

TRUCKING FATALITY NARRATIVE



INCIDENT FACTS

REPORT #:

71-259-2024

REPORT DATE:

October 14, 2024

INCIDENT DATE:

September 11, 2023

WORKER:

68 years old

INDUSTRY:

Specialized Freight Trucking

OCCUPATION:

Semi-Truck Mechanic

SCENE:

Hospital parking lot

EVENT TYPE:

Struck by object

Air spring that struck mechanic.

For a slideshow version, click here.





Truck Mechanic Struck by Trailer Air Suspension Spring

SUMMARY

A 68-year-old truck mechanic was struck by an air suspension spring he was installing on a semi-trailer. He worked for his employer, a supplier of mobile diagnostic imaging services, for eight months as a field service mechanic. He had over thirty years of experience as a mechanic and commercial driver.

He was dispatched alone to replace the air spring, also called an airbag, on a magnetic resonance imaging (MRI) trailer parked at a hospital. When the driver came later to pick up the trailer, the mechanic told him he was only



Trailer from incident.

able to wedge the new spring between the mounting plates just enough to secure it with one bolt. He asked the driver to connect his tractor air supply to the trailer to inflate the springs to take weight off the axle. This would allow him to move the spring further into place and install the other mounting bolts.

The mechanic stayed under the trailer and gave the driver instructions while the spring was inflating. It was inflating for about three minutes when the driver heard a loud boom. The spring had ejected from its wedged position and struck the mechanic in the head. The driver yelled to the mechanic but got no reply. He ran to the trailer and found the mechanic unresponsive with severe head injuries. He then ran to the hospital's emergency room for help. Medical staff rushed to the scene, where other first responders were arriving. They pulled the mechanic out from under the trailer but could not save his life.

Following the incident, investigators found:

- The mechanic did not follow the air spring manufacturer's instructions to:
 - Fully secure the spring before inflating it. With only one bolt installed, the spring was not properly secured before being inflated.
 - Use new bolts for the spring installation. The bolts found at the scene were worn out and one was sheared in half.
- The employer did not have a hazardous energy control plan or lockout/tagout (LOTO) program.

REQUIREMENTS

Employers must:

- Establish a written energy control program. See WAC 296-803-20005
- Use energy control procedures. See WAC 296-803-50005
- Provide and document employee training on the energy control program. See WAC 296-803-60005

RECOMMENDATIONS

FACE investigators concluded that, to help prevent similar occurrences, employers should:

- Develop a hazardous energy control program for commercial vehicle maintenance operations, including LOTO requirements, as part of their written accident prevention program (APP). Policies should clearly identify hazards and provide precautions, controls, and how to verify zero-energy for all energized vehicle systems, including pneumatic potential energy stored within pressurized air in air suspension systems.
- Provide recurring hands-on training that gives mechanics the knowledge and skills to implement
 hazardous energy controls and LOTO requirements. Training should include showing mechanics how to
 properly follow the manufacturer's installation, maintenance, and safety instructions for different system
 components. Have mechanics' demonstrate their knowledge and skills before allowing them to work on
 or near vehicle systems where hazardous energy is present. Conduct periodic refresher training and
 support it with toolbox talks and safety meetings.
- If lone remote work is unavoidable, require field service mechanics to call their supervisor to verify they have applied hazardous energy controls or LOTO before repairing an energized vehicle system.

RESOURCES

Lockout/Tagout (LOTO): Overview, Policies, Training – Washington State Dept. of Labor & Industries

This narrative was developed to alert employers and workers of a tragic incident and is based on preliminary data ONLY and does not represent final determinations regarding the nature of the incident or the cause of the injury. Developed by WA State Fatality Assessment and Control Evaluation (FACE) Program and the Division of Occupational Safety and Health (DOSH), WA State Dept. of Labor & Industries. The FACE Program is supported in part by a grant from the National Institute for Occupational Safety and Health (NIOSH grant# 5U6OOH008487). For more information visit www.lni.wa.gov/safety-health/safety-research/ongoing-projects/work-related-fatalities-face.