

# **COILED TUBING UNIT STAIR FAILURE INJURY**

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incidents.

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#### **DESCRIPTION:**

A worker performing maintenance on a coiled tubing unit fell while exiting the control cabin when the stairs became detached. The worker was seriously injured in the fall.





The stair stops, or "ears", on the stow box are expected to hold the roller in place while in use. Note the roller is not secured behind the stair stops (red circle).



**Engineered solution for step** securement



# **CAUSE OF INJURY OR LOSS:**

The stops holding the stairs in position did not hold. The stair stops "ears" were slightly bent, allowing the stairs to escape the tracks.

## **CONTRIBUTING FACTORS:**

The original design of the stairs did not prevent this occurrence. It allowed movement within the stair roller and stop, which ultimately failed when worker exited the control cabin and stepped onto the stairs.

## **CORRECTIVE ACTIONS:**

- The company inspected all stairs on other coil tubing units and developed a permanent modification with the original equipment manufacturer
- Check stairs periodically to ensure they are secured and not damaged