Draft Maintenance Concept Remains Consistent with Prior Fiscal Year

# STATEMENT OF WORK (SOW) FOR THE REBUILD OF THE POWER PACK STAND, MAINTENANCE FOR THE VT 400/VT 525 HP CUMMINS ENGINE

NSN 4910-01-151-2874

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# STATEMENT OF WORK FOR THE REBUILD OF THE POWER PACK STAND, MAINTENANCE FOR THE VT 400/VT 525 HP CUMMINS ENGINE NSN 4910-01-151-2874

1.0 SCOPE. This Statement of Work (SOW), along with Naval Sea System Drawing 2590065-2, CAGE 80064, establishes, sets forth tasks and identifies the work efforts that shall be performed by the contractor in the rebuild of the Power Pack Stand, Maintenance for the VT 400/VT 525 HP Cummins Engine, hereafter referred to as the Maintenance Stand. This document contains requirements to restore the Maintenance Stand 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, including materiel with more than six months shelf-life remaining".

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 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 and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

2.1 Military Standards

| | |
|---|---|
| MIL-STD-2073-1D | DoD Standard Practice for Military Packaging |
| MIL-STD-129 | DoD Standard Practice: Military Marking for Shipment and Storage |

2.2 Other Government Documents and Publications

| | |
|---|---|
| TM 2350-45 | DMA Standard Procedures |
| Naval Sea Systems Command Drawing 2590065, CAGE 80064 | Stand, Power Pack, VT 400 Diesel Engine |
| DoD 4160.21-M | Defense Material Disposition Manual |
| DoD 4000.25-1-M | Military Standard Requisitioning and Issue Procedures (MILSTRIP) |

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 Standards 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 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 drawings, 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.

3.0 REQUIREMENTS

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

a. Provide materials, labor, facilities, missing parts, and services necessary to troubleshoot, test, diagnose, engineer, integrate, install, repair, and calibrate as required to rebuild the Maintenance Stand and make it fully operational. Upon completion of rebuild, the Maintenance Stand shall be Condition Code "A."

b. Conduct final-on-site testing which Marine Corps Systems Command (MCSC), Assault Amphibious Vehicle Systems (AAVS), Albany, Georgia representative will witness.

c. The contractor shall be responsible for all structural, electrical, and mechanical requirements associated with the rebuild of the Maintenance Stand as specified in Naval Sea System Command Drawing 2590065, CAGE 80064.

d. Provide Maintenance Stand to meet the configuration of Naval Sea Systems Command Drawing 2590065, CAGE 80064.

e. All mandatory replacement parts shall be replaced 100%. Economically, 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 Maintenance Stand:

a. Inspect towing bar. Inspect for broken welds, bends in the metal, rust, etc., that would cause the towing bar to be non serviceable. If non serviceable, the towing bar shall be remanufactured locally.

b. Inspect mainframe casters; stationary casters on rear P/N 8486926: and swivel casters on the towing end, P/N 8486926. Inspect broken wheels, bearings in the wheels and on top of the swivels. Replacement of the casters, if required, shall be purchased from the local economy. Part Numbers are included in Appendix A.

c. Inspect the main frame, P/N 2590065, for damage from rust, corrosion, and cracked welds. Inspect all adjusting screws for the hook up of the engine/transmission. If repairs are necessary, and cannot be fabricated in the contractor facilities, purchase from the local economy.

d. Inspect the engine dolly rails for alignment and bends. Inspect the wheels for damage. Insure that the wheels track on the rails for the proper alignment of the engine and transmission. Inspect the dolly for the adjusting screws and attaching hardware. Inspect all welds for cracks. Items that cannot be fabricated within the repair facility shall be obtained from the local economy.

e. Inspect the transmission mounting hardware, all nuts, bolts, washers, and brackets necessary to attach the transmission to the Maintenance Stand. Items that cannot be obtained through the supply system, or manufactured in the repair facilities shall be obtained from the local economy.

3.2.1 Phase I - Rebuild. The contractor shall receive the Maintenance Stand for rebuild. The contractor shall then disassemble the Maintenance Stand into components and conduct the rebuild process. The contractor shall rebuild/replace components in accordance with the requirements in Naval Sea System Command Drawing 2590065, CAGE 80064 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 and assembly of all components. The configuration identification for the Maintenance Stand is defined by the specifications annotated on current revision levels of Naval Sea Systems Command Drawing 2590065, CAGE 80064.

