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FISCAL YEAR 2004

STATEMENT OF WORK

FOR

INSPECT, REPAIR ONLY AS NECESSARY  
(IROAN)

OF THE

LIGHT ARMORED VEHICLE (MEWSS)

NSN 5865-01-236-4235

ID# 09999A

SOW-04-PM-LAV-09999A-2/1

Prepared by

PROGRAM MANAGERS OFFICE  
LIGHT ARMORED VEHICLE  
(CODE PM-LAV)

SUSTAINMENT MANAGEMENT TEAM - ALBANY

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**Statement Of Work  
For the IROAN of the  
Light Armored Vehicle (LAV-MEWSS)  
NSN 5865-01-236-4235**

**1.0 SCOPE.** This Statement of Work (SOW), along with the Inspect, Repair Only As Necessary (IROAN) Standard Depot Maintenance Manual (DMM) 2350-50/2C 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 (MEWSS). This SOW sets forth guidelines by which the LAV-MEWSS shall be refurbished, repaired, and restored to Condition Code "A," utilizing procedures contained in DMM 2350-50/2C, to include Modification Instructions (MIs), Technical Instructions (TIs) and Engineering Change Proposals (ECPs).

**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." Packaging, handling, storage, and transportation (PHS&T) is funded separately from the LAV IROAN line by Fleet Support Division (FSD).

**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 Specification**

MIL-C-53039	Coating, Aliphatic Polyurethane, Single Component, Chemical Agent Resistant Coating
MIL-C-46168	Coating, Aliphatic Polyurethane Chemical Agent Resistant Coating
MIL-C-64159	Water Reducible Chemical Agent Resistant Coating
MIL-PRF-22750	Coating, Epoxy, High Solids

**2.2 Military Standards**

MIL-STD-129	DOD Standard Practice For Military Marking
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2.3 Other Government Documents and Publications

ATPD 2241	Vehicles Wheeled: Preparation for Shipment and Storage
TM 08594A-25/1	LAV Repair Welding Procedure
TM 08594A-34/9A	Intermediate Maintenance LAV-25
TM 4750-15/1	Painting and Registration Marking for Marine Corps Combat and Tactical Equipment
TM 4750-15/2-1	Camouflage Patterns
TM 8A192C-34&P/A	Direct and General Support Maintenance, Engine Diesel
DMM 2350-50/2C	IROAN Manual for LAVs
TM 4795-12/1	Corrosion Prevention and Control for Marine Corps Equipment
TM 4795-34/2	Rustproofing and Underbody Coating Procedures For Tactical Vehicles, Trailers, and Engineering Equipment
TB 9-2300-245-50	Chassis Dynamometer Procedures and Test Standards Under Simulated Load Conditions
TB 9-2300-388-50	Acceptance Testing of Reconditioned Combat and Tactical Vehicles
DOD 4000.25-1-M	MILSTRIP Manual
NAVCOMP Volume 5	Navy Comptroller Manual, Volume 5
8750193	Equipment Preservation Data Sheet (EPDS), LAV-MEWSS

Military Handbooks (For Guidance)

MIL-HDBK-61	Configuration Management Guidance
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2.4 Industry Standards

ANSI/ISO/ASQC Q9002-1994	Quality Systems - Model For Quality Assurance In
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**Production, Installation, and Servicing**

