

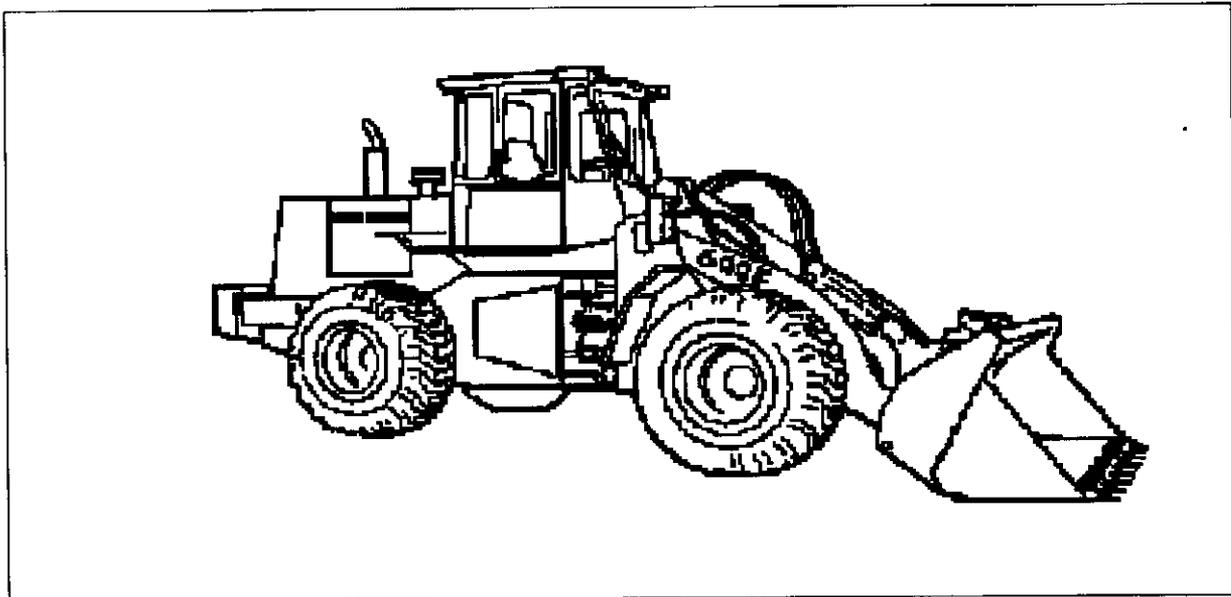
SOW-00-837-2-09148A-1/1

STATEMENT OF WORK

FOR THE

JOHN DEERE MODELS

644E AND 644ER LOADER



NSN 3805-01-279-3635

EFFECTIVE DATE: 04 OCTOBER 1999

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**STATEMENT OF WORK FOR THE
REBUILD OF JOHN DEERE MODELS
644E AND 644ER LOADERS**

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 REBUILD effort of the JOHN DEERE MODELS 644E AND 6443R Loaders. This document contains requirements to restore the 644E AND 644ER Loaders 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 644 Loader 3805-01-279-3635.

1.1 **BACKGROUND.** Rebuild is defined as "That maintenance technique to restore an item to a standard as near as possible to original or new condition in appearance, performance, and life expectancy. This is accomplished through a maintenance technique or complete disassembly of the item, inspection of all parts and components, repairs or replacement of worn or unserviceable elements using original manufacturing tolerances and/or specifications and subsequent reassemble of the items."

2.0 **APPLICABLE DOCUMENTS.** The following documents form a part of this SOW to the extent specified. Unless otherwise specified, issues of these documents are those listed 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. Ultra-Thin Film.
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2.2 **MILITARY STANDARD**

MIL-STD-130	DOD U.S. Military Property, Identification Marking of
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MILITARY STANDARD-(FOR GUIDANCE ONLY)

MIL-STD-973	Configuration Management.
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2.3 **OTHER GOVERNMENT DOCUMENTS AND PUBLICATIONS.** The issues of these documents cited below shall be used.

ATPD-2241	Vehicles, Wheeled: Preparation for Shipment and Storage of.
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LI-09148A-12	Lubrication Instructions.
MCO P11262.2	Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment.
TM 4750-15/1	Painting and Registration Marking for Marine Corps Combat and Tactical Equipment.
TM 3080-34	Corrosion Prevention and Control.
TM 09148A-14/2	John Deere 644E Loader Repair (TM-1414A).
TM 09148A-14/4	John Deere 644E Loader Operation & Test (TM-1413A).
TM 09148A-14/5	Component Technical Manual 7076 Engines (CTM-6 (1-88)).
TM 09148A-14/6	Component Technical Manual (CTM-18 (Aug-88)).
SL-4-09148A	Repair Parts List for Loader, Scoop Type Model 644ETRAM.
DoD 4000.25-1-M	MILSTRIP Manual.
NAVICPINST 4491.2A	Requisitioning of Contractor Furnished Material From The Federal Supply System.

2.4 INDUSTRY STANDARD

ANSI/ISO/ASQC Q9002-1994 Quality Systems.

