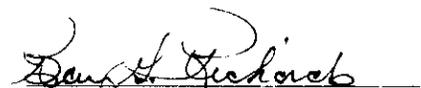


**STATEMENT OF WORK (SOW)**  
for  
**Inspection and Repair Only As Necessary (IROAN)**  
of the  
**Sensor Mobile Monitor System (SMMS) AN/MSC-77**  
**NSN 6350-01-382-1826**  
**P/N 87001B0000; CAGE 01365**

  
Barry G. Richards (Code 592)  
Equipment Specialist  
SECREP Maint Mgmt  
MCLB Albany, GA

  
Charlotte F. Fannin (Code 575-1)  
Inventory Management Specialist  
Supply Chain Management Center  
MCLB, Albany, GA

  
*for* William T. Reynolds (C4I-SRI)  
Logistics Management Specialist  
Marine Corps Systems Command  
Albany, GA

## TABLE OF CONTENTS

Paragraph	Title	<u>Page</u>
1.0	Scope	1
1.1	Background	1
2.0	Applicable Documents	1
2.1	Military Specifications	1
2.2	Military Standards	2
2.3	Other Government Documents and Publications	2
2.4	Industry Standards	2
3.0	Requirements	3
3.1	General Tasks	3
3.2	Detail Tasks	3
3.2.1	Phase I - Pre-Induction	3
3.2.1.1	HMMWV Pre-Induction	3
3.2.1.2	Air Conditioner Pre-Induction	3
3.2.1.3	Sensor Monitor System (SMS) Pre-Induction	4
3.2.2	Phase II - Repair	4
3.2.2.1	HMMWV Repair	4
3.2.2.2	Air Conditioner Repair	4
3.2.2.3	Sensor Monitor System (SMS) Repair	4
3.2.2.4	Technical Manuals	4
3.2.3	Phase III - Inspection, Testing and Acceptance	4
3.2.4	Phase IV - Packaging, Handling, Storage and Transportation (PHS & T)	5
3.3	Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM)	5
3.4	Contractor Furnished Materiel (CFM)	6
3.5	Electrostatic Discharge (ESD) Control Program	6
3.6	Quality Assurance Provisions	6
3.7	Acceptance	6
3.8	Rejection	6
3.9	Configuration Control	6
4.0	Reports	7
4.1	Pre-Induction Checklist	7
4.2	Repairable Item Inspection Report	7
4.3	Monthly Progress Report	7

STATEMENT OF WORK (SOW) for  
 Inspection and Repair Only As Necessary (IROAN)  
 of the  
 Sensor Mobile Monitor System (SMMS) AN/MSC-77  
 NSN 6350-01-382-1826  
 P/N 87001B0000; CAGE 01365

**1.0 Scope** This Statement of Work (SOW) identifies the work effort that shall be performed by the contractor for the IROAN of the Sensor Mobile Monitor System (SMMS) AN/MSC-77, NSN 6350-01-382-1826, part number 87001B0000, CAGE 01365; hereafter referred to as the SMMS. The SMMS' major components to be included in the IROAN process are the shelterized AN/USQ-126 Sensor Monitor System (SMS), its environmental control unit (heater/air conditioner), and the (model M1097) Heavy-High Mobility Multi-purpose Wheeled Vehicle (HMMWV) on which the AN/USQ-126 shelter is mounted. This document contains requirements for restoration of the SMMS to Condition Code "A". Condition Code "A" is defined as "serviceable and issuable without qualification, including new, used, repaired, and reconditioned materiel that is serviceable and issuable to all customers without limitation or restriction, including materiel with more than six months shelf-life remaining."

**1.1 Background** IROAN, for the purposes 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 SMMS (which is a low density, combat essential weapon system) 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 (C4I-SRI): Commander, Attn Logistics Management Specialist (C4I-SRI), Marine Corps Systems Command, 814 Radford Boulevard Suite 20320, Albany, Georgia 31704-0320, telephone (229) 639-6567/8, DSN 567-6567/8.