3.2.2 Phase II - Inspection, Testing, Acceptance

a. Inspection, testing, and acceptance of the Maintenance Stand shall be conducted in accordance with Naval Sea System Command Drawing 2590065, CAGE 80064, and ANSI/ISO/ASQC Q9001-2000. The contractor shall correct all 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 statement of work. Items scheduled for long-term storage or shipment to overseas destinations shall be in accordance with the Level "A" requirements of MIL-STD-2073-1D, Method 10. Items scheduled for domestic shipment, for immediate use, or short-term storage shall be in accordance with level "B" requirements.

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

c. The Marine Corps shall provide the contractor with the shipping address (es) for the delivery of the repaired equipment. 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 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. Procedures or materials contained in manuals, standards and instructions or engineering drawings/documents define the item's characteristics. 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 RFDs.

b. The creation and submission of RFDs shall be accomplished using MEARS CREATE software, which resides at a secure web site, https://mears1.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 responsibility 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 DD 1348 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 a copy 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 the contractors on the requisitioning process. The contractor's decision to utilize CFM procured from the Supply System shall be based upon cost effectiveness, availability of materiel and the required completion/delivery date.

3.6. Quality Assurance Provisions

3.6.1 The performance of the contractor's quality of work performed, materiel provided and documents written shall be subject to in-process review and inspection by the MCSC (AAVS), Albany, Georgia representative during contract performance. Inspection may be accomplished at any work location. The MCSC (AAVS), Albany, Georgia 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 MCSC (AAVS), Albany, Georgia representative requires, at a minimum, two weeks notification of acceptance test to allow for sufficient time for MCSC (AAVS), Albany, Georgia representative to witness acceptance. Inspection by the MCSC (AAVS), Albany, Georgia representative of all acceptance tests, materiels 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 Q9001-2000. The contractor's work shall be subject to in-process reviews and inspections for compliance with these procedures and standards by MCSC (AAVS), 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 deliverable reports shall be submitted in hard copy to Marine Corps Systems Command, Attn: (AAVS), 814 Radford Blvd., Suite 20343, Albany Georgia 31704-0343, unless directed otherwise in a Contract Data Requirements List.

4.1 Monthly Status Report. A Monthly Production Status Report shall be submitted summarizing the progress and status of the Maintenance Stand.

POWER PACK MAINTENANCE STAND
PARTS LIST FOR 2590065-2 (CUMMINS ENGINE)

| Item # | Qty Req. | Part/Ident # | Description of Item |
|---|---|---|---|
| 1. | 1 | MS16562-66 | Pin Spring |
| 2. | 8 | MS16625-1187 | Ring |
| 3. | 4 | MS24665-386 | Pin |
| 4. | 28 | MS27183-18 | Washer |
| 5. | 4 | MS27183-23 | Washer |
| 6. | 1 | MS35691-33 | Nut |
| 7. | 8 | MS35691-73 | Nut |
| 8. | 32 | MS51922-33 | Nut, self-locking, Hex Hd |
| 9. | 16 | MS90725-114 | Screw |
| 10. | 16 | MS90725-113 | Screw |
| 11. | 1 | 1284936-009 | Washer Thrust |
| 12. | 1 | 25849366-014 | Washer Thrust |
| 13. | 4 | 2584771 | Base Mounting |
| 14. | 2 | 2584772-001 | Retainer Bracket, Mounting |
| 15. | 2 | 2584772-002 | Retainer Bracket, Mounting |
| 16. | 2 | 2584869 | Plate, Bearing |
| 17. | 4 | 2585163-115 | Screw self-locking Hex Hd |
| 18. | 1 | 2586229-031 | Bearing Sleeve |
| 19. | 1 | 2586229-035 | Bearing Sleeve |
| 20. | 1 | 2588085 | Pin, Headed, Threaded |
| 21. | 1 | 2588086 | Nut, Drive |
| 22. | 1 | 2588087 | Shaft, Drive |
| 23. | 4 | 2588090 | Wheel, Dolly |
| 24. | 1 | 2588091 | Support, Transmission |
| 25. | 1 | 5428960 | Frame, Handling Stand |
| 26. | 1 | 2588095 | Collar |
| 27. | 1 | 2588100 | Knob |
| 28. | 4 | 2588141 | Bearing, Ball, Annular |
| 29. | 1 | 2590061 | Dolly, Engine |
| 30. | 1 | 2590067 | Bracket, Double Angle |
| 31. | 1 | 2590068 | Bracket, Double Angle |
| 32. | 1 | 2590069 | Support, Power pack |
| 33. | 2 | 8486926 | Caster, Swivel |
| 34. | 2 | 8486927 | Caster, Rigid |
| 35. | 1 | 9074401 | Spring, Helical, Compression |