Draft
Maintenance Concept Remains Consistent with Prior Fiscal Year

Statement of Work (SOW)
for the
Rebuild of the Circuit Card Assembly, 1A7
NSN 5998-01-202-3395

SOW-07-PMM122-8B724B-1

Prepared by
Marine Corps Systems Command, PMM122
Albany, Georgia

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APPENDIX A

Pre-Induction Checklist A-1

STATEMENT OF WORK (SOW) FOR THE
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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 rebuild) in the rebuild effort of the Circuit Card Assembly, 1A7. This document contains requirements to rebuild the Circuit Card Assembly, 1A7 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, 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 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: Military Marking for Shipment and Storage
MIL-STD-2073-1D	DoD Standard Practice for Military Packaging

2.2 Other Government Documents and Publications

TM 87107B-34/1	Theory of Operation and Maintenance Instructions for The Power Amplifier, AM-6545/GRC-193	PCN 184 087106 00
SL-4-07743A/07749A	Repair Parts for the AN/GRC-193B	PCN 124 077430 00

DoD 4000.25-1-M	Military Standard Requisitioning and Issue Procedures (MILSTRIP)	
Engineering Drawing 755017A4603 CAGE 80372	Test Procedure for the ALC Module	
TI-5820-25/22A	Electromagnetic Enviromental Effects (E3) Procedures	PCN 168 047801 00

Military Handbook (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)

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 Logistics Management Specialist: Marine Corps Systems Command (MCSC), Attn: Logistics Management Specialist (Code PMM122), 814 Radford Blvd., STE 20320, Albany, Georgia 31704-0320, commercial telephone number 229-639-6773 or DSN 567-6773. 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, equipment, facilities and missing/repair parts, necessary to inspect, diagnose, restore, test and calibrate the Circuit Card Assembly, 1A7. Upon completion of rebuild, the subject item shall be Condition Code "A".

b. Conduct in-process and final on-site testing for witness by a MCSC (Code PMM122), Albany, Georgia authorized representative.

3.2 Detailed Tasks. The following tasks describe the different phases for rebuild of the Circuit Card Assembly, 1A7.

3.2.1 Phase I - Pre-Induction. The Contractor shall perform a pre-induction inspection analysis for each Circuit Card Assembly, 1A7, using the Contractor Facility's diagnosis, inspection and testing techniques to determine extent of work and parts required. These findings shall be annotated on the Pre-Induction Checklist (Appendix A).

3.2.2 Phase II -Rebuild. After pre-induction tests and inspections have been completed, repair of the Circuit Card Assembly, 1A7, shall be accomplished by the contractor in accordance with this SOW. Deficiencies noted on the Pre-Induction Checklist (Appendix A) during Phase I shall be repaired/replaced. Components or assemblies shall not be disassembled for replacement of parts unless that part has failed, or the component assembly wherein the part is located is disassembled for repair. Any production and testing procedures will be in accordance with Engineering Drawing 755017A4603, CAGE 80372. Any Modification Instructions (MIs) or Engineering Change Proposals (ECPs) not previously applied shall be incorporated.

a. Hardware

(1) Replace broken, unserviceable and/or missing hardware including nuts, bolts, screws, washers, turn lock fasteners, mandatory replacement items, safety and one-time use items, etc., in accordance with this SOW. Unserviceable would include any of the above that failed to function properly.

(2) Ensure proper hardware locking devices are present on all moving mechanical assemblies.

(3) Hardware normally supplied with commercial parts shall be used unless specifically prohibited.

3.2.3 Phase III - Inspection, Testing and Acceptance. The Contractor shall conduct inspection, testing and acceptance of the Circuit Card Assembly, 1A7, in accordance with TM 87107B-34/1, SL-4-07743A/07749A, TI-5820-25/22A, DoD 4000.25-1-M.

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 SOW. 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 J.Ia., Specialized Preservation Code "GX" and shall be packed in a reusable fast-pack container. Items scheduled for domestic shipment for immediate use or short-term storage shall be in accordance with Level "B" requirements and shall be packed into a reusable fast-pack container.

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 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 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 and Distribution 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 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 rebuild process and shall utilize TI-5820-25/22A 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, testing, maintenance, and preparation for delivery and shipping. Unless otherwise specified in the contract, the Contractor shall be responsible for performance of all inspection requirements. MCSC (Code PMM122), Albany, Georgia representative 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 PMM122), Albany, Georgia representatives 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 PMM122), Albany, Georgia representative. The Contractor shall, at no additional cost to MCSC, Albany, Georgia, correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures is demonstrated.

Pre-Induction Checklist

Circuit Card Assembly, 1A7

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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