

STATEMENT
OF
WORK

FOR THE

INSPECT, REPAIR ONLY AS NECESSARY
(IROAN)

OF THE

AAVP7A1 RAM/RS

NSN 2350-01-458-7410

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1.0 **SCOPE.** This Statement of Work (SOW), along with the Inspect, Repair Only As Necessary (IROAN) Standards TM 09674A-50/5 and TM 10004A-50/3, establishes, sets forth tasks and identifies the work effort that shall be performed by the contractor in the IROAN of the AAVP7A1 RAM/RS (with Upgunned Weapons Station (UGWS)) (hereafter referred to as AAV) vehicles received from the Operating Forces. These documents contain the minimum requirements necessary to restore the end item to a Condition Code "A". Condition Code "A" is defined as "new, used, repaired, or reconditioned material which is serviceable and issuable to all customers without limitation or restriction." The IROANed vehicle shall consist of components and parts ranging from new to meeting minimum serviceable tolerances. It is anticipated that 680 vehicles need to undergo the IROAN process within the next five years beginning with FY05.

1.1 **Background.** IROAN is defined as "That maintenance technique which determines the minimum repairs necessary to restore equipment, components or assemblies to prescribed maintenance serviceability standards by using all prescribed 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 issue dates 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, requests for conflict resolution shall be brought to the attention of Program Manager, Assault Amphibious Vehicles Systems (PM AAVS). Resolution of conflicts between reference documents and this SOW shall be complete prior to Phase II initiation by the PM AAVS. The current edition of these documents shall be used as references when work commences.

2.1. Military Standards

MIL-STD-129	DOD Standard Practice: Military Marking for Shipment and Storage
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2.2. Other Government Documents and Publications

TM 09674A-10/3A	Operator's Manual
TM 09674A-50/5	Inspect, Repair Only As Necessary (IROAN) Standards for Assault Amphibious Vehicle (AAV7A1 – Models AAVP7A1, AAVC7A1, AAVR7A1)

TM 10004A-50/3	Inspect, Repair Only As Necessary (IROAN) Standards for Upgunned Weapons Station (UGWS) Assault Amphibious Vehicle Personnel, Model AAVP7A1
TM 10004A-10/1B	Upgunned Weapons Station, Assault Amphibious Vehicle
TM 10004A-25&P/2B	Maintenance Instruction Upgunned Weapons Station (UGWS), Assault Amphibious Vehicle, Personnel, AAVP7A1
TM 8F152B-25&P/A	Power Plant Assembly Assault Amphibious Vehicle
TM 8F419B-35&P/A	Maintenance Instruction and Repair Parts List M36E3 Periscope, Upgunned Weapons Station, Assault Amphibious Vehicle Personnel, Model 7A1, AAVP7A1
TM 09674A-25&P/4B	Maintenance Instructions and Repair Parts List, Organizational, Intermediate and Depot Assault Amphibious Vehicle, 7A1 Family of Vehicles and RAM/RS
TM 2350-45	DMA Standard Procedures
DoD 4160.21-M	Defense Materiel Disposition Manual
Naval Sea System Command Drawing 7010050, CAGE 53711	AAVP7A1
Naval Sea System Command Drawing 6289443, CAGE 53711	Upgunned Weapon Station
Naval Sea System Command Drawing 5428747, CAGE 53711	Preparation for Shipment and Storage of the AAVP7A1
TI-5820-25/22	Electromagnetic Environmental Effects (E3) Procedures for Installation of Communication Equipment on U.S. Marine Corps Platforms
JESD625-A	Requirements for Handling Electrostatic – Discharge Sensitive (ESDS) Devices
TM 3080-25/1	Maintenance Instructions, Organizational, Intermediate and Depot for Assault Amphibious Vehicle AAV7A1 Corrosion Control

TM 4750-15/1&2	Painting and Registration Marking for Marine Corps Combat and Tactical Equipment
TM 4750-15/2	Camouflage Paint Patterns
DoD 4000.25-1-M	Military Standard for Requisitioning and Issue Procedures (MILSTRIP)
CM Plan dtd 13 July 00	PM, AAVS Configuration Management Plan dated 13 July 2000

