Statement Of Work
For
REBUILD OF POWER AMPLIFIER ASSEMBLY
P/O AN/GRC-171A(V)2
NSN 5820-01-070-9932

SOW-01-847-2-87343B-1/1

Prepared by
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STATEMENT OF WORK FOR THE POWER AMPLIFIER ASSEMBLY [P/O AN/GRC-171A(V)2] NSN 5820-01-070-9932

1.0 Scope. This Statement of Work (SOW) establishes and 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 Power Amplifier Assembly. This document contains requirements to restore the Power Amplifier Assembly 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 6 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, repairs 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 the 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-2073-1C	DoD Standard Practice for Military Packaging

Military Standards (For Reference Only)

MIL-STD-973	Configuration Management

2.2 Industry Standards

ANSI/EIA 625	Requirements for Handling Electrostatic-Discharge Sensitive ESDS Devices
ANSI/ISO/ASQC Q9003-1994	Quality Systems- Model for Quality Assurance in Final Inspection and Test

2.3 Other Government Documents and Publications. The issues of those documents cited below shall be used.

Short Title	Long Title	PCN
TM-08446A-50/2 M/S	Radio Set, AN/GRC-171A(V)2	18407981200
TM-08446A-50/2 M/S	ERRATA	18407981290
DOD 4000.25-1-M	MILSTRIP Manual	
NAVICPINST 4491.2A	Requisitioning of Contractor Furnished Material From The Federal Supply System	
TI-5820-25/22	Electromagnetic Environmental Effects (E^3) Procedures For Installation of Communication Equipment on U.S. Marine Corps Platforms	16804780100

Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Defense Automation Production Service Philadelphia, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, 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, Marine Corps Logistics Bases, (Code 891) Attn: Contracting Officer, 814 Radford Blvd., Albany, Georgia 31704-1128, commercial telephone number (912) 439- 6773 or DSN 567-6773. Copies of engineering drawings, if applicable, shall be obtained from Life Cycle Management Center, Attn: Code 825-3, 814 Radford Blvd. STE 20320, Albany, Georgia 31704-0320, commercial telephone number (912) 439-6410 or DSN 567-6410.

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, and test and calibrate the Power Amplifier Assembly. 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 Marine Corps authorized representative.

3.2 Detail Tasks. The following tasks describe the different phases for rebuild of the Power Amplifier Assembly.

3.2.1 Phase I Pre-induction. A pre-induction inspection analysis shall be performed for each Power Amplifier Assembly 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 Power Amplifier Assembly shall be accomplished 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 Modification Instructions or Engineering Change Proposals 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 the rebuild standard. 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.

a. Inspection, Testing and Acceptance of the Power Amplifier Assembly shall be conducted in accordance with this Statement of Work and TM-08446A-50/2 with CH001, CH002, CH003, CH004, CH005 and TM-08446A-50/2 M/S.

b. The Contractor shall be responsible for conducting required tests and shall ensure all necessary personnel are notified prior to completion of the final acceptance. Acceptance tests shall be held at the Contractor's facility. MCLB Code 847-2, Albany, Georgia representatives shall be given a minimum of two weeks notice prior to commencement of acceptance testing.

c. The Contractor shall be responsible for correcting any deficiencies identified during inspection/testing. MCLB (Code 847-2), Albany, Georgia representatives may require the Contractor to repeat tests or portions thereof, if the original tests fail to demonstrate compliance with this SOW.

3.2.4 Preservation, Handling, Storage and Transportation (PHS&T).

a. The Contractor shall be responsible for preservation and packaging of equipment being repaired under the terms of this statement of work. Items being prepared for long term storage or shipment to overseas destinations shall be preserved and packaged in accordance with the level "A" requirements of MIL-STD-2073-1C, Appendix A., Table A.VI., Electronic Equipment. Items being prepared for domestic shipment and immediate use shall be to level "B" requirements.

b. Marking 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 all costs associated with shipment to and from the Contactors facility.

3.3 Configuration Management.

3.3.1 Configuration Control. The contractor shall implement configuration control to established configuration items. Deviation from the established baseline configuration will not be allowed without the approval in writing from the Weapon System/Equipment Manager (Code 847-2). If necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request for Deviation/Request for Waiver using MIL-STD-973, paragraph 5.4.3 or 5.4.4, and subparagraphs and Appendix E as a guide.

