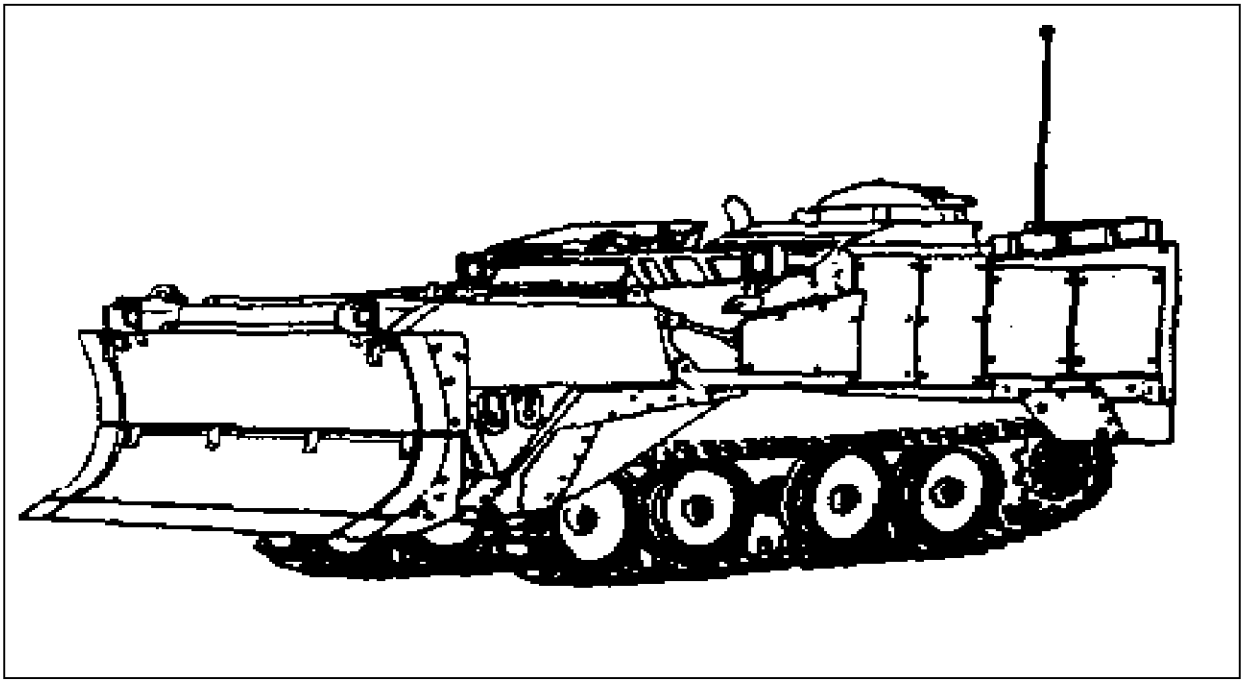
STATEMENT

OF

WORK

INSPECT AND REPAIR ONLY AS NECESSARY (IROAN)

ARMORED COMBAT EARTHMOVER (ACE)
MODEL M9



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Appendix A M9 ACE Pre-Induction Checklist

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STATEMENT OF WORK FOR THE
ARMORED COMBAT EARTHMOVER (ACE)
NSN 2350-00-808-7100 MODEL M9
INSPECT AND REPAIR ONLY AS NECESSARY (IROAN)

1.0 . **SCOPE.** This Statement of Work (SOW) establishes and sets forth tasks and identifies the work efforts that shall be performed by the Contractor. This document contains the minimum requirements to assemble, integrate, make fully operational, calibrate, install, test and inspect the Armored Combat Earthmover, "NSN 2350-00-808-7100," Weapon System Code 3Q, to a serviceable condition (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. This includes material with more than six months shelf-life remaining. The National Stock Numbers (NSN) listed here shall be known as the M9 ACE. This SOW along with the M9 ACE Technical Manuals covers the minimum requirements applicable to the restoration of the M9 ACE.
Additionally, The M9 ACE Technical Manuals sets forth guidelines within which the M9 ACE shall be refurbished, repaired and restored. The basic configuration of the M9 ACE is established by the M9 ACE Technical Manuals that are currently in the Marine Corps inventory. All materiel (including repair parts) shall be provided by the Contractor. Installation and testing shall be performed by the Contractor. All special tools and test equipment required to perform any task on the M9 ACE are listed in the M9 ACE Technical Manuals, and shall be provided by the Contractor.
Questions related to this SOW should be addressed to the M9 ACE Weapon System Manager, Life Cycle Management Center, Code 837-2, MARCORLOGBASES, Albany Ga. Commercial Phone (912) 439-6533 or DSN 567-6533.

1.1 **BACKGROUND.** IROAN is defined as: The maintenance technique which determines the minimum repairs necessary 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.

1.2 **ITEM IDENTIFICATION**. The M9 ACE, NSN 2350-00-808-7100 is a full tracked, armored combat engineer vehicle. It is capable of excavating defensive positions for armored vehicles and artillery as well as creating other protective and fighting positions for weapons, material, and personnel. Additional capabilities include mobility enhancement by breaching obstacles such as antitank ditches and escarpments.

2.0 **APPLICABLE DOCUMENTS.** The following documents form a part of this SOW to the extent specified. Unless otherwise speciied, 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 requirements.

2.1 **MILITARY SPECIFICATIONS.**

MIL-C-81309	Corrosion Preventive Compounds, Water Displacing.

Ultra-Thin Film

2.2 **MILITARY STANDARDS.**

MIL-STD-129	DoD Standard Practice for Military Marking
MIL-STD-130	U.S. Military Property, Identification Marking of

MILITARY STANDARDS-GUIDANCE ONLY.

MIL-STD-973	Configuration Management

2.3 **OTHER GOVERNMENT DOCUMENTS AND PUBLICATION**. The issues of those documents cited below shall be used.

ATPD 2241	Vehicles, Wheeled: Preparation For Shipment and Storage of
DoD 4000.25-1-M	MILSTRIP Manual
NAVICPINST 4491.2A	Requisitioning of Contractor Furnished Material From The Federal Supply System
TM-4750-15/1	Painting and Registration Marking for Marine Corps Combat and Tactical Equipment.
TM-09599A-10/1	Operator's Manual, Armored Combat Earthmover
TM-09599A-24/2	Organizational and Intermediate Maintenance Manual
TM-09599A-24P/3	Organizational and Intermediate Maintenance Manual (Parts)
TM 9-4910-571-12P	Simplified Test Equipment For Internal Combustion Engines Reprogrammable (STE/ICE-R) Operators Manual.
TM 3080-34	Corrosion Prevention and Control
MCO P11262.2	Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment

2.4 **INDUSTRY STANDARDS**

ANSI/ISO/ASQC Q9002-1994	Qualilty Systems Model for Quality Assurance in Production, Installation and Servicing.

ISO 4021	Hydraulic Fluid Power Particular Contamination Analysis-Extraction of Fluid From Lines of an Operational System

Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Defense Automation Production Service Philadelphia, Building 4D, 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 publications required by contractors in connection with specific SOW requirements shall be obtained through the Contracting Officer: Commander, Attn: Contracting Officer (Code 891), Marine Corps Logistics Base, 814 Radford Blvd., Albany, GA 31704-1128, commercial telephone number (912) 439-6761 or DSN 567-6761. Copies of engineering drawings shall be obtained from: Life Cycle Management Center, Attn (Code 825-3), 814 Radford Blvd Suite 20320, Albany GA 31704-0320, commercial telephone number (912) 439-6410 or DSN 567-6410.

3.0 **REQUIREMENTS**

3.1 **GENERAL TASKS**. In fulfilling the specified requirements, the Contractor shall render, yet shall not be limited to the following tasks:

a. Provide materials, labor, facilities, repair parts and services necessary to troubleshoot, test, diagnose, engineer, integrate, install, repair and calibrate as required to make fully operational, the M9 ACE.

b. Conduct final-on-site testing for witness by the Weapon System Manager and/or their Representatives.

c. The Contractor shall be responsible for all structural, electrical and mechanical requirements associated with the repair and restoration of the M9 ACE.

3.2 **IROAN OBJECTIVE AND FUNCTIONS** After IROAN, the M9 ACE shall have as a minimum the following characteristics:

a. Reliable as per system specifications. System specifications for the M9 ACE can be found throughout the M9 ACE Technical Manuals. These specifications are not always expressed in numbers but in some cases, specifications are expressed as an inspection. Specifications are listed with each assembly/subassemblies remove, inspect, and repair procedures in the Technical Manual that addresses the component being repaired or IROANed.

b. Maintainable

c. Serviceable (Condition Code "A")

d. Latest Marine Corps Configuration

e. All M9 ACE systems and components shall operate as designed intended.
f. All M9 ACEs shall have a Like New appearance.

3.3 **SPECIFIC TASKS** The following tasks describe the different phases for the IROAN of the M9 ACE.

