

**Statement of Work  
for  
Rebuild of Radio Set, AN/PRC-104B  
5820-01-269-5603**

**SOW-01-847-2-09214A-1/1**

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STATEMENT OF WORK FOR THE  
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1.0 Scope. This Statement of Work (SOW), along with the Rebuild Standard RS-07748A-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 Radio Set. These documents contain requirements to restore the Radio Set 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 used 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 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-2073-1C	DoD Standard Practice for Military Packaging

Military Standards (For Reference Only).

MIL-STD-973	Configuration Management
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2.2 Other Government Documents and Publications. The issues of those documents cited below shall be used.

TM 07748B-12/1	Operator's Organizational	Jan 1979
TO 31R2-2-PRC104-1	Maintenance Instructions for AN/PRC-104B	PCN 184 077480 00

TM-07748B-45/2 TO31R2-2PRC104-2	Field Maintenance Instructions for AN/PRC-104B	Jan 1979 PCN 184 077482 00
SL-4-09214A TO 31R2-2-PRC-104-4	Repair Parts List for AN/PRC-104B w/Ch.1	April 1979 PCN 124 092140 00
TM-08235A-14/1 CY-7875/PRC-104 w/Ch.1	Operator and Maintenance Instructions for Battery Case PCN 184 079635 01	
TM-10-8400-203-23	General Repair Procedures For Individual Equipment	May 1990 PCN 350 087500 00
SL-4-07671B	Frame Assembly Field pack	
RS 07748A-50/4	Rebuild Standard for AN/PRC-104 w/Ch. 1	Jan 1979 PCN 170 070748 00
TM-4750-15/2	Painting and Registration Marking for Marine Corps Combat and Tactical Equipment	
TI-5820-25/22	Electromagnetic Environmental Effects Procedures for Installation of Communication Equipment on US Marine Corps Platforms	May 1999 PCN 168 047801 00
TC 10-19	Alice (All-purpose Lightweight Individual Carrying Equipment)	
Engineer Drawing	755002C0055-2 Plate, Identification	
Engineer Drawing	755002C0150 Receiver-Transmitter Assembly	
Engineer Drawing	755002C0050 AN/PRC-104B(V) Radio Set	
DOD 4000.25-1-M	MILSTRIP Manual	
NAVICPINST 4491.2A	Requisitioning of Contractor Furnished Materiel From The Federal Supply System	

### 2.3 Industry Standards.

ANSI/EIA 625	Requirements for Handling Electrostatic-Discharge Sensitive ESDS Devices
ANSI/ISO/ASQC Q9002-1995	Quality Systems-Model for Quality Assurance in Production, Installation and Servicing.

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.

### 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 Radio Set. 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 Radio Set.

3.2.1 Phase I- Pre-induction. A pre-induction inspection analysis shall be performed for each Radio Set 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) and shall be provided to the government.

3.2.2 Phase II -Rebuild. After pre-induction tests and inspections have been completed, repair of the Radio Set shall be accomplished in accordance with this SOW and Rebuild Standard RS 07748A-50/4. Deficiencies noted on the Pre-Induction Checklist 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. Incorporate all Engineering Change Proposals (ECPs) and Modification Instructions (MIs)

a. Data plate. Each repaired Radio Set shall have a rebuild data plate affixed in accordance with engineering drawing number 755002C0150. The identification plate shall meet the requirements established on engineering drawing 755002C055-2 and TM 4750-15/2.

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 Rebuild Standard RS 07748A-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 Radio Set shall be conducted in accordance with TM 07748B-12/1; TO 31R2-2-PRC-104-1; TM-07748B-45/2; TO31R2-2PRC104-2; SL-4-09214A; TO 31R2-2-PRC-104-4; TM-08235A-14; TM-10-8400-203-23; SL-4-07671B; TC 10-19 ; RS 07748A-50/4 and Engineering Drawing number 755002C0050. Insure that all current ECPs and MIs have been incorporated.

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 891), 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 891), 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 being repaired under the terms of this statement of work. Items being prepared for long term storage or shipment to overseas destinations shall be in accordance with the level A requirements of MIL-STD-2073-1C, Appendix A, Table A.VI., Electronic Equipment. Items scheduled for domestic shipment, immediate use or short-term storage shall be in accordance with 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 rebuilt 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 subject equipment to and from the Contractor.

### 3.3 Configuration Management.

3.3.1 Configuration Control. The contractor shall implement configuration control to established configuration items. The baseline configuration has been established in the Technical Data Package and applicable MIs and ECPs. 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. MIL-STD-973, paragraph 5.4.3 or 5.4.4 and Appendix E may be used 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 not incorporated into any product. GFM is materiel furnished to a contractor that will be consumed during the course of production or incorporated into the 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/Code 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 ANSI/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 (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 Q9002-1994, Quality System Model for Quality Assurance in Production, Installation, and Servicing. The program shall ensure quality throughout all areas to include fabrication, 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 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 Radio Set will meet or exceed the original performance characteristics of the Radio Set.