**2.1 Military Specifications**

MIL-A-8625	Anodic Coatings for Aluminum and Aluminum Alloys
MIL-C-5541	Chemical Conversion Coatings on Aluminum and Aluminum Alloys

**2.2 Military Standards**

MIL-STD-129	DoD Standard Practice for Military Marking
MIL-STD-2110 (EC)	Restoration, Overhaul, and Repair of Electronic Equipment

**2.3 Other Government Documents and Publications**

TI 4400-15/1	Packaging, Handling, Storage, and Transportation of Electrostatic Discharge Sensitive Items
TM 4750-15/1	Painting and Registration Marking of Marine Corps Combat and Tactical Equipment
TM 4750-15/2-8	Painting and Registration Marking of Marine Corps Combat and Tactical Equipment (contains patterns)
TM 09856A-10/1	Components List for the SMMS, AN/MSC-77
TM 09856A-24&P/2	Maintenance Instructions With Parts Breakdown
TM 10-5411-224-14	Operator's, Unit, Direct Support & General Maintenance for Lightweight Multipurpose Shelters Model No. S-788/G Type III
TM 2320-50/1	Inspect and Repair Only as Necessary Manual
SOW-02-835-2-08770A-2/1	IROAN SOW for HMMWV Series Trucks
SOW-02-837-1-07592F-2/1	IROAN SOW for TAMCN B0002 7B Air Conditioners
87001B1000	Technical Data Package for the AN/MSC-77
DoD 4000.25-1-M	MILSTRIP Manual

**Military Handbooks (For Guidance)**

MIL-HDBK-61	Configuration Management Guidance
-------------	-----------------------------------

**2.4 Industry Standards**

ANSI/ISO/ASQC Q9002-1994	Quality Systems – Model for Quality Assurance in Production, Installation, and Servicing
ASTM-3951-98	Standard Practice for Commercial Packaging

JESD625-A

Requirements for Handling Electrostatic-Discharge  
Sensitive (ESDS) Devices**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, 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 Boulevard, MCLB, Albany, Georgia 31704-3019, commercial telephone number (229) 639-6761 or DSN 567-6761. Copies of engineering drawings, if applicable, shall be obtained from: Commander, Attn: Supply Chain Management Center (Code 583-1), Marine Corps Logistics Bases, 814 Radford Boulevard STE 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 be responsible for all materials, labor, equipment, facilities, and replacement of missing/repair parts necessary for inspection, diagnosis, restoration, and testing the SMMS. Upon completion of the IROAN process, the subject equipment it shall be Condition Code "A".

**3.2 Detail Tasks** The following tasks describe the different phases for IROAN of the SMMS:

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** Within five working days of inducting the SMMS into the contractor's facility, the Sensor Monitor System (SMS) shelter and air conditioning unit shall be removed from the HMMWV. Each of the major SMMS's major components shall be evaluated for repair feasibility. The contractor shall complete the Pre-Induction Inspection checklists (Appendix A, B and C of TM 2320-50/1) in accordance with Paragraph 4.1.

**3.2.1.1 HMMWV Pre-Induction** The HMMWV pre-induction process shall be in accordance with SOW-02-835-2-08770A-2/1.

**3.2.1.2 Air Conditioner Pre-induction** The air conditioner pre-induction process shall be in accordance with SOW-02-837-1-07592F-2/1. Although the model F18H35B air conditioner,

NSN 4120-01-268-4451, ID# 09265A, is not specifically identified as being included in the aforementioned SOW, the IROAN procedures are identical. SOW-02-837-1-07592F-2/1 has been determined to adequately cover IROAN requirements for the B0002 7\_ series of air conditioners. Additionally, the evaporator and condenser coils shall be inspected for indications of environmental/physical damage and designated for replacement in the event that their serviceability/reliability is questionable.

