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Maintenance Concept Remains Consistent With Prior Fiscal Year

Statement of Work (SOW)
for the
Conversion
of the
Radio Frequency Amplifier (AM-6545A)
NSN 5996-01-186-3699

SOW-07-PMM122-87107C-6/1

Prepared by
Marine Corps Systems Command, Code C4IHF
Marine Corps Logistics Command, Albany, GA.

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1.0 Scope. This Statement of Work (SOW) establishes, sets forth tasks and identifies the work efforts that shall be performed by the Contractor (for purposes of this SOW, Contractor is defined as the commercial or government entity performing the work effort) in the conversion and rebuild effort of the Radio Frequency Amplifier (AM-6545A), NSN 5996-01-186-3699. This document contains requirements to convert the Radio Frequency Amplifier (AM-6545A) to the Radio Frequency Amplifier (AM-6545B).

1.1 Background. Conversion and rebuild is defined as: "The process which includes the installation of components into a Radio Frequency Amplifier (AM-6545A), so as to make its function that of a Radio Frequency Amplifier (AM-6545B). This conversion also includes the 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 a maintenance technique or complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable elements using original manufacturing tolerances and/or specifications and subsequent reassembly of the items."

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 for Military Marking
MIL-STD-2073-1D	DoD Standard Practice for Military Packaging

2.2 Other Government Documents and Publications

RS-87107B-50/3 W/CH 1	Rebuild Standards for the AM-6545B/GRC-193	PCN 170 080107 00
DOD 4000.25-1-M	Military Standard Requisitioning and Procedures Manual (MILSTRIP)	

TI-5820-25/22	Electromagnetic Environmental Effects Procedures	PCN 168 047801 00

Military Handbooks (For Guidance)

MIL-HDBK-61	Configuration Management Guidance

2.3 Industry Standards

JESD625-A	Requirements for Handling Electrostatic-Discharge Sensitive ESDS Devices
ANSI/ISO/ASQC Q9001-2000	Quality Management Systems-Requirements

Industry Standards (For Guidance Only)

ANSI/EIA-649	National Consensus Standard for Configuration Management

Copies of Military Standards and Specifications 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 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) 639-6476 or DSN 567-6476. Copies of engineering drawings, if applicable, shall be obtained from Supply Chain Management Center, Attn: Code 583-1, 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:

a. Provide materials, labor, equipment, and facilities, necessary to inspect, convert, test and calibrate the Radio Frequency Amplifier (AM-6545A). Upon completion of the conversion, the subject item shall be Condition Code "A".

b. Conduct in-process and final on-site testing for witness by a Marine Corps Systems Command (MCSC) (Code C4IHF), Albany, GA authorized representative.

3.2 Detail Tasks. The following tasks describe the different conversion phases of the Radio Frequency Amplifier (AM-6545A).

3.2.1 Phase I- Pre-Induction. A pre-induction inspection analysis shall be performed for the Radio Frequency Amplifier (AM-6545A) using the Contractor Facility's diagnosis, inspection and testing techniques to ensure that the Radio Frequency Amplifier (AM-6545A) is in Condition Code "A" before performing the conversion.

3.2.2 Phase II -Conversion. The contractor shall obtain all parts through the normal supply chain procedures. The parts required for the conversion will be obtained and installed in the Radio Frequency Amplifier (AM-6545A) to convert it to the Radio Frequency Amplifier (AM-6545B). The contractor shall replace the existing Printed Wiring Boards (PWB) with the new PWBs ensuring form, fit, and function at the completion of the conversion. The Radio Frequency Amplifier (AM-6545A) will then be tested for operational performance to see if the conversion was successful. If the conversion was unsuccessful then the PWB's will be replaced with the original PWB's and returned to stock. The contractor shall also replace the existing data plate on the item being converted Radio Frequency Amplifier (AM-6545A) to reflect the newly converted item Radio Frequency Amplifier (AM-6545B). Any Modification Intructions (MIs) or Engineering Change Proposals (ECPs) not previoulsy applied shall be incorporated.

3.2.3. Phase III - Inspection, Testing and Acceptance. Inspection, Testing and Acceptance of the Radio Frequency Amplifier (AM-6545A) shall be conducted in accordance with RS-87107B-50/3 W/CH 1, DoD 4000.25-1-M, and TI-5820-25/22.

3.2.4 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 overseas shipment shall be in accordance with the level "A" requirements of MIL-STD-2073-1D, Appendix A, Table A.VI. Electronic Equipment. Items scheduled for domestic shipment for immediate use or short-term storage shall be 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.

3.3 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.

3.4 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM). The Management Control Activity (MCA) (Code 571-1) 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 Materiel Management Department, Management Control Activity (Code 571-1), 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 Contractor Furnished Materiel (CFM). The contractor may requisition materiel as required in the performance of the 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 Electrostatic Discharge (ESD) Control Program. The contractor shall establish, implement and document an ESD control program following the guidelines provided in JESD625-A. ESD protective measures shall be used during manufacturing, handling, inspection, testing, marking, packaging, storing and transporting ESD sensitive components.

3.7 Electromagnetic Environmental Effects (E3) Procedures. The Contractor shall plan for and use proper (E3) control procedures in the modification process and shall utilize TI-5820-25/22 in conjunction with the detailed requirements specified in this document.

3.8 Quality Assurance Provisions. 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 program shall ensure quality throughout all areas to include processing, assembly, inspection, test, maintenance and preparation for delivery and shipping. Unless otherwise specified in the contract, the contractor shall be responsible for performance of all inspection requirements. The Government, MCSC (Code C4IHF), Albany, GA reserves the right to perform any of the inspections set forth in the contract where such inspections are deemed necessary to assure products and services conform to the prescribed requirements.

3.9 Acceptance. 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 MCSC (Code C4IHF), Albany, GA representative shall be permitted to observe the work or to conduct an inspection. Final inspection and acceptance testing shall be

conducted at the Contractor's Facility. Final acceptance shall be conducted on 100 percent of items to verify that the units meet all requirements.

3.10 Rejection. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCSC (Code C4IHF), Albany, GA representative. The Contractor shall, at no additional cost to MCSC (Code C4IHF), Albany, GA correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures is demonstrated.

Pre-Induction Checklist

Conversion of the Radio Frequency Amplifier (AM-6545A)

1. Using the following criteria, inspect the items listed below.

   a. Inspect for dirt, dust, sand, etc.
   b. Inspect for rust and/or corrosion damage.
   c. Inspect for any physical damage. (cuts, dents, cracks, broken pins, etc.)
   d. Ensure that all screws, washers, nuts, bolts, etc. are attached.
   e. Inspect for dry rot on all rubber and plastic components.
   f. Ensure that all covers and caps are attached.
   g. Ensure that all knobs, switches and breakers operate freely and properly.

S - Serviceable **U** - Unserviceable **M** - Missing

Remarks:

_____
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