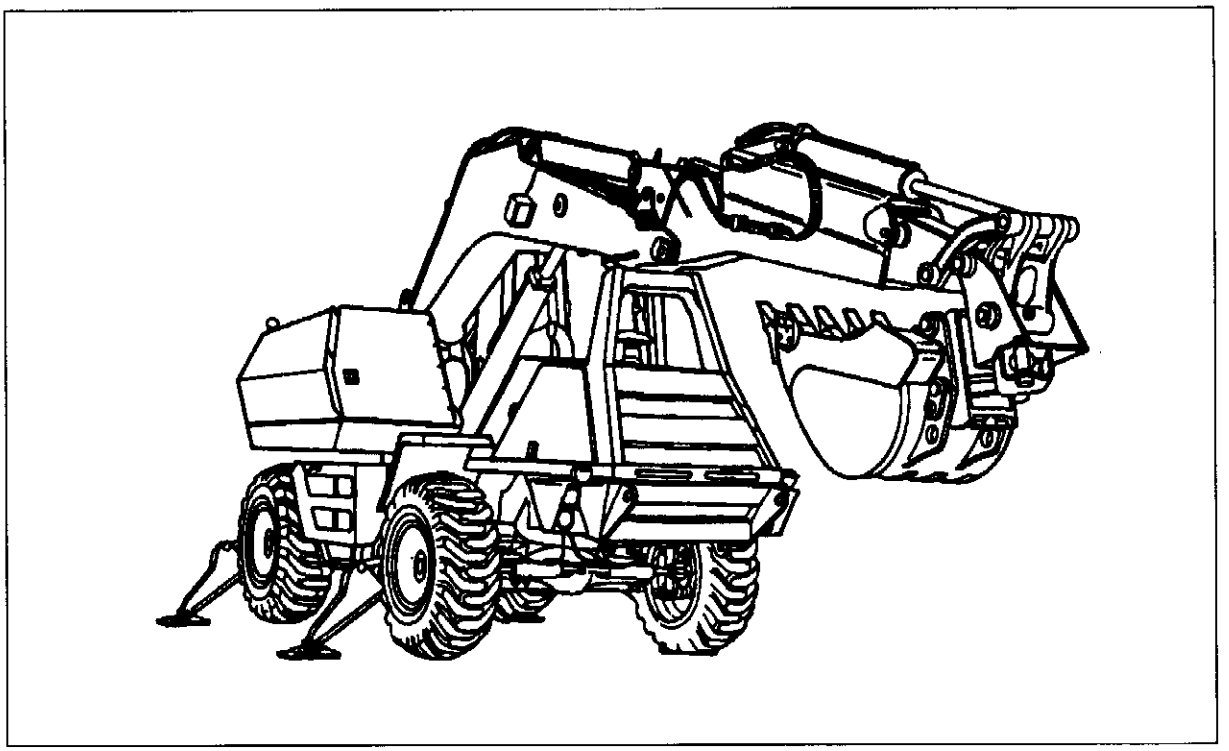
STATEMENT OF WORK

FOR THE IROAN OF THE

EXCAVATOR, RUBBER TIRED
MC 1085C



NSN 3805-01-318-3415

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STATEMENT OF WORK FOR THE
EXCAVATOR, RUBBER TIRED
MODEL MC1085C
Inspect 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 in the IROAN effort of the Excavator. This document contains requirements to restore the Excavator to Condition Code "A." Condition Code A is defined as serviceable/issuable without qualification. Equipment defined as such should be new, used, repaired or reconditioned material which is serviceable/issuable to all customers without limitation or restriction. This includes material with more than 6 months shelf-life remaining. National Stock Number (NSN) shall be known as the Excavator 3805-01-318-3415.

1.1 **BACKGROUND.** IROAN is defined as "the maintenance technique which determines the minimum repairs necessary to restore equipment components or assemblies, and the prescribed standards utilizing all available diagnostic equipment and test procedures minimize disassembly and parts replacement."

2.0 **APPLICABLE DOCUMENTS.** The following documents form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the Department of Defense Index of Specifications and Standards (DoDDISS) and supplement thereto which are in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

2.1 **MILITARY SPECIFICATION**

MIL-C-81309E Corrosion Preventive Compounds, Water Displacing, Utra-Thin Film inhibitor.

2.2 **MILITARY STANDARD**

MIL-STD-130 DoD Identification Marking of U.S. Military Marking.

