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Naval Facilities Engineering Command Northwest **Safety Lessons Learned Accident Abstract**

Accident Type: Electrical
Injury: Electrical Shock
Damage: N/A
Type of Work: Maintenance on burned out street light

DESCRIPTION OF THE ACCIDENT:

▪ On 07 July 2016 @ 1330, a BOSC general laborer used a Genie S65 Boom Lift to conduct maintenance on a burned out streetlight lightbulb (~ 20' up). The injured employee discovered the lightbulb was broken - bulb filament was exposed; the employee started removing glass from the cover (left hand), looked to the BOSC Low Voltage Electrician (LVE) on the ground for direction; and was motioned to close the cover. The BOSC LVE observed the employee shaking and then slumped in the lift basket; realizing the victim was being shocked, the LVE lowered the basket to the ground, communicated to people in the vicinity to call 911. CPR initiated on scene; eventually airlifted to a major trauma center.

DIRECT CAUSE(S):

- Hand contact with energized light filament

INDIRECT CAUSE(S):

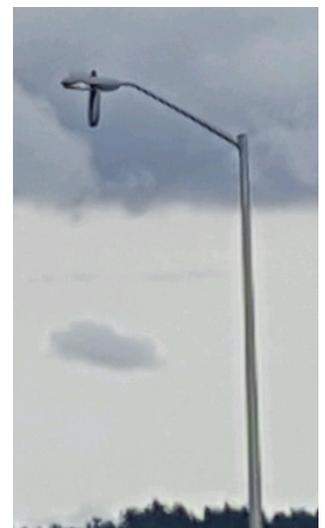
- Supervision inadequate – employee was not trained
- AHA not accepted by GDA; had been returned to the Contractor
- Energized work permit required was not issued.

ROOT CAUSES:

- Failure to follow established company and contract safety procedures.
- No lockout/tagout (LOTO) utilized.
- Lack of electrical PPE when working on energized equipment
- General labor employee was not trained to conduct electrical work.

LESSONS LEARNED:

- Ensure electrical circuit is de-energized and validate zero energy state prior to work.
- Follow LOTO Hazardous Energy Control Plan (HECP) procedures (1910.147/EM 385 Section 12).
- Ensure personnel conducting maintenance are trained to do the required work.
- Follow energized work permit procedures (EM 385 Section 11).
- Utilize proper electrical PPE



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