Copies of Military Specifications 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 Logistic 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, Georgia 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:

a. Provide materials, labor, facilities, missing parts, and repair parts necessary to inspect, diagnose, restore, and test the 644 Loader. Upon completion of rebuild, repaired equipment shall

be Condition Code "A".

b. Provide all tools and test equipment required to test, inspect, and calibrate the 644 Loaders.

c. Conduct final-on-site testing for witness by the Contract Officer and/or their Representatives.

d. The Contractor shall be responsible for all structural, electrical, and mechanical requirements associated with the restoration of the 644 Loader.

3.1.1 **REBUILD OBJECTIVE AND FUNCTIONS.** After rebuild, the 644 Loader 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. **DETAIL TASKS.** The following tasks describe the different phases for rebuild of the 644 Loader.

Phase I	Pre-Induction
Phase II	Rebuild
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 644 Loader 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 Checklist located in Appendix A and shall be maintained and be made available upon request to the Contract Officer and/or their representatives.

b. Test equipment shall be used to determine that assemblies and subassemblies meet prescribed reliability, performance, and work requirements. In 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 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 - Rebuild**. Rebuild shall be performed at the Contractor facility. Information recorded on the Pre-Induction Checklist during pre-inspection phase shall be used as a guide by the Contractor to achieve the mechanical baseline of production. After pre-induction tests and inspections have been completed, repair of the 644 Loader shall be accomplished in accordance with this SOW. Deficiencies noted on the Pre-Induction Checklist 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-4-09148A. The Final Inspection Checklist shall be completed and can be found in (Appendix B) of this SOW.

The following efforts shall be performed as part of the Rebuild.

a. **DETAILED MECHANICAL WORK**. 644E Loader received for rebuild shall be rebuilt in accordance with the following paragraphs. All discrepancies noted on the Pre-Induction Checklist shall be repaired/replaced.

b. **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 Rebuild. 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 rebuild shall be in accordance with existing technical publications.

c. ENGINE ASSEMBLY

All engines shall be tested using the test procedures located in TM 09148A-14/4, Section 9010-10, 9010-20 and 9010-25. After all pre-induction tests and inspection have been completed, the engine shall be removed from the equipment. Disassembly, clean, inspection, overhaul, testing shall be accomplished in accordance with current engine overhaul procedures identified in and TM 09148A-14/5. If grinding of any connecting rod journal is required, all journals shall be reground to the same oversize. The same rule applies to main bearing journals. If cylinder sleeving is required, all cylinders shall be sleeved to the same size or oversize.

If it is determined that the engine is beyond economical repair and requires replacement, replace basic engine with Original Equipment Manufacture (OEM) part number 6076TF001 Narrow Gear Train basic engine.

Engine accessories are to be overhauled and reused if components are repairable. If component(s) are not repairable, these components shall be replaced with new/re-manufacturer components. Components are:

- (1) Alternator
- (2) Starter
- (3) Fuel pump/fuel injection pump
- (4) Water pump
- (5) Turbocharger

Drive belts, thermostats, flywheel ring, oil and fuel filter(s), and fuel check valve(s) shall be replaced 100 percent.

Each Contractor overhauled engine shall be dynamometer tested using the Dynamometer Test specifications contained in TM 09148A-14/5, Group 105-6.

After successfully competition of dynamometer test and before engine is removed from dynamometer, the engine shall be "broken-in" using the Engine Break-In Instructions contained in TM 09148A-14/5, Group 105-7.

Engines that are replaced by John Deere Re-manufactured Engines do not require dynamometer testing or dynamometer break-in.

Engine overhaul procedures can be found in TM-09148A-14/5, Component Technical Manual, 7076 Engines.

d. FUEL SYSTEM.

No fuel leakage is permitted in this system. Metallic fuel lines shall be free of kinks, flatten areas, rounded off fittings, and corrosion. Replace all nonmetallic fuel lines with OEM parts. All fuel lines shall be secured in their proper place. Replace fuel filters and fuel tank breather filters 100 percent.

Clean and inspect fuel tanks for dents, cracks, and leakage. Clean and inspect tank interior for rust, corrosion, and foreign material. Clean tank interior and repair tank using standard commercial practices.

Fuel system component repair/replacement procedures are contained in TM 09148A-14/5

e. EXHAUST SYSTEM.

No leakage of exhaust gases are permitted. Exhaust manifolds shall be free of cracks and deformities that will allow exhaust gas leakage and may cause component failure. Exhaust manifold packing, OEM part number R58109, flange, OEM part number R87732, and exhaust gaskets, OEM part numbers, R83020 and R83021 shall be replaced 100 percent. If the engine is replaced in lieu of overhauled by the Contractor, these components will not require replacement if they are provided as installed components of the OEM Re-manufactured Engine.

The vehicle muffler and muffler strap assembly shall be replaced 100 percent.

Exhaust system component repair/replacement procedures are contained in TM 09148A-14-5

f. COOLING SYSTEM.

Vehicle radiator shall be removed, cleaned, tested, and repaired. Reverse flush, clean, and inspect radiator core 100 percent. Straighten bent fins that can be straighten. Test radiator/cooling system for pressuration. Radiator shall hold 5 PSI above pressure marked on radiator cap for five minutes without evidence of leakage or structural failure.