MIL-STD-129 DoD Standard Practice For Military Marking.

MIL-STD-642 DoD Identification Marking of Combat and Tactical Transport Vehicles.

MILITARY STANDARD (FOR GUIDANCE ONLY)

MIL-STD-973 Configuration Management.

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

TM 09445A-25/2	Service Manual
SL-4-09445A	Repair Parts for Excavator, Hydraulic MC1085C
SL-3-09445A	Excavator, Multipurpose, Wheel Mounted, MC1085C.
ATPD-2241	Vehicles, Wheeled: Preparation for Shipment and Storage of.
TM-4750-15/2	Painting and Registration Marketing for Marine Corps Combat and Tactical Equipment.
DoD 4000.25-1-M	MILSTRIP Manual
NAVICPINST 4491.2A	Requisitioning of Contractor Furnished Materiel From the Federal Supply System.

2.4 **INDUSTRY STANDARDS.**

ANSI/ISO/ASQC Q9002-1994 Quality Systems.

Copies of Military Specifications and Standards are available from the Naval Publications and Standards are available from the Naval Publications and Forms Center, (Attn.: NPODS), 5801 Tabor Avenue, Philadelphia, PA 19120-5099. Copies of other government documents and 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 Bases, 814 Radford Blvd, Albany, Georgia 31704-1128, commercial telephone number (912) 439-6761 or DSN 567-6761. Copies of engineering drawings, if applicable, 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 567-6401.

3.0 **REQUIREMENTS**

3.1 **GENERAL TASKS.** In fulfilling the specified requirements, the contractor shall:

a. Provide materials, labor, facilities, missing parts, and repair parts necessary to inspect, diagnose, restore, and test the Excavator. Upon completion of IROAN, repaired equipment shall be Condition Code "A".

b. Provide all tools and test equipment required to test, inspect, and calibrate the Excavator.

c. In-process and final on-site testing must be witnessed by MCLB Albany representative.

d. The contractor shall be responsible for all structural, electrical and mechanical requirements associated with the restoration of the Excavator.

3.1.1 **IROAN OBJECTIVE AND FUNCTIONS**. After IROAN, the Excavator, shall have the following minimum characteristics:

a. Reliable as per system specifications

b. Maintainable as per system specifications

c. Serviceable (Condition Code "A")

d. All vehicle systems and components shall operate as intended.

3.2. **DETAILED TASKS.** The following tasks describe the different phases for IROAN of the Excavator.

Phase I	Pre-Induction
Phase II	IROAN
Phase III	Inspection, testing and acceptance
Phase IV	Packaging, Handling, Storage and Transportation (PHS&T).

3.2.1. **PHASE I-PRE-INDUCTION.**

a. A pre-induction inspection analysis shall be performed for the Excavator using the contractor facility's diagnosis, inspection and testing techniques to determine extent of work and parts required. These findings shall be annotated on the Pre- Induction Check Sheets located in Appendix A and shall be maintained and be made available upon request to the MCLB Albany, representatives.

b. Test equipment shall be used to determine that assemblies and subassemblies meet prescribed reliability, performance, and work requirements. 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 or repaired to the degree necessary to assure full conformance with this SOW.

c. Oil seal and gasket leakage. Evidence of lubricating or hydraulic oils passing through or around a seal is 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 temperature. The following shall be used as a guide in determining 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.

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

3.2.2 **PHASE II - IROAN.** IROAN shall be performed at the contractor facility. Information recorded on IROAN Pre-Induction Check Sheets during pre-inspection phase shall be used as a guide by the contractor to achieve the mechanical baseline of production. After pre-induction check and inspections have been completed, repair of the Excavator shall be accomplished in accordance with this SOW. Deficiencies noted on the Pre-Induction Check Sheets during Phase I shall be repaired/replaced. Components or assemblies shall not be disassembled for replacement of mandatory parts unless that part has failed, or the component assembly wherein the part is located is disassembled for repair. Mandatory replacement parts are contained in SL-4-09445A. The Final Road Test Check Sheet shall be completed and can be found in Appendix B of this SOW. Boxed items required to be shipped with the Excavator are contained in SL-3-09445A.

The following efforts shall be performed as part of the IROAN:

DETAILED MECHANICAL REWORK. The Excavator received for IROAN shall be reworked in accordance with the following paragraphs. All discrepancies noted on the IROAN Pre-Induction Check Sheets shall be repaired/replaced.

a. 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 SL-4-09445A.

b. ENGINE ASSEMBLY/TRANSMISSION

(1) TEST PROCEDURES. After pre-induction test and inspection have been completed, the power pack shall be removed from the equipment, steam cleaned, and inspected for loose or missing items. All warnings and procedures should be followed to ensure safe and working conditions.

