Draft Maintenance Concept Remains Consistent with Prior Fiscal Year

Statement of Work (SOW)

for the

Inspect and Repair Only As Necessary (IROAN)

of the

AN/GSQ-261 Tactical Remote Sensor System (TRSS)

Intelligent Communications Controller (ICC)

NSN 5895-01-418-4723

P/N 87001B3900 CAGE 01365

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1.0 SCOPE. This Statement of Work (SOW) establishes, sets forth tasks and identifies the work effort that shall be performed by the contractor for the IROAN of the Intelligence Communications Controller (ICC), NSN 5895-01-418-4723, part number 87001B3900, CAGE 01365; hereafter referred to as the ICC. This document contains requirements to restore the ICC to Condition Code "A". Condition Code "A" is defined as "serviceable and issuable without qualification, including new, used, repaired or reconditioned material that is serviceable and issuable to all customers without limitation or restriction, including material with more than six months shelf-life remaining".

1.1 Background. IROAN, for the purpose of this SOW, is defined as "that maintenance technique which determines the minimum repairs necessary to restore equipment, including its components and assemblies to prescribed maintenance serviceability and reliability standards utilizing all necessary diagnostic equipment and applicable test procedures in order to minimize disassembly and parts replacement." IROAN of the ICC shall ensure that all serviceability criteria are met or exceeded and optimum reliability of the original design (or approved modified configuration, if applicable) is achieved.

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. Any remaining conflicts will be resolved at the discretion of the Logistics Management Specialist (PMM123 C4ISR): Commanding General, Attn: Logistics Management Specialist (PMM123 C4ISR), Marine Corps Systems Command, 814 Radford Blvd., STE 20343, Albany, Georgia 31704-0343, commercial telephone number (229) 639-6585 or DSN 567-6585.

2.1 Military Standards

MIL-STD-129	DoD Standard Practice: Military Marking for Shipment and Storage
MIL-STD-2073-1D(1)	DoD Standard Practice for Military Packaging

2.2 Other Government Documents and Publications

Engineering Drawing 87001B3900, CAGE 01365	Technical Data Package for Intelligent Communications Controller

Engineering Drawing 87001B3265, CAGE 01365	Technical Requirements Document RF Unit Chassis Assembly
Engineering Drawing 87001B3322, CAGE 01365	Technical Requirements Document RF Coupler Assembly
Engineering Drawing 87001B3359, CAGE 01365	Technical Requirements Document RF Modulator Assembly
Engineering Drawing 87001B3454, CAGE 01365	Technical Requirements Document RF Modulator Digital Assembly
Engineering Drawing 87001B3461, CAGE 01365	Technical Requirements Document RF Modulator Filter Board
Engineering Drawing 87001B3465, CAGE 01365	Technical Requirements Document RF Modulator, RF Section 2
Engineering Drawing 87001B3476, CAGE 01365	Technical Requirements Document RF Modulator RF Section 1
Engineering Drawing 87001B3924, CAGE 01365	Technical Requirements Document ICC Chassis Assembly
Engineering Drawing 87001B3925, CAGE 01365	Verification Test Doc ICC Chassis Assembly
Engineering Drawing 87001B7503, CAGE 01365	Technical Requirements Document Queue Interface Control
Engineering Drawing 87001B7603, CAGE 01365	Technical Requirements Document Power Regulator Assembly
Engineering Drawing 87001F1120, CAGE 01365	Technical Requirements Document VHF Transmitter Assembly
Engineering Drawing 87001F1121, CAGE 01365	Technical Requirements Document VHF Transmitter
Engineering Drawing 87001F1138, CAGE 01365	Technical Requirements Document Transmitter RF Board Assembly
Engineering Drawing 87001F1148, CAGE 01365	Technical Requirements Document Transmitter Synthesizer Board

Engineering Drawing 87001F1183, CAGE 01365	Technical Requirements Document 10-Watt Amplifier Assembly
Engineering Drawing 87001F1317, CAGE 01365	Technical Requirements Document CPU Printed Wiring Assembly
Engineering Drawing 87001F1361, CAGE 01365	Technical Requirements Document Decoder Printed Wiring Board Assembly
Engineering Drawing 87001F1393, CAGE 01365	Technical Program Decoder Tactical Remote Sensor System (TRSS)
Engineering Drawing 87001F1601, CAGE 01365	Technical Requirements Document VHF Receiver
Engineering Drawing 87001F1602, CAGE 01365	Technical Requirements Document VHF Receiver
Engineering Drawing 87001B1020, CAGE 01365	Technical Requirements Document for the AN/USQ-126
TM 09856-10/1	Operation Instructions, Sensor Mobile Monitor System, AN/MSC-77
TM 09856-24&P/3	Maintenance Instructions with Parts Breakdown, Sensor Mobile Monitor System, AN/MSC-77
TM 09864-14&P	Operation and Maintenance Instructions with Parts Breakdown, Test Set, Tactical Remote Sensor System, TS-4458/GSQ
DoD 4000.25-1-M	Military Standard Requisitioning and Issue Procedures (MILSTRIP)