SSPC-SP-10/NACE No.2

**Joint Surface Preparation Standard Near White Blast Cleaning**

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 <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 from: Commander, Marine Corps Logistics Bases, Attn: Publication Unit (Code 5863B), Albany, Georgia 31704-5000, commercial telephone number (229) 639-6258 or DSN 567-6258. Copies of Equipment Preservation Data Sheets (EPDS) may be obtained from Commander, Attn: Business Management Support Branch (Code 581), 814 Radford Blvd., Suite 20320, Albany, Georgia 31704-5000, telephone (229) 639-6786 or DSN 567-6786. Copies of engineering drawings/documents, Engineering Change Proposals (ECPs), and Requests for Deviation (RFDs) may be obtained by accessing the Joint Engineering Data Management Information Control Systems (JEDMICS). Authorization to access JEDMICS may be obtained by contacting Commander, Attn: Information Data Warehouse Branch (Code 583-1), 814 Radford Blvd., Suite 20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6410, or DSN 567-6410. Access to engineering drawings/documents, ECP's, and RFDs for read purposes only, may be obtained by accessing the Configuration Management Information System (CMIS). Authorization to access CMIS may be obtained by contacting Commander, Attn: Logistics Data Systems (G647-1), 814 Radford Blvd., Suite 20323, Albany, Georgia 31704-0323, commercial telephone number (229) 639-6143, or DSN 567-6143. Copies of SSPC-SP-10 can be obtained from: SSPC-The Society for Protective Coatings, 40 24<sup>th</sup> Street, 6<sup>th</sup> Floor, Pittsburgh, PA 15222-4643.

**3.0 REQUIREMENTS**

3.1 **General Tasks**. In fulfilling the specified requirements, the contractor shall render the following tasks in support of the Master Work Schedule (Appendix A).

3.1.1 **Program Management**. The contractor shall establish and maintain management operations that shall include the following areas:

- (a) Program Planning and Control
- (b) Subcontractor Control
- (c) Financial Management

- (d) Data Management
- (e) Management Accountability for Government Furnished Equipment, Materiel, or Information
- (f) Risk Management

The contractor shall establish and implement a Program Management Office function to manage all technical performance, including reliability, maintainability, ILS (for locally procured items or Engineering Change Proposals), cost, schedule, and data delivery requirements of the contract.

3.1.1.1 Earned Value Management. Earned Value Management (EVM) is a tool that allows both government and the contractor program managers to have visibility into technical, cost, and schedule progress on their contracts. EVM shall be used on the LAV-MEWSS IROAN program to ensure that program cost, schedule, and performance objectives are integrated, tracked, and reported.

3.1.1.1.1 Work Breakdown Structure (WBS). The contractor shall develop a task matrix keyed to the WBS (Appendix B) in sufficient detail to identify contractor and subcontractor responsibilities.

3.1.1.1.2 Integrated Baseline Review. An Integrated Baseline Review (IBR) shall be conducted to seek mutual understanding of and agreement to contractor planning for LAV Family of Vehicles IROAN. The IBR shall be held at the contractor's sight no later than 180 days after contract. Fourteen days prior to IBR, the contractor shall provide Program Manager (PM)-LAV with its System Description, WBS, WBS Dictionary, Responsibility Assignment Matrix, sample master, and detail schedules, as well as sample Work Authorization Documents and their flows. The IBR shall be chaired by PM-LAV, and shall address the following issues as a minimum:

- Verify technical content of Performance Measurement Baseline (PMB) and accuracy of related resource (budgets) and schedules.
- Ensure that there is a logical sequence of effort planned consistent with the IROAN schedule.
- Conduct a technical assessment of the earned value methods that will be used to measure progress to assure that objective and meaningful performance data will be provided.
- Establish a joint understanding of the contractors EVMS, to serve as the basis for future reviews of EVM planning, status, and estimates at completion to ensure that baseline integrity is maintained throughout the life of the contract.
- Tailoring of reporting to the minimum level required for effective management and oversight.

3.1.2 Production Management. Production Management shall provide materials, labor, facilities, and services necessary to troubleshoot, test, diagnose, engineer, integrate, install, repair, and adjust as required to make fully functional the LAV-MEWSS.

3.1.2.1 MI/ECP kits will be provided by the Marine Corps Systems Command (MCSC), (Code PM-LAV), Albany, Georgia and/or their representatives. In the event that the kits are unavailable, it shall be the responsibility of the contractor to contact MCSC, (Code PM-LAV),

Albany, Georgia and/or their representatives for further instructions. The contractor shall perform installation and testing. All special tools and test equipment required to perform any task referenced in this SOW are identified in the applicable technical publications.