Military Handbooks (For Guidance Only)

MIL-HDBK-61	Configuration Management Guidance
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2.3 Industry Standards

JESD625-A	Requirements for Handling Electrostatic Discharge Sensitive (ESDS) Devices
ANSI/ISO/ASQC 9001-2000	Quality Management Systems - Requirements

Industry Standards (For Guidance Only)

ANSI/EIA-649	National Consensus for Configuration Management
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Copies of Military Specifications and Standards are available from the 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 handbooks, publications and other Government documents required by the contractor in connection with specific SOW requirements shall be obtained, in writing, from: Commanding General (Code 586), Whse 1121, Suite 20321, Marine Corps Logistics Command, Albany, Georgia 31704-0321, commercial telephone number (229) 639-6258 or DSN 567-6258. Copies of Engineering Drawings and Engineering Change Proposals required by the contractor shall be obtained in writing from Supply Chain Management Center, Attn: (Code 566-1A), Marine Corps Logistics Command, 814 Radford Blvd., Suite 20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6476 or DSN 567-6476.

3.0 REQUIREMENTS

3.1 Detailed Tasks. The following tasks describe the different phases for the IROAN of the AAVs.

3.1.1 Phase I - Pre-Induction. A Pre-Induction Inspection Analysis shall be performed for each AAV using the contractor's diagnosis, inspection and testing techniques to determine the extent of work and parts required. These findings shall be annotated on the "PRE-INDUCTION CHECK SHEET FOR THE AAVs" (Appendix C of TM 09674A-50/5) and "IROAN PRE-INDUCTION

AND FINAL INSPECTION CHECK SHEET FOR THE UPGUNNED WEAPON STATION (UGWS)" (Appendix C of TM 10004A-50/3). These inspection sheets shall be made available to PM AAVS representatives upon request.

3.1.2 Phase II - IROAN. After Pre-Induction Tests and Inspections have been completed, IROAN of the AAVs shall be accomplished in accordance with the current edition of this SOW, Naval Sea System Command Drawing 7010050, CAGE 53711, Naval Sea System Command Drawing 6289443, CAGE 53711, TM 10004A-25&P/2B, TM 09674A-25&P/4B, TM 09674A-50/5, TM 10004A-50/3, TM 8F419B-35&P/A and TM 8F152B-25&P/A. Deficiencies noted in the Initial Inspection Check Sheets during Phase I shall be repaired/replaced. RAM/RS VTA903-T525 engines found to be deficient shall be shipped to the Original Equipment Manufacturer (OEM) for repair. All Hydrostatic Steering Units, regardless of condition, shall be shipped to the OEM for rework. Components or assemblies shall not be disassembled for replacement of mandatory parts unless that part has failed, or the component or assembly wherein the part is located is disassembled for repair or inspection. Economically repairable replacement parts may be reused if they meet the applicable inspection requirements in TM 2350-45. Painting and marking shall be in accordance with TM 4750-15/2 and TM 4750-15/1&2. Corrosion control procedures shall be in accordance with TM 3080-25/1. Electromagnetic Environmental Effects (E3) procedures shall be conducted in accordance with TI-5820-25/22. All outstanding Engineering Change Proposals (ECPs) will be applied at this time. All unserviceable parts shall be disposed of in accordance with DoD 4160.21-M.

3.1.3. Phase III - Inspection, Testing, and Acceptance. Inspection, testing, and acceptance of the AAV shall be conducted in accordance with the current edition of TM 09674A-10/3A, TM 09674A-25&P/4B, TM 09674A-50/5, TM 10004A-10/1B, TM 10004A-25&P/2B, TM 10004A-50/3, TM 8F152B-25&P/A, TM 8F419B-35&P/A, and this SOW.

