# Statement of Work (SOW)
# for the
# Rebuild of the Antenna Coupler, CU-2064
# NSN 5985-01-050-4869

**SOW-04-C4I-87117B-1/1**

**Prepared by**
**Marine Corps Systems Command, PMM122**
**Albany, Georgia**

## Table of Contents


| Section/Paragraph | | Page |
|---|---|---|
| 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 | Detailed Tasks | 3 |
| 3.2.1 | Phase I - Pre-Induction | 3 |
| 3.2.2 | Phase II - Rebuild | 3 |
| 3.2.3 | Phase III - Inspection, Testing and Acceptance | 3 |
| 3.2.4 | Packaging, Handling, Storage and Transportation (PHS&T) | 3 |
| 3.3 | Configuration Control | 4 |
| 3.4 | Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM) | 4 |
| 3.5 | Contractor Furnished Materiel (CFM) | 4 |
| 3.6 | Electrostatic Discharge (ESD) Control Program | 4 |
| 3.7 | Electromagnetic Environmental Effects ($E^3$) Procedures | 4 |
| 3.8 | Quality Assurance Provisions | 4 |
| 3.9 | Acceptance | 5 |
| 3.10 | Rejection | 5 |

APPENDIX A

Pre-Induction Checklist A-1

STATEMENT OF WORK (SOW) FOR THE
Rebuild of the Antenna Coupler, CU-2064
NSN 5985-01-050-4869

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 Antenna Coupler, CU-2064. This document contains requirements to rebuild the Antenna Coupler, CU-2064, 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 87117B-34/1 | Theory of Operation and Maintenance Instructions for CU-2064 /GRC-193 Antenna Coupler | PCN 184 077491 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) | |
| 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 20343, Albany, Georgia 31704-0343, commercial telephone number 229-639- 6540 or DSN 567-6540. 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 Antenna Coupler, CU-2064. 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 Antenna Coupler, CU-2064.

3.2.1 Phase I- Pre-Induction. The Contractor shall perform a pre-induction inspection analysis for each Antenna Coupler, CU-2064 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 Antenna Coupler, CU-2064, 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 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 Antenna Coupler, CU-2064, in accordance with TM 87117B-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 the 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 A, Table A VI., Electronic Equipment. Items scheduled for domestic shipment for immediate use or short-term storage shall be in accordance with 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 (RFD). 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 Management 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

Antenna Coupler, CU-2064

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:

_____
_____
_____
_____
_____
_____
_____

# CONTRACT DATA REQUIREMENTS LIST

*(1 Data Item)*

*Form Approved*
*OMB No. 0704-0188*

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

| A. CONTRACT LINE ITEM NO. | B. EXHIBIT | C. CATEGORY: TDP ____ TM ____ OTHER X |
|---|---|---|
| D. SYSTEM/ITEM: Antenna Coupler CU-2064 | E. CONTRACT/PR NO. | F. CONTRACTOR |

| 1. DATA ITEM NO. | 2. TITLE OF DATA ITEM | 3. SUBTITLE | 17. PRICE GROUP |
|---|---|---|---|
| A001 | Request For Deviation (RFD) | Configuration Management | |

| 4. AUTHORITY (Data Acquisition Document No.) | 5. CONTRACT REFERENCE | 6. REQUIRING OFFICE | 18. ESTIMATED TOTAL PRICE |
|---|---|---|---|
| DI-CMAN-80640C | SOW Para 3.3 | MARCORLOGCOM (566-1) | |

| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION |
|---|---|---|---|
| NO | A | ASREQ | SEE BLK 16 |
| **8. APP CODE** | | **11. AS OF DATE** | **13. DATE OF SUBSEQUENT SUBMISSION** |
| N/A | | N/A | N/A |

**16. REMARKS**

Blk 4 - RFDs shall be submitted electronically and contractor format is authorized.

BLK 4 - RFD text files shall be created usinf MICROSOFT (.doc) or ADOBE (.pdf) formatted software products.

BLK 4 - RFD accompanying figures or graphics shall be created using a MICROSOFT or ADOBE format with a minimum density oof 600 dpi.

Blks 10 & 12 - RFDs shall be submitted to obtain authorization to deliver nonconforming material which does not meet prescribed configuration documentation.

RFDs will be reviewed and disposition determined within 20 working days upon receipt by the Government.

RFDs shall be transmitted via E-Mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil

Distribution Statement A: Approved for public release, distribution is unlimited.

**14. DISTRIBUTION**

| a. ADDRESSEE | b. COPIES: Draft | Final: Reg | Final: Repro |
|---|---|---|---|
| MCLCA (566-1) | 0 | 1 | 0 |
| **15. TOTAL** → | 0 | 1 | 0 |

| G. PREPARED BY | H. DATE | I. APPROVED BY | J. DATE |
|---|---|---|---|
| [signature] | 12 NOV 03 | [signature] | 17 NOV 03 |

**DD FORM 1423-1, AUG 96 (EG)** PREVIOUS EDITION MAY BE USED. Page ____ of ____ Pages

Designed using Perform Pro, WHS/DIOR, Aug 96