**3.1.2.2 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. Repaired or replaced components or structural members which had Stage Three corrosion 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 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.

**3.1.2.2.1** The contractor shall be responsible for all structural, electrical, optics, fire control, mechanical, surface preparation and painting requirements associated with the repair and restoration of the LAV-MEWSS, as specified in this SOW. All corrosion shall be removed and treated in accordance with TM 4795-12/1.

**3.1.3 Configuration Management**

**3.1.3.1 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 contractor shall ensure that those items listed as 100% replacement in DMM 2350-50/2C shall be replaced. The Maintenance Expenditure Limit (MEL) of 65% shall not be exceeded for the repair of assemblies, components and vehicles unless specifically authorized by MCSC, (Code PM-LAV), Albany, Georgia and/or their representatives. All required data plates shall be in place and shall be legible. The IROAN data plate shall be constructed of metal and reflect the following (refer to Figure 1):

- The contractor that performed the IROAN.
- Overhauled to limited standards in accordance with IROAN Procedure for LAV-MEWSS.
- Odometer reading at Limited Technical Inspection \_\_\_\_\_.
- USMC No. \_\_\_\_\_ Date \_\_\_\_\_ (of IROAN)
- Vehicle Completely Stripped And Repainted. Interior Mo/Yr Exterior Mo/Yr.
- Chemical Agent Resistant Coating (CARC)/Camouflage Topcoat Used MIL-SPEC.

**CONTRACTOR \_\_\_\_\_**  
**OVERHAULED TO LIMITED STANDARDS IN ACCORDANCE WITH IROAN**  
**PROCEDURE FOR LAV-MEWSS.**  
**ODOMETER REATING AT LIMITED TECHNICAL INSPECTION. \_\_\_\_\_**  
**USMC NO. \_\_\_\_\_ DATE \_\_\_\_\_**

**VEHICLE COMPLETELY STRIPPED AND REPAINTED.**  
**INTERIOR \_\_\_\_ EXTERIOR \_\_\_\_**  
**CARC/CAMOUFLAGE TOPCOAT USED \_\_\_\_\_**

Figure 1

3.1.3.2 Configuration Control

a. 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. The procedures or materials contained in manuals, standards, instructions or engineering drawings define the item's characteristics. If deemed necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request For Deviation (RFD). MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing RFDs.

b. The creation and submission of RFDs shall be accomplished using MEARS CREATE software application, that resides at a secure web site, <https://mears.redstone.army.mil>. The contractor shall request user-id and password privileges from the requiring Office for the purpose of gaining access to the web site. The contractor shall direct any technical or functional questions concerning usage of MEARS CREATE software to the requiring Office for guidance. The contractor shall notify the requiring Office by electronic mail when completed RFDs are ready for formal submission.

3.1.3.3 Configuration Status Accounting. All TIs, MIs, and ECPs not previously applied to the LAV-MEWSS, and current as to the date of the current contract, shall be applied during the IROAN. A list of applicable identification number is provided by Appendix A to DMM 2350-50/2C, however Appendix C of this SOW must be checked monthly for recently published changes. Final configuration of the vehicle will be submitted to MCSC, (Code PM-LAV), Albany, Georgia, (Paragraph 4.1.6 of this SOW).

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

- Latest Configuration as identified by current contract
- Maintainable
- Serviceable Condition Code "A"
- All vehicle systems and components shall operate as intended herein

3.3 Specific Tasks. The following tasks describe the different Phases of the IROAN for the LAV-MEWSS:

- 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).** Upon receipt of the principle end item at the contractor's facility, a LTI shall be completed within 30 days for each LAV-MEWSS under the provisions of this SOW using the contractor diagnosis, inspection, and testing techniques to determine the extent of work and parts required.

