

# IUEC INCIDENT SUMMARY

SEPTEMBER 6, 2024 | CLOSE CALL



## Description of Incident

A repair crew was performing a Category 1 test on a twin post hydraulic elevator.

When the car was run onto the stop ring to verify the 480 PSI relief setting, the system reached a pressure of 440 PSI before the pressure dropped and the car descended uncontrollably onto the buffer springs.

After the elevator was hoisted and placed on pipe stands a follow up inspection was performed. It was determined that a Victaulic seal had failed, and the likely cause was a loose Victaulic coupling.

**Current Status:** The elevator pit was cleaned, all necessary repairs were made, and the hydraulic system was tested.

## Recommendations & Lessons Learned

- Always follow the company safety policy.
- Always perform a JHA/JSA as per company policy.
- Always follow Standard Work Practices.

### Possible Root Causes

Failure to inspect the hydraulic system for leaks or loose connections prior to performing a Category 1 test.

**Field Employee's Safety Handbook**  
Section 1 GENERAL SAFETY

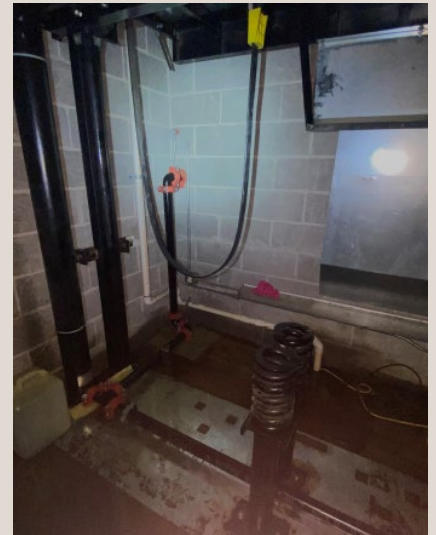
1.1 Employee Responsibilities  
(aj) Safety tests shall be performed in accordance with the procedures specified in the ASME A17.2 Guide for Inspection of Elevators, Escalators and Moving Walks.

#### **ASME A17.2**

Part 2 Elevator - Machine Room Item 2.35  
Part 5 Elevator - Pit Item 5.14



**Control Type:** Microprocessor  
**Machine Type:** Hydraulic  
**Work Type:** Repair  
**Speed:** 130 ft/min  
**Capacity:** 2,500 lbs.  
**Rise:** 3 Floors  
**Hoistway Configuration:** Simplex  
**JHS/JSA Completed:** Yes



IUEC SAFETY ALERTS

IUEC Safety Stand Down Day | April 28, 2025

PHOTOS APPROVED BY IUEC SAFETY

# IUEC INCIDENT SUMMARY

OCTOBER 2, 2024 | INJURY



**Warning – Contains Graphic Image**

## Description of Incident

An apprentice was cutting a bracket while on the car top during a modernization.

The apprentice clamped one side of the bracket to the crosshead and held the other side with his left hand. Using one hand to operate the saw, as the cut was completed, he lost control, and the saw landed on his left arm causing a deep laceration.

**Current Status:** The apprentice was fortunate to only require 7 stitches and was able to return to work performing light duty tasks while the wound healed.

## Recommendations & Lessons Learned

Always follow the company safety policy.  
Always perform a JHA/JSA as per company policy.  
Consider using dual-trigger band saws which require two hand operation.

### Possible Root Causes

Cutting material in a location that does not allow for adequate set up or body position.  
Failure to properly secure materials prior to cutting.  
Not using two hands while operating power cutting tools.

#### **Field Employees' Safety Handbook** Section 1 GENERAL SAFETY

1.2 Additional Safety Responsibilities of the Mechanic/  
Mechanic-in-Charge  
(a) Determine that their Apprentice(s)/Helper(s) fully understand the safety requirements and that they accept responsibility for the safety of themselves, their fellow workers, the jobsite, and equipment.

Section 9 TOOLS  
9.2 Portable Electric Tools and Lights  
(v) Have a firm footing and be properly braced when using power tools.



**Control Type:** Electric  
**Machine Type:** Traction  
**Work Type:** Modernization  
**Speed:** Unknown  
**Capacity:** Unknown  
**Rise:** 15 Floors  
**Hoistway Configuration:** 3 Car Group  
**JHS/JSA Completed:** Yes



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# IUEC INCIDENT SUMMARY

OCTOBER 24, 2024 | INJURY



## Description of Incident

Two maintenance mechanics were installing hold down brackets for filler weights when a piece of hardware fell into the sump well of a duplex pit.

One of the mechanics tried to remove the metal grating from the well when the coupling for the sump pump discharge line failed and water began spraying onto the mechanic.

The mechanic repositioned himself to reach for the hardware and was struck by the rear entrance toe guard of the adjacent car, knocking him down and pinning him to the pit floor.

The second mechanic was able to move the car, secure it, and help the first mechanic out of the pit and to the hospital.

**Current Status:** The mechanic suffered multiple sprains and strains to his knee, hips and back and will perform light duty work while recovering.

## Recommendations & Lessons Learned

Always follow the company safety policy.  
Always perform a JHA/JSA as per company policy.  
Separation of Adjacent Pits.

### Possible Root Causes

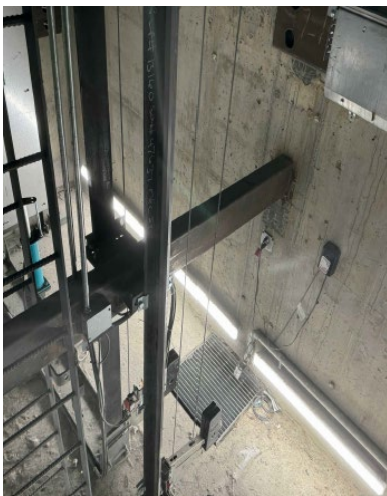
The sump well cover was not properly installed requiring disassembly of the discharge line for removal.  
Failure to control both elevators when accessing a shared space.

**FIELD EMPLOYEE'S SAFETY HANDBOOK**  
Section 8 HOISTWAYS & MACHINE ROOMS

8.2 Pit Safety

(b) Before entering a pit, familiarize yourself with the position of the car and counterweights for the car being worked on as well as any other cars/counterweights in the vicinity.

(r) When in multiple hoistways, **never place any part of your body in the runway of an adjacent operational elevator.**



**Control Type:** Electric  
**Machine Type:** Traction – MRL  
**Work Type:** Maintenance  
**Speed:** 350 ft/min  
**Capacity:** 3,500 lbs  
**Rise:** 13 Floors  
**Hoistway Configuration:** Duplex  
**JHS/JSA Completed:** Yes



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