A **39 year old male** employee was crushed when a 2,133 pound steel coil which he was loading onto the uncoiler machine by use of an overhead crane fell off the machine and landed on him.

It appears that the victim was using the Budget 3 ton overhead crane and metal web sling to lift a 2133 pound, 2.36 wide, 60 inch diameter coil of steel onto the uncoiler machine. Without adequately securing the coil to the machine, he apparently attempted to unhitch the coil from the crane. The unsecured coil fell off the machine landing on him.

The correct procedure for loading coils onto the uncoiler is using the crane and sling to lift the coil in place with an expander through the center of the coil. The expander and another locking mechanism hold the coil in place. Once the coil is locked in place the sling is removed by releasing tension on the crane. This allows for one loop of the sling to be unattached. After the chain is detached, the crane is raised and the sling is removed from the coil. The coil is then ready to be fed into the mill for processing into steel tubes. At the end of the process, the finished steel tubing is received by a Racker. The Racker places the steel tubing on a shipping skid, bands the tubing to the skid, and moves the skid to the shipping department via forklift. The victim was considered a Racker.

According to everyone interviewed for this investigation the victim was not trained and authorized to load coils onto the machine. Only operators who have had overhead crane training are authorized to load coils onto the mills. The victim's work station was at the other end of the mill. He was assigned off-loading and banding the ¾ inch diameter tubes.

Citation(s) as Originally Issued

A complete inspection was conducted at the accident scene. Some of the items cited may not directly relate to the fatality.

Citation 1 Item 1 **Type of Violation: Serious** **$4,000**

TCA 50-3-105(1): Each employer shall furnish to each of its employees conditions of employment and a place of employment free from recognized hazards that are causing or are likely to cause death or serious injury or harm to its employees:

In that an employee was fatally injured when he attempted to load a coil of steel onto the uncoiler with the jib crane at Mill 150 and the coil fell onto the employee.

Citation l Item 2 **Type of Violation: Serious** **$4,000**

29 CFR 1910.178(l)(l)(i): The employer shall ensure that each powered industrial truck operator is competent to operate a powered industrial truck safely, as demonstrated by the successful completion of the training and evaluation specified in this paragraph (1).

In that an employee in Mill 150 was allowed to operate a forklift without completion of operator training and evaluation

Citation l Item 3a **Type of Violation: Serious** **$4,000**

29 CFR 1910.184(d): Each day before being used, the sling and all fastenings and attachments were not inspected for damage or defects by a competent person designated by the employer. Additional inspections were not performed during sling use, where service conditions warrant. Damaged or defective were not immediately removed from service.

In that the metal mesh sling used to lift coils of steel in Mill 150 was not inspected. The sling had damaged spots but was not immediately taken from service.

Citation 1 Item 3b **Type of Violation: Serious** **$0**

29 CFR 1910.184(g)(l): Each metal mesh sling did not have permanently affixed to it a durable marking that states the rated capacity for vertical basket hitch and choker hitch loadings.

In that the metal mesh sling used to lift coils on Mill 150 did not have permanently affixed marking that stated the rated capacity.

13 crushed by steel coil--Inspection # 1422919 The Troxel Company

View south to north of coil on uncoiler with installed locking mechanism while still being held by chain strap and Jib Crane.