Cooling system shall be filled to correct level with permanent antifreeze. Antifreeze protection shall be to a temperature of -20 degrees Fahrenheit.

All rubber hoses, hose clamps, radiator caps, and thermostats shall be replaced 100 percent. Radiator shroud and fan guard shall contain no damage. The four quart water tank shall be functional and contain no leakage.

All drive belts shall be replaced with new belts. Belt tension shall be properly adjusted.

Cooling system repair/replace procedures are contained in TM 09148A-14/2, TM 09148A-14/5.

g. POWER TRAIN.

The 644 Loader power train consist of the following components. The Power Train shall be adjusted and tested as per procedures identified in TM 09148A-14/4, Section 9020-20 through Section 9020-25 to assure system performance.

(1) Transmission.

All transmissions shall be tested using the test procedures located in TM 09148A-14/4, Section 9020-20. After all pre-induction tests and inspection have been completed, the transmission shall be removed from the equipment. Disassembly, cleaning, inspection, overhaul, and testing shall be accomplished in accordance with current transmission overhaul procedures identified in and TM 09148A-14/2, Section 03. The transmission shall be cleaned, disassembled, inspected, overhauled and/or replaced. If it is determined that the transmission is beyond economical overhaul/repair and requires replacement, replace transmission with OEM re-manufactured transmissions. Transmission oil filters and hydraulic hoses and lines shall be replaced 100 percent. After installations of overhauled/replacement transmission in vehicle, transmission control valve linkage shall be adjusted as per instruction located in TM 09148A-14/4, Section 6020-20-1.

All oil coolers and oil cooler thermal bypass valve shall be tested using test procedures located in TM 09148A-14/4, Section 9020-25-7, Section 9020-25-9 through 9020-25-12 for the oil cooler and Sections 9020-25-15 and 9020-25-16 for the thermal bypass valve. After pre-induction tests and inspections have been completed, transmission oil coolers and oil cooler thermal bypass valves shall be removed, cleaned, tested, and repaired or replaced. Reverse flush, clean, and inspect oil cooler core 100 percent. Straighten bent fins that can be straightcn. Replace thermal bypass valves that do not meet system specifications.

(2) Drive Damper.

The drive damper assembly shall be replaced on all 644 LOADER inducted for rebuild under provisions of this SOW. Damper cover plates may be reused if they contain no damage that will prevent them from being properly installed in their mounting place. Missing or damaged damper cover plates shall be replaced with new or reconditioned cover plates.

(3) Transmission Drive Shaft/Transmission to Axle Drive Shafts.

Drive shafts shall be inspected for the malfunctions identified in TM 09148A-14/4, Section 9020-15-13. Repair/replace as required.

Remove, disassemble, assembly, and install procedures are identified in TM 09148A-14/4, Section 0325-1.

(4) Axles.

After all pre-induction tests and inspection have been completed, the front and rear axles shall be removed from the equipment. Disassembly, cleaning, inspection, overhaul, and testing shall be accomplished in accordance with current axle overhaul procedures identified in and TM 09148A-14/6. The axles shall be cleaned, disassembled, inspected, overhauled and/or replaced as required. Clutch Disconnect Group, Clutch Group, Clutch Group, 3rd and 4th, and Clutch Regulator Valve Group shall be checked. Clutch-Cut-off Check. Brake Backing Plate (OEM p/n RE33013), Brake Plates (OEM p/n RE46328), Brake Disk (OEM p/n R113739), and Brake Pistons (OEM p/n R48240) shall be replaced 100 percent during axle tear down. Differential lock solenoid valve shall be removed and inspected as per TM 09148A-14/2, Section 0260-1. Repair/replace as required.

(5) Wheels and Tires.

The wheel assemblies shall rotate true and show no evidence of cracks, warpage, or other damage. Wheels shall be proper size and type as per system specifications. Wheels shall not be damaged to the extent that prevents sealing of the tire to the rim. Lock rings shall not be bent, or otherwise damaged to the extent that proper fit is impaired. Bent or warped wheels shall be replaced. Repair/replace wheels as required.

Tires received on vehicles shall be inspected in accordance with best commercial practices. Tires shall not show evidence of cupping or chucking. Tires shall not have cuts or cracks greater than one inch in length, 1/8 inch wide. Tires shall not have cuts, cracks, or breaks, regardless of length or width, which extend to the fabric. Rubber separation or bulges in tire side walls and thread area are not acceptable. Tires shall contain a minimum of 25 percent of original tire thread depth. Tires should be evenly match as to wear on a single axle when possible. All tires that do not meet these requirements shall be replaced.

h. Brake System, Service and Parking Brakes.