The engine run-in test shall be performed. Refer to paragraph 3.2.2C for test procedures on the fuel system which shall be tested in conjunction with the engine.

Record all results of the Pre-Induction Check Sheets in Appendix A. Pre-Induction Check Sheets shall be maintained and be available to Code 837-2 MCLB Albany representatives.

The Transmission shall be processed in accordance with paragraph 3.2.2 G.

(a) Cylinder Block

(b) Crankshaft and Main Bearing

(c) Flywheel Assembly and Housing

(d) Pistons and Connecting Rods

(e) Cover, Valve

(f) Engine Lubrication System

(g) Lube Oil Cooler

(h) Lube Oil Pump

(i) Valve Cover

(j) Air Cleaner

(k) Air Intake Manifold

Test the following. in accordance with TM 09445A-25/2 to conform with inspection and testing procedures to assure full conformance with this SOW.

(2) PASS/FAIL. After the engine run test has been completed. The engine assembly shall meet or exceed the minimum specifications in TM 09445A-25/2.

c. FUEL SYSTEM.

(1) Test Procedures. Test the following. in accordance with TM 09445A-25/2 to conform with inspection and testing procedures to assure full conformance with this SOW.

Test all fuel injectors in accordance with TM 09445A-25/2.

(a) Inspect the fuel pump assembly for loose or broken items and housing cracks.

(b) Inspect Injector Nozzles.

(c) Inspect Turbocharger.

(d) Inspect fuel tank and line group for rusting and leakage.

(e) Inspect Primer Pump.

(f) Inspect accelerator pedal and linkage for binding and proper function.

(g) Inspect Injection Pump.

(2) PASS/FAIL. Repair/Replace injectors and all of the above that are not functioning properly.

NOTE: Replace all fuel filters and air filters 100 percent. Test Injectors for opening pressure

The above procedures for repair/replacement can be found in TM 09445A-25/2.

d. HYDRAULIC SYSTEM.

(1) TEST PROCEDURES. Test the entire hydraulic system along with the following components listed below in accordance with TM 09445A-25/2 to conform with inspection and testing procedures to assure full conformance with this SOW.

(a) Hydraulic and fluid system.

(b) Main Hydraulic Pump.

(c) Lower Steering Hydraulics Group.

(d) Hydraulic Controls.

(e) Filter Lines and Fittings.

(f) Hydraulic Cylinders.

(g) Tank, Hydraulic.

(h) Hydraulic Swivel.

(i) Auxiliary Pilot Operated Hydraulic Group.

(j) Hydraulic Reservoir.

(k) Hydraulic System Valve Bank.

(l) Outrigger Solenoid Valve.

(m) Steering Pump Assembly.

(n) Outrigger Hydraulics.

NOTE: Inspect all upper Hydraulic lines, clamps and fittings.

(2) PASS/FAIL. Repair/Replace any of the above if fail in accordance with TM 09445A-25/2. Tube lines that are pinched or dented replace. Replace hose if any of the following conditions exist.

(a) Replace if any evidence of hydraulic oil leakage at the surface of the hose or its junction with the metal end couplings.

(b) Replace if any blistering or abnormal deformation to the outer covering of the hose.

(c) Replace if hydraulic oil leak at any threaded or clamped joint that cannot be eliminated by normal tightening.

(d) Replace if evidence of excessive abrasion or scrubbing on the outer surface of hose or hoses.

The above procedures for repair/replacement can be found in TM 09445A-25/2.

e. **COOLING SYSTEM**.

(1) TEST PROCEDURES. Inspect the following. in accordance with TM 09445A-25/2 to conform with inspection and testing procedures to assure full conformance with this SOW. Inspect hose clamps for tightness.

(a) Check cooling system for leaks.

(b) Check radiator cap.

(c) Inspect thermostat and housing for leaks.

(d) Inspect Fan Belt.

(e) Inspect fan blades for breaks, bends, and missing rivets.

(g) Inspect water pump for leaks and cracks.

(h) Inspect Radiator and Oil Cooler for cracks and leaks.