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

3.3.1. **Phase I Pre-Induction**

a. The Contractor shall inspect in detail M9 ACE transported to the Contractor for IROAN under provisions of this SOW. The Contractor shall ensure that the inspection is sufficient to determine the condition of the inspected M9 ACE and the extent of work and repair parts required. The findings of this inspection shall be annotated on the M9 ACE Pre-Induction Checklist (Appendix A) and shall be maintained and made available upon request by the Weapon System Manager and/or their Representatives. The M9 ACE Pre-Induction Checklist (Appendix A), Final Inspection Checklist (Appendix B), and Configuration Checklist (Appendix C) may be duplicated in a electronic data base and maintained in that data base. If data is selected to be provided electronically to the Weapon System Manager and/or their Representatives, the Data base program must be agreed to by both the Contractor and the Weapon System Manager and/or their representative.

b. Test equipment shall be used to determine that assemblies and subassemblies meet prescribed reliability, performance, and work requirements. In those cases when conformance to the SOW cannot be certified through existing inspection and testing procedures and by use of diagnostic equipment, the assembly shall be removed, disassembled, inspected, tested and repaired to the degree necessary to assure full conformance with this SOW. M9 ACE will be operational tested 100 per cent in accordance with this SOW.

c. Oil seals and gaskets leakage. Evidence of lubricating or hydraulic oils passing through or around a seal is in itself not a defect; however, consideration must be given to the fluid capacity in the item being checked/inspected. Inspection shall normally be performed during and immediately following an operational test, but not sufficient duration to allow the fluids to return to ambient temperatures. The following shall be used as a guide in determine degree of oil loss:

1. Class I - Seepage of fluid (indicated by wetness or discoloration) not great enough to form drops.
2. Class II - Leakage of fluid great enough to form drops, but not enough to cause drops to fall from the item being checked/inspected.
3. Class III - Leakage of fluid great enough to form drops that fall from the item being checked/inspected.

A CLASS I OR II LEAK, EXCEPT FUEL SYSTEM, BRAKE SYSTEM, AND POWER STEERING SYSTEMS IS AN ACCEPTABLE CONDITION AT ANY TIME AND DO NOT REQUIRE CORRECTIVE ACTION.

3.3.2 **PHASE II - IROAN**. After pre-induction tests and inspections have been completed, IROAN of the M9 ACE shall be accomplished in accordance with this SOW and the M9 ACE Technical Manuals. Deficiencies noted on the M9 ACE Pre-Induction Checklist (Appendix A) during Phase I shall be repair/replaced. The following efforts shall be performed as part of the IROAN:

a. **SERVICE AND PARTS MANUAL**: The Service and Parts Manuals listed below contains repair procedures and repair parts for the complete M9 ACE. The Trouble Shooting Guide contained in these manuals are to be used along with the Pre-Induction Checklist in helping identify deficiencies with the M9 ACE. Repair procedures contained in these manuals are to be used to repair deficiencies identified on the Pre-Induction Checklist (Appendix A).

TM 09599A-10/1	Operators Manual
TM 09599A-24/2	Organization and Maintenance Manual, Volumes 1 and 2.
TM 09599A-24P/3	Organization and Maintenance Manual (Repair Parts)
TM 9-4910-571-12&P	Simplified Test Equipment for Internal Combustion Engines Reprogrammable (STE/ICE-R) Operators Manual

The Service Manuals listed may contain provision for corrosion control, painting, and packaging. Provisions for corrosion control, painting. and packaging is provided within this SOW and shall be the superseding requirement. Maintenance task identified in the service manual shall be followed in the IROAN of the M9 ACE.

Repair parts are listed in TM 09599A-24P/3. All repair/replacement parts shall be ordered using this manual. TM 09599A-24P/3 also establishes the basic configuration of the Marine Corps M9 ACE.

TM 09599A-24/2 contains many STE/ICE-R troubleshooting procedures. Follow test procedures in TM 9-4910-571-12&P to run the STE/ICE-R CI Engine GO NO-GO Chain, Page 3-17 of TM 09599A-24/2. Refer to TM 9-4910-571-12&P and repair or replacement procedures in chapter 4 of TM 09599A-24/2 to complete all equipment conditions. All STE/ICE-R test identified in TM 09599A-24/2 shall be conducted to determine condition of components/systems being tested.

b. **DETAILED MECHANICAL WORK:** M9 ACE received for IROAN shall be worked in accordance with the following paragraphs. All discrepancies noted on the IROAN Pre-Induction Checklist (Appendix A) shall be repaired/replaced.

c. **HARDWARE**

(1) Replace broken, unserviceable and/or missing hardware, including nuts, bolts, screws, washers, turnlock fasteners, safety, and one time use items, etc., in accordance with the IROAN. Unserviceable would include any of the above that failed to function properly.

(2) Ensure proper hardware locking devices are present on all moving mechanical assemblies.

(3) Hardware normally supplied with commercial parts shall be used unless specifically prohibited.

(4) Hardware used in this IROAN shall be in accordance with existing technical publications.

d. **POWER TRAIN**. The M9 ACE Power Train consist of five major components. These components are the vehicle engine, transfer case, transmission, drive shaft, steer unit, final drives, and drive sprocket assemblies. These components are to be cleaned, inspected, tested, adjusted, and repaired/replaced as required.

(1) VEHICLE ENGINE. Prior to initial inspection, always make visual checks to assure normal operating conditions exist (fluid levels are correct, belt tension, etc.). Engine shall not be removed from the M9 ACE unless major defects are found during the initial inspection, oil analysis and road testing. If repair is required, remove and repair per technical references in TM-09599A-24/2. Each engine assembly will be IROANed of all reported deficiencies. The engine will be detail cleaned and inspected for loose, damage, or missing parts. Special emphasis shall be in place on mechanical noises which may identify internal engine damage. No unusual vibrations, excessive oil consumption, excessive exhaust smoke, leakage of exhaust gases, exhaust restrictions, loss of coolant, low engine oil pressure or engine overheating are permitted. If engine repair/rebuild is required, remove and repair per technical references shown in TM-09599A-24/2. Engine shall operate freely and without symptoms of engine malfunctions identified in the troubleshooting charts of TM 09599A-24/2.

(2) TRANSFER CASE. Inspect transfer case for cracks and leakage. Metal chips in the oil are not acceptable. If metal chips are found in the oil, remove, disassemble, and repair transfer case as required. Transfer case shall be free of vibrations, unusual noise, and overheating. Transfer case shall operate as intended without locking up. If transfer case appears locked up, check case in accordance with Troubleshooting Guide Symptom Number 16, page 3-155 and 3-156 located in TM 09599A-24/2. Repair or replace as required. Replace metallic hydraulic lines that contains flat spots or kicks that may restrict flow or eventually result in leakage. Stripped or rounded off fitting are not permitted. Replace nonmetallic hydraulic lines that contain blisters or deformations to the outer covering. No excessive abrasion or scrubbing areas on outer surface of both the nonmetallic and metallic hoses and lines are permitted. Replace transfer case oil 100 percent. Transfer case shall operate freely and without symptoms of transfer case malfunctions identified in the troubleshooting charts of TM 09599A-24/2.

(3) TRANSMISSION. Assure transmission is at normal operation temperature and transmission fluid is at correct level before testing. Test is to include driving the M9 ACE in forward and reverse gears to check proper operation of the transmission. During and after the pre-induction test, the transmission shall be inspected for the following deficiencies:

a. Test for transmission for overheating.

b. Test transmission for slippage.

c. Inspect for leaking seals.

d. Noisy transmission; Noise may indicate internal damage to transmission.

e. Inspect for proper shifting of transmission.

f. Inspect transmission shifter for proper operation

g. Inspect for missing and damage plates, guards, and pans.

h. Inspect for damaged transmission oil cooler lines and fittings.

i. Inspect for damaged transmission oil pan.

j. Inspect transmission hydraulic shift control valve for damage, looseness, leakage, and corrosion.

l. Inspect transmission shifting lever and linkage for damage, looseness, and proper operation.

The transmission shall be IROANed of all deficiencies identified on the Pre-Induction Checklist (Appendix A). During the final inspection/road test, the transmission shall operate as designed. No slippage of the transmission clutches are permitted. Hydraulic leaks greater than Class II are not acceptable. Transmission shall not make unusual and loud noises. Transmission shifter shall function as intended without excessive play. During normal operation, the transmission shall shift smoothly and without hesitation. All guards, plates, and pans (oil) shall be functional and installed in their proper location. Transmission torque converter shall operate as designed with out loud noise. Transmission shall be securely mounted to the vehicle hull assembly. Transmission cooler oil lines shall be free of corrosion, damage, flat spots, kinks, leaks, and rounded of fittings. Transmission cooler lines shall be secured in their mounting location. Cooler shall function without evidence of leakage or structural failure.
Missing mounting hardware is not permitted. Transmission shall not overheat during normal operation. Repair or replace transmission as required. Repair/replacement procedures are found in TM 09599A-24/2. Transmission shall operate freely and without symptoms of transmission malfunctions identified in the troubleshooting charts of TM 09599A-24/2.
Transmission shifting lever and linkage shall operate as intended without binding. Linkage shall be properly adjusted to provide positive gear selection and gear engagement of the transmission. Repair/replacement procedures are found in TM 09599A-24/2.

(4) DRIVE SHAFT. Transmission and steer unit input and output yokes shall be securely mounted in their proper place without leakage. Remove any and all foreign material from propeller shaft. Replace universal joints that contain looseness between the spider and wing bearings. Wing bearings shall be securely tighten to the yoke assemblies. Slip yoke shall function as intended with no excessive radial movement. Repair/replacement procedures are found in TM 09599A-24/2.