Inspect and functional test both brake system. Test service brake system using test procedures in TM 09148A-14/4, Section 9020-25. Brake Backing Plate (OEM p/n RE33013), Brake Plates (OEM p/n RE46328), Brake Disk (OEM p/n R113739), and Brake Pistons (OEM p/n R48240) shall be replaced 100 percent during axle tear down. Brake Valve (OEM AT143279) shall be replaced 100 percent. Brake accumulators shall be removed, inspected, repaired and recharged as required. Brake pump shall be removed, inspected and overhauled as required. Brake system hydraulic hoses shall be replaced 100 percent. System shall perform as per system specifications. Malfunctions identified by these test shall be corrected. System Specifications, Repair/replacement procedures are founded in TM 09148A-14/2, Section 10.

Park brake shall be tested using test procedures in TM 09148A-14/4, Section 9020-10. Malfunctions identified during these test shall be corrected. Parking brake shoes, drum, and push-pull cable shall be replaced 100 percent. Parking brake linkage shall be adjusted using adjust procedures in TM 09148A-14/2. Group 1115.

i. Steering System.

Steering system shall be tested using test procedures in TM 09148A-14/4, Section 9025. Malfunctions identified during this testing are to be corrected. Secondary steering and the hydraulic steering system are to function as intended. Both systems shall be overhauled. The following hydraulic components shall be overhauled or replaced:

- (1) Priority Valve
- (2) Steering Valve
- (3) Cross-Over Relief Valve
- (4) Secondary Steering Pump
- (5) Secondary Steering Switch
- (6) Hoses
- (7) Steering cylinders
- (8) Main Hydraulic Pump

The steering system shall operate free of binding or loose motion in the steering mechanism. Inspect and test steering column, universal joint, shaft, and isolator for excess movement and play. Repair/Replace as needed.

j. Electrical System.

The vehicle electrical system shall be tested using test procedures in TM 09148A-14/4, Section 16. Malfunctions identified during testing shall be corrected. Switches, relays, receptacles, connectors, fuse boxes and holders, circuit breakers and holders, small electrical motors (fan, windshield wiper, and steer motor) shall operate as intended and shall contain no defects such as broken or corroded terminals, loose electrical connections, and loose component fit in their mounting position. Switches that require adjustment to operate or contain function (example: Return to dig switch) shall be properly adjusted using that switch adjustment procedures. All lights and warning devices shall be in good working condition. Alternator, engine starter, and air compressor shall be overhauled or replaced.

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.

Slave cable receptacle shall function as intended. Repair/replace as needed.

Repair/replace, and adjustment procedures are found in TM 09148A-14/2, Section 16.

Air compressor repair/replace procedures are found in TM 09148A-14/2, Section 20. 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. Repair/replace procedures are found in TM 09148A-14/2, Section 16.

k. Instrument Panel, Gauges, and Module.

All instruments, gauges, sending units, panel lights, panel module, and switches shall operate as intended. Dials, lenses, gauge, and instrument indicator needles or numbers shall be legible. Replace defective gauges, lights, and switches as required. The vehicle hour meter shall not be replaced unless the original meter does not function. Replace all missing or illegible decals, instructions, and name plates.

l. Frame, Chassis, and Supporting Structure.

The 644 LOADER shall be completely disassembled to inspect chassis structures for damage. The entire chassis, shall be inspected for welding and metal cracks and structural abnormalities. If inspection reveals cracks and structural abnormalities, Non Destructive Inspections (NDI) shall be performed to determine extent of defects. Repairs shall be in accordance with best commercial practices. Major components to be inspected are:

- (1) Pintle and Counterweight Assembly
- (2) Engine Frame Assembly
- (3) Loader Frame Assembly
- (4) Loader Boom
- (5) Loader Linkage
- (6) Attachment Coupler
- (7) Vehicle Step Assembly
- (8) Guards

Replace bushings and seals in the loader linkage assembly, loader boom assembly, and attachment coupler. Replace frame assemblies upper pivot bearing and seals and the lower pivot bushing and seals 100 percent.

Specifications, Repair/replace procedures are found in TM 09148A-14/2, Section 17.

m. Cab and Body Components.

The following cab and body components are to be inspected, tested and repaired/replaced as needed.

(1) **Operator's Station:** Repair or replace damaged sheet metal panels, doors, covers, and other metal items as needed. Replace sheet metal panels where corrosion has penetrated panel. Repair or replace all worn or unserviceable door hardware including hinges, door strikes, handles, and cab door window release. Replace all glass damaged from staining, cracks, breakage, and pitting. Replace missing glass panels. Glass panels should be replaced with OEM supplied glass panel to assure factory specifications are maintained. Remove and install special note located in TM 09148A-14/2, page 1810-2 shall be applied in the replacement of glass. Remove and install windowpane and molding procedures are identified in TM 09148A-14/2, Section 18. Replace door to cab and right side window to cab molding 100 percent.

Inspect and operational test front and rear windshield wiper and washer assembly for proper operation. System shall operate as intended. Adjust blade park to specifications. Replace wiper blades 100 percent.

Repair/replace, and adjustment procedures are located in TM 09148A-14/2, Section 18.

Inspect, clean, and operational test defroster fan assembly. Defroster fan assembly shall operate as intended. Replace air duct 100 percent.

Inspect and operational test operator's seat and seat belt. Seat shall operate as intended. Replace seat backrest, seat cushion, and both arm rests 100 percent.

