

**STATEMENT OF WORK
FOR THE REBUILD OF
THE POWER PACK
MAINTENANCE
STAND**

NSN 4910-01-151-2874

SOW-00-834-08548B-1/1

02-JUNE-1999

STATEMENT OF WORK
POWER PACK STANDS REBUILD
NSN 4910-01-151-2874

1.0 Scope. This Statement of Work (SOW), along with Drawing #2590065-2 establishes and sets forth tasks and identifies the work efforts that shall be performed by the contractor facility in the rebuild of the Power Pack Maintenance Stand for the VT 400 HP Cummins Engine, 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 Power Pack Maintenance Stand is identified by National Stock Number 4910-01-151-2874.

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-2073-1C DoD Standard Practice for Military Packaging

MIL-STD-129 DoD Standard Practice for Military Marking

Military Standards (For Guidance Only)

MIL-STD-973 Configuration Management

2.2 Other Government Documents and Publications

TM 2350-45 DMA Standard Procedures

DTD MEARS Document Type Definition

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

POWER PACK MAINTENANCE STAND
REBUILD
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DWG. 2590065-2	Configuration/Repair List for the Power Pack Maintenance Stand
DoD 4160.21-M	Defense Utilization and Disposal Manual
DoD 4000.25-1-M	MILSTRIP Manual
NAVICPNST 4491.2A	Requisitioning of Contractor furnished Materiel from the Federal Supply System

2.3 Industry Standards

ISO 9002 or ANSI/ISO/ASQC Q 9002-1994 Quality Systems	Quality Systems-Model for Quality Assurance In Production, Installation and Service
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Copies of military specifications and standards are available from the Naval Publication and Forms Center, [ATTN: NPODS], 5801 Tabor Avenue, Philadelphia PA 19120-5009. Copies of other Government documents and publications required in connection with specific SOW requirements shall be obtained, from: Commander, Attn: (Code 876), Marine Corps Logistics Base, 814 Radford Boulevard, Albany, Georgia 31704-1128, Comm (912) 439-5818/19 or DSN 567-5818/19. Copies of Drawings required by the contractor shall be obtained from: Life Cycle Management Center, Attn: (Code 825-3), 814 Radford Blvd STE 20320, Albany, GA 31704-0320, Commercial telephone (912) 439-6410/4 or DSN 567-6410/4.

3.0 Requirements

3.1 General Tasks. In fulfilling the specified requirements, the contractor shall: render, yet not be limited to the following task:

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

b. Conduct final-on-site testing which may be witnessed by Marine Corps Logistics Bases (MCLB), Albany, Georgia (Code 834-1) representative at his/her discretion to include:

(1) Inspection of the towing bar, usually made locally, check for broken welds, bends in the metal, rust etc that would cause the towing to be non serviceable. If non serviceable the towing bar will have to be remanufactured locally.

(2) Check the casters on the mainframe, two types, P/Ns 8486926 and 8486926 stationary on the rear and swivel on the towing end. Look for broken wheels, bearings in the wheels and on

top of the swivels. Replacement of the casters will have to be purchased on the local economy if required. The part numbers are included in the parts list (Appendix A.)

(3) Check the main frame P/N 2590065-2 for damage from rust, corrosion, cracked welds, and all adjusting screws for the hook up of the engine/transmission. If repairs are necessary and cannot be fabricated in the contractor facilities, they will have to be purchased on the local economy.

(4) Check the engine dolly rails for alignment, bends, check the wheels for damage, insure that the wheels track on the rails for the proper alignment of the engine and transmission. Check the dolly for the adjusting screws the attaching hardware and all welds for cracks, and that they function as designed. Items that cannot be fabricated within the repair facility can be obtained from the local economy.

(5) Check the transmission mounting hardware, all nuts, bolts washers brackets necessary to attach the transmission to the Power Pack Maintenance Stand items that cannot be obtained through the supply system, or manufactured in the repair facilities may be obtained on the local economy.