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 891), 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  
AN/PRC-104B**

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 to different units. (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.
  - h. Inventory for accountability.

S - Serviceable

U - Unserviceable

M - Missing

**RT 1209A Receiver/Transmitter Inventory/Serviceability Check:**

- |   |       |       |
|---|-------|-------|
| 1. Volume Off/Max Switch                        | _____ | _____ |
| 2. Mode Pushbuttons, Right and Left             | _____ | _____ |
| 3. Frequency Selector Push button Switch, S1-S6 | _____ | _____ |
| 4. Frequency Display                            | _____ | _____ |
| 5. Audio Connector                              | _____ | _____ |
| 6. Controller (CONT) Connector                  | _____ | _____ |
| 7. Receiver/Transmitter Interface Connector, P1 | _____ | _____ |
| 8. Indicators, VTRCV/DTRCV/ECCM/RMT/USB/LSB     | _____ | _____ |
| 9. Indicators, F1 and F2                        | _____ | _____ |
| 10. Handles                                     | _____ | _____ |
| 11. Chassis                                     | _____ | _____ |

**AM 6874 Amplifier Coupler Inventory/Serviceability Check:**

- |   |       |       |
|---|-------|-------|
| 1. Connector, Receiver/Transmitter to Amplifier, P1 | _____ | _____ |
| 2. Antenna Socket, Whip                             | _____ | _____ |
| 3. Antenna Selector Switch, S1                      | _____ | _____ |
| 4. Antenna Connector, BNC                           | _____ | _____ |
| 5. Terminal, Ground, E3                             | _____ | _____ |
| 6. Power Input Connector                            | _____ | _____ |
| 7. Latch Assembly, Turn Lock, Front and Rear        | _____ | _____ |
| 8. Chassis  | _____ | _____ |

**CY-7875 Battery Case #1 Inventory/Serviceability Check:**

- |   |       |       |
|---|-------|-------|
| 1. Case Assembly, Top                             | _____ | _____ |
| 2. Case Assembly, Bottom                          | _____ | _____ |
| 3. Connector Assembly, Receiver/Transmitter Power | _____ | _____ |
| 4. Connector Assembly, Charger                    | _____ | _____ |

- 5. Latch Assembly, Turn Lock, Top Case to Bottom Case \_\_\_\_\_
- 6. Latch Assembly, Turn Lock, Battery Case to Receiver/Transmitter \_\_\_\_\_
- 7. Valve, Pressure Release \_\_\_\_\_

**CY-7875 Battery Case #2 Inventory/Serviceability Check:**

- 1. Case Assembly, Top \_\_\_\_\_
- 2. Case Assembly, Bottom \_\_\_\_\_
- 3. Connector Assembly, Receiver/Transmitter Power \_\_\_\_\_
- 4. Connector Assembly, Charger \_\_\_\_\_
- 5. Latch Assembly, Turn Lock, Top Case to Bottom Case \_\_\_\_\_
- 6. Latch Assembly, Turn Lock, Battery Case to Receiver/Transmitter \_\_\_\_\_
- 7. Valve, Pressure Release \_\_\_\_\_

**Field Pack Inventory/Serviceability Check:**

- 1. Pack, Field, Camouflaged \_\_\_\_\_
- 2. Frame, Field Pack, Aluminum \_\_\_\_\_
- 3. Shelf, Cargo Support \_\_\_\_\_
- 4. Strap, Shoulder, Left \_\_\_\_\_
- 5. Strap, Shoulder, Right \_\_\_\_\_
- 6. Strap, Webbing, Waist \_\_\_\_\_

**Accessories Inventory/Serviceability Check:**

- |   | <u>Qty</u> |       |       |
|---|------------|-------|-------|
| 1. Antenna, Whip, Omni directional, AT-271B | 1          | _____ | _____ |
| 2. Antenna Element, Whip, AB-129            | 1          | _____ | _____ |
| 3. Cable Extension, Battery, CX-13023       | 1          | _____ | _____ |
| 4. Cable Assembly, 4' Power Electrical      | 1          | _____ | _____ |
| 5. Cable Assembly, Radio Frequency          | 1          | _____ | _____ |
| 6. Case, Transit, CY08291                   | 1          | _____ | _____ |
| 7. Handset, H250                            | 1          | _____ | _____ |
| 8. Key, Telegraph, KY-872                   | 1          | _____ | _____ |
| 9. Support, Antenna                         | 1          | _____ | _____ |



