DRAFT
Maintenance Concept Remains Consistent with Prior Fiscal Year

STATEMENT

OF

WORK

FOR

REBUILD OF THE SERVICING PLATFORM

NSN 2320-01-312-2616

ID No. 09377A

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STATEMENT OF WORK
FOR REBUILD OF THE SERVICING PLATFORM
NSN 2320-01-312-2616, ID 09377A

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 Servicing Platform, Model LRT 110 (hereafter known as Servicing Platform), in support of the Crane, Wheeled Mounted, 7 ½ Ton, Model LRT 110, NSN 3810-01-165-0646. This document contains requirements to restore the Servicing Platform to Condition Code "A". Condition Code A is defined as "serviceable/issuable without qualification, new, used, repaired or reconditioned material which is serviceable/issuable to all customers without limitation or restriction. This includes material with more than six months shelf-life remaining".

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 or components, repairs or replacement of worn or unserviceable elements using original manufacturing tolerances and/or specifications and subsequent reassembly 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 in the Department of Defense Index of Specifications and Standards (DODISS) 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 STANDARDS**

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

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

DoD 4000.25-1-M	Military Standard Requisitioning and Issue Procedures (MILSTRIP)
TM 4795-34/2	Corrosion Prevention and Control
TM 4750-15/1	Painting and Registration Marking of Marine Corps Combat and Tactical Equipment

LRT 110 Boom MTD Work Platform	Koehring Commercial Installation, Operation & Maintenance Instructions Manual (Publication Control Number 50000126800)
LRT 110 Boom MTD Work Platform	Koehring Commercial Installation, Operation & Maintenance Instructions, Supplement (Publication Control Number 50000126870)

Military Handbooks (For Guidance)

MIL-HDBK-61	Configuration Management Guidance

2.3 **INDUSTRY STANDARDS**

ANSI/ISO/ASQC Q9002-1994	Quality Systems-Model for Quality Assurance in Production, Installation, and Servicing
ASTM D 3951-98	Standard Practice for Commercial Packaging

Industry Standards (For Guidance)

ANSI/EIA-649	National Consensus Standards for Configuration Management

Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, commercial telephone number (215) 697-2179 or DSN 442-2179, or http://www.dodssp.daps.mil. Copies of 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), P.O. Drawer 43019, 814 Radford Blvd., Marine Corps Logistics Bases, Albany, Georgia 31704-3019, commercial telephone number (229) 639-6761 or DSN 567- 6761. Copies of engineering drawings, if applicable, shall be obtained from Supply Chain Management Center, Attn: Code 583-1, 814 Radford Blvd., Suite 20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6410 or DSN 567-6410.

3.0 **REQUIREMENTS**.

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

a. Perform a complete overhaul/rebuild of the Servicing Platform in accordance with Koehring Commercial Installation, Operation & Maintenance Instructions manual and supplement.

b. Provide materials, labor, facilities, repair parts, and missing parts necessary to inspect, diagnose, restore, and test the Servicing Platform. Upon completion of the rebuild, the Servicing Platform shall be condition code "A".

c. All Servicing Platform systems and components shall operate as designed intended.

d. All Servicing Platforms shall have a "Like New" appearance.

3.2 **REBUILD OBJECTIVE AND FUNCTIONS**. After Rebuild, the Servicing Platform shall have the following minimum characteristics:

a. Reliable as per system specifications.

b. Maintainable as per system specifications.

c. Serviceable (Condition Code "A").

d. Latest Marine Corps Configuration.

e. All equipment systems and components shall operate as intended.

f. All Servicing Platforms shall have a "Like New" appearance.

3.3 **DETAIL TASKS**. The following tasks describe the different phases for Rebuild of the Servicing Platform.

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

3.3.1 **PHASE I PRE-INDUCTION**.

a. A pre-induction inspection analysis shall be performed for the Servicing Platform using the Contractor'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 Marine Corps Systems Command, Albany GA, Code GTES-ES, 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 1 LEAK IS THE ONLY ACCEPTABLE CONDITION AND DOES NOT REQUIRE CORRECTIVE ACTION

3.3.2 **PHASE II - REBUILD**. Rebuild shall be performed at the Contractor's facility. Information recorded on the Pre-Induction Checklist (Appendix A) 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 Servicing Platform shall be accomplished in accordance with this SOW and KOEHRING Commercial Installation, Operation & Maintenance Instructions. Deficiencies noted on the Pre-Induction Checklist during Phase I shall be repaired/replaced.

a. **SERVICE AND PARTS MANUAL**: The Service and Parts Manuals listed below contain repair procedures and repair parts list for the Servicing Platform. Repair procedures contained in these manuals are to be used to repair deficiencies identified on the Pre-Induction Checklist (Appendix A).