**3.3.2 Phase II IROAN Base Line Vehicle**

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

3.3.2.2 All testing, inspecting, removal, disassembly, maintenance, repairs, installation, and final checks performed will comply with DMM 2350-50/2C.

3.3.2.3 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 (Material 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).

3.3.2.4 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 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.

3.3.2.5 Hull Crack Inspection & Repair. After the completion of the LTI (Ref. 3.3.1), all LAV-MEWSS hulls shall be prepared for crack inspection and application of corrosion resistant coating. The hull shall be 100% disassembled so abrasive blasting can be accomplished for 100% internal and external paint removal, crack inspection and repair and repainting. After blasting, the hull shall be cleaned in preparation of crack inspection. The crack inspection shall be performed in accordance with this SOW (Paragraph 3.3.2.5.1), the Depot Maintenance Manual DMM 2350-50/2C, Chapter 4, Section II (Hull Welded and Machined) and TM 08594A-25/1.

3.3.2.5.1 The initial hull crack inspection shall be beyond a visual inspection and in accordance with DMM 2350-50/2C. As a minimum, inspection shall be concentrated in the following areas.

1. All Strut Caps & lower Shock Towers.
2. Right Hand Forward upper Sidewall aft of #2 strut cap.
3. Right Hand Sidewall around the exhaust System Outlet, around the forward drain hole and around vision blocks and water can mounts.

4. Left Hand Side Plate around #1 and #2 Strut caps, vision blocks and appurtenances.
5. Complete Rear Wall and Doors and around tow pintle.
6. All hatches, doors and grills.
7. Around all tiedown, lifting and tow eyes.

3.3.2.5.2 All cracks discovered shall be classified and repaired in accordance with the requirements of TM 08594A-25/1. The vehicles crack repair history shall also be evaluated to determine if additional repairs are required to restore ballistic integrity. All Crack and Hull Weld Repair Sheets and recommended repair procedures shall be provided to MSCA, (Code PM-LAV), Albany, Georgia and/or their authorized representative (paragraph 4.1.4 of this SOW). In the event that plate replacement is necessary, only Lukens Steel or Diesel Division General Motors are to be utilized to procure the high hard steel replacements. The customer reserves the right to perform in process or final inspections and/or audits of the crack inspection and repair process as required.

3.3.2.5.3 The Trim Vane and the turret shall be removed prior to abrasive blasting of the hull. These components shall be evaluated per DMM 2350-50/2C to determine their condition. The paint shall also be evaluated to determine if stripping and repainting is required per 3.3.2.6.

3.3.2.6 Painting. After crack inspection and repair, the hull surfaces and applicable external components shall be prepared for painting. The hull shall be cleaned to a "near white" metal finish in accordance with SSPC-SP-10/NACE No.2, with a surface profile of 0.002" to 0.0025" (2 to 2.5 mils). Surface preparation for painting of the hull and components shall be in accordance with TM 4750-15/1. The prepared hull and components shall then be primed. They shall then be painted with CARC paint using either MIL-C-53039 or MIL-C-46168 for exterior surfaces, or MIL-PRF-22750 for interior surfaces. Once MIL-C-64159 becomes available, it shall be used in place of MIL-C-53039 and MIL-C-46168. Unless otherwise specified, painting shall be performed in accordance with TM 4750-15/1. The paint scheme shall be United States and European Verdant, 3-Color Camouflage Pattern, per drawing number referenced in TM 4750-15/2-1. Glass, tires, hoses, belts, and other rubber parts shall not be painted.

3.3.2.6.1 Quality Assurance for Surface Preparation and Painting. The contractor shall implement a Quality Assurance (QA) program for surface preparation and painting in accordance with the applicable sections of TM 4750-15/1 as specified in Table I.

3.3.2.6.2 Corrosion Prevention and Control (CPAC) Procedures. Unless otherwise specified in the Depot Maintenance Manual DMM 2350-50/2C the contractor shall apply/install CPAC materials to components prior to or upon final assembly, in accordance with Appendix B-1 of TM 4795-12/1.

