



IUEC INCIDENT SUMMARY

CLOSE CALLS, NEAR MISSES AND INJURIES

“NEAR MISS”



Description of Incident

Control Type: Solid State

Machine Type: Overhead Traction

Speed: 750 FPM

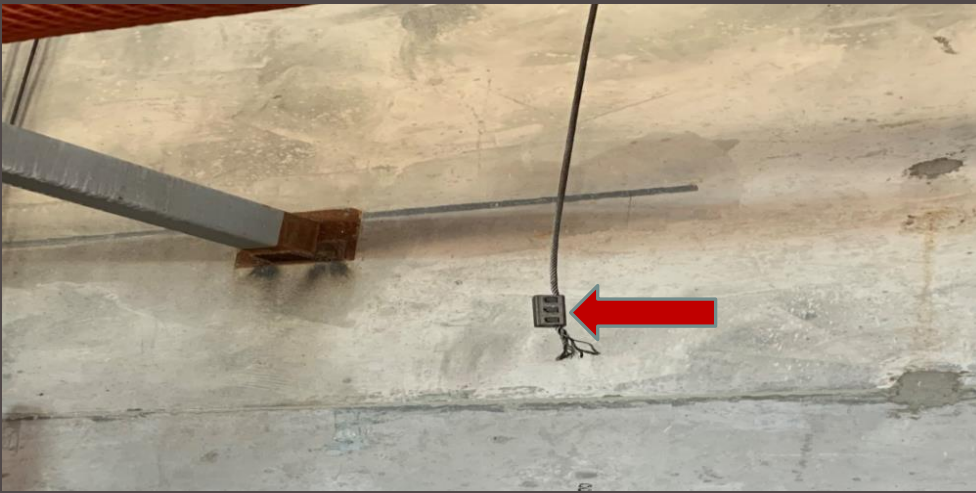
Capacity: 3500

Rise: 12 Floors

Hoistway Configuration 6 car bank

- A foreman, five mechanics and two apprentices were hanging two counterweight frames for cars 3 and 5 of a six car group. They had already hung two frames for cars 1 and 4 and roped them.
- After hanging and adding filler weights to car 5 they lowered the frame onto two steel slings attached to the machine in the motor room.
- Next, they moved over to car 3 to hang that frame and had it hanging on a chain fall.
- Car 5 frame had been hanging on the slings for approximately two hours at this time.
- The slings on car 5 broke and the weight frame went down the hoistway. The frame hit a divider beam breaking it free between cars 4 and 5 on the 9th floor flipping the frame towards car 6.
- The frame hit another divider beam between cars 5 and 6 on the 5th floor.
- The frame flipped again this time staying in car 6 hoistway.

Description of Incident



- The frame then landed on the false car that was attached to the crosshead of the car sling for car 6. There were no injuries from the frame falling down the hatch, except a mechanic who banged his knee when he jumped out of the elevator bay on the 12th floor after hearing the loud noise.
- The slings were too long and needed to be shortened so the weight frame would be hanging at the right height to be roped.
- The crews were instructed to use Roebling's to accomplish this.
- The frame weighs 1800 lbs. and the filler weights are 1600 lbs. for a total of 3400 lbs.
- The max safe working load of the Roebling was exceeded causing the cable to fail and drop which then caused a chain reaction breaking the slings and dropping the loaded counterweight frame down the hoistway
- The picture on the bottom left shows the Roebling ½ inch clamp with the manufacturer's maximum safe working load of 600 lbs. per rope.

Wire Rope Products > Wire Rope Clamps > Roebling Clamps

Roebling Clamps

Part No. 16-05X

Each of these clamps securely grabs two ropes. Ropes resist slipping through the clamp because of the spiral ridges cast into the grooves. Includes hardware shown. 600 lbs. max safe working load per rope.





Recommendations and Lessons Learned

- Always follow the company safety policy.
- Always use properly rated equipment for the task being performed
- Always perform a JHA/JSA per company policy.
- Always complete a hoisting and rigging plan prior to beginning a task.
- Never exceed the rated capacity of any hoisting and rigging equipment.

The OSH Act of 1970 Section 5, requirements

- Each employer shall furnish to each of his/her employees' employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his/her employees'.