(1) KOEHRING Commercial Installation, Operation & Maintenance Instructions

(2) Supplement 1, KOEHRING Commercial Installation, Operation & Maintenance Instructions

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

c. **HARDWARE**:

(1) Replace broken, unserviceable and/or missing hardware, including nuts, bolts, screws, washers, turn lock fasteners, safety and one-time use items, etc. Unserviceable would include any of the above that fails to function properly.

(2) Ensure proper hardware locking devises 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.

d. **HYDRAULIC SYSTEM**. The hydraulic system is a hand-operated system that provides hydraulic pressure to adjust the platform to a level work position. Hydraulic system consists of Leveling Pump and Handle Assembly, Directional Control Valve, Level Lock Valve, Hydraulic Hoses, and a Leveling Cylinder. Hydraulic components are to be cleaned, tested, and repaired/replaced as required. No leakage of the hydraulic system is permitted. Inspection, testing, and repair/replacement procedures are contained in the Koehring Commercial Installation, Operation & Maintenance Instructions Manual and Supplement.

e. **PLATFORM FRAME, ADAPTER ASSEMBLY, GUARDS, AND PLATE ASSEMBLIES**. Platform frame shall contain no weld cracks. Platform sides and deck shall contain no holes that were not designed into the platform. Deformed, cracked, or corroded members of the platform structure shall be repaired/replaced as required. Replace missing guards and plate assemblies. Inspect gate assembly, gate hinges, and latch for damage and proper operation. Repair/replace components as required. Inspect decking and sidewall expanded metal panels to assure panels are securely mounted (welded) to the platform structure. No loose panels are permitted. Inspect boom tip retaining pin, leveling cylinder pin, pin retaining devises, adapter assembly, and platform support ears for damaged, bent, missing or corroded components. Replace as required. Inspect very closely the adapter assembly and the platform support ears for damage. Repair/replace items as required.

f. **RUST PROOFING AND PAINTING**. All Servicing Platforms shall be rust proofed as required. Rust proofing shall be in accordance with TM 4795-34/2. Prime and paint per latest edition of TM 4750-15/1. Paint color shall be Desert Sand or 383 Green. Color of the platform will be identified by the Marine Corps Systems Command, Albany GA, Code GTES-ES and/or their representative(s) upon induction into the rebuild cycle.

g. **DATA PLATES AND DECALS**. Each rebuilt platform shall have a rebuild data plate affixed next to the original platform data plate. The data plate shall meet the requirements of MIL-STD-130. 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:

PLATFORM SERIAL NO. _____
REBUILT IN ACCORDANCE WITH SOW-05-CSLE-09377A-1/1
CONTRACTOR _____
DATE _____

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

a. Inspection, testing and acceptance of the Servicing Platform shall be conducted in accordance with Koehring Commercial Installation, Operation & Maintenance Instructions Manual and Supplement 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. Marine Corps Systems Command, Albany GA, Code GTES-ES 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, etc, not required for the test.

c. The Contractor shall be responsible for correcting any deficiencies identified during inspection/testing. Marine Corps Systems Command, Albany GA, Code GTES-ES and/or their representative(s) may require the Contractor to repeat tests, or portions thereof, if the original tests fail to demonstrate compliance with this SOW.

d. Equipment Markings. Registration numbers and other markings shall be applied in accordance with TM 4750-15/1.

3.3.4 **PACKAGING, HANDLING, STORAGE AND TRANSPORTATION (PHS&T)**

a. The Contractor shall be responsible for preservation and packaging of items being rebuilt under the terms of this statement of work. Items scheduled for long term storage or shipment to overseas destinations shall be in accordance with the level A requirements of MIL-STD-2073-1D, Method 10. Items scheduled for domestic shipment for immediate use or short-term storage shall be to level B requirements.

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

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

3.4 **CONFIGURATION CONTROL**. The Contractor shall apply configuration control procedures to established configuration items. The contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. If it is necessary to temporarity depart from the authorized configuration, the contractor shall prepare and submit a Request For Deviation, MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing this configuration control document.

3.5 **Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM)**. The Management Control Activity (MCA/Code 573-2) will coordinate Government Furnished Equipment/Government Furnished Materiel (GFE)/(GFM) requests and maintain a central control system on all government owned assets in the contractor's possession. The MCA will forward a GFE Accountability Agreement to the contractor for signature on an annual basis to establish a chain of custody and identify property responsibilities for Marine Corps assets. The contractor is to acknowledge receipt of GFM to the MCA within 15 days of receipt. This can be done by mailing a copy of the DD1348 to Materiel Management Department, Management Control Activity (Code 573-2), 814 Radford Blvd., STE 20320, Albany, GA 31704-0320, or by faxing a copy to commercial telephone number 229-639-5498 or DSN 567-5498.

