Draft
Maintenance Effort Remains Consistent with the Prior Fiscal Year

STATEMENT OF WORK (SOW)

SOW-07-PMM154-07464B-2

FOR THE IROAN OF THE

GENERATOR SET, DIESEL ENGINE

DRIVEN 100 KW 60 HZ

NSN 6115-01-036-6374

TAMCN B10457B

ID# 07464B

22 DECEMBER 2003

Table Of Contents

1.0 SCOPE	1
1.1 Background	1
2.0 APPLICABLE DOCUMENTS	1
2.1 Military Standards	1
2.2 Other Government Documents and Publications	1
2.3 Industry Standards	2
3.0 REQUIREMENTS	2
3.1 General Tasks	2
3.2 Rebuild Objectives and Functions	2
3.3 Specific Task	3
3.3.1 Phase I - Pre-Induction	3
3.3.2 Phase II –IROAN	3
3.3.3 Phase III - Inspection, Testing and Acceptance	4
3.3.4 Phase IV - Packaging, Handling, Storage, and Transportation (PHS&T)	4
3.4 Configuration Control	5
3.5 Government Furnished Equipment/Government Furnished	5
3.5.1 Collateral Equipment and Generator Support Items	5
3.6 Contractor Furnished Material	5
3.7 Quality Assurance Provisions	5
3.7.1 Quality Assurance Performances	5
3.7.2 Quality Assurance Requirements	5
3.7.3 Quality Assurance Verification	6
3.8 Acceptance	6
3.8.1 Acceptance Inspection	6
3.8.2 Acceptance Testing	6
3.9 Rejection	6
4.0 Reports	6
Appendix A – Generator Set Pre-Induction Inspection Checklist	A-1

INSPECT AND REPAIR ONLY AS NECESSARY (IROAN)
STATEMENT OF WORK FOR THE
Generator Set, Diesel Engine Driven, 100KW 60HZ, Model MEP-007B
NSN: 6115-01-036-6374

1.0 SCOPE. This Statement of Work (SOW) establishes, sets forth tasks and identifies the work efforts that shall be performed by the Contractor in the IROAN of the GENERATOR SET, DIESEL ENGINE DRIVEN, 100KW 60HZ, MODEL MEP-007B, NSN 6115-01-036-6374, hereafter referred to as the GENERATOR SET. This document contains the minimum requirements to assemble, integrate, make fully operational, calibrate, install, test and inspect the GENERATOR SET 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 limitation or restriction. Includes materiel with more than six months shelf-life remaining." National Stock Number (NSN) 6115-01-036-6374 shall be known as the GENERATOR SET.

1.1 The basic configuration of the GENERATOR SET is established by Stock List SL-4-07464B. All materiel (including repair parts) shall be provided by the contractor. Installation and testing shall be performed by the contractor. All special tools and test equipment required to perform any task on the GENERATOR SETS are listed in TM-07464B-35, and shall be provided by the contractor.

1.2 Background. IROAN is defined as "That maintenance technique which determines the minimum repairs necessary to restore equipment, components or assemblies to prescribed maintenance serviceability standards by utilizing all available diagnostic equipment and test procedures in order to minimize disassembly and parts replacement."

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 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
MIL-STD-130	DoD Standard Practice for Identification Marking of U.S. Military Property
MIL-STD-2073-ID	DoD Standard Practice for Military Packaging

2.2 Other Government Documents and Publications

SL-4-07464B	Generator Set, Diesel Engine Driven, 100KW 60HZ, Model MEP-007B
ATPD 2232	Engines: Preparation for Shipment and Storage of
TM 4750-15/1	Painting and Registration Marking for Marine Corps Combat and Tactical Equipment
TM-07464B-35	Generator Set, Diesel Engine Driven, 100KW 60HZ, Model MEP-007B
DoD 4000.25-1-M	Military Standard Requisitioning and Issue Procedures (MILSTRIP)

Military Handbook (For Guidance)