Inspect, clean and functionally test cab heaters system. Repair deficiencies found during the testing. Remove, clean, and pressure test heater coil. Repair leaks as required. Replace heater hoses 100 percent. Replace heater valve control assembly 100 percent. Inspect and clean blower impellers. Replace any impellers found damaged. Replace blower motors that overheats, binds up during operation, or contains bent output shafts.

(2) Body Panels and Assemblies.

Clean and inspect the panel and assemblies for damage, corrosion, and missing parts. Repair or replace damage sheet metal panels, doors, cover, and other metal items as needed.

Replace sheet metal panels where corrosion has penetrated panel. Repair or replace all worn or unserviceable maintenance door hardware including hinges, door strikes, springs, and handles. Replace/repair all broken brackets and braces. Repairs shall be in accordance with best commercial practices. Major components to be inspected are:

- (a) Transmission Guard Panel
- (b) Hood Assemble
- (c) Side Shield (Engine Door Assemblies)

- (d) Grill Assembly
- (e) Front and Rear Fender Assemblies
- (f) Cab Shields

(3) Rollover Protection Support (ROPS).

If the vehicle shows signs of a rolled over, or the ROPS cab has been in some type of accident (such as hitting an overhead object during operation or transport), inspect for damage to the ROPS cab, operators seat and seat belt, and all accessories, wiring, ect in the ROPS cab. If damage is found to the ROPS cab, replacement of the ROPS cab is mandatory. Do not weld or try to make the ROPS cab straight. If replacement of the ROPS cab is required, ROPS cab shall be replaced with the Marine Corps configuration ROPS cab.

n. Hydraulic System.

Clean and inspect hydraulic tank for dents, cracks, and leakage. Clean and inspect tank interior for rust, corrosion, and foreign material. Clean tank interior and repair tank if needed using standard commercial practices. Metallic hydraulic lines shall be free of kinks, flatten areas, rounded off fittings, and corrosion. Replace all hydraulic filters 100 percent.

The hydraulic system is to be tested as per test procedures located in TM 09148A-14/4.

Malfunctions identified during this testing shall be corrected. All hydraulic valves, pumps, cylinders, and accessories shall be clean, disassembled, inspected and overhauled in accordance with component repair/replace procedures located in TM 09148A-14/2.

After hydraulic system overhaul, the complete system shall be filtered to remove foreign matter using the hydraulic oil cleanup procedures located in TM 09148A-14/4, Page 9025-20-1.

Boom height kick out and return to dig functions shall be adjusted to specification identified in TM 09148A-Sections 9025-20-2 and 9025-20-3.

Replace hydraulic hoses if any of the following conditions exist:

- (1) Replace if any evidence of hydraulic oil leakage at the surface of the hose or its junction with the metal end couplings.
- (2) Replace if any blistering or abnormal deformation to the outer covering of the hose.
- (3) Replace if hydraulic oil leak at any threaded or clamped joint that cannot be eliminated by normal tightening.
- (4) Replace if evidence of excessive abrasion or scrubbing on the outer surface of hose or hoses.

o. 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 paragraph 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.

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

All exterior surfaces of the 644 LOADERS shall be painted with Chemical Agent Coating (CARC) paint. Paint color shall be Desert Sand or Green 383. Color of individual 644 Loaders will be identified by the Contract Officer and/or their representative's) upon induction into the rebuild cycle.

All 644 LOADER operator cab interiors shall be painted in the existing color. This paint shall be a lead and chromate free based paint .

p. DATA PLATES AND DECALS.

DATA PLATE. Each repaired 644 Loader shall have an a Rebuild data plate affixed next to the original existing vehicle data plate. The data plate shall meet the requirements of MIL-STD-130 and TM 09148A-14/4. Replace all data plates and decals that are missing and illegible. Rebuild data plates shall be prepared by the Contractor and contain the following information:

VEHICLE SERIAL NO _____
 REPAIRED IN ACCORDANCE WITH SOW-00-2-837-09148A-1/1.
 CONTRACTOR _____
 DATE _____
 HOUR METER READING AT TIME OF REBUILD _____

NOTE

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

RECORD JACKET: All major equipment or components serial numbers that are replaced during the rebuild are to be identified by the Contractor to be recorded in the record jacket of the 644 Loaders (This include engines, transmissions, etc.).

Information will list the 644 Loaders 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..

3.2.3. PHASE III - INSPECTION, TESTING AND ACCEPTANCE.

a. Inspection, testing and acceptance of the 644 Loaders shall be conducted in accordance with TM 09148/14-2 and TM 09148A-14/4 and this SOW.

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. Contract Officer and/or their representative(s) shall be given a minimum of two weeks notice prior to beginning acceptance testing. The test area shall be cleared of all equipment part, components, ect, not required for the test.

c. All 644 loaders rebuilt under the provisions of this SOW shall be Condition Inspected as per MCO P11262.2. A completed Condition Inspection Record shall be provided for insertion in the vehicle record jacket. A completed Condition Inspection Record shall be over packed with each vehicle. Condition Inspection Record can be found in MCO P11262.2, Table 4-2, page 4-9 through 4-11.