**3.2.1.3 Sensor Monitor System (SMS) Pre-Induction** A pre-induction inspection analysis shall be performed on the SMS for evaluation of repair feasibility. If repair is not feasible, assign condition code H, and contact the Commander, Attn Logistics Management Specialist (C4I-SRI), Marine Corps Systems Command (MCSC), 814 Radford Boulevard Suite 20320, Albany, Georgia 31704-0320, telephone (229) 639-6567/8, DSN 567-6567/8, as soon as possible for disposition instructions. Otherwise, assign CC "M" and induct the SMS into the repair cycle.

**3.2.2 Phase II - Repair** After pre-induction tests and inspections have been completed, repair of the SMMS shall be accomplished as three separate items, the M1097 H-HMMWV, F18H35B air conditioner, and the shelterized AN/USQ-126 Sensor Monitor System (SMS). All aluminum and aluminum alloys shall be treated and protected against environmental effects and other corrosion in accordance with MIL-A-8625 and MIL-C-5541. MIL-STD-2110 (EC) applies throughout the SMS and the electronic assemblies of the H-HMMWV. The SMMS shall be camouflage painted with CARC paint, in the green pattern color scheme, in accordance with TM 4750-15/1 and TM 4750-15/2-8.

**3.2.2.1 HMMWV Repair** The vehicle shall be processed in accordance with the Phase II IROAN paragraph of SOW-02-835-2-08770A-2/1.

**3.2.2.2 Air Conditioner Repair** The air conditioner shall be processed in accordance with the Phase II IROAN paragraph of SOW-02-837-1-07592F-2/1.

**3.2.2.3 Sensor Monitor System (SMS) Repair** After pre-induction tests and inspections have been completed, IROAN the SMS in accordance with this SOW, technical manual TM 10-5411-224-14 and technical data package 87001B1000. Deficiencies noted on the Pre-Induction Checklist (contractor format) 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.

**3.2.2.4 Technical Manuals** Technical manuals TM 09856A-10/1 and TM 09856A-24&P/2 shall be used to assist the contractor throughout the IROAN of the SMMS, especially during the diagnosis, repair, and testing of the SMS. Additional technical manuals are referenced in SOW-02-835-2-08770A-2/1 and SOW-02-837-1-07592F-2/1.

### **3.2.3 Phase III - Inspection, Testing and Acceptance**

a. Inspection, Testing, and Acceptance of the HMMWV shall be conducted in accordance with SOW-02-835-2-08770A-2/1.

b. Inspection, Testing, and Acceptance of the air conditioner shall be conducted in accordance with SOW-02-837-1-07592F-2/1.

c. Inspection, Testing, and Acceptance of the shelterized Sensor Monitor System shall be in accordance with TM 09856A-24&P/2.

d. The Sensor Monitor System along with its air conditioner shall be remounted to the HMMWV in accordance with TM 09856A-24&P/2.

e. Inspection, Testing, and Acceptance of the SMMS shall be in accordance with TM 09856A-24&P/2, TM 10-5411-224-14, SOW-02-835-2-08770A-2/1, SOW-02-837-1-07592F-2/1, and 87001B1000.

f. The contractor shall be responsible for correcting any deficiencies identified during inspection/testing. The Logistics Management Specialist (C4I-SRI) 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 items being repaired under the terms of this SOW. All SMMS equipment repaired under this SOW is for immediate use upon receipt by the using units. No long-term storage requirements exist. PHS&T shall be in the best commercial practices of ATSM-3951-98. Equipment scheduled for overseas delivery shall be in accordance with ATSM-3951-98, Paragraph 6.1, Export Requirements, for air shipment, ensuring all precautions are exercised to prevent damage.

b. Marking of all items for shipment 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 shipment to the pre-designated site. 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 Marine Corps assets in the contractor's possession. The MCA will forward a GFE/GFM 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 Boulevard STE 20320, Albany, Georgia 31704-0320} or faxing (commercial 229-639-5498 or DSN 567-5498) a copy of the DD1348. The MCA, in conjunction with the Program Management Office (C4I-SRI), reserve the right to deny any requests for GFE/GFM.

