

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:

August 20, 2007

Accident Type:

Steel Erection Accident - Struck By

Relevant laws, rules and codes may include:

MIOSHA Steel Erection, Part 26, Rule 2614(I). MIOSHA Demolition, Part 20, Rule 2031(I)(a)(i)(ii)(iii)(iv)(b)(c)(d), 29 CFR 1926.750, 1926.21(b)(2), 1926 Subpart R

Case:

While removing a vertical 2 x 8 lumber support, a 49 year-old ironworker died as a result of being struck by a falling steel ceiling header beam.

Accident Detail:

The iron worker was working for a contractor hired to provide a steel header beam assembly and install decking for the roof system as part of an addition.

It was determined by the steel erector and controlling contractor that the steel channel to create the header could not be installed per engineering drawings because of the location of a cable tray and associated wiring. The steel erector and controlling contractor made the decision to alter the design to accommodate the position of the cable tray and wiring. The engineering firm was not consulted in this process, nor was written approval for changes from the original drawings obtained.

The iron worker needed to remove wooden boards secured to the wall at the header, to prevent fire during welding of the steel. When removing the second board, the entire channel iron header assembly, including channels, bolts and the sandwiched block broke away and struck him on his hard hat, and then his shoulders.

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?

