calling Gannett Direct Marketing at commercial telephone number (502) 454-6660 and ask for Cummins Literature.

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, convert and calibrate, as required, to make the 525 Engine or the 525 Engine with Container fully operational. Upon completion of the rebuild, the 525 Engine or the 525 Engine with Container shall be Condition Code "A".

b. Conduct final-on-site testing, which may be witnessed by a Marine Corps Systems Command (MCSC) (PMM143), Albany, Georgia representative.

c. Be responsible for all structural, electrical, and mechanical requirements associated with the rebuild of the 525 Engine or the 525 Engine with Container specified in TM 8F152B-25&P/A, Cummins Trouble Shooting and Repair Manual, TM 2350-45, and Engineering Drawings 7010027, 7010026, and 7010058, CAGE 0MLM6.

d. If the 525 Engine and Container are uneconomical to repair, the 525 Engine shall be returned to the Marine Corps Supply System as a Code "H" Asset and then disposed of in accordance with DoD 4160.21-M. The Container shall be returned to the Marine Corps under NSN 8145-01-141-2686 as a Condition Code "F" Asset for future use.

e. Replace all mandatory parts 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 525 Engine or the 525 Engine with Container.

3.2.1 Phase I - Rebuild. The Contractor shall receive the defective 525 Engine or the 525 Engine with Container for rebuild from the Marine Corps Supply System. Rebuild shall be accomplished in accordance with the current edition of this SOW, Engineering Drawings 7010027, 7010058, 7010026, CAGE 0MLM6, TM 8F152B-25&P/A, and the Cummins Trouble Shooting and Repair Manual. It is highly recommended that the Original Equipment Manufacturer [OEM] or one of its authorized repair facilities be considered for rebuild of the basic 525 Cummins Engine. Components or assemblies not part of the basic 525 Cummins Engine, Engineering Drawing 7010026, CAGE 0MLM6, shall be removed, inspected and retained if serviceable, by the Contractor for reinstallation. The Contractor shall be responsible for supplying all tools, test equipment and materials for the conduct of this effort. The Contractor shall be responsible for the integration and assembly of all components during reassembly. Upon completion of the rebuild, the 525 Engine or the 525 Engine with Container shall meet the configuration of Engineering Drawing

7010027, CAGE 0MLM6 or Engineering Drawing 7010058, CAGE 0MLM6. A Rebuild Data Plate shall be installed centered below the Item Identification Plate on the 525 Engine. The Rebuild Data Plate shall contain the following information: (REBUILT BY:), (INSPECTED BY:) and (DATE REBUILT:). The plate shall be no more than .008 in. thick, 2¾ in. in length, and ¾ in. in height.

3.2.2 Phase II - Inspection, Testing, and Acceptance. Inspection, testing, and acceptance of the 525 Engine or the 525 Engine with Container shall be conducted in accordance with TM 8F152B-25&PA and ANSI/ISO/ASQC Q9001-2000, Quality Management Systems - Requirements. The Contractor shall correct any deficiencies discovered.

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

a. The Contractor shall be responsible for preservation and packaging of the item(s) being rebuilt under the terms of this SOW. All items shall be in accordance with the requirements of ATPD 2232, Type II for NSN 2815-01-490-0312 or Type IV for NSN 2815-01-463-8066.

b. Marking for shipment and storage shall be in accordance with MIL-STD-129.

c. The Marine Corps will be responsible for providing the Contractor with the address(es) for shipment of the rebuilt equipment. The Contractor shall be responsible for arranging for the shipment to the pre-designated site(s). The Marine Corps will be responsible for cost associated with the transportation of the subject equipment to and from the Contractors facility.

3.3 Configuration Management

a. The Contractor shall apply configuration control procedures to established configuration items. The Contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. If deemed necessary to temporarily depart from the authorized configuration, the Contractor shall prepare and submit a Request For Deviation (RFD). MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing RFD's.

b. The creation and submission of RFD's shall be accomplished using MEARS CREATE software, which resides at a secure web site, https://mearsweb1.redstone.army.mil. For the purpose of gaining access to the web site, the Contractor shall request user-id and password privileges from the Requiring Office identified in Block 6 of the applicable Contract Data Requirements List. The Contractor shall direct technical or functional questions concerning usage of MEARS CREATE software to the Requiring Office for guidance. The Contractor shall notify the Requiring Office by electronic mail when completed MEARS RFDs are ready for formal submission.

3.4 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM). The Management Control Activity (MCA/Code 581-1B) will coordinate GFE/GFM requests and maintain a central control system on all government owned assets in the Contractor's possession. The MCA will forward a GFE Accountability Agreement to the Contractor for signature on an annual basis to establish a chain of custody and property responsibilities for Marine Corps assets. The Contractor is to acknowledge receipt of GFM to the MCA within 15 days of receipt. This can be done by mailing a copy of the DD1348 to Materiel and Distribution Management Department, Distribution Management Branch, Management Control Activity (Code 581-1B), 814 Radford Blvd., STE 20320, Albany, Georgia 31704-0320, or faxing to commercial telephone number (229) 639-5498 or DSN 567-5498.

3.5 Contractor Furnished Materiel (CFM). The Contractor may requisition materials as required in the performance of this SOW through the DoD Supply System. DoD 4000.25-1-M (MILSTRIP) Chapter 11 provides guidance to Contractors on the requisitioning process. The Contractor's decision to utilize CFM procured from the DoD Supply System shall be based upon cost effectiveness, availability of materiel and the required completion/delivery date.

