

CSI Country Wide Case Study Safety Strategy Discussion

Construction Safety Investigator

CHUBB®

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:

February 2007

Accident Type:

Motor Carrier Vehicle Accident -Securement

Relevant laws, rules and codes may include:

29CFR 1926.20(a)(1), 1926.21(b)(2), 49 CFR section 393.100

Case:

A 36 year-worker was struck and crushed by a steel pipe which came off of a truck that was being unloaded at a construction site.

Accident Detail:

A low-boy trailer was loaded with several lengths of steel pipe and other material of different dimensions and was to be delivered to a new roadway construction project. The pipe and other materials were secured with chains at the base and again over the top. To keep the load from shifting, the driver installed bollards (vertical load support) to the trailer but only to one side.

Because the loaded materials and pipe were of differing dimensions, they did not seat together properly when secured. This caused pressure to be exerted down into the layer of pipe located at the bottom of the load and toward the outside of the trailer (side without a bollards installed).

After arriving at the construction site, the driver positioned the truck to be unloaded. He then released all of the chains at the same time, causing the top loaded material (exerting downward pressure) to force the pipe on the bottom outward, which then rolled off the trailer, striking and killing a laborer assisting with the off loading.

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?