3.3.2.7 All work performed on electrical and electronic parts and assemblies during IROAN shall be performed in accordance with JESD625-A to minimize the negative effects of electrostatic discharge on electronic parts, assemblies, and equipment on the LAV-MEWSS.

3.3.2.8 At the induction stage of the vehicle, the contractor shall contact MCSC, (Code PM-LAV), Albany, Georgia and/or their representatives in any case where the Single Channel

Ground and Air Radio Set (SINCGARS) hardware is missing.

3.3.2.9 Brake drums shall not exceed .036 inches (.912mm) above the standard measurement as outlined in TM 08594A-34/9A Paragraph 13-3. Those drums exceeding .036 (.912mm) must be replaced.

### 3.3.3 Phase III - Inspection, Testing and Acceptance.

3.3.3.1 Inspection. Inspection of the vehicle shall be conducted in accordance with the Final Inspection Road Test Check Sheet and Final Inspection Check Sheet provided by Appendix B and C in DMM 2350-50/2C. These sheets shall be available for review during the final acceptance testing.

3.3.3.2 Testing. The contractor shall be responsible for conducting all required tests. The contractor shall ascertain that the Final Inspection Check Sheets and Final Inspection Road Test Check Sheets are made available to MCSC, (Code PM-LAV), Albany, Georgia and/or their representatives. Chassis dynamometer procedures and test standards are outlined in TB 9-2300-245-50. A cell dynamometer test will be performed on all LAV Silver Series Engines entered into the IROAN cycle. Cell dynamometer procedures and test standards are outlined in TM 8A192C-34&P/A.

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. MCSC, (Code PM-LAV), Albany, Georgia and/or their authorized representatives, shall be permitted to observe the work, conduct inspections and perform testing during normal working hours. The above referenced personnel shall be at the contractor facility without adverse impact upon current production.

3.3.3.3.1 Final Inspection and Acceptance. Vehicles IROANed under the provisions of this SOW shall be acceptance tested in accordance with TB 9-2300-388-50. The Final Inspection Road Test Check Sheets and the Final Inspection Check Sheets will be utilized for the acceptance.

3.3.3.3.2 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 PM-LAV), 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 MCSC, (Code PM-LAV), Albany, Georgia and/or their representatives 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.

### 3.3.4 Phase IV - Packaging, Handling, Storage and Transportation (PHS&T).

3.3.4.1 FSD shall be responsible for preservation and packaging for items being repaired under the terms of this statement of work. Vehicles scheduled for long-term storage shall be in accordance with level "A" requirements of ATPD 2241 and the Equipment Preservation Data Sheet (EPDS) 8750193. The EPDS may be obtained from the Storage and Distribution Department (Code 580), Attn: Business Management Branch (Code 581), Suite 20320, 814 Radford Blvd., Albany, GA 31704-0320, commercial telephone number (229) 639-6786 or DSN 567-6786. Vehicles scheduled for shipment to all other destinations with the exception of Maritime Pre-positioned Forces (MPF) shall be to level "B", Drive-on/Drive-off. Vehicles preserved to level "B" scheduled for overseas destinations shall have a label affixed which reads, "NOT FOR WEATHER DECK STOWAGE". Vehicles scheduled for MPF shall be preserved to level "B", MPF Modified Drive-away.

3.3.4.2 The terms "Drive-On/Drive-Off" and "MPF Modified Drive Away" are defined as follows.

3.3.4.2.1 Drive-On/Drive-Off - Batteries shall be hot and disconnected from vehicle electrical system. Terminals and leads shall be taped. Fuel tank shall be filled ¼ tank full with JP5/8. The air intake system, exhaust system, brake system, drive train, and gauges shall be depreserved. Fire extinguisher brackets and seats shall be installed.

