Draft Maintenance Concept Remains Consistent With Prior Fiscal Year

STATEMENT OF WORK (SOW)

FOR THE

INSPECT AND REPAIR ONLY AS NECESSARY (IROAN)

OF THE

LIGHT ARMORED VEHICLE (LAV) MOBILE ELECTRONIC WARFARE SUPPORT SYSTEM (MEWSS) AIR CONDITIONER

NSN 4120-01-267-7768

Prepared by

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COMMAND, CONTROL, COMMUNICATION, COMPUTERS, INTELLIGENCE, SURVEILLANCE AND RECONNAISSANCE
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Statement of Work (SOW) for the IROAN of the Light Armored Vehicle (LAV)
Mobile Electronic Warfare Support System (MEWSS)
Air Conditioner
NSN: 4120-01-267-7768

1.0 SCOPE. This Statement of Work (SOW) establishes, sets forth tasks and identifies the work efforts that shall be performed by the Contractor as minimum requirements to assemble, integrate, make fully operational, adjust, install, test, and inspect the Light Armored Vehicle, Mobile Electronic Warfare Support System (LAV-MEWSS) Air Conditioner. Hereafter referred to as Air Conditioner. This SOW sets forth guidelines by which the Air Conditioner shall be refurbished, repaired, and restored to Condition Code "A". Condition Code "A" is defined as "serviceable/issuable without qualification, new, used, repaired or reconditioned material which 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 is defined as "That maintenance technique which determines the extent of work and parts required to restore equipment, components, or assemblies to prescribed maintenance serviceability standards by utilizing all available diagnostic equipment and test procedures in order to minimize disassembly and parts replacement".

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 content 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(1)	DoD Standard Practice for Military Packaging

2.2 Other Government Documents and Publications

TM 4795-12/1	Organizational Corrosion Prevention and Control Procedures for USMC Equipment, PCN 184 479500 00
TM 3080-50	Corrosion Control Procedures Depot Maintenance Activities for Marine Corps Equipment
TM 4795-34/2	Corrosion Prevention and Control, Rustproofing and Underbody Coating Procedures for Tactical Vehicles, and Engineering Equipment, PCN 184 479501 00

DoD 4000.25-1-M	Military Standard Requisitioning and Issue Procedures (MILSTRIP)
NAVCOMP Volume 5	Navy Comptroller Manual, Volume 5
Operation and Maintenance Manual	Model SAC-H-3.5-S1-1 Air Conditioner DryOMatic, 7050 English Muffin Way Frederick, MD 21701 (301) 668-8200
Engineering Drawing 10551476 CAGE 56161	Electric Air Conditioner
TI 5820-25/22A	Electromagnetic Environmental Effects Procedures for Installation of Communications Equipment on United States Marine Corps Platforms, PCN 168 047801 00

Military Handbooks (For Guidance)

MIL-HDBK-61	Configuration Management Guidance

2.3 Industry Standards

ANSI/ISO/ASQC Q9001-2000	Quality Management Systems - Requirements
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 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, commercial telephone number (215) 697-2179 or DSN 442-2179, or on the Internet at http://www.dodssp.daps.mil. Copies of publications and other Government documents required by the Contractor in connection with specific SOW requirements shall be obtained through the Contracting Officer: Commander, Attn: 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 (229) 639-6476, or DSN 567-6476. Access to the Joint Engineering Data Management Information Control System (JEDMICS) may be obtained by contacting 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 provide materials, labor, equipment, facilities and missing/repair parts, necessary to inspect, diagnose, restore, and test and calibrate the Air Conditioner. Upon completion of IROAN the Air Conditioner shall be Condition Code "A".