(2) PASS/FAIL. Replace coolant, coolant belts, heater and radiator hoses. Replace anti-freeze protection. Replace any hose or the above equipment that fail test in accordance with TM 09445A-25/2.

f. ELECTRICAL SYSTEM

The Electrical System is a 24 volt charging system.

(1) TEST PROCEDURES. Inspect all wiring harnesses, battery cables for corrosion, bent or missing pins, and ripped or torn insulation and tie wraps. The following electrical systems should be tested/inspected.

(a) Alternator

(b) Cab Main Harness, Main Engine Wiring Harness.

(c) Starter Motor & Solenoid.

(d) Instrument Control Panel.

(e) Switches/Circuit Breakers, Panel Electrical Gauges.

(f) Front Lights, Rear Lights and Work Lights.

(g) Sending Units & Warning Switches.

(h) Horn & Alarm.

(i) Batteries, Storage/Batteries.

(j) Relay Panel Group.

(k) Cold Start Group.

(2) PASS/FAIL. 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.

g. AXLES

(1) TEST PROCEDURES. Inspect the following in accordance with TM5-09445A-25/2 to insure full conformance with this SOW.

(a) Front and Rear Axle Assembly.

(b) Axle Housing Group.

(c) Steering Axle Group.

(d) Planetary Group

(e) Wheel End Group.

(2) PASS/FAIL. Repair the above equipment in accordance with TM5-09445A-25/2 to conform with inspection and testing procedures to assure full conformance with this SOW.

h. TRANSMISSION

(1) Inspect in accordance with TM 09445A-25/2 to conform with inspection procedures to assure full conformance with this SOW.

(a) Transmission Group and Associated Parts.

(b) Transmission Hoses, Lines, Filter and Fittings.

(c) Drive shaft.

(d) Transmission Controls.

(e) Transmission Case and Cover Group.

(f) Transmission Linkage.

(2) PASS/FAIL. Repair/Replace the transmission linkage assembly if it does not operate smoothly. Replace all broken cables.

On completion of inspection, the transmission shall meet or exceed the minimum specifications. In the event the transmission fails inspection, it shall be repaired or replaced. The transmission oil, filter, and oil pan gasket shall be replaced.

i. BRAKE SYSTEM

(1) Inspect in accordance with TM 9445A-25/2 to conform with inspection procedures to assure full conformance with this SOW.

(a) Inspect Brake Linkage, Hand Brake and pedal.

(b) Inspect Parking Brake for proper functioning.

(c) Inspect Service Brake.

(d) Inspect all Brake lines for cracks and leaks.

(e) Inspect brake pads.

(f) Inspect Hydraulic Brake assembly system.

(g) Inspect mechanical Brake System.

(h) Inspect Swing Brake Control group.

(2). PASS/FAIL. Repair/Replace any or all of the above components that do not meet operational standards of TM 9445A-25/2.

j. TIRES, WHEELS

(1) INSPECTION PROCEDURES. Inspect tire inflation. Inspect for cupping, chunking, cuts, and cracks.

(a) Inspect wheels for cracks, brakes, and damaged mounting holes.

(b) Wheels shall be free of cracks brakes, and damaged mounting holes. Front end alignment and toe-in-adjustment shall meet the standards prescribed in the technical manual. All wheels that do not meet these requirements shall be replaced.

(2) PASS/FAIL. Each tire must have 4/32 inch or more of tread remaining and be in good serviceable condition. All tires on a vehicle shall be matched to provide proper performance and approximately equal life. Tires shall not show evidence of cupping or chunking. Tires shall not have cuts or cracks greater than one inch in length, 1/8 inch wide. Tires shall not have cuts or brakes, regardless of length or width, which extend to the fabric, Rubber separation or bulges on tire side walls are not acceptable.

All tires that do not meet these requirements shall be replaced.

The above procedures for replacement can be found in TM 09445A-25/2.

k. STEERING SECTION

(1) TEST PROCEDURES. Inspect **steering** pump, steer mode selector valve, control unit, emergency steer motor and pump, reservoir, and cap for leaks and proper function.

(a) Inspect all steering cylinder hoses for leaks.

(b) Inspect steering control unit.

(c) Inspect all steering tubing for leaks, cracks, kinks, or flat section.

(d) Inspect Steering hydraulic tank.

(e) Inspect steering wheel for cracks.

(f) Inspect steering selector valve.

(g) Inspect Steering pump.

(h) Inspect Lower Steering Hydraulic Group.

(i) Inspect Upper Steering Group.