(5) STEER UNIT. The steer unit shall be IROANed of all deficiencies identified on the Pre-Induction Checklist (Appendix A). During the final inspection/road test, the steer unit shall

operate as designed. No slippage of the steer unit clutches are permitted. Hydraulic leaks greater than Class II are not acceptable. Steer unit shall not make unusual and loud noises. Steer unit selector level and linkage shall function as intended without excessive play. Steer unit mounting plates, turnbuckle, and hardware shall be functional and complete. No missing items are permitted. All guards, plates, and pans (oil) shall be functional and installed in their proper location. The steer unit strainer assembles shall be cleaned, inspected, and replaced as required. Replace metallic hydraulic lines that contains flat spots or kicks that may restrict flow or eventually result in leakage. Stripped or rounded off fitting are not permitted. Replace nonmetallic hydraulic lines that contain blisters or deformations to the outer covering. No excessive abrasion or scrubbing areas on outer surface of both the nonmetallic and metallic hoses and lines are acceptable. Steer unit oil shall be replaced 100 percent. Steer unit shall operate freely and without symptoms of steer unit malfunctions identified in the troubleshooting charts of TM 09599A-24/2. Steer unit output coupling, steer selector lever and linkage, steer unit brake lever, and steering wheel and linkage adjustment shall be checked and adjusted as required. Adjustment procedures for these assemblies are founded in TM 09599A-24/2.

(6) FINAL DRIVES. Final dive assemblies shall be free of cracks, breaks, leakage, and any structural damage that may prevent proper operation. Final drive assemblies shall operate as intended without vibrations, load noise, or overheating. Final assembly oil shall be replaced 100 percent. Final drive disconnect/connect assemblies shall be free of damage and any foreign material. Disconnect/connect assemblies shall operate as intended. Replace nonmetallic breather hoses that contain blisters or deformations to the outer covering. Excessive abrasion or scrubbing areas on outer surface of hoses are not permitted. Stripped or rounded off fitting are not permitted.

(7) DRIVE SPROCKET ASSEMBLY. Hub assembly shall be free of crack, breaks, warpage, and structural damage that may prevent proper installation and operation. Inter/outer sprockets shall not be worn to the wear ring on any one side. Replace sprockets as required. Replace missing, broken, or striped inter sprocket shelf locking bolts and outer sprocket/hub final drive studs. Replacement procedures are found in TM 09599A-24/2.

e. **SUSPENSION SYSTEM.** The M9 ACE suspension system consist of rotary actuators, accumulators, road wheel and road wheel arms, track, track adjusting cylinders, adjusting flange, and the bump stop and bump stop cylinder assemblies. These assemblies are to be cleaned, inspected, tested, adjusted, and repaired/replaced as needed. Suspension system components shall be IROANed of all deficiencies annotated on the Pre-Induction Checklist (Appendix A).

(1) ROTARY ACTUATORS. M9 ACE rotary actuators require special tools and test equipment to repair and to test repaired actuators. Actuators that malfunction due to internal problems are required to be replaced. Assure actuator problems are not due the problems related to the M9 ACE hydraulic system before removing actuator for replacement. Rotary actuator troubleshooting procedures are found in TM 09599A-24/2. Rotary actuators shall be free of any and all deficiencies identified in the troubling shooting chart. Replace metallic hydraulic lines that contains flat spots or kicks that may restrict flow or eventually result in leakage. Stripped or rounded off fitting are not permitted. Replace nonmetallic hydraulic lines that contain blisters or deformations to the outer covering. No excessive abrasion or scrubbing areas on outer surface of both the nonmetallic and metallic hoses and lines are acceptable. Class III leakage at the actuator ports are not permitted. Replace hydraulic hoses, lines. fittings, and fitting o rings as required to

correct leakage. Check torque settings of actuator mounting bolts to assure bolts are not loose. If bolts can not be tighten, inspect hull thread inserts for looseness, corrosion, and damage. Repair inserts in accordance with procedures identified in TM 09599A-24/2. All actuator mounting bolts shall be tighten to specifications.

(2) ACCUMULATORS. Accumulators shall be tightly secured in their mounting place without leakage. Test torque setting of accumulators. Accumulators shall be torque to 169-187 lb-ft(229-254 N-m). Test accumulator charge using test procedures identified in TM 09599A-24/2, page 4-880 through 4-883. Repair/replace accumulators as required.

(3) TRACK ADJUSTING CYLINDERS. Inspect check valves for leakage. If grease is leaking from the valves, replace valves. Replace damaged check valves. Check cylinders for cracks. Replace cracked and damaged cylinders. Inspect and functional test track adjusting cylinders using test procedures identified in TM 09599A-24/2, page 3-188, Step 7. Repair/replace cylinders that do not maintain tension. Test cylinders using procedures in TM 09599A-24/2, page 3-186, Step 2. before replacing cylinders that will not maintain tension. This procedures will remove any air that may be trapped in the cylinder.

(4) BUMP STOP/BUMP CYLINDER ASSEMBLY. Inspect bump stop assembly hydraulic lines for flat spots or kicks that may restrict flow or eventually result in leakage. Stripped or rounded off fitting are not permitted. Replace hydraulic lines that contain blisters or deformations to the outer covering. No excessive abrasion or scrubbing areas on outer surface of hoses and lines are acceptable. Replace ruptured hoses and lines as required. Inspect bump assembly to assure assembly is not jammed. Remove jamming material or repair damaged bump stop assembly. Test bump stop hydraulic pressure using procedures identified in TM 09599A-24/2, page 3-281. Repair/replace bump stop assembly as test results may required. Test bump stop flow rate as per instructions identified in TM 09599A-24/2, page 3-286. Repair/replace bump stop components as may be required by flow test results.

(5) ADJUSTING FLANGE. Inspect flange assembly for cracks, breaks, and structural damage. Replace damaged flange assemblies. Closely inspect flange assembly track adjusting cylinder mounting ears for cracks and breaks. Replace flange assemblies that shows any structural damage in this area. Inspect flange alignment pins to assure pins are in place. Replace missing pins. Closely inspect vehicle hull at the area that the adjusting flanges and final drive assemblies are installed. Hull should not damaged, cracked, or show any signs of deformities. If suspected problems are identified, remove final drive and adjusting flange to facilitate a thorough inspection of the hull. Repair/replace components as required. Inspect flange assembly for leakage. Replace oil barrier as required. Inspect flange assembly for missing or damaged alignment half-ring. Replace half-rings as required.

(6) ROAD WHEEL ARMS. Inspect road wheel arms for structural damage such as cracks, breaks, and bends. Remove arm retainer to inspect splinds on both the road wheel arm and actuator assemblies. Replace any and all arms and actuators assemblies that contains damage or striped splines. Inspect area between the road wheel arms and hull assembly for any foreign material (such as barb wire). Remove material as required. If foreign material is found or inspection indicates that foreign material has been trapped in this area, remove road wheel arm and inspect

actuator seals, gaskets, and packing. Inspect seal, gasket, and packing surfaces on the road wheel arm and actuator. Replace road wheel arm and actuator as required.
Inspect road wheel arm hub assembly for looseness, load noises, binding, and structural damage. Replace seals, gaskets, and packing that is damaged and will not seal. Remove hub assembly cap and inspect hub bearings for looseness or lack of proper lubrication. Replace bearing that emits noise during operation and that has ran without proper lubrication. Test hub nut torque setting. Adjust as required. Replace nut retaining cotter pins 100 percent. Inspect road wheel mounting bolts for stripped threads, bent and missing bolts. Replace missing, stripped or bent bolts. Replace missing or damage lubrication fittings. Road wheel Arm repair/replacement procedures are found in TM 09599A-24/2, pages 4-906 through 4-910. Road wheel Hub Assembly repair/replacement procedures are found in TM 09599A-24/2, pages 4-801 through 4-807.

(7) ROAD WHEELS. Replace road wheels 100 percent. Check roadwheel alignment. If alignment is more than 3/8 inches, inspect other suspension components to determine cause of misalignment (Misalignment may be caused by bent or damaged road wheel arms). Repair/replace as required to obtain correct alignment. Alignment procedures are identified in TM 09599A-10/1, page 3-63. Road wheel replacement procedures are found in TM 09599-10/1, pages 3-64 through 3-65 and TM 09599A-24/2, pages 4-788 through 4-800.

(8) TRACK. Replace vehicle track 100 percent. Adjust track in accordance with track tension checks contained in TM 09599A-10/1. Track shoe replacement procedures are found in TM 09599A-10/1, pages 3-55 through 3-62. Track replacement procedures are found in TM 09599A-24/2, pages 4-815 through 4-821.

(9) VEHICLE BRAKES. Vehicle brakes shall function as intended without binding, dragging, or sticking. Vehicle brakes shall stop vehicle in a straight line without pulling to one side. Check operation of service brake valve. Repair/replace as required. Inspect brake chamber and brake linkage for loose, damaged, or missing hardware. Replace/repair as required. Adjust steer unit brake levers to obtain correct measurement. Brake system shall be free of any and all brake deficiencies contained in the Troubleshooting Guide in TM 09599A-24/2. Inspect vehicle parking brake for proper operation. Check parking brake lever and cable adjustment. Adjustment procedures are found in TM 09599A-24/2, Page 4-41. Parking brake shall operate as intended.

f. **EARTH MOVING COMPONENTS**. The M9 ACE contains two components that are identified as earth moving components. These components are the Ejector Assembly and Apron/Dozer Assembly. This section addresses the Scraper Cutting Edges also. Hydraulic components related to the operation of these assemblies are to be considered as part of the assembly they control. The earth moving components are to be cleaned, inspected, tested, adjusted, and repaired/replaced as required.