Military Handbooks (For Guidance)

MIL-HDBK-61	Configuration Management Guidance

2.3 Industry Standards

JESD625-A	Requirements for Handling Electrostatic-Sensitive-Discharge (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 Standards and Specifications are available from 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 Contracting Officer: Contracts Department (Code 891), P. O. Drawer 43019, 814 Radford Blvd., Marine Corps Logistics Command, 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 566-1A, 814 Radford Blvd., STE 20320, Albany, Georgia 31704-0320, commercial telephone number (299) 639-6476 or DSN 567-6476.

3.0 REQUIREMENTS

3.1 General Tasks. In fulfilling the specified requirements, the Contractor shall be responsible for all materials, labor, equipment, facilities, and replacement of missing/repair parts necessary to inspect, diagnose, restore, test and calibrate the ICC. Upon completion of repair, the subject item shall be Condition Code "A".

3.2 Detail Tasks. The following tasks describe the different phases for repair of the ICC:

Phase I	Pre-Induction
Phase II	Repair
Phase III	Inspection, Testing and Acceptance
Phase IV	Packaging, Handling, Storage and Transportation (PHS&T)

3.2.1 Phase I - Pre-Induction. A pre-induction inspection analysis shall be performed for each ICC within five working days of induction into the Contractor's facility for evaluation of repair capability. Operational performance compliance shall be initially determined using the Technical Requirements Documents (TRD) for the ICC and its components. If repair is not feasible, assign Condition Code "H" (CC "H"), notify Commanding General, Attn: Code 572, 814 Radford Blvd., STE 20320, Marine Corps Logistics Command, Albany, Georgia 31704-0320 for disposition instructions, otherwise assign CC "M" and induct into the repair cycle. Equipment Inspection and Maintenance Worksheet DA-2404 (Appendix A) shall be used to report all anomalies and shall be provided to MCSC, PMM123 C4ISR, Albany, Georgia in accordance with section 4.0 of this SOW.

3.2.2 Phase II - Repair. After pre-induction tests and inspections have been completed, repair of the ICC shall be accomplished in accordance with this SOW. Deficiencies noted on the Equipment Inspection and Maintenance Worksheet DA-2404 during Phase I shall be repaired/replaced. Any Modification Instructions (MIs) or Engineering Change Proposals

(ECPs) not previously applied shall be incorporated. 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.

a. Hardware

(1) Replace broken, unserviceable and/or missing hardware including nuts, bolts, screws, washers, turnlock fasteners, mandatory replacement items, safety and one-time use items. 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.

b. Publications and Documentation. The following Standards and Publications shall be used to assist the Contractor to restore the ICC to CC "A".

Engineering Drawing 87001B3900, CAGE 01365	Technical Data Package for Intelligent Communications Controller
Engineering Drawing 87001B3265, CAGE 01365	Technical Requirements Document RF Unit Chassis Assembly
Engineering Drawing 87001B3322, CAGE 01365	Technical Requirements Document RF Coupler Assembly
Engineering Drawing 87001B3359, CAGE 01365	Technical Requirements Document RF Modulator Assembly
Engineering Drawing 87001B3454, CAGE 01365	Technical Requirements Document RF Modulator Digital Assembly
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Engineering Drawing 87001B3465, CAGE 01365	Technical Requirements Document RF Modulator, RF Section 2
Engineering Drawing 87001B3476, CAGE 01365	Technical Requirements Document RF Modulator RF Section 1
Engineering Drawing 87001B3924, CAGE 01365	Technical Requirements Document ICC Chassis Assembly

Engineering Drawing 87001B3925, CAGE 01365	Verification Test Doc ICC Chassis Assembly
Engineering Drawing 87001B7503, CAGE 01365	Technical Requirements Document Queue Interface Control
Engineering Drawing 87001B7603, CAGE 01365	Technical Requirements Document Power Regulator Assembly
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DoD 4000.25-1-M	Military Standard Requisitioning and Issue Procedure (MILSTRIP)

3.2.3 Phase III - Inspection, Testing and Acceptance

a. Inspection, Testing and Acceptance of the ICC shall be conducted in accordance with the documents and TM's listed in section 3.2.2.b.

b. The Contractor shall be responsible for conducting tests in accordance with applicable procedures and specifications.

c. The Contractor shall be responsible for correcting any deficiencies identified during inspection/testing. Marine Corps Systems Command, PMM123 C4ISR, 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 Phase IV - 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(1), Appendix A, Table A.VI., Electronic Equipment. Items scheduled for domestic shipment for immediate use or short-term storage shall be in accordance with the 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 will be responsible for arranging for the 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 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 the 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 the 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. Assets being repaired will not be considered GFE/GFM.

