

TOWER CRANE INSPECTION CHECKLIST

GENERAL INFORMATION

Name: _____

Date: _____

Location: _____

Structural Condition

- Yes No — Tower sections are free from cracks, corrosion, or deformities
- Yes No — Bolts and fasteners are tight and in good condition
- Yes No — Boom and jib are structurally sound with no visible damage
- Yes No — Counterweights are correctly installed and secure

Mechanical & Operational Systems

- Yes No — Slewing mechanism operates smoothly with no unusual noise
- Yes No — Hoist mechanism functions properly, cables in good condition
- Yes No — Trolley movement is smooth and controlled
- Yes No — Braking systems are operational and hold load securely

Electrical Systems

- Yes No — Control panels are clean, functional, and properly labeled
- Yes No — Limit switches for load, height, and swing are functional
- Yes No — Power supply connections are secure and undamaged
- Yes No — Lighting systems for visibility are operational

Safety Devices

- Yes No — Load moment indicator is operational and accurate
- Yes No — Anti-collision systems are active and functional (if applicable)
- Yes No — Emergency stop buttons work correctly
- Yes No — Wind speed indicator is installed and operational

Operator Cabin & Controls

- Yes No — Controls are labeled, functional, and responsive
- Yes No — Windows are clean and provide unobstructed visibility
- Yes No — Seat, harness, and access ladders are in good condition
- Yes No — Communication systems are operational

Site & Setup

- Yes No — Crane is level and secured to base or foundation
- Yes No — Swing radius is free from obstructions
- Yes No — Safe load charts are available and posted in the cabin
- Yes No — Exclusion zones are clearly marked and enforced

FINAL NOTES

Inspector Comments:

Inspector Name: _____

Inspector Email: _____

Inspection Date: _____

I confirm this inspection was completed accurately

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