(1) EJECTOR ASSEMBLY. Perform preliminary troubleshooting procedures in TM 09599A-24/2 to test hydraulic operation of ejector assembly. Repair/replace defective components as required. Check ejector assembly for mechanical binding. Inspect ejector, rollers, and hydraulic cylinder for jamming, damage, wear, and alignment. Inspect ejector control lever stop is not restricting movement of control lever. Inspect ejector wear plates for damage. Adjust as necessary to achieve 0.25-in. (.64-cm) clearance from hull. Replace/repair damaged ejector components and remove any foreign material jamming ejector. Weld holes and cracks in the ejector assembly that

may allow dirt and other foreign material to enter the ejector cavities. Gouges that do not exceed 1/8 inch in depth and are less than six inches in length are allowed. Repair/replace ejector cylinder that leaks, contain damage, and galling or corrosion to cylinder rod. Inspect ejector stowage box for damage. Repair as required.

(2) CUTTING EDGES. Inspect cutting edges for wear and damage. If cutting edges have been turned, replacement of cutting edges is mandatory.

(3) APRON/DOZER ASSEMBLY. Perform preliminary troubleshooting procedures in TM 09599A-24/2 to test hydraulic operation of the apron/dozer assembly. Repair replace defective components as required. Check apron/dozer assembly for mechanical binding. Inspect and test hydraulic cylinder and hoses for damage and leakage. Repair/replace as required. Inspect apron/dozer assembly for structural damage such as holes, cracks, and breaks. Repair by welding is permitted. When welding is required, follow welding specification contained in TM 09599A-24/2. Gouges that do not exceed 1/8 inch in depth and are less than six inches in length are allowed. Inspect apron latch assembly for damage and missing parts. Repair/replace as required. Inspect extension assemblies and bits for damage and missing parts. Repair as required. Replace apron wear plates and side seals 100 percent. Inspect apron/dozer hinge bushings and pins for wear and damage. If only one set of bushings or pins require replacement, replace all pins and bushings.

g. **FUEL SYSTEM**. The fuel to power the engine is pumped out of the fuel tank by an engine-mounted fuel pump. The fuel pump is driven by the air compressor. Fuel is filtered before it reaches the engine by a fuel/water separator that is located under the fuel tank. Fuel may be shut off at the fuel tank by a shut off valve. Fuel is drained from the fuel/water separator by a drain valve located in the rear of the vehicle.

(1) The M9 ACE fuel system shall be inspected and tested for proper operation. Fuel leakage from hoses, lines, or fuel components are not permitted.

(2) Replace fuel filters 100 percent. Inspect water separators and fuel pump for damage, leakage, and proper operation. Clean, repair, replace separators and fuel pump as needed. Inspect filter, water separator, and fuel pump lines for damage that may restrict fuel flow or that may result in leakage after short use. Fuel line fittings shall not be rounded off or be in such a condition that will prevent them from being tightened to correct torque specifications. Repair/replace procedures are found in TM 09599A-24/2.

(4) Inspect fuel tank for cracks or leakage. Repair as necessary. Inspect fuel tank screen for damage. Repair/replace as necessary. Inspect fuel sender unit for correct operation. Repair/Replace as needed.

(5) Inspect fuel supply lines, both metallic and nonmetallic, for cracks or damage that may restrict fuel flow or may result in leakage after short use. Fuel line fittings shall not be rounded off or be in such a condition that will prevent them from being tightened to correct torque specifications. Repair/replace as necessary. Repair/replace procedures can be found in TM 09599A-24/2.

h. **AIR SYSTEM**. M9 ACE air system shall be inspected for and shall be free of any and all problems identified in the troubleshooting guide contained within TM 09599A-24/2. M9 ACE air

assembly contains the following subassemblies. These assemblies are to be inspected , tested, and replaced/repaired as required.

(1) Air Compressor. Air compressor shall be free of any and all problems identified in the troubleshooting guide. Repair/replacement procedures are found in TM 09599A-24/2.

(2) Air System Components. Air system components shall operate as intended. Air system components are the governor, safety valve, air reservoirs, service brake valve, trailer brake valve, trailer service brake couplings, and shutoff valve. These components are to be inspected, tested, adjusted, repaired, or replaced as per operational requirements contained in TM 09599A-24/2.

(3) Brake Chamber. Brake chamber shall operate as intended without binding or sticking. Brake chamber shall be inspected, tested, adjusted, repaired, or replaced as per operational requirements contained within TM 09599A-24/2.

(4) Inspect air lines, both metallic and nonmetallic, for cracks or damage that may restrict air flow or may result in leakage after short use. Air line fittings shall not be rounded off or be in such a condition that will prevent them from being tightened to correct torque specifications. Repair/replace as necessary. Repair/replace procedures can be found in TM 09599A-24/2.

i. **ENGINE COOLING SYSTEM**

(1) Inspect and test cooling system by pressurizing the system 5 PSI above the pressure marked on the radiator pressure cap. Check all connections and hoses for the cooling system for leakage. Cooling System shall retain a pressure reading of 5 PSI above pressure marked on radiator cap for at least five minutes. Loss of coolant is not permitted under the provisions of this SOW.

(2) Inspect radiator for cracks, leaks, bent fins, and clogging that will prevent air flow through radiator. Clean, repair or replace radiator as required. Reverse flush, clean, and inspect radiator core 100 percent. Straighten bent fins that can be straighten.

(3) Inspect water inlet manifold, thermostat housing, and water pump for leakage. Inspect water pump assembly for unusual noise that may indicate that the pump bearings require replacement. Repair/replace as required. Repair/replacement procedures are found in TM 09599A-24/2.

(4) Inspect engine oil cooler for proper operation and leakage. Remove coil assembly, clean, inspect, and replace as required. Repair/replace procedures are found in TM 09599A-24/2.

(5) Inspect fan assembly for breaks, bends, and missing rivets. Inspect fan assembly for missing bolts and washers. Repair/replace as required.

(6) Inspect fan shroud for breaks or cracks. Inspect fan shroud and guard for missing mounting hardware (nuts, bolts, washers, and brackets). Repair/replace as required.

(7) Inspect water pump drive assembly for damage. looseness, worn bearings, and correct function. Inspect mounting hardware for looseness, missing, or damage parts. Repair/replace as required.

(8) Replace hose clamps that shall not remain tight or can not be tightened. Replace coolant hoses 100 percent.

(10) Replace coolant. Antifreeze protection shall be to a temperature of -35 degrees Fahrenheit.

(11) Inspect transmission oil cooler for proper operation and leakage. Remove oil cooler assembly, clean, inspect, and replace as required. Repair/replace procedures are found in TM 09599A-24/2.

j. **HYDRAULIC SYSTEM**. The hydraulic system provides hydraulic pressure to energize the suspension system, operate the winch, ejector, apron assembly and bilge pump. Hydraulic system components are to be inspected, tested, and replaced/repaired as required. Inspection, testing, and repair/replacement procedures are contained in TM 09599A-24/2.
Samples of hydraulic oil should be drawn from reservoir using ISO Standard 4021 or an equivalent method of sampling. Oil is analyzed to determined if it is suitable for further use. If there is evidence of a grossly contaminated hydraulic system, caused by pump or motor failure, water contamination, or vandalism, hydraulic system shall be flushed and new oil and filters replaced.

NOTE:
Since hydraulic system flushing is expensive, time consuming, and results not totally assured, flushing should be done only when absolutely necessary.

(1) HYDRAULIC RESERVOIR. Inspect hydraulic tank assembly for damage, corrosion, and leakage. Inspect tank mounting hardware for looseness and missing components. Inspect hydraulic tank filler cap for correct fit and water tightness. Repair/replace reservoir and reservoir components as required.

(2) MAIN HYDRAULIC PUMP. Inspect hydraulic pump for proper operation. Inspect pump for looseness, damage, and leakage. Inspect pump for extreme heating, unusual noise, and poor performance. Inspect pump hose fittings for looseness, damage, and leakage. Repair/replace pump and pump components as required. Repair/replace procedures are found in TM 09599A-24/2.

(3) HYDRAULIC HIGH PRESSURE FILTERS. Replace filters 100 per cent. Inspect filter assemblies and filter guards to assure they are firmly mounted in their correct mounting position. Inspect filter housing hose adapters to assure they contain no damage or leakage. Repair/replace high pressure filter assemblies, filter guard, and hose adapters as required. Repair/replace procedures are found in TM 09599A-24/2.

(4) DIRECTIONAL CONTROL VALVE BANK. Hydraulic directional control valve bank shall be secured in its proper mounting position. No missing mounting hardware is allowed. Each control valve shall operate as intended. Replace leaking hose fittings if correct tightness will

not stop leakage under system operation pressure. Repair/replace control valves that do not operate as intended. Inspect control valve control bank operator control mechanical linkages to assure proper operation and adjustment. Repair/replace control valve bank and mechanical linkage as required. Repair/replace procedures are found in TM 09599A-24/2.

(5) HYDRAULIC MANIFOLDS. Inspect hydraulic manifolds for damage and leakage. Replace as required.

(6) COMPENSATING HYDRAULIC PUMP. Inspect compensating hydraulic pump for proper operation. Inspect pump for looseness, damage, and leakage. Inspect pump for extreme heating, unusual noise, and poor performance. Inspect pump hose fittings for looseness, damage, and leakage. Repair/replace pump and pump components as required. Repair/replace procedures are found in TM 09599A-24/2.

(7) MAIN HYDRAULIC ACCUMULATOR. Test main hydraulic accumulator in accordance with test procedures found in TM 09599A-24/2, pages 4-455 through 4-458. Replace accumulator as required. Repair/replace accumulator charge and gauge assembly that fails to function as intended. Repair/replacement procedures are found in TM 09599A-24/2.

