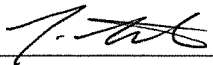


TECO ENERGY SUPPLY THERMAL PLANT MAINTENANCE PRACTICE	Practice No.	TMP - 008
	Approval Date:	11/19/19
	Prepared By:	Joe Legner
	Approved By:	
TITLE: MOBILE CRANES AND HOISTS		

1.0 PURPOSE

This practice outlines recommendations for the inspection, testing, maintenance and certification requirements of mobile cranes and hoists. This standard is intended to minimize injury to workers and provide direction to owners by prescribing inspection and safety requirements as noted below and in general accordance with ASME B30.5-“Mobile and Locomotive Cranes”. Crane inspections are required by OSHA in 29 CFR 1926.1412.

2.0 SCOPE

The practice applies to Energy Supply owned mobile cranes and fixed cranes, hoists, jibs, monorails (trolley beams), bridge cranes, derricks, and gantry cranes.

3.0 PROGRAM

3.1. Mobile Cranes

1. The equipment owner shall develop detailed, equipment-specific checklist and / or procedures where applicable for inspections called for in this Thermal Maintenance Practice (TMP). Checklists and procedures shall be written to meet the requirements of the following standards:
 - a) ASME B30.5 – Mobile and Locomotive Cranes
 - b) ASME B30.10 – Hooks
 - c) OSHA 29 CFR 1910.180 – Crawler locomotive and truck cranes
 - d) OSHA 29 CFR 1926 Subpart CC – Cranes and derricks in construction
 - e) OSHA 29 CFR 1926.601 – Motor vehicles
 - f) Manual for the specific make and model of crane
2. Visual Inspection: A competent person shall perform a visual inspection prior to each shift the equipment will be used.
3. Comprehensive Inspection: Each mobile crane shall be inspected, tested, and maintained:
 - a) Prior to first use.
 - b) Annually in accordance with 29 CFR 1926.1412(f).
 - c) Prior to return to service after having been idle for three (3) months or more in accordance with the monthly inspection requirements of 29 CFR 1926.1412(e)
 - d) Upon completion of assembly.

**TECO ENERGY SUPPLY
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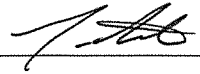
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TITLE: MOBILE CRANES AND HOISTS

- e) After any modification¹ and prior to return to service in accordance with 29 CFR 1926.1412(a).
- f) Whenever the crane has been subjected to “severe service” as defined in 29 CFR 1926.1412(g).
- 4. Monthly Inspection: Equipment shall be inspected monthly in accordance 29 CFR 1926.1412(e).
- 5. A preventive maintenance program shall be established and based on the recommendations outlined in the crane manufacturer's manual and ASME B30.5. Dated records shall be placed on file.
- 6. Replacement parts for mobile cranes shall be obtained from the original equipment manufacturer (OEM). When OEM parts are unavailable, part substitutions shall be carefully reviewed to ensure compliance with the crane's original specifications.
- 7. Replacement parts for mobile cranes shall be domestically sourced and shall be provided with documentation thereto.

3.2. Fixed Cranes and Hoists

- 1. The equipment owner shall develop detailed, equipment-specific checklist and / or procedures where applicable for inspections called for in this Thermal Maintenance Practice (TMP). Checklists and procedures shall be written to meet the requirements of the following standards:
 - a) ASME B30.2 – Overhead and gantry cranes (top running bridge, single or multiple girder, top running trolley hoist)
 - b) ASME B30.17 – Cranes and monorails (with underhung trolley or bridge)
 - c) OSHA 29 CFR 1910.179 – Overhead and gantry cranes
 - d) OSHA 29 CFR 1926 Subpart N – Helicopters, hoists, elevators, and conveyors
 - e) OSHA 29 CFR 1926 Subpart CC – Cranes and derricks in construction
 - f) Manual for the make and model of crane
- 2. Visual Inspection: A competent person shall perform a visual inspection prior to each shift the equipment will be used.

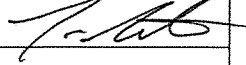
¹ “Modification” includes repairs, replacements, adjustments, or other changes to critical components, including, but not limited to safety devices, control systems, engines, braking systems, load-sustaining structural components, and load hooks.

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TITLE: MOBILE CRANES AND HOISTS

3. Comprehensive Inspection: Each mobile crane shall be inspected, tested, and maintained:
 - a) Prior to first use.
 - b) Annually in accordance with 29 CFR 1926.1412(f).
 - c) Prior to return to service after having been idle for three (3) months or more in accordance with the monthly inspection requirements of 29 CFR 1926.1412(e)
 - d) Upon completion of assembly.
 - e) After any modification² and prior to return to service in accordance with 29 CFR 1926.1412(a).
 - f) Whenever the crane has been subjected to “severe service” as defined in 29 CFR 1926.1412(g).
4. Monthly Inspection: Equipment shall be inspected monthly in accordance 29 CFR 1926.1412(e).
5. A preventive maintenance program shall be established and based on the recommendations outlined in the crane manufacturer's manual and ASME standards. Dated records should be placed on file.
6. Replacement parts for fixed cranes shall be obtained from the original equipment manufacturer (OEM). When OEM parts are unavailable, part substitutions shall be carefully reviewed to ensure compliance with the crane’s original specifications.
7. Replacement parts for fixed cranes shall be domestically sourced and shall be provided with documentation thereto.

4.0 MAINTENANCE/INSPECTION FREQUENCY

Type of Inspection	Frequency
Visual Inspection	Prior to each shift
Comprehensive Inspection	Annually and additionally per Section 3 above
Monthly Inspection	Monthly

² “Modification” includes repairs, replacements, adjustments, or other changes to critical components, including, but not limited to safety devices, control systems, engines, braking systems, load-sustaining structural components, and load hooks.

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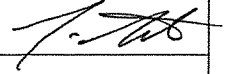
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5.0 DOCUMENTATION

1. The equipment owner shall document each inspection as required by 29 CFR 1926.1412. At a minimum, such documentation shall include (1) date of the inspection, (2) name and signature of person who conducted the inspection, and (3) items checked and results. Records shall be retained for a minimum of three (3) years. Records shall be made available to any person who performs inspections.

6.0 MANAGEMENT RESPONSIBILITIES

- All preventative maintenance and associated Work Orders shall be regularly reviewed and maintained.
- All TMP identified requirements will be audited on a 3-year rotating basis.

7.0 AUDITING

1. Procedure written for each type of crane.
2. Annual inspections are up to date.
3. Monthly inspections are up to date.
4. Records of inspections are available to any person who performs inspections.