Vehicle Boom Assembly shall be stenciled with one inch letters and in a location that is readily visible, that the equipment has been Condition Tested and the date tested. Stencil shall be in a lusterless black paint. Stencil sample: Condition Tested 01 Jan 99.

d. The Contractor shall be responsible for correcting any deficiencies identified during inspection/testing. Contract Officer 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.

e. 644 Loaders shall be lubricated and greased in accordance with the vehicle lubrication chart LI 09148A-12. All coolant and oil levels shall be full to proper levels.

f. 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."

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

a. The contractor shall be responsible for preservation and packaging of the items being repaired under the terms of 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 Pre

positioned 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 NOT FOR WEATHER DECK STOWAGE. Items scheduled for MPF shall be preserved to level B MPF Modified Drive-away.

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

(1) Drive-on/Drive-off: Batteries will be hot and disconnected from the vehicle electrical system. Terminals and leads will be taped. Fuel tank will be $\frac{1}{4}$ full. The 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 be filled $\frac{3}{4}$ 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 addresse(s) 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 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 644 Loader to record the inspection findings along with other required data.

b. 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. The Contractor shall apply configuration control to established baseline configuration item. Deviations from the established baseline configuration will not be allowed, without the written approval of the Weapon System/Equipment manager Code 837-2. If it is necessary to 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 and 5.4.4 and Appendix E) may be used as a guide.

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

GFE is government owned equipment authorized by contract for use by a commercial or 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.

3.5 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 4400.25-1-M, (MILSTRIP) Chapter 11 authorizes contractors to requisition through the DoD Supply System.

3.6 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 Contract Officer and/or their representative(s) during contract performance. Inspection may be accomplished at any work location. Authorized Contract Officer 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 Contract Officer 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 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 Contract Officer 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 the work performed and to enforce compliance with quality assurance procedures or face contract termination.

Notwithstanding such Contract Officer and/or their representative's inspection, it shall be the Contractor responsibility to ensure that the entire system meets the performance requirements delineated and addressed in the 644 Loader TM 09148A-14/2, TM 09148A-14/4 and this SOW.

Quality assurance operations performed by the Contractor shall be subject to the Contract Officer and/or their representative's) verification at any time. The Contract Officer and/or their representative's) verifications 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 644 Loader, this SOW, and applicable documents used herein.
- d. Failure of the repair facility to promptly correct deficiencies discovered, shall be a reason for suspension of acceptance until corrective action has been made.

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's facility. Finally acceptance shall be conducted on 100 percent of items to verify that the units meet all requirements.

Acceptance testing. The 644 Loader rebuilt under the provisions of this SOW shall be accomplished in accordance with TM 09148A-14/2, TM 09148A-14/4, MCO P11262.2, and this SOW.

3.8 REJECTION

Failure to comply with any of the specified requirements listed herein shall be reason for rejection by the Contract Officer 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

4.1 Pre-Induction Checklist. The Contractor shall complete the Pre-Induction Checklist (Appendix A) for each 644 Loader repaired. This document shall be available during final

**PRE-INDUCTION CHECKLIST
644E/644ER LOADER**

Vehicle Serial Number _____

Vehicle Hours _____

Use this sheet to record Operational Checkout results. Bold face numbers in Group 9005-10 of TM 09148A-14/4 correspond to numbers on the record sheet. Perform the Operational Checks before installing any test equipment.

SYSTEM	OK	NOT OK	REMARKS
1. Monitor Indicator and Gauge Checks. (Engine Off) > Key Switch Check > Monitor Bulb Check Circuit Check > Monitor Indicator Circuit Check > Monitor Time Delay Check > Monitor Primary /Secondary Level Check > Monitor Operating Information Indicator Checks > Fuel Gauge Checks > Transmission Temperature Gauge Check > Hour Meter Check	_____ _____ _____ _____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____ _____ _____ _____	
2. TRANSMISSION, AXLE AND ENGINE LINKAGE, NEUTRAL START SWITCH AND REVERSE WARNING ALARM SWITCH CHECKS. > Transmission Selector Level and Neutral Lock Latch Checks > Neutral Start and Reverse Warning Alarm Circuit Checks > Engine Speed Control Linkage Checks > Fuel Shut-Off Cable Linkage Check > Front Axle Disconnect Check	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____	
3. Monitor Indicator and Gauge Checks. (Engine Running) > Monitor Check > Fan Disconnect Check	_____ _____	_____ _____	