3.6 **CONTRACTOR FURNISHED MATERIEL (CFM)**. The contractor may requisition materiel as required in the performance of the SOW through the DoD Supply System. DoD 4000.25-1-M (MILSTRIP) Chapter 11 provides guidance to contractors on the requisitioning process. The contractor's decision to utilize CFM procured from the DoD Supply System shall be based upon cost effectiveness, availability of material and the required completion/delivery date.

3.7 **QUALITY ASSURANCE PROVISIONS**.

The performances of the Contractor and the quality of work delivered, material provided and documents written shall be subject to in-process review and inspection by Marine Corps Systems Command, Albany, GA., Code GTES-ES and/or their representative(s) during contract performance. Inspection may be accomplished at any work location. Authorized Marine Corps Systems Command, Albany, GA, Code GTES-ES 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 Marine Corps Systems Command, Albany, GA, Code GTES-ES 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 Marine Corps Systems Command, Albany, GA, Code GTES-ES 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 Marine Corps Systems Command, Albany, GA, Code GTES-ES and/or their representative's inspection, it shall be the Contractor's responsibility to ensure that the entire system meets the performance requirements delineated and addressed in the KOEHRING Commercial Installation, Operation & Maintenance Instructions and this SOW.

Quality assurance operations performed by the Contractor shall be subject to the Marine Corps Systems Command, Albany, GA, Code GTES-ES and/or their representative(s) verification at any time. The Marine Corps Systems Command, Albany, GA, Code GTES-ES 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 Servicing Platform, this SOW, and applicable documents used herein.

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

3.8 **ACCEPTANCE**. The performance of the Contractor and the quality of work delivered, including all equipment furnished and documentation written or compiled shall be subject to in process review and inspection during performance. Inspection may be accomplished in plant or at any work site or location, Marine Corps Systems Command, Albany, GA, Code GTES-ES 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. Final acceptance shall be conducted on 100 percent of items to verify that the units meet all requirements. Platforms rebuilt under the provisions of this SOW shall be accomplished in accordance with Koehring Commercial Installation, Operation & Maintenance Instructions, and this SOW.

3.9 **REJECTION**. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by the Marine Corps Systems Command, Albany, GA, Code GTES-ES and/or their representative(s). The Contractor at no additional cost to the Marine Corps shall 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 compliance test procedures are demonstrated.

4.0 REPORTS

4.1 **Pre-Induction Checklist**. The Contractor shall complete the Pre-Induction Checklist (Appendix A) for each Platform rebuilt under this SOW. This document shall be available during final acceptance testing. One copy of each document shall be provided to the Marine Corps

Systems Command, Code GTES-ES, 814 Radford Blvd., Suite 20343, Albany, GA 31704-0343 after final acceptance of the Servicing Platform, or upon request.

4.2 **Final Inspection Checklist**. The Contractor shall complete the Final Inspection Checklist (Appendix B) for each Platform rebuilt under this SOW. This document shall be available during final acceptance testing. One copy of each document shall be provided to Marine Corps Systems Command, Code GTES-ES, 814 Radford Blvd., Suite 20343, Albany, GA 31704-0343 after final acceptance of the Platform, or upon request.

PRE-INDUCTION CHECKLIST
SERVICING PLATFORM, MODEL LRT 110

Equipment Serial No. _____

Servicing Platform **Model LRT 110** **NSN 2320-01-312-2616**	SAT	MISSING	SERVICE	ADJUST	REPAIR	REPLACED	MODIFY	REMARKS
1. Platform Assembly a. Guards b. Gate Assembly 1. Hinges 2. Latch 3. Gate c. Decking d. Side Walls e. Platform Frame Members								
2. Adapter Assembly a. Weldment b. Pins and Pin Retainers								
3. Hydraulic System a. Leakage b. Hydraulic Cylinder c. Hydraulic Pump d. Lock Valve e. Directional Control Valve f. Hose Assemblies								
4. Paint a. Coverage								
5. Equipment Data Plates a. Condition b. Mounting								

REMARK:

FINAL INSPECTION CHECKLIST
SERVICING PLATFORM, MODEL LRT 110

Equipment Serial Number: _____

Servicing Platform Model LRT 110 NSN 2320-01-312-2616	SAT	TESTED	SERVICE	LUBRICATED	UNSAT	REMARKS
1. Platform Assembly a. Guards b. Gate Assembly 1. Hinges 2. Latch 3. Gate c. Decking d. Side Walls e. Platform Frame Members						
2. Adapter Assembly a. Weldment b. Pins and Pin Retainers						
3. Hydraulic Assembly a. Leakage b. Hydraulic Cylinder c. Hydraulic Pump d. Lock Valve e. Directional Valve f. Hose Assemblies Hydraulic system at correct oil level?						
4. Equipment Paint Condition Coverage Spec. Conformance						
5. **Equipment Data Plates** Condition Mounting						