MIL-HDBK-61	Configuration Management Guidance

2.3 Industry Standards

ANSI/ISO/ASQC Q9001-2000	Quality Management System – Requirements

Industry Standard (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 (215) 697-2179 or DSN 442-2179, or 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: Commander, Attn Contracts Department (Code 891), P. O. Drawer 43019, 814 Radford Blvd., Marine Corps Logistics Command, Albany, GA 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., Suite 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 render, yet shall not be limited to the following tasks:

a. Provide materials, labor, facilities, repair parts, and services necessary to troubleshoot, test, diagnose, engineer, integrate, install, repair and calibrate as required to make fully operational, the GENERATOR SET.

b. Conduct final-on-site testing for witness by the Logistics Management Specialist, Marine Corps Systems Command (MCSC) (Code PMM154).

c. The contractor shall be responsible for all structural, electrical and mechanical requirements associated with the repair and restoration of the GENERATOR SET.

3.2 Rebuild Objectives and Functions. After IROAN, the GENERATOR SET shall have as a minimum, the following characteristics:

a. Reliable as per system specifications

b. Be maintainable

c. Be Serviceable (Condition Code "A")

d. Be the latest Marine Corps Configuration

e. All Generator systems and components shall operate as design intended.

3.3 Specific Tasks. The following tasks describe the different phases for the IROAN of the GENERATOR SET.

Phase I Pre-Induction (Initial Inspection)

Phase II Rebuild

Phase III Inspection, Testing and Acceptance

Phase IV Packaging, Handling, Storage and Transportation (PHS&T)

3.3.1 Phase I Pre-Induction

a. The contractor shall inspect in detail all generators transported to the contractor for IROAN under provisions of this SOW using TM-07464B-35. The contractor shall insure that the inspection is sufficient to determine the condition of the inspected generator and the extent of work and repair parts required. The findings of this inspection shall be annotated on the Generator Pre-Induction Checklist (Appendix A) and shall be

maintained and made available upon request by the Logistics Management Specialist, MCSC (Code PMM154) and/or their representative. The Generator Set Pre-Induction Inspection Checklist may be duplicated in an electronic database and maintained in that database. If data is selected to be provided electronically to the Logistics Management Specialist, MCSC (Code PMM154) and/or their representative, the database must be agreed to by both the contractor and the Logistics Management Specialist, MCSC (Code PMM154) and/or their representative.

b. Test equipment, as identified in TM-07464B-35, shall be used to determine that assemblies and subassemblies meet prescribed reliability, performance, and work requirements. In those cases when conformance to the SOW cannot be certified through existing inspection and testing procedures and by use of diagnostic equipment, the assembly shall be removed, disassembled, inspected, tested, and repaired to the degree necessary to assure full conformance with this SOW.

c. Evidence of lubricating or hydraulic oils passing through or around a seal or gasket, is in itself, not a defect. However, consideration must be given to the fluid capacity in the item being checked/inspected. Inspection shall normally be performed during and immediately following an operational test, but not sufficient duration to allow the fluids to return to ambient temperatures. The following shall be used as a guide in determining the degree of oil loss:

1. Class I - Seepage of fluid (indicated by wetness or discoloration) not great enough to form drops.

2. Class II - Leakage of fluids great enough to form drops, but not enough to cause drops to fall from the item being checked/inspected.

3. Class III - Leakage of fluid great enough to form drops that fall from the item being checked/inspected.

NOTE

A CLASS I OR II LEAK, EXCEPT FUEL SYSTEM, IS AN ACCEPTABLE CONDITION AT ANY TIME AND DOES NOT REQUIRE CORRECTIVE ACTION.