NOTE: All steering cylinders shall be removed and new seal kits and springs installed 100 percent.

(2) PASS/FAIL. Repair/Replace the steering pump reservoir, and cap if leaking and not functioning properly. Replace steering fluid 100 percent.

No welding or straightening (hot or cold) shall be permitted on steering gear controls. Steering wheels with minor cracks 1/8 inch wide or less which do not extend to the steering wheel core may be repaired by filling with a non-shrinking epoxy and sanded smooth.

The above procedures for repair/replacement can be found in TM 09445A-25/2.

l. FRAME FENDER AND CAB

(1) TEST/INSPECTION PROCEDURES. Check frame fender and decks and under body supports for deteriorated bushings, broken bolts, cracks, broken welds, and rust. Remove all insulation from cab/floor and inspect for corrosion. Inspect the following.

(a) Frame, Fender and Cab Group.

(b) Upper structure

(c) Doors.

(d) Doors and Window Seals

(e) Upholstery and Seats.

(f) Mirrors

(g) Engine housing.

(h) Data plate and instruction holder.

(i) Inspect glass for brakes and cracks.

(j) Inspect windshield wiper for proper function.

(k) Inspect mirror bracket.

(2) PASS/FAIL. Repair/Replace the above items and dents that exceed 7/16 of an inch.

The above procedures for repair/replacement can be found in TM 9445A-25/2.

m. DATA PLATES AND DECALS.

DATA PLATE. Each repaired Excavator shall have an IROAN data plate affixed next to the existing data plate. The data plate shall meet the requirements of MIL-STD -130.

(1) Test procedures. Inspect vehicle for missing, damaged, and illegible data plates and decals.

(2) PASS/FAIL. Replace all data plates and decals that are missing and illegible. IROAN data plates shall be prepared by the DMA or contractor and contain the following information:

VEHICLE SERIAL NO_____REPAIRED IN ACCORDANCE WITH TM 09445A-25/2 STANDARDS.
CONTRACTOR FACILITY_____
DATE_____ ODOMETER OR HOUR READING AT TIME OF IROAN_____

NOTE: Odometers and hour meters on vehicles IROAN under provisions of this SOW shall not be turned back to zero.
Position IROAN DATA PLATE in place of old data plate.

RECORD JACKET: Be sure to record all major equipment or components serial numbers that are replaced in the record jacket of the Excavator. (This include engines, transmission, ect).

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

a. Inspection, testing and acceptance of the Excavator shall be conducted in accordance with TM 09445A-25/2.

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 facility. MCLB, Albany Georgia representatives shall be given a minimum of two weeks notice prior to beginning acceptance testing. The test area shall be cleared of all equipment parts and components, ect, not required for the test.

c. The contractor shall be responsible for correcting any deficiencies identified during inspection/testing. MCLB Albany, Georgia representatives may require the contractor to report tests or portions thereof, if the original tests fail to demonstrate compliance with this SOW.

d. Acceptance testing on all equipment repaired under the provisions of this SOW shall be accomplished in accordance with TM 09445A-25/2.

e. Vehicle Markings. Registration numbers and other markings shall be applied in accordance with MIL-STD-642. Lifting and tie down attachments shall be identified with one inch letters indicating "SLING POINT" or "TIE DOWN." TM-4750-15/2 Painting and Registration Marketing for Marine Corps Combat and Tactical Equipment.

f. For prevention of corrosion refer to MIL-C81309E.

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

a. The Contractor shall be responsible for preservation and packaging of items being repaired under the terms and this statement of work. Items scheduled for long term storage shall be level "A" in accordance with ATPD-2241 . Items being prepared for domestic shipment, immediate use, and/or shipment to overseas destinations with the exception of Maritime Prepositioned Forces (MPF) shall be preserved to level "B" Drive-on/Drive-off,. Items being prepared for overseas shipment shall have a label affixed which reads "NOTE FOR WEATHER DECK STOWAGE." Items scheduled for MPF shall be preserved to level "B" MPF Modified Drive-away.

b. Drive-On/Drive-Off and MPF Modified Drive Away are defined as follows:

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

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

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

d. The Marine Corps will provide the contractor with shipping address(es) for delivery of the repaired equipment. The Contractor shall be responsible for arranging for shipment of the equipment to the pre-designated site(s). The Marine corps will be responsible for transportation costs associated with shipping the subject equipment to and from the Contractor.