3.4 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM). GFE is government owned equipment authorized by contract for use by a Commercial/Government contractor. It is neither consumed during production nor incorporated into any product. GFM is materiel furnished to a contractor that will be consumed during the course of production or incorporated into product being manufactured/remanufactured under a contract/statement of work. In the event the Marine Corps does have GFE/GFM requirements the Management Control Activity (MCA/827-2), Marine Corps Logistics Bases, Albany, Georgia, will coordinate required GFE and will maintain a central control on Marine Corps assets in the Contractor's possession. The MCA will forward a GFE Accountability agreement to the Contractor Facility for signature to establish a chain of custody and property responsibilities for Marine Corps assets.

3.5 Contractor Furnished Materiel. The Marine Corps has adopted the Navy's procedures regarding Contractor Furnished Materiel (NAVICPINST 4491.2A). In the event that Contractor Furnished Materiel is required for repair parts, the contractor shall requisition through the DOD Supply System. DOD 4000.25-1-M, (MILSTRIP) Chapter 11 authorizes contractors to requisition through the DOD Supply System.

3.6 Electrostatic Discharge (ESD) Control Program. The contractor shall establish, implement and document an ESD control program following the guidelines provided in EIA-625. ESD protective measures shall be used during manufacturing, handling, inspection, test, marking, packaging, storing and transporting ESD sensitive components.

3.7 Electromagnetic Environmental Effects (E^3) Procedures. The Contractor shall plan for and use proper (E^3) control procedures in the rebuild 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 Plan (QSP) that as a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9003-1994, Quality System Model for Quality Assurance in Final Inspection and Test. Contractor format is authorized for the QSP which is to be submitted concurrent with the Bid Proposal. One copy is to be submitted to MCLBA (Code 847-2). The Government has the option to waive the QSP requirements. If the contractor is ANSI/ISO/ASQC Q9003-1994 certified or has an acceptable plan which has been previously approved, the name of the Approving/Certifying Activity and Date of the Approval shall be submitted to the Government. In the event the Government exercised the option to waive the QSP, the previously approved QSP will apply to this contract.

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 Marine Corps 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 MCLB (Code 847-2), Albany, representative. The Contractor shall, at no additional cost to MCLB, Albany, Georgia, correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures is demonstrated.

Pre-Induction Checklist

Power Amplifier Assembly
P/O AN/GRC-171A(V)2

1. Inspect for dirt, dust, sand, etc.
2. Inspect for rust and/or corrosion damage.
3. Inspect for any physical damage to unit, cuts, dents, cracks, or broken pins.
4. Ensure that all screws, washers, nuts, bolts, etc. are attached.
5 Inspect for dry rot.

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

Power Amp Module Inventory/Serviceability check:	Condition	Remarks
1. Connector, P1, 25 pin, w/ RF insert	_____	_____
2. Connector, P2, Xmit RF Out	_____	_____
3. Chassis	_____	_____
4. Finned Heat-sinks, p/o chassis	_____	_____

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 1704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ Other XXX
D. SYSTEM/ITEM: Power Amplifier Assembly	E. CONTRACT/PR No.	F. CONTRACTOR

1. DATA ITEM No.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A001	Request for Waiver (RFW)	Configuration Management	

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-CMAN-80641B	SOW 3.3.1	MARCORLOGBASES 825	

7. DD 250 REQ.	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	AS REQ	See Blk 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A			

16. REMARKS

Block 4: Contractor format is authorized.

Blocks 10 & 12: RFWs shall be submitted to obtain authorization to deliver nonconforming material which does not meet the prescribed configuration documentation.

RFWs will be reviewed and disposition determined within 20 working days upon receipt by the government.

RFWs shall be transmitted via e-mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil

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MCLBA 825-2	0	1	0
15. TOTAL			

G. PREPARED BY:	H. DATE	I. APPROVED BY:	J. DATE
Gene Collins	JAN 26 1999	Robert A Edwards	000217

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CONTRACT DATA REQUIREMENTS LIST

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ___ TM ___ Other XXX
D. SYSTEM/ITEM: Power Amplifier Assembly	E. CONTRACT/PR No.	F. CONTRACTOR
1. DATA ITEM No.: A002	2. TITLE OF DATA ITEM: Request for Deviation (RFD)	3. SUBTITLE: Configuration Management
4. AUTHORITY *(Data Acquisition Document No.)*: DI-CMAN-80640B	5. CONTRACT REFERENCE: SOW 3.3.1	6. REQUIRING OFFICE: MARCORLOGBASES 825

7. DD 250 REQ.	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	AS REQ	See Blk 16
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18. ESTIMATED TOTAL PRICE

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G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Gene Collins	JAN 20 1999	Robert S. Schumbo	000217