3.1.4. Phase IV - Packaging, Handling, Storage and Transportation (PHS&T). The contractor shall be responsible for preservation and packaging of the items being repaired/rebuilt under the terms of this Statement of Work. Preservation and packing shall be in accordance with the requirements of Engineering Drawing 5428747, CAGE 53711. Marking for shipment and storage shall be in accordance with MIL-STD-129. The Marine Corps will provide the contractor with the shipping addresses for the delivery of the repaired equipment. The contractor shall be responsible for arranging for shipment to the pre-designated sites. The Marine Corps will be responsible for all transportation costs associated with shipping the subject equipment to and from the contractor's facility.

3.2 Configuration Control. The contractor shall apply configuration control procedures to established configuration items per the provisions of the PM, AAVS Configuration Management Plan dated 13 July 2000. The contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. Procedures or materials contained in manuals, standards and instructions or engineering drawing/documents define the items characteristics. Changes to the established baselines shall only be made after PM AAVS or designated representative approval of Engineering Change Proposals (ECP) or Requests for Deviation (RFD). 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.

The creation and submission of RFDs shall be accomplished using MEARS CREATE software application, which resides at a secure web site, <https://mears.redstone.army.mil>. For the purpose of gaining access to the web site, the contractor shall request User-ID and password privileges from the Requiring Office identified in Block 6 of the applicable Contract Data Requirements List. 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.

3.3 Quality Assurance Provisions. The performance of the contractor's quality of work performed, material provided and documents written shall be subject to in-process review and inspection by the PM, AAVS representative during contract performance. Inspection may be accomplished at any work location. The PM, AAVS representative requires, at a minimum, two weeks notice of acceptance tests to allow for sufficient time for the PM, AAVS representative to witness the test if he or she desires. Inspection by the PM, AAVS representative of acceptance tests, materials and associated list furnished hereunder does not relieve the contractor from any responsibility regarding defects or other failures to meet the SOW requirements which may be disclosed prior to final acceptance.

The contractor shall provide and maintain a Quality System that, as a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9001-2000. The contractor's work shall be subject to in-process reviews and inspections for compliance with these procedures and standards by PM, AAVS representatives. Noncompliance with these quality assurance procedures resulting in degraded quality of work may result in a stop-work order requiring action by the contractor to correct the work performed and to enforce compliance with quality assurance procedures or face contract termination. Notwithstanding such inspection, it shall be the contractor's responsibility to ensure that the entire system meets the performance requirements of this SOW.

3.4 Government Furnished Equipment (GFE)/Government Furnished Material (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: 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 commercial telephone number (229) 639-5498 or DSN 567-5498.

3.5 Contractor Furnished Material (CFM). The Contractor may requisition materiel 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.

3.6 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, testing, marking, packaging, storing and transporting ESD sensitive components.

4.0 REPORTS. The contractor shall provide reports as required by the attached Contract Data Requirements Lists (CDRLs). CDRLs that require a hard copy delivery shall be sent to the following addresses:

Commanding General
ATTN: PM AAVS
2033 Barnett Avenue, STE 315
Quantico, Virginia 22134-5010

Commander
ATTN: AFSS
814 Radford Blvd, STE 20343
Albany, Georgia 31704-0343

5.0 MEETINGS, REVIEWS, AND CONFERENCES. The contractor shall, as appropriate, plan, host, attend, coordinate, support, and conduct meetings, formal reviews, and conferences (hereinafter called "reviews"). The reviews shall be conducted quarterly either employing Video Conferencing (VTC) or on-site at PM AAVS or the contractor's facilities. Reviews requiring demonstration and/or examination of equipment shall be conducted at the contractor's facility. Action item documentation, assignment of responsibility for completion, and due dates shall be determined prior to adjournment of all reviews. A summary of all action items, responsible parties, and estimated completion date shall be provided to PM AAVS.

6.0 MANAGEMENT SUPPORT. The contractor shall provide a single point of contact for Project Management for the AAV IROAN effort. The single point of contact shall be responsible for ensuring compliance with the requirements of this SOW.