3.3 CONFIGURATION MANAGEMENT

3.3.1 CONFIGURATION STATUS ACCOUNTING (CSA)

a. The contractor shall record and submit data on retrofit accomplished during Phase II. Any approved Modified Instructions (MIs) or Engineering Change Proposals (ECPs) shall be applied during Phase II of the IROAN process.

b. 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 inspection checklist to the contractor. The contractor shall use one checklist for the Excavator to record the inspection findings along with other required data . The checklist must be prepared/provided by the requiring office for attachment at the time of SOW staffing.

c. The contractor shall record serial numbers of the assemblies listed on the configuration inspection checklist. The contractor shall record the information on the same form that was used to record the application status of configuration changes.

3.3.2 **CONFIGURATION CONTROL.** If necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request for Deviation or Request for Waiver. MIL-STD-973 (paragraphs 5.4.3 or 5.4.4 and Appendix E) may be used as a guide.

3.4 GOVERNMENT FURNISHED EQUIPMENT (GFE)/GOVERNMENT FURNISHED MATERIEL (GFM).

a. GFE is government owned equipment authorized by contract for use by a commerical/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/G316-2), 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.

b. The GFE list must be provided by the Equipment Specialist.

3.5 CONTRACT 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.

3.6 QUALITY ASSURANCE PROVISIONS

The Contractor shall provide and maintain a Quality System that meets or is equivalent to the requirements of ANSI/ISO/ASQC Q9002-1994, Quality System Model for Quality assurance in Production, Installation, and Servicing. 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 MCLB Albany representatives during contract performance. Inspection may be accomplished at any work location. Authorized MCLB Albany representatives shall be permitted to observe the work/task accomplishment or to conduct inspections at all reasonable hours. Acceptance tests shall be held in plant. Inspection by the MCLB Albany, representatives 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 contractor shall have in place documented procedures and standards for quality assurance and the contractor facility's shall be subject to in process reviews and inspections for compliance with ANSI/ISO/ASQC Q9002-1994 Quality Systems, procedures and standards by MCLB Albany representatives. Noncompliance with procedures resulting in degraded quality of work may result in a stop work order requiring the contractor to correct the work performed and to enforce compliance with quality assurance procedures or face contract termination.

Notwithstanding such MCLB Albany representatives inspection, it shall be the contractors responsibility to ensure that the entire system meets the performance requirements. Inspection and test plan shall be utilized as guidelines whenever applicable and in accordance with the SOW.

Quality assurance operations performed by the contractor shall be subject to MCLB Albany representatives verification at any time. MCLB Albany representatives verification can include, but shall not be limited in any matter, to the following:

a. Inspection of materials, 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 Excavator, this SOW, and applicable documents used herein.

3.7 ACCEPTANCE

The performance of the contractor and the quality of work delivered, including all equipment furnished and documentation written or compiled, shall be subject to in process 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. Final acceptance shall be conducted on 100 percent of items to verify that the units meet all requirements.

Acceptance testing. The Excavator IROANED under the provisions of this SOW shall be accomplished in accordance with TM 09445A-25/2.

3.8 REJECTION

Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCLB, Albany representative. The contractor shall at no additional cost to, MCLB, Albany Georgia, 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

4.1 Repairable item inspection report. The contractor shall provide a repairable item inspection report for each IROAN of the Excavator. Identified by United States Marine Corps Serial Number.

4.2 Monthly progress reports. The contractor shall provide monthly progress reports summarizing the progress and status of the IROAN program.

4.3 The contractor shall complete the Pre-Induction Check Sheets (Appendix A) for each Excavator repaired. These documents shall be available during final acceptance testing. One

copy of each document shall be provided to MCLB Albany, Georgia Code 837 -2 after final acceptance of the Excavator.

4.4 The contractor shall provide one copy per vehicle of the final road test results (Appendix B) performed on Excavator. These sheets must be available for review during the final acceptance testing and shall be sent to MCLB Albany, Georgia Code 837-2, upon acceptance of vehicle.

PRE-INDUCTION CHECK SHEETS
FOR
EXCAVATOR, RUBBER TIRED
MC 1085C

DATE:

REFERENCES:
ID 09445A

U.S. M.C. NO. _____ **MILES** _____

JOB ORDER NO. _____ **HOURS** _____

PRODUCTION NO. _____ **SERIAL NO.** _____

ENGINE NO. _____

TRANSMISSION NO. _____

INSPECTORS' NAME	BADGE NUMBER	SHIP NUMBER

NOTE: The following inspection sheets are divided into columns. The inspector will place a check in the column which best describes the condition of the item being inspected. Those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column. If the inspector finds a defect that could cause injury to the operator or damage to the end item, testing will cease until the defect is corrected or the decision is made to induct the Crane into the shop.

