

**Statement of Work  
for  
Rebuild of the Receiver-Transmitter, RT-1209A/URC  
NSN 5820-01-270-5099**

**SOW-04-C4I-8E679B-1/1**

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**1.0 Scope.** This Statement of Work (SOW), along with Rebuild Standard RS-07748B-50/4, 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 Receiver-Transmitter, RT-1209A/URC (hereafter known as the Receiver-Transmitter). This document contains requirements to restore the Receiver-Transmitter 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 for Military Marking
MIL-STD-2073-1D	DoD Standard Practice for Military Packaging

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

SL-4-09214A	Repair Parts List for AN/PRC-104B(V)1	Apr 1979 PCN 124 09214 00
TM-07748B-45/2	General Support & Depot Maintenance Manual for AN/PRC-104B(V)1	Feb 1989 PCN 184 077482 00

RS-07748B-50/4	Rebuild Standards for AN/PRC-104B(V)1	Jan 1979 PCN 170 070748 00
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Engineer Drawing 755002C0055-1 CAGE 87990	Plate, Identification
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Engineer Drawing 755002C0150 CAGE 87990	Receiver-Transmitter Radio
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TI-5820-25/22	Electromagnetic Environmental Effects Procedures	PCN 168 047801 00
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DOD 4400.25-1-M	MILSTRIP Manual
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Military Handbook (For Guidance Only)

MIL-HDBK-61	Configuration Management Guidance
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2.3 Industry Standards.

JESD625-A	Requirements for Handling Electrostatic-Discharge Sensitive ESDS Devices
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ANSI/ISO/ASQC Q9003-1994	Quality Systems-Model for Quality Assurance in Final Inspection and Test
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Industry Standard (For Guidance Only)

ANSI/EIA-649	National Consensus Standard for Configuration Management
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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, 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: Contracts Department (Code 891), P.O. Drawer 43019, 814 Radford Blvd., Marine Corps Logistics Bases, Albany, Georgia 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 583-1, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6410 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 Receiver-Transmitter. 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 Systems Command (MCSC), C4IHF, Albany, Georgia authorized representative.

3.2 Detail Tasks. The following tasks describe the different phases for rebuild of the Receiver-Transmitter.

3.2.1 Phase I - Pre-Induction. A Pre-Induction inspection analysis shall be performed for each Receiver-Transmitter 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 Receiver-Transmitter shall be accomplished in accordance with this SOW and Rebuild Standard RS-07748B-50/4. 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 approved Modification Instructions (MIs) or Engineering Change Proposals (ECPs) not previously applied shall be incorporated.

a. Data plate. Each repaired Receiver-Transmitter shall have a rebuild data plate affixed in accordance with Engineering Drawing 755002C0055-1, CAGE 87990.

b. 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 RS-07748B-50/4. 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 Receiver-Transmitter shall be conducted in accordance with SL-4-09214A; TM-07748B-45/2; RS-07748B-50/4; Engineer Drawing 755002C0150 CAGE 87990; Engineer Drawing 755002C0055-1CAGE 87990 and TI-5820-25/22.
- 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, MCSC (C4IHF), 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. MCSC (C4IHF), 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 Packaging, Handling, Storage and Transportation (PHS&T).

- a. The Contractor shall be responsible for preservation and packaging of items to be 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 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 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM). The Management Control Activity (MCA/Code 573-2) will coordinate Government Furnished Equipment/Government Furnished Materiel (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 (Materiel Management Department, Management Control Activity (Code 573-2) 814 Radford Blvd, STE 20320, Albany, GA 31704-0320) or faxing (commercial 229-639-5498 or DSN 567-5498) a copy of the DD1348).

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 (RFD). MIL-IIDBK-61 and ANSI/EIA-649 provide guidance for preparing this configuration control document.

3.5 Contractor Furnished Materiel. 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-5820-25/22 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 Q9003-1994, Quality Systems-Model for Quality Assurance in Final Inspection and Test. 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. MCSC (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. The Contractor shall provide an Inspection and Test Plan that will ensure the Receiver-Transmitter will meet or exceed its original performance characteristics. ). Inspection Test Plan shall be sent to: Marine Corps Systems Command, Attn: Logistics Management Specialist (Code C4IHF), 814 Radford Blvd., Albany, Georgia 31704-1128.

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 (C4IHF), Albany, Georgia 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 (C4IHF), Albany, Georgia, 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  
RT-1209A/URC**

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

<b>RT 1209A Receiver-Transmitter Inventory/Serviceability check:</b>		<b>Condition</b>	<b>Remarks</b>
1.	MODE Switch, (V REC, V TR, D TR, D REC), S8	_____	_____
2.	ON/OFF VOLUME Switch, S9/R1	_____	_____
3.	LIGHT, S10	_____	_____
4.	SB Switch, (LSB, USB) S7	_____	_____
5.	Audio Connector, A2J1 and A2J2	_____	_____
6.	Frequency Selector Pushbutton Switch, S1-S6	_____	_____
7.	RT Connector, J1	_____	_____
8.	Handles	_____	_____
9.	Chassis	_____	_____