<p>4. Brake System, Clutch Group, and Differential Lock Checks</p> <ul style="list-style-type: none"> > Park Brake Linkage Check > Park Brake Capacity Check > Park Brake Transmission Lockout Check > Service Brake Pump Flow Check > Service Brake Capacity Check > Brake Accumulator Pre charge Check > Brake System Leakage Check > Service Brake Pedal Check > Service and Park Brake System Drag Checks > Differential Lock Check > Differential Lock Leakage Check > Clutch Group 	<p>____</p>	<p>____</p>	
<p>5. DRIVING CHECKS</p> <ul style="list-style-type: none"> > Transmission Oil Warn-Up Procedures > Transmission Noise Check > Forward, Reverse, and 4th Speed Clutch Pack Drag Check > 1st, 2nd, And 3rd Speed Clutch Pack Drag Check > Clutch Cut off Check > Transmission Pressure, Pump Flow, And Leakage Check > Transmission Shift Modulation Check 	<p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p>	<p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p>	
<p>6. HYDRAULIC SYSTEM CHECKS</p> <ul style="list-style-type: none"> > Hydraulic System Warm-up Procedure > Hydraulic Pump Performance Check > Control Valve Lift Check > Bucket Rollback Circuit Relief Valve Check > Bucket Dump Circuit Relief Valve Low Pressure Check > Bucket Dump Circuit Relief Valve High Pressure Check > Boom Raise Circuit Relief Valve Check > Pilot Control Valve Pressure Check 	<p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p>	<p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p>	

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<ul style="list-style-type: none"> > Boom and Bucket Cylinder Drift Check > Boom Lower Solenoid Valve Check > Boom Lower Solenoid Valve Leakage Check > Pilot Controller Check > Return to Dig Check > Boom Height Kick out Check > Boom Float Check 	<p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p>	<p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p>	
<p>7. STEERING SYSTEM CHECKS</p> <ul style="list-style-type: none"> > Steering Valve Check > Steering System Leakage Check > Priority Valve Pressure Check > Secondary Steering System Check > Secondary Steering System Primary Check Valve Check 	<p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p>	<p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p>	
<p>8. ACCESSORY CHECKS</p> <ul style="list-style-type: none"> > Operating Lights Check > Work Light Check > Turn Signal and Flasher Check > Brake Light Check > Dome Light Check > Horn Circuit Check > Windshield Washer and Wiper Check > Cigar Lighter Check > Defroster Blower Check > Heater/Air Conditioner Blower Check > Air Conditioner Functional Check > Starting Aid System Check > Air Compressor Check 	<p>____</p>	<p>____</p>	
<p>9. CAB COMPONENTS AND VANDAL PROTECTION CHECKS</p> <ul style="list-style-type: none"> > Cab Door Latch Check > Cab Door and Window Hold Open Latch Check > Cab Door Lock Check > Cab Window Check > Cab Window Hold Open Latch and Rod Check > Steering Column Adjustment Check > Seat and Seat Belt Check > Air Intake Filter Door Check > Engine Side Panels Check 	<p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p>	<p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p>	

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> Radiator Cap Access Door Check	—	—	
> Service Decal Check	—	—	

**FINAL INSPECTION CHECKLIST
644 LOADER**

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 static test with the vehicle engine operating.

ITEM	CHARACTERISTIC	METHOD OF INSPECTION	OK	REMARKS
1	ENGINE Condition Operation Leakage Mounting Screws Washers Nuts Paint Spec. Conformance Coverage Lubrication Application and Type Lubrication Level Meets Requirements of SOW	_____ Visual _____ Functional _____ Visual _____ Wrench _____ Visual _____ Wrench _____ Visual _____ Visual _____ Certification _____ Visual _____ YES _____ NO	_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	
2	DRIVE BELTS Replaced 100 % Adjustment	_____ YES _____ NO _____ Gauge	_____ _____	
3	ENGINE COOLANT HOSES AND LINES Condition Leakage Replaced 100% Mounting Clamps	_____ Visual _____ Visual _____ YES _____ NO _____ Screwdriver	_____ _____ _____ _____	

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4	FUEL SYSTEM Condition Leakage Operation Mounting Fittings Secure Clamps and Bolts Filters Replaced 100%	_____ Visual _____ Visual _____ Functional _____ Visual _____ Wrench ___ YES ___ NO	_____ _____ _____ _____ _____ _____	
5	RADIATOR Condition Coolant Level Leakage Freeze Protection -20 Degree Protection Mounting Screw Washers Nuts Paint Spec. Conformance Coverage	_____ Visual _____ Visual _____ Visual _____ Gauge _____ Wrench _____ Visual _____ Wrench _____ Visual _____ Visual	_____ _____ _____ _____ _____ _____ _____ _____	
6	MUFFLER Condition Mounting Screws Washers Nuts Clamps	_____ Visual _____ Wrench _____ Visual _____ Wrench _____ Visual	_____ _____ _____ _____ _____	
7	ENGINE AIR CLEANER ASSY. Condition Mounting Screws Washers Nuts Paint Spec. Conformance Coverage	_____ Visual _____ Wrench _____ Visual _____ Wrench _____ Visual _____ Visual	_____ _____ _____ _____ _____ _____	