(8) HYDRAULIC RETURN LINE FILTER. Replace filters 100 per cent. Inspect filter assembly to assure they are firmly mounted in their correct mounting position. Inspect filter housing hose adapters to assure they contain no damage or leakage. Repair/replace filter assembly and hose adapters as required. Repair/replace procedures are found in TM 09599A-24/2

(9) HYDRAULIC LINES AND HOSES. Hydraulic hoses shall contain no damage or leakage. Hose fittings shall be tighten as required. No missing hose mounting hardware (clamps, huts, bolts, and washers) is allowed. Metallic lines shall contains no flat spots or kicks that may restrict flow or eventually result in leakage. Nonmetallic lines shall contain no blisters or deformities to the outer covering. Stripped or rounded off fitting are not permitted. No excessive abrasion or scrubbing areas on outer surface of both the nonmetallic and metallic hoses and lines are permitted. Replace/repair hose and line assemblies as required.

(10) BILGE PUMP. Inspect, clean, and operational test vehicle bilge pump. Inspect hydraulic hoses and fittings for damage and leakage. Replace as required. Inspect discharge hose and hose clamps for damage. Replace hoses that contain rips, tears, or dry rot. Replace missing hose clamps and clamps that will not remain tighten. Replace pumps that do not function as intended. Clean or replace damage bilge pump screen.

k. **VEHICLE ELECTRICAL SYSTEM**

M9 ACE operator station contain gauges, meters, switches, and other various electrical components. These components shall be inspected, operational tested, repaired or replaced as required. Inspect all wiring harnesses, battery cables for corrosion, bent or missing pins, and ripped or torn insulation and tie wraps. Repair/replace all missing and bent pins. Repair of insulation less than four inches in length may be accomplished using electrical tape. Tears or rips in excess of four inches shall require installation of new conduit. Corrosion shall be removed from components. Upon removal of corrosion, if component does not function properly, replace component. Replace all damaged

battery cables. Replace any missing or damaged tie wraps. The following electrical systems shall be inspected and tested for proper operation.

(1) Inspect electrical panel gauges and meters for proper operation. Replace any electrical gauge or switch that does not function properly after assuring that the sending unit is not defective. Replace hour meters if nonfunctional.

(2) Inspect instrument panel warning lights. Replace warning lights that are not operational. Test warning light activation devises to assure they function correctly. Repair/replace as required.

(3) Inspect slaving receptacle for proper operation. Repair/replace as required.

(4) Inspect and test operate all switches, fuses, and circuit breakers. Replace electrical switches that do not operate as intended. Replace all relays, fuses, and circuit breakers that are not functioning properly or are blown out.

(5) Inspect all wiring harnesses. Replace any wiring that is frayed or broken. Electrical wiring with deteriorated or defective insulation shall be repair/replaced as required. Repair by splicing is acceptable when the wire use to make the splice is the same wire size and color. The wire splice joint shall be soldered and covered by heat shrinkable electrical insulation tubing shrunk to finished wire size and extending one inch beyond each side of the spliced joint.

(6) Vehicle batteries shall be replaced 100 percent with wet, fully charged batteries. All battery to ground cable/straps shall be replaced. Battery clamps shall be clean and securely fasten to battery post. No cracks are allowed. Battery box shall be free of corrosion and damage. Clean and repair as needed. Battery hold down devices shall operate as intended. Repair/replace as required.

(7) Inspect the headlights, blackout lights, turn signals, rear composite lights, flood lights, reflectors, and instrument panel lights for cracks, corrosion, moisture, broken and blown bulbs. Replace any headlights, blackout lights, turn signals, flood lights, side marker lights reflectors, and instrument panel lights that are blown out or broken.

(8) Inspect and operational test cab heater fan assembly. Inspect, clean, and/or replace fan blades and guards as required. Inspect fan motor for proper operation. Motors shall operate as intended without overheating or locking up. Replace motor as required.

(9) All electrical components identified in TM 09599A-24/2, pages 4-52 and 4-53 shall function as intended. Components that do not function as intended shall be repaired or replaced. Repair/replace procedures are found in TM 09599A-24/2, pages 4-54 through 4-219.

l. **ENGINE COMPARTMENT FIRE EXTINGUISHER**. Inspect engine compartment fire extinguishers to assure extinguishers contain correct charging. Replace extinguishers that are not property charged. Inspect hoses assemblies, hose couplings and fittings, nozzles and mounting hardware. Hoses shall be free of any and all damage that may prevent proper operation. Nozzle assemblies shall be clean and free of foreign material that will prevent proper operation. Fire extinguisher shall be firmly secured in their mounting bracket and mounting brackets firmly secured

to the engine bulkhead. Fire extinguisher control cable shall be operational and firmly secured in its proper position. Inspect access cover to assure proper fit and seal. Repair/replace as required.

m. **NBC FILTER ASSEMBLY**. Inspect NBC Filter Assembly housing for damage. Replace filters 100 percent.

NOTE

General safety instructions for handling filters are contain in TM 09599A-24/2, page 4-1177. These instructions are provided as a WARNING in subject TM. All precautions pertaining to this warning shall be strictly observed. Failure to comply may result in servere injury or death to personnel.

Replace filer housing components if bent or rusted through and will not seal. Replace filter cover door seals 100 percent. Inspect air hoses for damage such as rips, tears, corrosion and dry rot. Replace hoses as required. Inspect hose clamps to assure none are missing and all clamps will maintain tight. Test filter switch for proper operation. Repair/replace as required.

n. **RADIO EQUIPMENT**. Inspect, clean, and test radio mounting frame, radio equipment box, electrical harnesses, radio cables, antenna harness, and the antenna base.

NOTE:

M9 ACEs provided for IROAN under provisions of this SOW will not be provided with complete radio systems. Radio equipment listed below will be provided or considered as missing.

(1) RADIO BASE, MOUNTING. The radio base shall be securely mounting in the radio equipment box. Base shall be free of any and all damage and corrosion that may prevent proper operation of the radio. Repair/replace base as required.

(2) RADIO EQUIPMENT BOX. Radio equipment box shall be firmly secured to vehicle hull. Equipment box shall contain no damage that will allow water or other material from entering equipment box and operators position. Replace/repair as required.

(3) ELECTRICAL CABLE ASSEMBLIES AND WIRING HARNESSES. Inspect electrical cables and wiring harnesses for damage. Repair/replace as required. Inspect cable and harness clamps, grommets, connectors, and connector mounting brackets for damage or missing components. Replace as required.

(4) ANTENNA HARNESS AND BASE. Inspect antenna harness for damage. Antenna harness that contains rips and tears in the outer cable insulation shall be replaced. Inspect cable clamps, grommets, connectors and brackets for damage and missing components. Replace as required. The radio antenna harness shall not be spliced. Replace cable as required. Inspect antenna base to assure base is firmly secured to vehicle hull. Inspect harness connector for damage and correct fit.

o. **HATCH ASSEMBLY, DRIVER'S**. Inspect hatch assembly. No damage, missing parts, crack periscope, or damaged hinges are allowed. Inspect locking mechanism for missing or broken

parts. Check locking mechanism for correct operation. Inspect hatch for proper locking in fully closed and open position. Inspect hatch mounting hardware to assure hatch is securely mounted to vehicle hull.

p. **OPERATORS SEAT**. Inspect operators seat. No cushion damage is allowed. Inspect for completeness, proper operation and damage. Repair/replace as required.

q. **HULL, HULL ASSEMBLIES AND PLATES.**

(1) Inspect hull sides for damage. Weld cracks are not allowed. Gouges that do not exceed 1/8 inch in depth and are less than six inches in length are allowed.

(2) Inspect forward panel of front track well for damage. Measure depth of wear caused by track, depth of wear must not exceed ½ inch.

(3) Inspect track wear plates that are bolted to the hull for damage. None Allowed. Measure depth of wear caused by track, depth of wear must not exceed 1/16 inch.

(4) Inspect armor plates for damage and missing components. Replace damage plates and missing components.

(5) Inspect rear door for damage. Open and close door to ensure proper movement. Check door latch for damage and proper operation. Door shall contain no damage and shall function as intended. Replace door seal 100 percent. Repair/replace door as required.

(6) Inspect pintle hook for damage and proper operation. Rotate pintle hook to ensure freedom of movement. Ensure the pintle will open and close. No binding is allowed. Repair, replace, and lubricate as required.

(7) Inspect rear handles for bends and damage. Repair/replace handles as required.

(8) Inspect rear step assembly for damage. None allowed. Replace as required.

(9) Inspect hull drain valve for cracks, dents, damage, and missing parts. Ensure valve is functional. Repair/replace as required.

(10) Inspect bottom hull access panels for gouges. Gouges that do not exceed 1/8 inch in depth and are less than six inches in length are allows. Replace damaged and missing plates and plate hardware as required.

(11) Inspect bowl floor and sides of bowl for rips and tears. None allowed. Gouges that do not exceed 1/8 inch in depth and are less than six inches in length are allowed. Inspect areas of bowl where ejector guide rollers roll along hull. Depth of wear on hull must not exceed 1/8 inch. Inspect for bulges in the areas of bowl where ejector guide rollers roll along hull. Bulges must be repaired by cutting out bulge and welding in a new piece of aluminum. Inspect bowl debris shield. Shield shall contain no damaged. Gouges that do not exceed 1/8 inch in depth and are less than six inches in length are allowed.

(12) Inspect engine compartment access doors and radiator grilles for damage. Replace doors and grilles that are damaged and are not operational.

(13) Inspect hull assembly for any missing brackets, supports, plates, and flooring. Repair/replace as required.

r. **WINCH ASSEMBLY**. Inspect, clean, and operational test winch assembly to include winch controls and hydraulic hoses. The winch assembly (drum and gear housing) requires replacement if damage and will not operate as intended. Repair of the winch assembly is confined to the following assemblies and task.

