# CSI Country Wide Case Study Safety Strategy Discussion

# Construction Safety Investigator

#### **Instructions**

The objective of this tool is to provide field supervisors with information to proactively engage workers and discuss safety related concerns that they may encounter. Safety discussions should not be limited to the subject above and should pertain to the activities that workers will be involved in that may have the potential for safety related exposures.

#### Case Day:

Unknown

#### **Accident Type:**

Crushing Accident - Boom Failure

#### Relevant laws, rules and codes may include:

29CFR 1926.550, The specific crane operators manual

### Case:

A 35 year old male electrician sustained fatal injuries when he was crushed by the boom of a crane when it failed.

# **Accident Detail:**

The operation was taking place on a bridge reconstruction project. The worker was unloading electrical materials from a flat bed truck using the trucks crane.

The worker was operating the crane's hydraulic boom from the side when the 8-foot boom section suddenly gave way pinning itself behind the workers head and neck, killing him.

# **Reconstructive Safety Evaluation:**

- What are some of the possible causes of the accident being discussed?
- What actions could have been taken that might have prevented this accident from occurring?





#### **Accident Scene Conclusion:**

The worker's position when operating the crane placed him in a location that was under the suspended load and immediately adjacent to the cranes boom. When the failure occurred, the worker was immediately struck by the crane's boom and hoisted load.

### **Preventive Safety Measures Include:**

- Workers assigned to operate a crane, regardless of size, must be properly trained, licensed/certified in the safe operation for the specific crane they are to operate.
- Crane operators, operating canes from outside of a protective cab, should do so only at a safe distance; controlling operations from a location that does not place him/her under hoisted loads or immediately adjacent to the cranes operating components.
- Ensure all loads are evaluated to ensure they fall within the safe working-limits of the load chart for the crane being used.
- Ensure all cranes, regardless of their size are routinely inspected, at a minimum, per OSHA, ANSI/ASME and manufacturers recommendations.
- Operators perform daily pre-shift inspections on cranes prior to the crane being placed into operation to ensure there are no issues that may affect the safe operation of the crane.
- Any discrepancies found during the pre-shift inspection are immediately communicated to maintenance staff and corrected before the crane is put into service.

Attendance Roster	

Reference: This case is fictitious, and any resemblance to any persons, living or dead, is entirely coincidental. However, the type of accident described in this case summary happens all too often on construction sites.

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