3.6 Quality Assurance Provisions

a. An evaluation of the Contractor's quality of work performed, material provided and documents written shall be subject to in-process review and inspection by the MCSC (PMM143), Albany, Georgia representative during contract performance. Inspection may be accomplished at any work location. The MCSC (PMM143), Albany, Georgia representative requires, at a minimum, two weeks notice of acceptance tests to allow for sufficient time for the MCSC (PMM143), Albany, Georgia representative to witness the test. Inspection by the MCSC (PMM143), Albany, Georgia representative of acceptance tests, materials and associated list 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 Q9001-2000. The Contractor's work shall be subject to in-process reviews and inspections for compliance with these procedures and standards by the MCSC (PMM143), Albany, Georgia 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. All report deliverables shall be submitted in hard copy to Marine Corps Systems Command, Attn: PMM143, 814 Radford Blvd., STE 20343, Albany, Georgia 31704-0343, unless directed otherwise in a Contract Data Requirements List.

4.1 Production Status Report. A monthly Production Status Report shall be submitted summarizing the progress and status of the 525 Engine or the 525 Engine with Container.

# 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

| A. CONTRACT LINE ITEM NO. | B. EXHIBIT | C. CATEGORY: TDP ____ TM ____ OTHER X |
|---|---|---|
| D. SYSTEM/ITEM<br>VTA-T525 Engine or Engine w/Cont | E. CONTRACT/PR NO. | F. CONTRACTOR |

| 1. DATA ITEM NO. | 2. TITLE OF DATA ITEM | 3. SUBTITLE | 17. PRICE GROUP |
|---|---|---|---|
| A001 | Production Status Report | Monthly Production Status Report | |

| 4. AUTHORITY *(Data Acquisition Document No.)* | 5. CONTRACT REFERENCE | 6. REQUIRING OFFICE | 18. ESTIMATED TOTAL PRICE |
|---|---|---|---|
| DI-MGMT-81255 | SOW Para. 4.0 | PMM143 | |

| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION |
|---|---|---|---|
| LT | A | ASREQ | See Blk 16 |
| **8. APP CODE** | | **11. AS OF DATE** | **13. DATE OF SUBSEQUENT SUBMISSION** |
| A | | | N/A |

**16. REMARKS**

Block 4: Contractor format authorized. Delete the following paragraphs as they do not apply to the deliverable: 10.1, 10.2.3, 10.2.5, 10.2.6, and 10.2.9.

In paragraph 10.2.1d use Job Order Number or Contract Number.

In paragraph 10.2.4 and 10.2.7 replace "CLIN" with "MILN or MWSLN" Master Work Schedule Number.

Blocks 10 & 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 addresses: Robert.E.Hoffman@USMC.MIL and Virginia.Maynard@USMC.MIL.

Distribution Statement A: Approved for Public Release; Distribution is Unlimited.

**14. DISTRIBUTION**

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| MCSC(PMM143) | | | 1 |
| Albany, GA | | | |
| MCLC (584-2) | | 1 | |
| **15. TOTAL** → | | 1 | 1 |

| G. PREPARED BY | H. DATE | I. APPROVED BY | J. DATE |
|---|---|---|---|
| R E Hoffman | 04/21/04 | R E Hoffman | 04/21/04 |

# CONTRACT DATA REQUIREMENTS LIST
*(1 Data Item)*

*Form Approved*
*OMB No. 0704-0188*

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| A. CONTRACT LINE ITEM NO. | B. EXHIBIT | C. CATEGORY: TDP ____ TM ____ OTHER X |
|---|---|---|
| D. SYSTEM/ITEM: AAV VTA-T525 Engine or w/Cont | E. CONTRACT/PR NO. | F. CONTRACTOR |

| 1. DATA ITEM NO. | 2. TITLE OF DATA ITEM | 3. SUBTITLE | 17. PRICE GROUP |
|---|---|---|---|
| B001 | Request For Deviation | Configuration Management | 18. ESTIMATED TOTAL PRICE |

| 4. AUTHORITY (Data Acquisition Document No.) | 5. CONTRACT REFERENCE | 6. REQUIRING OFFICE |
|---|---|---|
| DI-CMAN-80640C | SOW 3.3 | MCLCA (566) |

| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION |
|---|---|---|---|
| LT | | ASREQ | See Blk 16 |
| **8. APP CODE** | | **11. AS OF DATE** | **13. DATE OF SUBSEQUENT SUBMISSION** |
| A | A | | N/A |

**16. REMARKS**

BLK 4 - MEARS RFD text files shall be submitted electronically using MICROSOFT (.doc) or ADOBE (.pdf) formatted software products.

BLK 4 - Accompanying figures to the text files shall be in a MICROSOFT format or CCITT Group 4 graphic file. Group 4 files shall have a minimum density of 600 dpi.

BLKS 10 & 12 - RFDs shall be submitted to obtain authorization to deliver nonconforming material which does not meet prescribed configuration documentation.

BLK 14: RFD notification shall be accomplished via e-mail to the following address: mbmatcomconfigmngmnt@logcom.usmc.mil.

Point of contact for MEARS Create questions may be directed to Diane Bradley at DSN 567-7351 or bradleydl@logcom.usmc.mil.

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|---|---|---|---|
| Diane L. Bradley | 04/16/04 | R E Hoffman | 04/21/04 |