



Edison Electric
INSTITUTE



HECA Calibration Scenarios



Photo 1



Scenario

Network transformer being replaced into an 8 ft vault next to traffic. The traffic is blocked by machinery and work vehicles.

Observations:

- Vault is de-energized
- 1 am, temperature 30F
- Machinery & work vehicles can handle the energy of traffic coming in.
- Transformer is rigged properly and used within limits
- The crane is not moving at the time of observation.
- Equipment has no mechanical issues.

Photo 2



Scenario

Feeding a pipeline underground next to a residential road.

Observations

- Hole is 6 ft deep
- Locates are completed
- No flagger or blockers
- Excavator is moving as work is performed
- Pipe is not moving
- Employee is in the hole and has a gas monitor
- Excavation lacks other utilities (gas, electric, steam)

Photo 3



Scenario

Pole setting on de-energized lines in a high traffic industrial area.

Observations

- Lines are properly tested and grounded.
- Rigging properly installed and inspected by the foreman.
- Fall protection system inspected and worn properly .
- Tension in the lifting cable is not calculated.
- Equipment was stationery at the time of observation and has no mechanical issues.
- The bucket trucks were set up properly and stabilized.

Photo 4



Scenario

Welding at 23 feet.

Observations

- No one is working above or below (exclude form analysis).
- Gas welding
- The fall arrest is not properly tied off.
- The employee has proper gloves .

Photo 5



Scenario

A double circuit, live line pole set next to industrial road. The hole has been prepared for installation.

Observations

- Equipment has no mechanical issues and is maintained properly.
- The bucket trucks were set up properly and stabilized.
- There is no swinging control on the load (sling job rather than claw on digger)
- Proper fall protection is used.
- Cover on all conductors, live line insulation is sufficient.
- Proper PPE for electrical contact is used.
- The roadway is closed to traffic with hard barricades.
- Equipment was moving at the time of observation.

Photo 6



Scenario

Vessel being lifted.

Vessel is 77 tons and 48 ft. long.

Drop zone is marked and tag lines being used to control the lift.

Observations

- Crane is a tower crane.
- Operating work vehicle parked on site road.
- Caution signs state high radiation area risk. All workers wear dosimetry, no active radiation present during observation period.
- Equipment has no mechanical issues.

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HIGH⚡ENERGY
CONTROL ASSESSMENTS