3.2 Inspect Repair Only As Necessary (IROAN) Objectives and Functions. After IROAN, the Air Conditioner shall have, as a minimum, the following characteristics:

- Latest Configuration as identified by current contract
- Maintainable
- Serviceable Condition Code "A"

3.3 Specific Tasks. The following tasks describe the different Phases of the IROAN for the Air Conditioner:

- Phase I Limited Technical Inspection
- Phase II IROAN
- Phase III Inspection, Testing, and Acceptance
- Phase IV Packaging, Handling, Storage and Transportation (PHS&T)

3.3.1 Phase I – Limited Technical Inspection (LTI). A Pre-Induction inspection analysis of the air conditioner using the Contractor diagnosis, inspection, and testing techniques and Original Equipment Manufacturer Model SAC-H-3.5-S1-1 Air Conditioner Manual and Engineering Drawing 10551476, CAGE 56161 to determine the extent of work and parts required. The LTI can be in the Contractor's format to best facilitate their work effort. The resultant LTI documentation shall be maintained and made available upon request by Marine Corps System Command (MCSC) (Code C4ISR), Albany, Georgia representative. If the data is to be provided electronically, the MCSC (Code C4ISR), Albany, Georgia representative and the Contractor must agree to the format.

3.3.2 Phase II - IROAN

3.3.2.1 Information recorded on the IROAN LTI Sheets during Phase I shall be used as a guide to repair the Air Conditioner in accordance with this SOW.

3.3.2.2 All testing, inspecting, removal, disassembly, maintenance, repairs, installation, and final checks performed will comply with Original Equipment Manufacturer Model SAC-H-3.5-S1-1 Operation and Maintenance Manual.

3.3.3 Phase III - Inspection, Testing, and Acceptance

3.3.3.1 Inspection. Inspection of the Air Conditioner shall be conducted in accordance with Original Equipment Manufacturer Model SAC-H-3.5-S1-1 Operation and Maintenance Manual.

3.3.3.2 Testing. The Contractor shall be responsible for conducting all required tests.

3.3.3.3 Acceptance. The performance of the Contractor, the quality of work delivered, including all equipment furnished and documentation material written or compiled, shall be subject to in-process review/inspection during performance. Inspection shall be accomplished in-plant and/or at any work site or location. The MCSC (Code C4ISR), Albany, Georgia and/or their representatives shall be permitted to observe the work and/or conduct inspections during normal working hours. The above referenced personnel shall be at the Contractor facility without adverse impact upon current production.

3.3.3.4 Final Inspection and Acceptance. MCSC (Code C4ISR), Albany, Georgia representative shall be given 48 hours notice prior to final inspection. The final inspection shall take place during normal working hours. If representatives are not available, the final inspection shall not occur until such time a representative is available. The test area shall be set up with all safety considerations incorporated (test area clearly defined, limited access to unauthorized vehicles, foot traffic, etc.). Upon completion of the final inspection, the Contractor shall provide a copy of Final Inspection Check Sheets for each Air Conditioner to MCSC (Code C4ISR), Albany, Georgia and/or their representative. Copies of these sheets shall also accompany the Air Conditioner to the using unit.

3.3.3.4.1 Correction of Deficiencies. Failure to comply with any of the specified requirements listed within this SOW shall be reason for rejection by the MCSC (Code C4ISR), Albany, Georgia and/or their representatives. Correction of deficiencies shall be in accordance with NAVCOMP Volume 5, paragraph 054014, Guarantee Policy. The depot/contractor shall be responsible to correct all deficiencies discovered, at no additional cost to the Marine Corps, and enforce compliance with quality assurance procedures. Upon approval of a documented approach, the Contractor shall correct the deficiencies and repeat the verification until an acceptable compliance with test requirements is demonstrated.

3.3.5 Electrostatic Discharge (ESD) Control Program. The Contractor shall establish, implement and document an ESD control program in accordance with JESD625-A to minimize the negative effects of electrostatic discharge on electronic parts, assemblies, and equipment on the MEWSS. ESD protective measures shall be used during manufacturing, handling, inspection, testing, marking, packaging, storing and transporting ESD sensitive components.

3.3.6 Electromagnetic Environmental Effects (E3) Procedures. The Contractor shall plan for and use proper (E3) control procedures in the IROAN process and shall utilize TI 5820-25/22A in conjunction with the detailed requirements specified in the document.