(6) The contractor shall be responsible for all structural, electrical, and mechanical requirements associated with the rebuild of the Power Pack Maintenance Stand as specified in Drawing #2590065-2, and MIL-STD-973.

c. Provide all Power Pack maintenance Stand to meet the configuration of Naval Sea Systems Command Drawing 2590065-2.

d. All technically mandatory replacement parts shall be replaced 100%. Economically mandatory replacement parts may be reused if they meet the applicable inspection requirements in TM 2350-45, and MIL STD-973. 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 Power Pack Maintenance Stand.

3.2.1 Phase I - Rebuild. The contractor shall receive the Power Pack Maintenance Stand for rebuild. The contractor shall then disassemble the Power Pack Maintenance into components and conduct the rebuild process. The contractor shall rebuild/replace components in accordance with the requirements in Drawing 2590065-2 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 Power Pack Maintenance is defined by the specifications annotated on current revision levels of Naval Sea Systems Command Drawing 2590065-2. A Rebuild Data Plate shall be installed in accordance with TI-4700-45/6B.

3.2.2 Phase II - Inspection, Testing, Acceptance

- a. Inspection, testing, and acceptance of the Power Pack Maintenance Stand shall be conducted in accordance with Drawing 2590065-2 and ISO 9002.
- 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 MCLB Albany 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 facility.
- c. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by the MCLB Albany 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 MCLB Albany 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 preservation and packaging of items being rebuilt under the terms of this statement of work. Preservation and Packaging shall be Level "B" in accordance with MIL-STD-2073-1C, Method 10.
- b. Marking shall be in accordance with MIL-STD-129.
- c. The Marine Corps will provide the contractor with the shipping address(es) for the delivery of the rebuilt 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 Control The contractor shall apply configuration control to established configuration items. The contractor shall not implement a design or performance change to and 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 (RFD)/Request for Waiver (RFW). MIL-STD-973, paragraph 5.4.3 or 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 submission shall be prepared in accordance with the DTD. Delivery media and formats are contained in the application Contract Data Requirement List.

3.4 Government Furnished Equipment(GFE)/Government Furnished Materiel (GFM). GFE is government owned equipment authorized by contract for the use by a commercial/Government contractor. It is neither consumed during production nor incorporated into any product. GFM is materiel furnished to the contractor that will be consumed during the course of production or incorporated into product being manufacturing/remanufactured under a contract/statement of work. In the event that the Marine Corps does have GFE/GFM requirements the Management Control Activity (MCA/G316-2), Marine Corps Logistics Bases Albany, Georgia, will coordinate required GFE and will maintain a central control on Marine Corps assets in the Contractors possession. The MCA will forward a GFE Accountability agreement to the Contractors Facility for signature to establish a chain of custody and property responsibilities for Marine Corps assets.

3.5 Contractor Furnished Material. The Marine Corps has adopted the Navy's procedures regarding Contractor Furnished Material (NAVICPINST 4491.2A). In the event Contractor Furnished Material (CFM) is required for repair parts, the contractor shall requisition repair parts from the DoD Supply System. DoD 400.25-1-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 MCLB Albany representative during contract performance. Inspection may be accomplished at any work location. The MCLB Albany 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 MCLB Albany representative requires, at a minimum, two weeks notice before any acceptance testing is to be done, to allow for sufficient time for witnessing these tests. Inspection by the MCLB Albany 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 ISO 9002, or ANSI/ISO/ASQC Q 9002-1994, Quality System Model for Quality Assurance in Production, Installation, and Servicing. The contractors work shall be subject to in-process reviews and inspections for compliance with these procedures and standards by MCLB Albany 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 ISO 9002 or equivalent. The contractor that are not 9002 certified shall submit their Quality Assurance Plan for review to Code (834-1).

3.6.4 Quality System Plan (QSP) . The contractor shall prepare and submit a Quality System Plan (QSP). Contractor format is authorized for the QSP which is to be submitted concurrent with the Bid Proposal. One copy to be submitted to MCLBA (834-1).

3.6.5 Quality assurance operations performed by the contractor shall be subject to the MCLB Albany representative's verification at any reasonable hour. MCLB Albany 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 Weapon Control Unit process, this SOW, and applicable documents used herein.

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

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

<u>Item #</u>	<u>Qty Req.</u>	<u>Part/Ident #</u>	<u>Description of Item</u>
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

