



# IUEC INCIDENT SUMMARY

CLOSE CALLS, NEAR MISSES AND INJURIES

“NEAR MISS”

April 28<sup>th</sup> 2023---IUEC Safety Stand Down Day



## Description of Incident

Control Type: Electric

Machine Type: Geared

Speed: 1000 FPM

Capacity: NA

Rise: 36 stop

Hoistway Configuration: 2 banks of 5 elevators

- While Operating Engineers were hoisting a 16,000 lb. beam to the 18<sup>th</sup> floor for use with lifting a tower crane, the sling holding the load snapped (under rated for the load)
- The beam fell, narrowly missing a rigger that was preparing to land the beam. The beam crashed through a landing deck that extruded from the jobsite and hit the top landing of an adjacent parkade.
- The beam continued to fall to street level landing next to the job site entrance and material unloading area. The beam landed vertically and imbedded itself approximately five feet into the sidewalk.



# Recommendations and Lessons Learned



- Always follow the company safety policy
- Always perform a JHA/JSA per company policy
- Possible Root Causes:
  - Improper sling rating for the load hoisted
- OHS Regulation
  - Part 14: Cranes and Hoists Definitions and Application
  - Equipment Operation
    - 14.44 Loads over work areas
      - (1) If practicable, work must be arranged to prevent passing a load over any person.
      - (2) A crane or hoist operator must not pass a load over a person, unless no practicable alternative exists and then only after the person has been warned of the danger by an audible alarm or other effective means.
  - Part 15: Rigging
  - Slings
    - 15.31 Inspection before use
      - Slings and attachments must be visually inspected before use on each shift, and defective equipment must be immediately removed from service.
    - 15.33 WLL of slings
      - The determination of the working load limit of any sling assembly must ensure that the WLL of any individual component of the assembly is not exceeded.
- OSHA 1910.184(c) Safe operating practices.
  - Whenever any sling is used, the following practices shall be observed:
  - 1910.184(c)(1) Slings that are damaged or defective shall not be used.
  - 1910.184(c)(2) Slings shall not be shortened with knots or bolts or other makeshift devices.
  - 1910.184(c)(3) Sling legs shall not be kinked.
  - 1910.184(c)(4) Slings shall not be loaded in excess of their rated capacities.