3.3.4.2.2 MPF Modified Drive Away - Batteries shall be hot and connected to vehicle electrical system. Fuel tank shall be ¾ full with JP5/8. The air intake system, exhaust system, brake system, drive train, and gauges shall be depreserved. Fire extinguisher brackets and seats shall be installed.

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

3.3.4.4 MCSC, (Code PM-LAV), Albany, Georgia and/or their representatives will provide FSD with the shipping address(es) for delivery of the repaired equipment. FSD 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 FSD.

#### 3.4 Quality Assurance Provisions

3.4.1 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 Q9002-1994 or an equivalent quality system model; no third party certification is required. The contractor shall develop a Quality Assurance Program Plan (QAPP) and deliver it for review and approval, (paragraph 4.1.8 of this SOW). The Contractor shall also update the QAPP as required.

3.4.2 The contractor's IROAN process shall be subject to in process and final inspections and audits to assess and verify compliance with the approved QAPP. Inspections and audits shall be conducted by MCSC, (Code PM-LAV), Albany, Georgia and/or their authorized representatives. All work locations or inspection stations shall be subject to in process and final inspections. MCSC, (Code PM-LAV), 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 the MCSC, (Code PM-LAV), 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 disclosed prior to final acceptance that fall within contract scope.

**TABLE I**  
**Surface Preparation and Painting QA Requirements**

TM 4750-15/1 Paragraph	Requirement
1-3g	Paint storage conditions – primer and topcoat: verify storage temperature ranges (low and high) that paint was stored at. Inspect condition of container to ensure there are no bulge that would indicate extreme temperature storage history.
1-3g	Shelf life – primer and topcoat: Inspect and verify shelf life has not expired.
2-2b (2) & b (3)	Condition of paint in cans (MIL-C-53039): Inspect for excessive skin or gelling.
2-4b (1) & 2-4d	Surface preparation – solvent cleaning: Visual check to be sure all oils & greases are removed prior to starting abrasive blasting or power tool cleaning.
2-4b (1) & 2-4e (1)	Surface preparation – paint stripping by blasting to bare metal: Visually inspect to ensure the surface cleanliness meets SSPC-SP-10 (near white metal). Can use visual standard SSPC-VIS-1. Verify surface profile after blasting is between 1.5 and 2.5 mils. (0.0015 to 0.0025)
2-4b (1) & 2-4e (1)	Surface preparation – surface cleanliness: Visual check just prior to priming to ensure surface is still oil/grease free, near white.
2-3h (1) & 2-5c (2)	Primer: dry film thickness (dft) for epoxy primers shall be 1.0-1.5 mils. Use of wet film thickness (wft) measurements can be made to verify proper dft. WFT measurements shall be 2.0-3.0 mils. Make measurements in as many areas on vehicle as needed to verify compliance.
2-3c	Cure time/time to topcoat primer: Record time of primer application. Primer must be at least set to touch before application of topcoat.
2-3h (6)	Primer & Topcoat Tape Adhesion Test: V-scribe adhesive tape test on primer and topcoat on two production units per lot as specified in TM 4750-15/1.
2-5e (1)	Topcoat – polyurethane (exterior): Dry film thickness (dft) should be 1.8 to 2.2 mils per coat. Total system dft range should be 2.8 to 3.7 mils.
2-5g (1)	Topcoat-epoxy MIL-PRF-22750 (interior): dft should be 1.8 to 2.2 mils for two coats.
2-3h (4)	Topcoat: overspray measure for 3-color camouflage shall be within (+/- one inch of pattern edge.
2-3h (4)	Topcoat: overspray – visual inspect, no overspray on rubber, glass, canvas, data plates, or other components not normally painted.
2-3h (5)	Topcoat: visual inspect to ensure match with camouflage pattern reference points.
1-2c	Post-job: ensure Vehicle Record Document/Equipment Record Jacket is annotated with paint system used and the date applied.

