# IUEC INCIDENT SUMMARY

## CLOSE CALLS & INJURIES

## CLOSE CALL

AUGUST 30, 2024

# Description of Incident

Control Type: Electric
Machine Type: Geared Traction
Work Type: Modernization
Speed: 200 ft/min, Capacity: 4,500 lbs
Rise: 110 Feet
Hoistway Configuration: Duplex
JHA/JSA Completed: Yes

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- A mechanic and an apprentice were performing a witnessed acceptance test on an electric elevator after completing a controller modernization
- After performing the full load safety test, the apprentice gained access to the car top so he could run down and measure the slide
- The apprentice ran the car in the down direction. When he released the enable and down buttons, the car continued in the down direction 10-12 feet until it crashed onto the buffers.
- The inspector had the crew perform an emergency stop test and the car again crashed onto the buffers
- The elevator was removed from service until repairs were made

Current Status:
The braking system was repaired, and the hoist ropes were replaced before the elevator was returned to service

# Recommendations & Lessons Learned

- Always follow the company safety policy
- Always perform a JHA/JSA as per company policy
- Always inspect the condition and operation of components before performing tests

Possible Root Causes:

- Brake pads worn down to the rivets
- Hoist ropes in use beyond replacement criteria
- Over lubrication of hoist ropes reducing traction

**ASME A17.1/CSA B44 Safety Code for Elevators and Escalators**

Brakes shall be maintained and tested per ASME A17.1/CSA B44 (see 8.6.4.6 and 8.10.2.2.2(v))

Steel wire ropes shall be maintained per ASME A17.1/CSA B44 (see 8.6.4.1). Precautions shall be taken in lubricating suspension steel wire ropes to prevent the loss of traction.

- For additional guidance on drive machine brakes use A17.2 Item 2.17