PRE-INDUCTION CHECK SHEETS

ITEMS	PASS	FAIL	COMMENTS
1. Monitor Indicator and Gauge Checks			
Key Switch Check	____	____	_____
Fuel Gauge Check	____	____	_____
Hour Meter Check	____	____	_____
Tachometer	____	____	_____
Engine Temperature Gauge Check	____	____	_____
Engine Oil Pressure Gauge	____	____	_____
Transmission Temperature Gauge	____	____	_____
2. Body & Cab			
Hood	____	____	_____
Doors	____	____	_____
Fenders	____	____	_____
Windshield	____	____	_____
Upholstery, Seat	____	____	_____
Seat Belts	____	____	_____
Mirrors	____	____	_____
Wiper Motor	____	____	_____
Wiper Blades	____	____	_____
Fuel Tank	____	____	_____

ITEM	PASS	FAIL	COMMENTS
3. **Cooling System**			
Air Cleaner	____	____	_____
Inspect for Loose or Broken welds and rusted conditions	____	____	_____
Check all Hoses and Connections	____	____	_____
Radiator and Oil Cooler Group	____	____	_____
Fan Group	____	____	_____
Water Pump	____	____	_____
Thermostat	____	____	_____
Water Lines	____	____	_____
Protection Cover Group	____	____	_____
Oil Cooler Group	____	____	_____
Fan Belts	____	____	_____
4. **Intake and Exhaust System**			
Exhaust Manifold Group	____	____	_____
Exhaust Connections	____	____	_____
Exhaust Assembly	____	____	_____
Muffler Group	____	____	_____
Dust Ejector Group	____	____	_____
5. **Fuel System**			
Fuel Injection Lines Group	____	____	_____
Fuel Filter and Head Assembly	____	____	_____

ITEM	PASS	FAIL	COMMENTS
Fuel Filter Lines Group	____	____	_____
Fuel Injector Nozzles	____	____	_____
Fuel Pump	____	____	_____
Cold Start Device	____	____	_____
Primer Pump	____	____	_____
6. **Hydraulic System**			
Hydraulic Lines	____	____	_____
Axle Lockout Cylinder	____	____	_____
Outrigger Cylinder	____	____	_____
Hydraulic Swivel	____	____	_____
Main Hydraulic Pump	____	____	_____
Hydraulic Reservoir and Filter Group	____	____	_____
Hydraulic System Valve Bank	____	____	_____
Hydraulic Controls	____	____	_____
Steering Pump	____	____	_____
Outrigger Hydraulics	____	____	_____
Hydraulic Tank	____	____	_____
Hydraulic Brakes	____	____	_____
7. **Transmission Unit**			
Front Cover and Main Case for cracks, and Leaks.	____	____	_____

ITEM	PASS	FAIL	COMMENTS
Control Linkage Check	____	____	_____
Transmission Controls	____	____	_____
Transmission Hoses, Lines, Filter and Fittings	____	____	_____
Drive shaft	____	____	_____
8. **Steering and Braking System**			
Steering Cylinder & Hoses	____	____	_____
Steering Gear Box	____	____	_____
Steering Wheel	____	____	_____
Steering Hydraulic Tank	____	____	_____
Steering Pump Belt	____	____	_____
9. **Brake System**			
Brake Linkage	____	____	_____
Brake Pedal	____	____	_____
Parking Brake	____	____	_____
Brake Lines	____	____	_____
Brake Pads	____	____	_____
Brake Reservoir	____	____	_____
Swing Brake Control	____	____	_____
10. **Electrical System**			
Alternator	____	____	_____
Solenoid Switch Assembly	____	____	_____

ITEM	PASS	FAIL	COMMENTS
Starting Motor Group	____	____	_____
Instrument Panel	____	____	_____
Fuse/Holder	____	____	_____
Lights	____	____	_____
Batteries, Storage/Batteries	____	____	_____
Tail Light	____	____	_____
Work Lighting Group	____	____	_____
Harness Assembly	____	____	_____
11. **Tires, Wheels**			
Wheels	____	____	_____
Tires	____	____	_____

FINAL ROAD TEST CHECK SHEET
EXCAVATOR RUBBER TIRED MC 1085C

All safety checks must be satisfactory completed prior to road test. If necessary, before performing tests and checks, wipe down components where grease, oil or dirt could possibly form. The following items shall be checked during the vehicle road test operation.

