



CHERIE K. BERRY  
COMMISSIONER

JOHN R. BOGNER  
CONSULTATIVE SERVICES BUREAU CHIEF  
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH

## CRANE INSPECTIONS IN STEEL ERECTION

### WELCOME!

This sample program is provided to assist you as an employer in developing programs tailored to your own operation. We encourage you to copy, expand, modify and customize this sample as necessary to accomplish this goal.

This document is provided as a compliance aid, but does not constitute a legal interpretation of OSHA Standards, nor does it replace the need to be familiar with, and follow, the actual OSHA Standards (including any North Carolina specific changes.) Though this document is intended to be consistent with OSHA Standards, if an area is considered by the reader to be inconsistent, the OSHA standard should be followed. Of course, we welcome your comments and feedback!

The North Carolina Department of Labor OSH Consultative Services Bureau can be contacted for further assistance such as helping you set up your individual program and even with on-site surveys. Feel free to contact us at 1-800-NCLABOR or at 919-807-2899. You may also want to visit our website at <http://www.nclabor.com/osha/consult.bcs1.htm>

Remember: A written safety/health program is only effective if it is put into place!

## Inspection of Cranes In Steel Erection 1926.753(c)

Date of Inspection \_\_\_\_\_ Crane Manufacturer \_\_\_\_\_

Signature of Inspector \_\_\_\_\_ Crane Serial No. or Identifier \_\_\_\_\_

Any deficiencies shall be required to be repaired or defective parts replaced before continued use.

**OK**   **Not**  
   **OK**

- Rated load capacities, operating speeds, special hazard warning or instruction posted on equipment.
- Instructions or warning visible to operator while at control station.
- A competent person inspects all machinery and equipment prior to each use, and during use, to make sure it is in safe operating condition.
- Wire rope shall be taken out of service when:
  - 1. In running rope 6 randomly distributed broken wires
  - 2. Wear of 1/3 the original – to outside individual wires.
  - 3. Evidence of heat damage from any cause.
  - 4. Reduction in diameter of rope.
  - 5. In standing ropes more than 2 broken wires in 1 lay in sections beyond end connection
- All moving parts exposed to employee contact are guarded.
- Swing radius of the rear of the rotating super structure guarded.
- Exhaust pipes guarded or insulated.
- No visible distortion of window safety glass.
- Guardrails, hand hold steps provided for easy access to cab.
- Platform and walkways have antiskid surfaces.
- Fire extinguisher accessible (5 BC minimum).
- Crane operated clear of electrical lines.
- No modifications or additions which affect the operating capacity or safe operation of the crane shall be made by the employer without the manufacturer's written approval.
- Check control mechanisms for maladjustments.
- Check control and drive mechanism for excessive wear or contamination.

**OK**   **Not**  
**OK**

- \_\_\_   \_\_\_   Check safety devices including boom angle indicators, boom stops, boom kick out devices, anti-two block devices and load moment indicators where required.
- \_\_\_   \_\_\_   Check air, hydraulic and other pressurized lines for deterioration or leakage.
- \_\_\_   \_\_\_   Check hooks and latches for deformation, chemical damage, cracks or wear.
- \_\_\_   \_\_\_   Check electrical apparatus for malfunctioning, signs of excessive deterioration, dirt or moisture accumulation.
- \_\_\_   \_\_\_   Check hydraulic system for proper fluid level.
- \_\_\_   \_\_\_   Check tires for proper inflation and condition.
- \_\_\_   \_\_\_   Check ground conditions around the hoisting equipment for proper support, including ground settling under and around outriggers, ground water accumulation or similar conditions.
- \_\_\_   \_\_\_   Check hoisting equipment for level position.
- \_\_\_   \_\_\_   Check hoisting equipment for level position after each move and setup.
- \_\_\_   \_\_\_   The competent person will determine if any deficiency constitutes a hazard.
- \_\_\_   \_\_\_   If the deficiency constitutes a hazard, the hoisting equipment shall be removed from service until corrected.
- \_\_\_   \_\_\_   A qualified rigger shall inspect the rigging prior to each shift in accordance with 1926.251.
- \_\_\_   \_\_\_   The headache ball, hook, or lead shall not be used to transport personnel except in a personnel platform.
- \_\_\_   \_\_\_   Safety latches on hooks shall not be deactivated. (See exceptions in 1926.753(c)(5)).

Other conditions: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Refer to your owners manuals for more specific requirements and to 1926.750; 1926.751; 1926.752 and 1926.753.