**4.0 REPORTS.** Unless otherwise specified by a Contract Data Requirements List, the contractor shall provide a copy of the below reports to the following address: Marine Corps Systems Command, (Attn: PM-LAV), 814 Radford Blvd., Suite 20320, Albany, GA 31704-0320. Contractor format is acceptable for all reports not provided by the Government.

**4.1. Contractor's Progress, Status and Management Report.** Provide on a monthly basis as requested on DD Form 1423. This information shall indicate the progress of work and the status of the program and of the assigned tasks, reports costs, and informs of existing or potential problem areas.

**4.1.1** Upon completion of the IROAN, the contractor shall provide a copy of all Engine and Transmission Dynamometer Run-In Schedules, Final Inspection Road Test Check Sheets, and Final Inspection Check Sheets for each vehicle to MCSC, (Code PM-LAV), Albany, Georgia and/or their representatives. Copies of these sheets shall also accompany the vehicle to the using unit.

**4.1.2** Upon completion of the IROAN, the contractor shall provide a copy of the painting process QA log generated in contractor format in accordance with paragraph 3.3.2.6.1 and Table I of this SOW for each vehicle to MCSC, (Code PM-LAV), Albany, Georgia and/or their representatives. Copies of these sheets shall also accompany the vehicle to the using unit.

**4.1.3** The contractor shall provide Cracks and Hull Repair Sheets on all welding repairs performed during the IROAN process to MCSC, (Code PM-LAV), Albany, Georgia and/or their representatives. These sheets shall be turned in at completion of the vehicle. Copies of these sheets may be obtained by contacting MCSC, (Code PM-LAV), Albany, Georgia and/or their representatives commercial telephone number (229) 639-6442/6443, or DSN 567-6442/6443.

**4.1.4** All modification information for the vehicle shall be entered on the Light Armored Vehicle Modification internet web site. The web site address to be utilized for this information is as follows: <http://notes.matcom.usmc.mil/lcmc/lavmodtracker.nsf>.

**4.1.5 Cost Schedule Status Report.** An LAV-MEWSS EVMS IPT defined and approved tailored Cost/Schedule Status Report (CSSR) shall summarize contract cost and schedule performance data in sufficient detail that management can make informed decisions based upon variances in budgeted and actual work performed, and budget at completion versus estimated at completion. The level of detail for reporting purposes is contained in Appendix B to this statement of work. The contractor shall agree to permit MCSC, (Code PM-LAV), Albany, Georgia and/or their representatives to inspect all pertinent records and data.

**4.1.6 Quality Assurance Program Plan (QAPP).** The contractor shall develop a QAPP to be delivered 120 days after contract award to MCSC, (Code PM-LAV), Albany, Georgia and/or their representatives. The government will review and provide comments within 30 days. The contractor shall provide the final QAPP 30 days after receipt of government comments. The QAPP can be produced in contractor format.

**APPENDIX A**

**LAV MASTER WORK SCHEDULE REQUIRED DELIVERY DATES'S (RDD'S)  
LIGHT ARMORED VEHICLES (MAINTENANCE CENTER, BARSTOW)**

**LAV-MEWSS (A0966)**

MEWSS	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOT
1													
IND													
PROD													

**LAV MASTER WORK SCHEDULE RDD'S  
LIGHT ARMORED VEHICLES (MAINTENANCE CENTER, ALBANY)**

MEWSS	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOT
1													
IND													
PROD													