3.3.7 Technical Data. The Contractor shall review the SL-1-2 quarterly for the current listing of all TI's, MI's and Technical Publications. All MI's and TI's not applied shall be applied during IROAN.

3.4 Stages of Corrosion. Stages of corrosion One through Four are defined in TM 4795-34/2. Any component or structural member with Stages One or Two corrosion may be re-used (unless otherwise designated for replacement as a part of this program), and shall be cleaned, the surface

prepared, and painted in accordance with the guidelines set forth in this SOW. Any component or structural member with Stage Three corrosion shall be repaired or replaced as deemed most economical for that part. Repairs shall be accomplished prior to surface preparation and painting. Any component or structural member with Stage Four corrosion shall be replaced. Replaced components or structural members which had Stage Four corrosion shall be cleaned, the surface prepared, and painted in accordance with the guidelines set forth in this SOW.

3.4.1 Corrosion Prevention and Control (CPAC) Procedures. The Contractor shall apply/install CPAC materials to components prior to or upon final assembly, in accordance with TM 4795-12/1.

3.4.2 The Contractor shall be responsible for all structural, electrical, mechanical, surface preparation and painting requirements associated with the repair and restoration of the LAV-MEWSS Air Conditioner, as specified in this SOW. All corrosion shall be removed and treated in accordance with TM 4795-12/1 and TM 3080-50.

3.5 Configuration Management

3.5.1 Configuration Identification. The Contractor shall ensure that when an assembly or component has been disassembled for repair, all parts identified as mandatory replacement parts by the applicable technical manuals shall be replaced. The Maintenance Expenditure Limit (MEL) of 65% shall not be exceeded for the repair of assemblies and components unless specifically authorized by MCSC (Code C4ISR), Albany, Georgia and/or their authorized representatives. All required data plates shall be in place and shall be legible.

3.5.2 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 baseline, the Contractor shall prepare and submit a Request For Deviation (RFD). MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing this change control document.

3.6 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 Material 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.

3.6.1 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 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.

3.7 Phase IV - Packaging, Handling, Storage and Transportation (PHS&T)

3.7.1 The Fleet Support Division (FSD) shall be responsible for preservation and packaging for item(s) being repaired under the terms of this SOW, following repair by the Maintenance Center. Items scheduled for long-term storage or shipment to overseas destinations shall be in accordance with Level "A" requirements of MIL-STD-2073-1D(1), Method 50. Items scheduled for domestic shipment for immediate use or short-term storage shall be to Level "B" requirements.

3.7.2 Marking for shipment and storage shall be in accordance with MIL-STD-129.

3.7.3 The MCSC (Code C4ISR), Albany, Georgia and/or their representatives 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 FSD.

3.8 Quality Assurance Provisions

3.8.1 The Contractor shall establish, implement, document and maintain a quality system that ensures compliance to all contractual requirements. The Contractor shall implement 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, test maintenance, and preparation for delivery and shipping. Unless specified in the contract, the Contractor shall be responsible for performance of all inspection requirements. The Government, MCSC (Code C4ISR), Albany, Georgia 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.

3.8.2 The Contractor's IROAN process shall be subject to in process and final inspections and audits to assess and verify compliance. Inspections and audits shall be conducted by MCSC (Code C4ISR), Albany, Georgia and/or their representative. All work locations or inspection stations shall be subject to in process and final inspections. MCSC (Code C4ISR), Albany, Georgia and/or their representatives shall be permitted to observe the work/task accomplishment, and/or conduct unannounced inspections and testing within normal Contractor working hours. Acceptance Tests shall be held in-plant. Inspections by MCSC (Code C4ISR), Albany, Georgia and/or their representatives of acceptance test plans and procedures, materials, and associated lists furnished hereunder does not relieve the Contractor from any responsibility regarding defects or other failures to meet contract requirements.

3.9 Rejection. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCSC (Code C4ISR), Albany, Georgia representative(s). The Contractor shall, at no additional cost to the Marine Corps, provide an approach for correction of all deficiencies.