1. CHECK THE FOLLOWING GAUGES FOR CORRECT READINGS.	SATISFATORY	MISSING	ADJUST	REPAIR	REPLACE	MODIFY	**REMARKS**
a. Tachometer reading at idle							
b. Engine oil pressure, minimum of psi at idle.							
c. Alternator warning light							
d. Voltmeter							
e. Fuel gauge register equivalent to tank level							
f. Engine coolant (after road test)							
2. CAB CONTROLS							
a. Windshield washer							
b. Windshield wipers left and right							
c. Heater/defroster fan							
d. Heater ducks for air transfer case.							
e. Horn for proper operation							
3. BRAKE OPERATION (does it pull or stall when applied on quick stop).							
a. Park brake holds							
b. Park brake release, operates properly.							
c. Service brakes operates.							
4. ACCELERATOR							
a. Accelerates smoothly							

	SATISFACTORY	MISSING	ADJUST	REPAIR	REPLACE	ODIFY	REMARKS
5. STEERING							
a. Operates smoothly							
b. Doesn't wander or pull							
6. LIGHTS (operational)							
a. Dash panel							
b. Shift selector							
c. Headlights high and low beam							
d. Work lights							
7. TURN SIGNALS							
a. Left signal							
b. Right signal							

CONFIGURATION INSPECTION CHECK SHEET
EXCAVATOR RUBBER TIRED
MC 1085C

IDENTIFICATION NUMBER	TAM NUMBER
Vehicle registration Number	
Vehicle Serial Number	
Hours at Inspection	
Miles at Inspection	
IROAN Date	
Hours at IROAN	
Miles at IROAN	
Engineering Change Plans (ECP)	
SL-4	
Technical Manuals (TM)	

SECONDARY REPAIRABLE DATA

ITEM	SERIAL NUMBER
Engine	
Transmission	
Drive Axles	

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: Excavator, Rubber Tired MC 1085C	E. CONTRACT/PR NO.	F. CONTRACTOR

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A001	Contractor's Progress, Status, and Management Report	Monthly Progress Report	

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-MGMT-80227	SOW 4.2	MCLBA (837)	

7. DD 250 REQ	8. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT		MTHLY	See Blk 16
9. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
			See Blk 16

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES: Draft	Final: Reg	Final: Repro
MCLBA (837-2)	0	1	0
15. TOTAL →	0	1	0

16. REMARKS

Contractor format is authorized.

Blk 4 - Tailor DI-MGMT-80227 as follows: Delete paragraphs 10.3g, 10.3h, 10.3i, 10.3j, 10.3k, and 10.3n.

Blk 12 - The reporting period shall be from the first to last business day of each month. Initial submission shall be 60 DAC.

Blk 13 - Subsequent submissions shall be 10 days after the last business day of each month.

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

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
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D. SYSTEM/ITEM: Excavator, Rubber Tired MC 1085C	E. CONTRACT/PR NO.	F. CONTRACTOR

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
B001	Repairable Item Inspection Report	

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-ILSS-80386	SOW 4.1	MLCBA (837)

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

16. REMARKS

Contractor format is authorized.

Blk 10 - A separate report shall be submitted for each Excavator, Rubber Tired MC 1085C repaired.

Blks 12 & 13 - Submit report by Marine Corps Serial Number 30 days after completion of each Excavator, Rubber Tired MC 1085C.

Blk 14 - Reports shall be provided on hard copy.

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

14. DISTRIBUTION

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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
[signature]	9/28/99	[signature]	9/28/99

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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
Excavator, Rubber Tired MC 1085C		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
C001	Request For Waiver	Configuration Management

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-CMAN-80641B	SOW 3.3.2	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		

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

14. DISTRIBUTION

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

16. REMARKS

Blk 4 - Contractor format 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

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

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
[signature]	9-21-99	[signature]	9/28/99

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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
Excavator, Rubber Tired MC 1085C		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
C002	Request For Deviation	Configuration Management

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-CMAN-80640B	SOW 3.3.2	MCLBA (825)

7. DD 250 REQ	8. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT		ASREQ	SEE BLK 16

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

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

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Cole Potter	9-21-99	[signature]	9/28/99

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