FY-04 MWS line 3716

<b>Work Breakdown Structure</b>			
<b>1. LAV PROGRAM</b>			
1.7 LAV-MEWSS			
1.7.1 Hull/Frame			
1.7.1.1 Hull			
1.7.1.2 Miscellaneous Components			
1.7.2 Suspension/Steering			
1.7.2.1 Rear Suspension			
1.7.2.2 Traverse Control			
1.7.2.3 Front Suspension			
1.7.2.4 Trim Vane Assembly			
1.7.2.5 Torsion Bars			
1.7.2.6 Steering Components			
1.7.2.7 Brake Components			
1.7.3 Power Package/Drive Train			
1.7.3.1 Power Package Integration			
1.7.3.2 Engine			
1.7.3.3 Transmission			
1.7.3.4 Fan Tower Assembly			
1.7.3.5 Propeller Shaft Assembly			
1.7.3.6 Drive Train			
1.7.4 Auxiliary Automotive			
1.7.4.1 Heater, Vehicular			
1.7.4.2 Fire Suppression Components			
1.7.4.3 Winch & Fairlead Assembly			
1.7.4.4 Exhaust Components/Muffler			
1.7.4.5 Fuel Cell Sub-Assembly			
1.7.4.6 Seats			
1.7.4.7 Instrument Panel Assembly			
1.7.4.8 Annunciator Panel			
1.7.4.9 Electrical Components			
1.7.4.10 Hydraulic Components			
1.7.4.11 Hoses			
1.7.4.12 Lines & Tubes			
1.7.4.13 Crane & Controls (N/A)			
1.7.5 Turret/Turtable			
1.7.5.1 Turret/Turtable Integration (N/A)			
1.7.5.2 Shell/Cupola (N/A)			
1.7.5.3 Basket/Platform (N/A)			
1.7.5.4 Rotor Assembly (N/A)			
1.7.5.5 Traverse Drive/Azimuth Drive (N/A)			
1.7.5.5.1 Azimuth Drive (N/A)			
1.7.5.5.2 Traverse Drive (N/A)			
1.7.5.6 Thermal Sight Assembly (N/A)			
1.7.5.7 Armament Assembly (N/A)			
1.7.5.8 Fire Control			
1.7.6 Communications			
1.7.6.1 Vehicle Communications (N/A)			
1.7.6.2 Radio Rack (N/A)			
1.7.6.3 Switches & Boxes (N/A)			
1.7.6.4 Cables (N/A)			
1.7.7 Disassembly & LTI			
1.7.8 Assembly & Integration			

			1.7.8.1 Miscellaneous Reassembly Functions			
			1.7.8.2 Corrosion Prevention Procedures			
			1.7.8.3 FSC Handoff and Customer Service for defined period			
		1.7.9 Test & Checkout				
	1.20 Miscellaneous Material					
		1.20.1 Paint				
		1.20.2 Lineside Stock				
		1.20.3 HazMat				
		1.20.4 Fabricated Parts				
	1.30 Systems Engineering/Program Management					
		1.30.1 Industrial Engineering				
		1.30.2 Production Management				
		1.30.3 Configuration Management				
		1.30.4 Program Management				
	1.40 Vendor Processing					
	1.50 Facilities					
		1.50.1 Test Equipment				
		1.50.2 Special Tools				
	1.60 Spares					
	1.70 GFM Repair					

**APPENDIX C****MODIFICATION INSTRUCTIONS**

<b><u>MI NUMBER</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>DATE</u></b>
MI-09999A-25/2	INSTL AN/VAS-5A(V)5	01089
MI-2005-35/11A	MK-2781/U	00305
MI-8400-20/21A	INSTL HYD FAN HOSE	97202
MI-8400-25/2	INSTL SPIN-ON TYPE ENG OIL FILTER	92231
MI-8400-25/6	INSTL ENG COMP PANEL SCREWS	92252
MI-8400-25/18	INSTL OF QUICK DISCONNECTS	00090
MI-8400-35/11A	AUXILIARY HEATER LAV SERIES	95208
MI-8400-35/22	STAN MOD F/CRSN PREV IN LAV/MEWS	99090
MI-8400-20/23A	INSTL HYDR OIL FLTR KT LAV FAMILY	00031
MI-8400-45/24B	INSTL ALT UPGRADE	01059
MI-8400-25/26	REMOVAL OF AIR COUPLING	00090
MI-8400-25/28	SSE EXHAUST SYSTEM UPGRADE	01089
TI-8400-25/12	RETROFIT DESIGN CHANGES	95355