3.4 Contractor Furnished Materiel (CFM). The Contractor may requisition material as required in the performance of the SOW through the DoD Supply System. DoD 4000.25-1-M (MILSTRIP), Chapter 11, provided 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 material and the required completion/delivery date.

3.5 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, test, marking, packaging, storing, and transporting ESD sensitive components.

3.6 Quality Assurances 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. 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.

3.7 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 of the work. Inspection may be accomplished in-plant or at any work site or location, and Marine Corps representatives designated by MCSC, PMM123 C4ISR, Albany, Georgia shall be permitted to observe the work or to conduct an inspection.

3.8 Rejection. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCSC, PMM123 C4ISR, Albany, Georgia representative. The Contractor shall, at no additional cost to MCSC, PMM123 C4ISR, Albany, Georgia, correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures is demonstrated.

3.9 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 permanently depart from the authorized configuration baseline, the Contractor shall prepare and submit an Engineering Change Proposal (ECP). 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 these configuration control documents.

4.0 REPORTS

4.1 Equipment Inspection and Maintenance Worksheet. The Contractor shall complete the Equipment Inspection and Maintenance Worksheet DA-2404 for each ICC being repaired. The deficiencies shall appear in column "c" of this form. Column "d" must be completed in accordance with paragraph 4.2. This form should accompany the equipment during the repair process. The report shall be identified by United States Marine Corps Serial Number.

4.2 Final Inspection. The Contractor shall complete column "d" of the Equipment Inspection and Maintenance Worksheet DA-2404 for each ICC after each deficiency is repaired. The completed document shall be available prior to final acceptance testing. One copy of the document shall be provided to Commanding General, Attn: PMM123 C4ISR, 814 Radford Blvd., STE 20343, Marine Corps Systems Command, Albany, Georgia 31704-0343 after final acceptance of the ICC.

4.3 Progress Report. The Contractor shall provide a Progress Report by serial number in the Contractor's format summarizing the progress and status of the ICC. This report should be submitted 60 days after the first deficiency is noted on the Equipment Inspection and Maintenance Worksheet DA-2404. Subsequent submissions shall be within 10 days after the last business day of each month. One copy of this document is to be provided to Commanding General, Attn: PMM123 C4ISR, 814 Radford Blvd., STE 20343, Marine Corps Systems Command, Albany, Georgia 31704-0343.

For use of this form, see DA PAM 738-750 and 738-751; the proponent agency is DCSLOG

1. ORGANIZATION				2. NOMENCLATURE and MODEL		
2. REGISTRATION/SERIAL/NSN	4a. MILES	4b. HOURS	4c. ROUNDS FIRED	4d. HOT STARTS	5. DATE	6. TYPE INSPECTION

7. APPLICABLE REFERENCES

TM NUMBER	TM DATE	TM NUMBER	TM DATE

COLUMN a - Enter TM number.

COLUMN b - Enter applicable condition status Symbol.

COLUMN c - Enter deficiencies and shortcomings.

COLUMN d - Show corrective action for deficiency or shortcoming listed in Column c.

COLUMN e - Individual ascertaining completed corrective action initial in this column.

STATUS SYMBOLS

"X" - Indicates a deficiency in the equipment that places it in an inoperative status.

CIRCLED "X" - Indicated a deficiency, however, the equipment may be operated under specific limitations as directed by higher authority or as prescribed locally, until the corrective action can be accomplished.

HORIZONTAL DASH "(-)" - Indicates that a required inspection, component replacement, maintenance operation check, or test flight is due but has not been accomplished, or an overdue MWO has not been accomplished.

DIAGONAL "(/)" - Indicates a materiel defect other than a deficiency which must be corrected to increase efficiency or to make the item completely serviceable.

LAST NAME INITIAL IN BLACK, BLACK-BLUE INK, OR PENCIL - Indicates that a satisfactory condition exists.

FOR AIRCRAFT - Status symbols will be recorded in red.

ALL INSPECTIONS AND EQUIPMENT CONDITIONS RECORDED ON THIS FORM HAVE BEEN DETERMINED IN ACCORDANCE WITH DIAGNOSTIC PROCEDURES AND STANDARDS IN THE TM CITED HEREON.

8a. SIGNATURE *(Person(s) performing inspection)*	8b. TIME	9a. SIGNATURE *(Maintenance Supervisor)*	9b. TIME	10. MANHOURS REQUIRED

TM ITEM NO. a.	STATUS b.	DEFICIENCIES AND SHORTCOMINGS c.	CORRECTIVE ACTION d.	INITIAL WHEN CORRECTED e.

DA FORM 2404
1 APR 79

Procedes edition of 1 Jan 84, which will be used