

# Validating Compliance: etiCS Delivers a Field Evaluation for a Relocated Tower Crane

*eti Conformity Services helped a contractor meet electrical compliance for a relocated tower crane, enabling timely OSHA and AHJ approval.*

## Background

Relocating a tower crane to a new job site is a complex process that requires careful planning and evaluation. Even if a crane was recently inspected at its previous location, authorities require a full re-evaluation to ensure compliance with electrical codes and standards. Electrical systems and safety interlocks must meet strict standards before the crane can be put into operation.

For this contractor, the relocation coincided with a critical construction schedule. Any delay in bringing the crane online could have impacted the entire project timeline, increasing costs and creating logistical challenges. They needed a reliable partner who could quickly and accurately evaluate the crane's electrical systems to verify its compliance with regulatory requirements. The contractor recognized that in-house evaluation might not provide the comprehensive assessment required by OSHA and the AHJ. They needed a solution that would not only identify potential issues but also provide actionable guidance to ensure the crane passed inspection.

### Company Profile

The client is an industrial contracting firm specializing in tower crane operation and installation. They serve the construction and heavy equipment industry across the United States.

### Industry

Construction & Heavy Equipment Operations

### Location

United States

### Benefits

- Achieved required compliance ahead of OSHA and AHJ inspection
- Identified discrepancies
- Avoided delays and additional costs from non-compliance
- Verification of corrective actions taken by the client

# Challenge

After relocation, the crane could not operate until it received proper approval, leaving no room for error or assumptions. Any failure in inspection could delay construction, create penalties, and strain client relationships. The crane's electrical systems were complex and required thorough evaluation. Proper grounding, correct wiring sizes and routing, and overcurrent protection, all had to meet industry electrical standards. Safety interlocks and emergency stops needed to be tested to ensure their proper operation. The contractor needed a solution that was efficient, reliable, and provided confidence that the crane would pass inspection. Without a third-party field evaluation, identifying potential compliance issues in time to correct them would have been extremely challenging and could have caused costly project delays.

# Solution

etiCS provided a comprehensive field evaluation to address the contractor's challenges. The team conducted a thorough visual and technical assessment of the crane's electrical systems, identifying any potential code violations or safety concerns. They verified grounding in accordance with NEC® Article 250 and evaluated wiring ampacity, overcurrent protection for various motors and transformers, and electrical ratings to ensure all systems are operating within the crane's electrical nameplate ratings. etiCS also tested operational safety features, including emergency stops, interlocks, and controls. By systematically addressing each aspect of electrical compliance, etiCS identified discrepancies and corrective actions needed prior to OSHA and AHJ inspection, enabling the contractor to gain approval efficiently, avoid project delays, and operate the crane on site.

# Results

- ✓ Gained city and OSHA approval promptly, keeping the project on schedule
- ✓ Compliance assurance to the applicable electrical codes and standards
- ✓ Created a reliable process for future field evaluations with etiCS
- ✓ Avoided costly delays and potential fines from non-compliance



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