(1) WINCH MOTOR. Inspect and operational test winch motor. Replace winch motor that do not function as intended.

(2) WINCH BRAKE VALVE. Inspect and operational test brake valve. Replace brake valves that do not function as intended.

(3) HYDRAULIC HOSES. Inspect hydraulic supply hoses for cracks or damage that may restrict flow or may result in leakage after short use. Hydraulic hose fittings shall not be rounded off or be in such a condition that will prevent them from being tightened to correct torque specifications. Repair/replace as necessary. Repair/replace procedures can be found in TM 09599A-24/2.

(4) WIRE ROPE ASSEMBLY. Wire rope assembly shall meet specification contained in MCO P11262.2A, Section 2003.

(5) WINCH SHIFT CONTROL ASSEMBLY. Inspect and operational test winch shift control assembly. Inspect and test control level lock assembly. Repair as required. Inspect winch control cable to ensure proper operation without binding. Check jam nut at control assembly to ensure nut is tight and secures cable to assembly as intended. Adjust control assembly using procedures contained in TM 09599A-24/2, page 4-952.

(6) WINCH DRUM COVER. Inspect cover for missing mounting hardware. Cover may contain bulges caused by improper wire rope retrieval. Cover shall not contain bulges that are cracked or that are worn through. Covers are required to be securely fastened in its proper mounting position. Any damage to the cover that prevents correct mounting is not acceptable. Replace cover plate as required.

s. **RUST PROOFING AND PAINTING (Exterior/Interior)**

All vehicles shall be rust proofed as required. Rust proofing shall be in accordance with following procedures.

(1) Clean area with either steam or high pressure water to remove dirt and loosen corrosion.
(2) Treat affected (corroded) areas with phosphoric fog.

(3) Clean in accordance to procedure 1.

(4) Apply MIL-C-81309 TYPE I, a water displacing corrosion inhibitor to the affected areas.

(5) Prime and paint per latest edition of TM 4750-15/1.

Do not steam clean operators station. Steam in this area will cause sereve damage to the vehicle control panel, heater assembly, operators seat and other similar components.

Procedures for corrosion prevention and control are in accordance with TM 3080-34.

All exterior and interior surfaces of the M9 ACE shall be painted in accordance with instructions provided in TM 09599A-24/2, Section IV. Paint color shall be Desert Sand or Green Camouflage. Color of individual M9 ACEs will be identified by the Weapon System Manager and/or their representative(s) upon induction into the IROAN cycle.

t. **DATA PLATES AND DECALS.**

DATA PLATE. Each IROAN M9 ACE shall have an a IROAN data plate affixed next to the original vehicle data plate. The data plate shall meet the requirements of MIL-STD-130 and TM 09599A-24/2. Replace all data plates and decals that are missing and illegible. IROAN data plates shall be prepared by the Contractor and contain the following information:

VEHICLE SERIAL NO_____
REPAIRED IN ACCORDANCE WITH SOW-01-837-2-09599A-2/1.
CONTRACTOR_____
DATE_____
HOUR METER READING AT TIME OF REBUILD_____

NOTE: Hour meters on vehicles IROANed under provisions of this SOW shall not be turned back to zero.

3.3.3. **PHASE III - INSPECTION, TESTING AND ACCEPTANCE.**

a. The Contactor shall be responsible for preservation and packaging of items being repaired under the terms of this statement of work. Items being prepared for long term storage shall be Level A in accordance with ATDP-2241. Items being prepared for domestic shipment, immediate use, or shipment to overseas destinations with the exception of Maritime Prepositioned Forces (MPF), shall be Level B, Drive-on/ Drive-off. Items being prepared for overseas shipment shall have a label affixed which reads, "NOT FOR WEATHER DECK STOWAGE." Items scheduled for shipment to MPS shall be Level B, MPS Modified Drive Away.

b. The Contractor shall be responsible for conducting required tests and shall ensure all necessary personnel are available to complete the final acceptance. Acceptance test shall be held at the Contractor's facility. Weapon System Manager and/or their representative(s) shall be given a minimum of two weeks notice piror to beginning acceptance testing. The test area shall be cleared of all equipment part, components, ect, not required for the test.

RECORD JACKET: All major equipment or components serial numbers that are replaced during IROAN are to be identified by the Contractor to be recorded in the record jacket of the M9 ACE (This include engines, transmissions, etc.). Information will list the M9 ACE serial number, name of equipment/component(s) replaced, serial number of deficiency equipment/component(s), serial number of replacement equipment/component(s), and if the equipment/component(s) is new or rebuilt.

c. The Contractor shall be responsible for correcting any deficiencies identified during inspection/testing. Weapon System Manager and/or their representative(s) may require the Contractor to report tests or portions thereof, if the original tests fail to demonstrate compliance with this SOW.

d. M9 ACE shall be lubricated and greased in accordance with the vehicle lubrication chart contained within TM 09599A-10/1, Section 3. All coolant and oil levels shall be full to proper levels.

e. Vehicle Markings. Registration numbers and other markings shall be applied in accordance with TM 4750-15/1. Lifting and tie down attachments shall be identified with one inch letters indicating "SLING POINT" or "TIE DOWN."

3.3.4. **PHASE IV - PACKAGING HANDLING STORAGE AND TRANSPORTATION (PHS&T).**

a. The Contactor shall be responsible for preservation and packaging of items being repaired under the terms of this statement of work. Items being prepared for long term storage shall be Level A requirements of ATDP-2241. Items scheduled for domestic shipment, immediate use, or shipment or overseas destinations with the exception of Maritime Prepositioned Forces (MPF), shall be Level B, Drive-on/ Drive-off. Items being prepared for overseas shipment shall have a label affixed which reads, "NOT FOR WEATHER DECK STOWAGE." Items scheduled for shipment to MPS shall be Level B, MPS Modified Drive Away.

b. The Terms Drive-on/Drive-off and MPF Modified Drive Away are defined as follows:

(1) Drive-on/Drive-off: Batteries will be hot and disconnected from vehicle electrical system. Terminals and leads will be taped. Fuel tank will be filled ¼ full. The air intake system, exhaust and brake systems, drive-train and gauges are to be depreserved.

(2) MPS Modified Drive Away: Batteries shall be hot and connected to vehicle electrical system. Fuel tank shall filled ¾ full of JP5. The air intake system, exhaust and brake systems, drive-train and gauges are to be depreserved. Fire extinguisher bracket and seats (all) shall be installed.

c. Marking shall be in accordance with MIL-STD-129.

d. The Marine Corps 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 equipment to and from the contractor.

3.4 CONFIGURATION MANAGEMENT

3.4.1 CONFIGURATION STATUS ACCOUNTING (CSA)

a. The Contractor shall determine the application status of approved configuration changes by visual inspections to the extent possible. The government will identify the configuration changes to be inspected by furnishing a Configuration Checklist (Appendix C) to the Contractor. The Contractor shall use one checklist for each M9 ACE to record the inspection findings along with other required data.

b. The Contractor shall record serial numbers of the assemblies listed on the Configuration Checklist. The Contractor shall record the information on the same form that was used to record the application status of configuration changes.

3.4.2 **CONFIGURATION CONTROL.** The Contractor shall apply configuration control procedures to established configuration item. The contractor shall not implement configuration changes to an item's documented performance or design characterists without receiving prior written authorization. The baseline configuration has been defined by written procedures or material contained in manuals, standards, instructions or engineering drawings. If it is necessary to depart from the authorized configuration, the Contractor shall prepare and submit a Request for Deviation or Request for Waiver using MIL-STD-973 (paragraphs 5.4.3 and 5.4.4., and Appendix E) as guidance.

3.5 GOVERNMENT FURNISHED EQUIPMENT (GFE)ACCOUNTABILITY/ GOVERNMENT FURNISHED MATERIEL (GFM).

GFE is government owned equipment authorized by contract for use by a commercial/government contractor. It is neither consumed during production nor incorporated into any product. GFM is materiel furnished to a contractor that will be consumed during the course of production or incorporated into product being manufactured/remanufactured under a contract/ statement of work. In the event the Marine Corps does have GFE/GFM requirements, the Management Control Activity (MCA/Code 827-2), Marine Corps Logistics Bases, Albany, Georgia, will coordinate required GFE and will maintain a central control on Marine Corps assets in the Contractor's possession. The MCA will forward a GFE Accountability agreement to the Contractor Facility for signature to establish a chain of custody and property responsibilities for Marine Corps assets. The Contractor shall report receipt of all GFM and report consumption of GFM to the MCA.

3.6 CONTRACTOR FURNISHED MATERIEL (CFM).

The Marine Corps has adopted the Navy's procedures regarding Contractor Furnished Materiel (NAVICPINST 4491.2A). In the event that Contractor Furnished Materiel is required for repair parts, the contractor shall requisition through the DOD Supply System. DOD 4000.25-1-M, (MILSTRIP) Chapter 11 authorizes contractors to requisition through the DOD Supply System.

3.7 QUALITY ASSURANCE PROVISIONS

The performances of the Contractor and the quality of work delivered, material provided and documents written shall be subject to in-process review and inspection by the Weapon System Manager and/or their representative(s) during contract performance. Inspection may be accomplished at any work location. Authorized Weapon System Manager representative(s) shall be permitted to observe the work/task accomplishment or to conduct inspections at all reasonable hours within contractor normal working hours. Acceptance tests shall be held in-plant. Inspection by Weapon System Manager and/or their representative(s) of all acceptance tests plans, materials and associated lists furnished hereunder does not relieve the Contractor from any responsibility regarding defects or other failures to meet contract requirements which may be disclosed prior to final acceptance. The commerical/government contractor will not be subject to surveillance if they hold a 2nd or 3rd party certification that they are either qualified or certified as ISO-9002 compliant. The discovery of non-conforming product or service shall lead to the commerical/government oversight listed above until they are requalified or re-certified by a 2nd or 3rd party auditing service.