3.3.2 Phase II – IROAN. After Generator Set Pre-Induction tests and inspections have been completed, repair of the Generator Set shall be accomplished by the contractor in accordance with this SOW and TM-07464B-35. Deficiencies noted on the Generator Set Pre-Induction Inspection Checklist, (Appendix A) during Phase I shall be repaired/replaced. Components or assemblies shall not be disassembled for replacement of mandatory parts unless that part has failed, or the component assembly wherein the part is located is disassembled for repair.

a. Cleaning and Painting. Cleaning and painting shall be accomplished in accordance with Chapter 2, Section III of TM-07464B-35.

b. Data Plates and Decals. Each IROANed Generator Set shall have an IROAN data plate affixed next to the existing generator data plate after the generator has completed the repair cycle. The data plate shall meet the requirements of MIL-STD-130 and TM 4750-15/1. The IROAN data plate shall contain the following information:

GENERATOR SERIAL NO._____REPAIRED IN ACCORDANCE WITH SOW-07-PMM154-07464B-2.
REPAIR FACILITY_____
DATE_____HOUR METER READING AT TIME OF IROAN_____

3.3.3 Phase III - Inspection, Testing and Acceptance.

a. The contractor shall conduct inspection, testing and acceptance of the Generator Set in accordance with provisions of this SOW and TM-07464B-35.

b. The contractor shall be responsible for conducting required tests and shall ensure all necessary personnel are available to complete the final acceptance. Acceptance tests shall be held at the contractor's facility. The Logistics Management Specialist, MCSC (Code PMM154) and/or their representatives shall be given a minimum of two weeks notice prior to beginning acceptance testing. The test area shall be set up with all safety considerations incorporated (test area clearly defined, limited access to unauthorized vehicles and foot traffic, etc.).

c. The contractor shall be responsible for correcting any deficiencies identified during inspection/testing. The Logistics Management Specialist, MCSC (Code PMM154) and/or their representatives may require the contractor to repeat tests or portions thereof, if the original tests fail to demonstrate compliance with this SOW.

d. Acceptance testing on all Generator Sets repaired under the provisions of this SOW shall be accomplished in accordance with TM-07464B-35.

e. The Generator Set shall be equipped with instruction plates suitably located, describing any special or important procedures to be followed in operating and servicing the equipment. Plates shall be of a material which will last and remain legible for the life of the equipment, and shall be securely affixed thereto with nonferrous screws, rivets or bolts of not less than 1/8 inch diameter.

NOTE

Reading of hour meters that require replacement during the IROAN are to be recorded as information to be included in the record jacket of that Generator Set. The generator record jacket is also to be annotated that these components were replaced during the IROAN and the reading annotated on the IROAN data plate is that of the hour meter that required replacement.

f. All major equipment or component serial numbers that are replaced during the IROAN are to be identified by the contractor for entry in the record jacket of the Generator Set. The information listed will be the Generator Set serial number, Name of equipment/component(s) replaced, serial number of deficient equipment/component(s), serial number of replacement equipment/component(s), and if the equipment component(s) is new or rebuilt.

3.3.4 Phase IV - Packaging, Handling, Storage and Transportation (PHS&T)

a. The contractor shall be responsible for preservation and packaging of item(s) being repaired 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, Appendix J., Table Ia., Specialized preservation Code "AE". Preserve Engine in accordance with ATPD-2232, Type I. Items scheduled for domestic shipment for immediate use or short-term storage shall be in accordance with the level "B" requirements.

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

c. The Marine Corps will provide the contractor with the shipping address(es) for 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 equipment to and from the Contractor.

3.4 Configuration Control. 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 it is necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request for Deviation. MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing this configuration control document.

3.5 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM). The Management Control Activity (MCA)(Code 581-1-1B) 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 identify 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 Distribution and Materiel Management Department, Management Control Activity (Code 581-1B), 814 Radford Blvd, STE 20320, Albany, GA 31704-0320 or faxing a copy to commercial telephone number (229) 639-5498 or DSN 567-5498.

3.5.1 Collateral Equipment and Generator Support Items. Known as "SL-3 Components," shall be obtained from the Commanding General, Marine Corps Logistics Command, (Code 586-2), 814 Radford Blvd, Suite 20321, Albany, Georgia 31704-0321,

commercial telephone number (229) 639-6365 or DSN 567-6365. Coordination of effort to assure Quality Assurance measures are observed during this time will be the responsibility of the contractor.