Under no circumstances shall denial of such requests form a basis for either work stoppages or delays in delivery.

**3.4 Contractor Furnished Materiel** The contractor may requisition materiel as required in the performance of this 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 material, and the required completion/delivery date of the SMMS.

**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 and as required by TI 4400-15/1. ESD protective measures shall be used during all phases of the IROAN to include; manufacturing, handling, inspection, repair, testing, marking, packaging, storing, and transporting ESD components and assemblies.

**3.6 Quality Assurance Provisions** The contractor shall provide and maintain a Quality System that, at a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9002-1994, Quality Systems - Model for Quality Assurance in Production, Installation, and Servicing. The program shall ensure quality throughout all areas to include fabrication, processing, assembly, inspection, repair, 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 Logistics Management Specialist (C4I-SRI) reserves the right to perform/witness any of the inspections 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 reviews and inspection during performance of this SOW. Inspection may be accomplished in-plant or at any of the contractor's work sites/locations. The Logistics Management Specialist (C4I-SRI) and his designated representatives shall be permitted to observe the performance of work/conduct inspections during normal work hours.

**3.8 Rejection** Failure to comply with any of the specified requirements listed herein shall be reason for rejection by the Logistics Management Specialist (C4I-SRI). The contractor shall, at no additional cost to the MCSC, correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures is demonstrated.

**3.9 Configuration Control** The baseline configuration for the SMMS weapon system has been established in the aforementioned Technical Manuals and the Technical Drawing Package, 87001B1000. Deviation from the established baseline configuration shall not be allowed without the written approval of the Logistics Management Specialist (C4I-SRI). All proposed permanent changes to the fit, form or function of the baseline, shall require approval of an Engineering Change Proposal. If necessary to temporarily depart from the established configuration, the contractor shall prepare and submit a Request for Deviation (RFD). MIL-HDBK-61 and ANSI/EIA-649 may be used for guidance.

**4.0 Reports** All reports required/referenced in this SOW and those required/referenced in SOW-02-835-2-08770A-2/1 and SOW-02-837-1-07592F-2/1 shall be delivered (electronically) to the Commander, Attn Logistics Management Specialist (C4I-SRI), Marine Corps Systems Command, 814 Radford Boulevard Suite 20320, Albany, Georgia 31704-0320, telephone (229) 639-6567/8, DSN 567-6567/8.

**4.1 Pre-Induction Checklist** The contractor shall complete the Pre-Induction Inspection checklists on the HMMWV, air conditioners and SMS shelter, for each SMMS repaired. Within ten calendar days of completion of the pre-induction inspections, these documents shall be delivered via electronic medium in Microsoft Word to the Commander, Attn Logistics Management Specialist (C4I-SRI), Marine Corps Systems Command, 814 Radford Boulevard Suite 20320, Albany, Georgia 31704-0320, telephone (229) 639-6567/8, DSN 567-6567/8.

**4.2 Repairable Item Inspection Report** The contractor shall provide a Repairable Item Inspection Report for each SMMS undergoing IROAN to the Commander, Attn Logistics Management Specialist (C4I-SRI), Marine Corps Systems Command, 814 Radford Boulevard Suite 20320, Albany, Georgia 31704-0320, telephone (229) 639-6567/8, DSN 567-6567/8. The report shall be in contractor format and shall identify the United States Marine Corps SMMS Serial Number.

**4.3 Monthly Progress Reports** The contractor shall provide Monthly Progress Reports summarizing the progress and status of the SMMS IROAN Program to the Commander, Attn Logistics Management Specialist (C4I-SRI), Marine Corps Systems Command, 814 Radford Boulevard Suite 20320, Albany, Georgia 31704-0320, telephone (229) 639-6567/8, DSN 567-6567/8. Additionally, the report shall identify any problem/risk areas that may be cause for delay in completion of the SMMS IROAN.





# CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved  
OMB No. 1704-0188

The Public reporting burden for this collection of information is authorized 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 this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government issuing Contract Officer for the contract/PR No. listed in block E.

A. CONTRACT LINE ITEM NO. B. EXHIBIT C. CATEGORY:  
TDP TM Other XXX

D. SYSTEM/ITEM: Sensor Mobile Monitor System (SMMS)  
E. CONTRACT/PR No. F. CONTRACTOR

1. DATA ITEM No: C001  
2. TITLE OF DATA ITEM: Engineering Change Proposal (ECP)  
3. SUBTITLE: Configuration Management

4. AUTHORITY (Data Acquisition Document No.): DI-CMAN-80639C  
5. CONTRACT REFERENCE: Paragraph 3.9  
6. REQUIRING OFFICE: MARCORLOGBASES 583

7. DD FORM REQ LT: ASREQ  
8. APP CODE: A  
9. DIST STATEMENT REQUIRED: A  
10. FREQUENCY: ASREQ  
11. AS OF DATE:  
12. DATE OF FIRST SUBMISSION: See Blk 16  
13. DATE OF SUBSEQUENT SUBMISSION:  
14. DISTRIBUTION: MCLBA 583-1

15. COPIES: Draft 0, Final Reg 1, Rejvo 0

16. REMARKS:  
Block 4 - Contractor format is authorized.  
Blocks 10 & 12 - ECPs shall be submitted for all proposed changes, which permanently affect the baseline of a configuration item.  
ECPs will be reviewed and disposition determined within 30 calendar days upon receipt by the government.  
ECP shall be transmitted via e-mail to the following address:  
[mbmatcomconfigmngmnt@matcom.usmc.mil](mailto:mbmatcomconfigmngmnt@matcom.usmc.mil)  
Distribution Statement A: Approved for public release, distribution is unlimited.

17. PRICE GROUP  
18. ESTIMATED TOTAL PRICE

G. PREPARED BY: [Signature] H. DATE: 9/27/01 I. APPROVED BY: [Signature] J. DATE: 9/27/01

# CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved  
OMB No. 1704-0188

The Public reporting burden for this collection of information is authorized 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 this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government issuing Contract Officer for the contract/PR No. listed in block E.

A. CONTRACT LINE ITEM NO. B. EXHIBIT C. CATEGORY:  
TDP \_\_\_\_\_ TM \_\_\_\_\_ Other XXX

D. SYSTEM/ITEM: Sensor Mobile Monitor System (SMMS)  
E. CONTRACT/PR No. \_\_\_\_\_ F. CONTRACTOR \_\_\_\_\_

1. DATA ITEM No: C002  
2. TITLE OF DATA ITEM: Request for Deviation (RFD)  
3. SUBTITLE: Configuration Management

4. AUTHORITY (Data Acquisition Document No.): DI-CMAN-80640C  
5. CONTRACT REFERENCE: Paragraph 3.9  
6. REQUIRING OFFICE: MARCORLOGBASES (583)

7. DD 250 REQ: LT  
9. DIST STATEMENT REQUIRED: A  
10. FREQUENCY: AS REQ  
12. DATE OF FIRST SUBMISSION: See Blk 16  
14. DISTRIBUTION:  
a. ADDRESS: MCLBA (583-1)  
b. COPIES: Draft 0, FINAL Reg 1, Repr 0

16. REMARKS

Blk 4: Contractor format is authorized and shall be submitted in .doc and .pdf format.

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

RFDs will be reviewed and disposition determined within 30 calendar days upon receipt by the government.

RFDs shall be transmitted via e-mail to the following address:  
[mbmatcomconfigmgmnt@matcom.usmc.mil](mailto:mbmatcomconfigmgmnt@matcom.usmc.mil)

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

15. TOTAL: 0 Draft, 1 FINAL Reg, 0 Repr

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

G. PREPARED BY: *[Signature]*  
H. DATE: 9/27/01  
I. APPROVED BY: *[Signature]*  
J. DATE: 9/27/01