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8	TRANSMISSION Fluid Level Condition Mounting Operation Paint Spec. Conformance Coverage Lubrication Application and Type Meets Requirements of SOW	_____ Visual _____ _____ Visual _____ _____ Visual _____ _____ Functional _____ _____ _____ Visual _____ _____ Visual _____ _____ _____ Certification _____ _____ _____ YES _____ NO _____		
9	DRIVE SHAFTS Condition Mounting Screws Washers Nuts Paint Spec. Conformance Coverage	_____ Visual _____ _____ _____ Wrench _____ _____ Visual _____ _____ Wrench _____ _____ _____ Visual _____ _____ Visual _____		
10	DRIVE DAMPER Replaced 100 % Mounting Screws Washers Nuts Cover Plates Installed	_____ YES _____ NO _____ _____ _____ Wrench _____ _____ Visual _____ _____ Visual _____ _____ _____ YES _____ NO _____		
11	AXLES Condition Operation Leakage Mounting Screws Washers Nuts Paint Spec. Conformance Coverage	_____ Visual _____ _____ Functional _____ _____ Visual _____ _____ _____ Wrench _____ _____ Visual _____ _____ Wrench _____ _____ _____ Visual _____ _____ Visual _____		

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12	WHEELS & TIRES Condition Inflation Mounting Lug Nuts	_____ Visual _____ Gauge _____ Wrench	_____ _____ _____	LF ____, RF ____, LR ____, RR ____
13	BRAKE SYSTEM Condition Operation Mounting Leakage Testing Tested as per TM 09148A-14/4, Section 9020-25 Mandatory Items Replaced?	_____ Visual _____ Functional _____ Visual _____ Visual ____ YES ____ NO ____ YES ____ NO	_____ _____ _____ _____ _____ _____	
14	PARKING BRAKE Condition Operation Testing Tested as per TM 09148A-14/4, Section 9020-10. Mandatory Items Replaced?	_____ Visual _____ Functional ____ YES ____ NO ____ YES ____ NO	_____ _____ _____ _____	
15	STEERING UNIT Item to Inspect: 1. Priority Valve 2. Steering Valve 3. Cross-Over Relief Valve 4. Secondary Steer Pump 5. Secondary Steering Switch 6. Hydraulic Hoses 7. Steering Cylinders 8. Main Hydraulic Pump 9. Steering Column Over All Operation Operates Smoothly Does not wander or pull	_____ Functional _____ Functional _____ Functional _____ Functional _____ Functional _____ Visual _____ Functional _____ Functional _____ Functional _____ Functional _____ Functional	_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	

<p>16</p>	<p>ELECTRICAL SYSTEM Condition Component Operation Receptacles & Plugs Mounting Clamps Screws Washers Nuts Straps</p>	<p>_____ Visual _____ Functional _____ Visual _____ Visual _____ Wrench _____ Visual _____ Visual _____ Visual</p>	<p>_____ _____ _____ _____ _____ _____ _____</p>	
<p>17</p>	<p>INSTRUMENT PANEL, GUAGES, & MODULE Condition Operation Mounting Clamps Screws Washers Nuts</p>	<p>_____ Visual _____ Functional _____ Visual _____ Wrench _____ Visual _____ Wrench</p>	<p>_____ _____ _____ _____ _____ _____</p>	
<p>18</p>	<p>FRAME, CHASSIS, AND SUPPORTING STRUCTURE Items to inspect: 1. Pintle and Counterweight Assy 2. Engine Frame Assy 3. Loader Frame Assy 4. Loader Linkage 5. Loader Boom 6. Attachment Coupler 7. Step Assembly 8. Vehicle Guards Mandatory Items Replaced?</p>	<p>_____ Visual _____ YES _____ NO</p>	<p>_____ _____ _____ _____ _____ _____ _____ _____</p>	

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23	TEST DRIVE INSPECTION 1. Steering Operation 2. Shifting Operation 3. Brake Operation 4. Engine Operation 5. Unusual Noises, Vibration Rattles 6. Return to Dig Function 7. Boom Height Kick out Function 8. Fluid Leakage	_____ Functional _____ Functional _____ Functional _____ Functional _____ Functional _____ Functional _____ Functional _____ Functional _____ Visual	_____ _____ _____ _____ _____ _____ _____ _____ _____	
24	DATA PLATES OEM Plate Installed Rebuild Plate Installed	_____ Visual _____ Visual	_____ _____	

**CONFIGURATION CHECKLIST
JOHN DEERE MODELS 644/644ER LOADERS
NSN 3805-01-279-3635**

VEHICLE:

Vehicle OEM Serial Number _____.

Marine Corps Registration Number _____.

OEM Model Number: _____ 644E _____ 644ER

Vehicle Hours at Pre-Induction Inspection: _____ HRS

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 _____

APPROVED CONFIGURATION CHANGES:

Approved Waivers/Deviations applied during Rebuild:

Waivers: _____

Deviations: _____

ECPs generated by approved Waivers/Deviations:

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 _____ <input checked="" type="checkbox"/>
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D. SYSTEM/ITEM 644E and 644ER Loader	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. A002	2. TITLE OF DATA ITEM Request For Waiver	3. SUBTITLE Configuration Management
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4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80641B	5. CONTRACT REFERENCE SOW 3.3.2	6. REQUIRING OFFICE MCLBA (825)
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED A	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION		
8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE		b. COPIES	
				Draft	Final	
					Reg	Repro

18. 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.	15. TOTAL →	0	1	0

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY <i>Carol L. ...</i>	H. DATE 9-28-99	I. APPROVED BY <i>[Signature]</i>	J. DATE 10-6-99
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