3.6 Contractor Furnished Materiel (CFM). The contractor may requisition materiel 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 requisition 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.

3.7 Quality Assurance Provisions

3.7.1 Quality Assurance Performances. The performances of the Contractor and the quality of work delivered, material provided and documents written shall be subject to in-process review and inspection by the Logistics Management Specialist, MCSC (Code PMM154) and/or their representatives during contract performance. Inspection may be accomplished at any work location. Authorized Logistics Management Specialist, MCSC (Code PMM154) and/or their representatives shall be permitted to observe the work/task accomplishment or to conduct inspections at all reasonable hours within contractor's normal working hours. Acceptance tests shall be held in-plant. Inspection by the Logistics Management Specialist, MCSC (Code PMM154) and/or their representatives of all acceptance test plans, materials and associated lists furnished hereunder does not relieve the contractor from any responsibility regarding defects or other failures to meet contract requirements which may be disclosed prior to final acceptance.

3.7.2 Quality Assurance Requirements. The Contractor shall provide and maintain a Quality System that, as a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9001-2000 Quality Management Systems - Requirements. The contractor's work shall be subject to in-process reviews and inspections for compliance with Quality Systems by Logistics Management Specialist, MCSC (Code PMM154) and/or their representatives. Noncompliance with 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, it shall be the contractor's responsibility to ensure that the entire system meets the performance requirements delineated and addressed in TM-07464B-35.

3.7.3 Quality Assurance Verification. Quality Assurance operations performed by the contractor shall be subject to the Logistics Management Specialist, MCSC (Code PMM154) and/or their representative's verification at any time. This verification can include, but shall not be limited in any manner, to the following:

a. Inspection of materials, products, assemblies, 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. Inspection of deliverable products to assure compliance with all requirements of the Generator Set, this SOW, and applicable documents used herein.

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

3.8 Acceptance

3.8.1 Acceptance Inspection. The performance of the contractor and the quality of work delivered, including all equipment furnished and documentation 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 or location, and the Logistics Management Specialist, MCSC (Code PMM154) and/or their representatives shall be permitted to observe the work or to conduct inspection at all reasonable hours within the contractor facilities normal working hours. Final Inspection and acceptance testing shall be conducted at the contractor's facility. Final acceptance shall be conducted on 100 percent of the items to verify that the generators meet all requirements.

3.8.2 Acceptance Testing. The Generator Set IROANed under the provisions of this SOW shall be accomplished in accordance with TM-07464B-35.

3.9 Rejection

Failure to comply with any of the specified requirements listed herein, shall be reason for rejection by the Logistics Management Specialist, MCSC (Code PMM154). The contractor shall, at no additional cost to MCLB, Albany, Georgia, provide the following:

a. Develop an approach for modification or correction of all deficiencies.

b. Upon approval of a documented approach, the Contractor shall correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures is demonstrated.

4.0 REPORTS.

4.1 Generator Set Pre-Induction Inspection Checklist. The contractor shall complete the Generator Set Pre-Induction Inspection Checklist (Appendix A) for each Generator Set repaired. These documents shall be available during final acceptance testing. One copy of each document shall be provided to Commanding General, (Attn: John T. Thornton) Marine Corps Logistics Command, (Code 588-1), 814 Radford Blvd., Suite 20321, Albany, Georgia 31704-0321, via Federal Express, after final acceptance of the Generator Set.

GENERATOR SET PRE-INDUCTION INSPECTION CHECKLIST

GENERATOR SET SERIAL NUMBER_____

CONDITION CODE UPON RECEIPT_____

CORROSION PREVENTION METHODS TO BE USED _____

_____

REPAIR PARTS/ASSEMBLIES REQUIRED FOR REPAIRS

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

DEFECTIVE PARTS AND ASSEMBLIES

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____