The Contractor shall provide and maintain a Quality System that as a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9002-1994 Quality System Model for Quality Assurance in Production, Installation, and Servicing. The Contractors work shall be subject to in-process reviews and inspections for compliance with Quality Systems by Weapon System Manager and/or their representative(s). Noncompliance with procedures resulting in degraded quality of work may result in a stop-work order requiring action by the contractor to correct work performance and to enforce compliance with quality assurance procedures or face contract termination. Notwithstanding such Weapon System Manager and/or their representative's inspection, it shall be the Contractor responsibility to ensure that the system meets the performance requirements delineated and addressed in the M9 ACE TM 09599A-24/2 and this SOW.
Quality assurance operations performed by the Contractor shall be subject to the Weapon System Manager and/or their represenative(s) verification at any time. The Weapon System Manager and/or their representative(s) verification can include, but not limited in any matter, to the following:

a. Inspection of material, products, assemblies, and documentation to assess compliance with quality standards.

b. Surveillance of operations to determine that quality assurance, practices, methods, and procedures are being properly applied.

c. Inspections of deliverable products to assure compliance with all requirements of the M9 ACE, this SOW, and applicable documents used herein.

d. Failure of the contractor facility to promptly correct deficiencies discovered, shall be a reason for suspension of acceptance until corrective action has been made.

3.8 **ACCEPTANCE**

The performance of the Contractor and the quality of work delivered, including all equipment furnished and documentation written or compiled, shall be subject to in process review and inspection during performance. Inspection may be accomplished in plant or at any work site or location, and Marine Corps representatives shall be permitted to observe the work or to conduct

inspection at all reasonable hours. Final inspection and acceptance testing shall be conducted at the Contractor's facility. Finally acceptance shall be conducted on 100 percent of items to verify that the units meet all requirements. M9 ACEs IROANed under the provisions of this SOW shall be accomplished in accordance with TM 09599A-24/2 and this SOW.

3.9 **REJECTION**

Failure to comply with any of the specified requirements listed herein shall be reason for rejection by the Weapon System Manager and/or their representative(s). The Contractor at no additional cost to the Marine Corps provide the following:

a. Develop an approach for modification or correction of all deficiencies.

b. On approval of a documented approach, the Contractor shall correct the deficiencies and repeat verification until acceptable compliance with acceptance test procedures is demonstrated.

4.0 **REPORTS**

The following reports shall be provided to the Weapon System Manager and/or their representative. Reports shall be forward to: ATTN: Weapon System Manager (Code 837-2), 814 Radford Blvd, Marine Corps Logistic Bases, Albany Ga., 31704-1128.

4.1 Pre-Induction Checklist. The Contractor shall complete the Pre-Induction Checklist (Appendix A) for each M 9 ACE IROANed. This document shall be available during final acceptance testing. One copy of each document shall be provided to the Weapon System Manager and/or their representative(s) after final acceptance of the M9 ACE, or upon request.

4.2 Final Inspection Checklist. The Contractor shall complete the Final Inspection Checklist (Appendix B) for each M9 ACE IROANed. This document shall be available during final acceptance testing. One copy of each document shall be provided to the Weapon System Manager/or their representative(s) after final acceptance of the M9 ACE, or upon request.

4.3 Configuration Checklist. The Contractor shall complete the Configuration Checklist (Appendix C) for each M9 ACE IROANed. This document shall be available during final acceptance testing. One copy of each document shall be provided to The Weapon System Manager and/or their representative(s) after final acceptance of the M9 ACE, or upon request.

IROAN
PRE-INDUCTION CHECKSHEETS
ARMORED COMBAT EARTHMOVER (ACE)
MODEL M9

Vehicle NSN: 2350-00-808-7100
Vehicle Serial Number: _____
Vehicle Hours: _____
Use this sheet to record operational checkout results. Perform the operational checks before installing any test equipment.

ARMORED COMBAT EARTHMOVER, (ACE) MODEL M9	SAT	MISSING	SERVICE	ADJUST	REPAIR	REPLACED	MODIFIED	REMARKS
1. **Engine Assembly** Condition Operation Leakage **Mounting** Screws Washers Nuts **Air System** Air Filter Assembly Filter Hose and Clamps Filter **Exhaust System** Muffler Exhaust Pipe and Clamps **Paint** Spec Conformance Coverage **Lubrications** Application and type Level **Oil Analysis Results** **Pass _____ Fail _____** □								
2. **Transfer Case** Condition Operation								

Leakage **Mounting** Screws Washers Nuts **Paint** Spec Conformance Coverage **Lubrication** Application and Type Level								
3. **Transmission** Operation Condition Leakage **Mounting** Screws Washers Nuts **Paint** Spec. Conformance Coverage **Lubrication** Application and Type Level								
4. **Drive Shaft** Operation Condition								
5. **Steer Unit** Operation Condition Leakage **Mounting** Screws Washers Nuts **Paint** Spec. Conformance Coverage **Lubrication** Application and Type Level								
6. **Final Drives** Operation Condition Leakage								

Mounting Screws Washers Nuts **Paint** Spec. Conformance Coverage **Lubrication** Application and Type Level								
7. **Drive Sprocket Assembly** Condition Operation **Mounting** Screws Washers Nuts **Paint** Spec. Conformance Coverage **Components:** Inter Sprocket Outer Sprocket Hub **Sprocket wear within limits of IROAN Standards?** **YES _____ NO _____**								
8. **Rotary Actuators** Condition Operation Leakage **Mounting** Screws Washers Hull thread Inserts								
9. **Accumulators** Operation Condition Leakage Mounting **Torque Setting:_____lb-ft** **Charge: _____psi**								
10.**Track AdjustingCylinders** Operation Condition Leakage Mounting								

11. **Bump Stop/ Bump Cylinder Assembly**. Condition Operation Leakage Mounting								
12. **Adjusting Flange** Condition Operation Mounting								
13. **(a) Roadwheel Arms** Condition Operation Leakage Mounting **(b) Hub Assembly** Condition Operation Leakage Mounting								
14. **Roadwheels** Condition Mounting Alignment **Roadwheels Meets Operational Requirement of IROAN?** **YES: _____ NO: _____**								
15. **Track Assembly** Condition Operation Mounting **Track Meets Operational Requirements of IROAN?** **YES: _____ NO: _____**								
16. **Vehicle Brake System** Condition Operation Adjustment								
17. **Ejector Assembly** Condition Operation **Wear Plates Within Operational Standards of**								

IROAN? **YES: _____ NO: _____**								
18. **Cutting Edges** Condition **Cutting Edges Within Operational Standards of IROAN?** **YES: _____ NO: _____**								
19. **Apron/Dozer Assembly** Condition Operation **Apron/Dozer Assembly Within Operational Standards of IROAN?** **YES: _____ NO: _____**								
20. **Vehicle Fuel System** Condition Operation Leakage Mounting **Components**: Fuel Tank Fuel/Water Separator Shutoff Valve Hoses and Lines Condition Leakage Mounting								
21. **Vehicle Air System** Condition Operation Leakage Mounting **Components:** Air Compressor Valves Governor Reservoirs Safety Valve Brake Chamber Hoses and Lines Condition Leakage Mounting								
22. **Engine Cooling System** Condition								

Operation Leakage **Components:** Radiator Water Inlet Manifold Water Pump Engine Oil Cooler Fan Assembly Fan Shroud and Guards Water Pump Drive Assy Hoses and Clamps Transmission Oil Cooler Coolant								
23 **Hydraulic System** Condition Operation Leakage Mounting **Components:** Hydraulic Reservoir Main Hydraulic Pump High Pressure Filters Control Valve Bank Hydraulic Manifolds Compensating Pump Accumulator Return Filter Assy Bilge Pump Hoses and Lines Condition Leakage Mounting								
24. **Vehicle Electrical System** Condition Operation Mounting **Electrical Components identified in TM 09599A-24/2,pages 4-52 through 4-53 shall be functional tested and included as part of the Pre-Induction Checksheets.**								
25. **Engine Compartment Fire Extinguisher System.** Condition Mounting								

Hoses and Lines Control Assembly **Correct Charge on System?**								
26. **NBC Filter Assembly** Condition Operation								
27. **Radio Equipment** Condition Operation Mounting **Components:** Radio Base Equipment Box Electrical Cables Antenna Harness and Base								
28. **Hatch Assembly** Condition Operation Mounting **Paint** Spec. Conformance Coverage								
29. **Operators Seat** Condition Operation □								
30. **Hull, Hull Assemblies and Plates**. Condition Operation Mounting **Components:** Hull Front Track Well Track Wear Plates Armour Plates Rear Door Pintle Hook Rear Handles Hull Drain Valves Bottom Hull Access Panels Bowl Floor Engine Compartment								

31. **Winch Assembly** Condition Operation Mounting **Components:** Winch Motor Winch Brake Valve Wire Rope Assembly Winch Shift Control Assembly Cover Assembly Hoses and Lines Condition Leakage Mounting **Wire Rope meets requirements of MCO P11262.2?** **YES:_____ NO:_____**								
32. **Vehicle Paint** Spec. Conformance Coverage								
33. **Vehicle Data Plate and Decals**								

Additional Remarks:

FINAL INSPECTION CHECKLIST
ARMORED COMBAT EARTHMOVER (ACE)
MODEL M9

Vehicle NSN: 2350-00-808-7100
Vehicle Serial Number: _____
Vehicle Hours: _____

ARMORED COMBAT EARTHMOVER (ACE) MODEL M9	SAT	SERVICED	TESTED	LUBRICATED	UNSAT	REMARKS
1. **Engine Assembly** Condition Operation Leakage **Mounting** Screws Washers Nuts **Air System** Filter Housing Hose and Clamps Filters **Exhaust System** Muffler Exhaust pipe and Clamps **Paint** Spec. Conformance Coverage **Lubrication** Application and Type Level **Oil Filters Replaced 100 Per Cent? YES:_____ NO: _____** **Air Filters Replaced 100 Per Cent? YES: _____ NO: _____** □						
2. **Transfer Case** Condition						

Operation Leakage **Mounting** Screws Washers Nuts **Paint** Spec. Conformance Coverage **Lubrication** Application and Type Level						
3. **Transmission** Operation Condition Mounting Leakage **Paint** Spec. Conformance Coverage **Lubrication** Application and Type Level						
4. **Drive Shaft** Condition Operation Mounting Lubrication						
5. **Steer Unit** Operation Condition Mounting Leakage **Paint** Spec. Conformance Coverage **Lubrication** Spec. Conformance Level **Steer Unit oil replaced 100 Per Cent? YES: _____ NO: ____**						
6. **Final Drives** Operation Condition Leakage Mounting						

Paint Spec. Conformance Coverage **Lubrication** Application and Type Level **Final Drive Oil Replaced 100 Per Cent? YES: ____ NO: ___**						
7. **Drive Sprocket Assembly** Condition Operation Mounting Leakage **Paint** Spec. Conformance Coverage **Sprocket Wear within limits of IROAN Specifications? YES: _____ NO: _____**						
8. **Rotary Actuators** Operation Condition Mounting Leakage **No loose hull threaded inserts are present and all mounting bolts are tight and none missing.**						
9. **Accumulators** Operation Condition Mounting Leakage **Torque Setting: _____ lb-ft** **#4 Rear; R_____, L_____** **#1 Front, R_____, L_____** **Charge: _____ psi** **#4 Rear, R_____. L_____** **#1 Front, R_____, L_____**						□
10. **Track Adjusting Cylinders** Operation Condition Mounting Leakage						
11. **Bump Stop/Bump Cylinder Assembly**						

Operation Condition Mounting Leakage **Hydraulic Pressure at Bump Stop. _____ PSI.** **Hydraulic Flow Rate. _____**						
12. **Adjusting Flange** Operation Condition Mounting Leakage **Paint** Spec. Conformance Coverage						
13. **(a) Roadwheel Arms** Operation Condition Mounting Leakage **(b) Hub Assembly** Operation Condition Mounting Leakage **Paint** Spec. Conformance Coverage **Lubrication** Application and Type						
14. **Roadwheels** **Roadwheels Replaced 100 Per Cent? YES: _____ NO: ____** **Roadwheel Alignment Correct**.						
15. Track Assembly **Track Assembly Replaced 100 Per Cent? YES: ____ NO: ____**						
16. **Vehicle Brake System** **Vehicle Brakes performs free of any and all deficiencies identified in the Trouble Shooting Chart in TM 09599A-24/2.**						
17. **Ejector Assembly** Condition Operation						

Mounting **Paint** Spec. Conformance Coverage **Lubrication** Application and Type **Wear Plates Are Within Operational Standards of This IROAN?** **YES: _____ NO: _____**						
18. **Cutting Edges** Condition **Paint** Spec. Conformance Coverage **Cutting Edges Are Within Operational Standards of This IROAN?** **Cutting Edges Required Turning? YES: _____ NO: ___**						
19. **Apron/Dozer Assembly** Condition Operation Mounting **Paint** Spec. Conformance Coverage **Apron/Dozer within Operational Standards of This IROAN?** **YES:_____ NO: _____** **Wear Plates and Side Seals Replaced 100 Per Cent?** **YES: _____ NO: _____** □						
20. **Vehicle Fuel System** Operation Condition Mounting Leakage Hoses and Lines **Fuel Filters Replaced 100 Per Cent? YES: ____ NO: ____**						
21. **Vehicle Air System** Condition Operation Leakage						

Hose and Lines **Components** Air Compressor Valves Governor Safety Valve Brake Chamber Hoses and Lines						
22. **Engine Coolant System** Operation Condition Leakage **Components** Radiator Water Inlet Manifold Water Pump Engine Oil Cooler Transmission Cooler Fan Assembly Fan Shroud and Guards Hose and Lines **Coolant Replaced 100 Per Cent?** **YES: _____ NO: _____** **Freeze Protection _____ Deg**						
23. **Hydraulic System** Condition Operation Leakage Mounting **Components** Hydraulic Reservoir Main Hydraulic Pump High Pressure Filters Control Valve Bank Hydraulic Manifolds Compensating Pump Accumulator Return Filter Assembly Bilge Pump Hoses and Lines **Paint** Spec. Conformance Coverage **Hydraulic Filters Replaced 100 Per Cent? YES: ___ NO: ___**						
24. **Vehicle Electrical System**						

Condition Operation Mounting .**Vehicle Electrical Components Function as Intended With No Deficiencies. YES: ___ NO: __**						
25. **Engine Compartment Fire Extinguisher System** Condition Mounting **Paint** Spec. Conformance Coverage **Extinguisher Charge:** **# 1 _____** **# 2 _____**						
26. **NBC Filter Assembly** Condition Operation **Paint** Spec. Conformance Coverage **Filters Replaced:** **YES: ____ NO: _____**						
27. **Radio Equipment** Condition Operation Mounting **Components:** Radio Base Equipment Box Electrical Cables Antenna Harness and Base **Paint** Spec. Conformance Coverage						
28. **Hatch Assembly** Condition Operation Mounting Lubrication **Paint** Spec. Conformance Coverage **Hatch Cover Open Lock**						

Mechanizm Functions as Intended? **Hatch Cover Closed Lock Mechanizm Function as Intended?** **Hatch View Blocks are Clear and Free of Cracks?**						
29. **Operator Seat** Operation Condition						
30. **Hull, Hull Assemblies and Plated** Condition Operation Mounting **Paint** Spec. Conformance Coverage **Components** Hull Front Track Well Track Wear Plates Armor Plates Rear Door Pintle Hook Rear Handles Hull Drain Valves Bottom Hull Access Panels Bowl Floor Engine Compartment **Seal on Rear Door Replaced?** **YES: ____ NO: ____**						
31. **Winch Assembly** Operation Condition Leakage Mounting **Paint** Spec. Conformance Coverage **Lubrication** Application and Type Level **Components:** Winch Motor Winch Brake Valve Wire Rope Assembly						

Winch Shift Control Cover Assembly Hoses and Lines **Wire Rope Meets MCO P11262.2 Requirements? YES: ____ NO: ____** **Shift Assembly Correctly Adjusted? YES: ___ NO____**						
32. **Vehicle Paint** Spec. Conformance Coverage						
33. **Vehicle Data Plate and Decals.** **IROAN Data Plate Installed? YES: _____ NO: _____**						
34. **Vehicle Lubrication** Application and Type Level **Vehicle Lubricated in Accordance with Lubrication Chart Contained in TM 0599A-10/1? YES: _____ NO: _____**						

Additional Remarks:

CONFIGURATION CHECKLIST
ARMORED COMBAT EARTHMOVER (ACE). MODEL M9

VEHICLE:

Vehicle OEM Serial Number_____

Marine Corps Registration Number _____

OEM Model Number_____

Vehicle Hours At Pre-Induction _____

VEHICLE ENGINE:

Original Vehicle Engine Serial Number _____

Engine Required Replacement YES_____ NO_____

Replacement Engine Serial Number _____

VEHICLE TRANSMISSION:

Original Vehicle Transmission Serial Number _____

Transmission Required Replacement YES_____ NO_____

Replacement Transmission Serial Number _____

VEHICLE STEER UNIT:

Original Vehicle Steer Unit Serial Number _____

Steer Unit Required Replacement YES_____ NO_____

Replacement Steer Unit Serial Number _____

APPROVED CONFIGURATION CHANGES:

There are no approved configuration changes applicable to this IROAN Statement of Work.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated 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 the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ OTHER X

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
ACE, Model M9		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A002	Request For Waiver	Configuration Management	
			18. ESTIMATED TOTAL PRICE

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-CMAN-80641B	SOW 3.4.2	MCLBA (825)

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	ASREQ	SEE BLK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**

16. REMARKS

Blk 4 - Contractor format using .doc or .pdf software applications is authorized.

Blks 10 & 12 - RFWs shall be submitted to obtain authorization to deliver nonconforming material which does not meet prescribed configuration documentation.

RFWs will be reviewed and disposition determined within 30 calendar days upon receipt by the Government.

RFWs shall be transmitted via E-Mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil

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a. ADDRESSEE	b. COPIES		
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MCLBA (825-2)	0	1	0
15. TOTAL →	0	1	0

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Carla Pettis	FEB 11 2000	James C. Johnson	02/25/00

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER X

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
ACE, Model M9		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A001	Request For Deviation	Configuration Management	

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-CMAN-80640B	SOW 3.4.2	MCLBA (825)	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT		ASREQ	SEE BLK 16

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
A		

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
MCLBA (825-2)	0	1	0
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G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Cobb Pitts	2-10-00	James C. Adams	2/25/00

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