



# Annual Inspection Program

Inspections are performed by “**Certified Crane Inspectors**” all of whom have many field inspection hours and have successfully passed all certification exams. These thoroughly trained, tested and qualified inspectors evaluate and code all crane components. A complete report for each crane is generated. All deficiencies are coded and are prioritized by the impact they have on either safe crane operation or potential loss of production. A complete analysis by component and by crane is then submitted for customer review.

The following is included as part of an annual inspection program:

- A. Safety inspection report on each crane**
- B. Priority and ranking summaries to assist in recommending repairs**
- C. Work orders for each crane requiring repairs with fixed estimates upon request**

**Integrity Crane Services, Ltd** checklist covers over 200 items and includes the following at a minimum:

1. Inspect all oil/lube reservoir levels and check for leakage. Visual inspection of gearboxes. Removing gear case covers and complete inspection of gearing is available as an option.
2. Inspect the sheave drums wheels and bearings for general condition and lubrications.
3. Inspect the wire rope and end connections for any signs of kinking, crushing, cutting, bird caging, corrosion reduced diameter or any other unusual wear. Check for proper reeving and lubrications.
4. Inspect the load block and load hook for wear, bending, twisting, cracks, grooves and throat opening. If evidence of a problem is suspected your equipment will be tested with chemical dye penetrants to confirm its safe use.
5. Inspect the internal parts of the hoist, trolley and all crane structure for broken welds, broken parts, misalignment and excessive wear or any unusual conditions.
6. Check entire unit for proper control operation and pendant labeling.
7. Open control boxes and check all contactors, relays, timers and other electrical components for wear and proper operation.
8. Inspect safety devices for proper operations.
9. Inspect motors, couplings and wiring for wear, deterioration and proper operation.
10. Visually inspect runway rails or beams for general conditions and properly installed safety equipment. Note: A complete runway inspection and verification of minimum crane clearances is not performed as a part of our standard inspection procedure; this is available upon request.
11. Check load brake for proper operation. Certified weight testing will be conducted on an as needed as requested basis when inspection determines further testing.
12. Inspect motor brake for proper operation and air gap adjustment.
13. Inspect main power system for collector shoe condition, festoon condition etc. for signs of arcing or wear.

## **CMAA Specification #78 Compliant**