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**NAVY PUBLIC WORKS CENTER  
NORFOLK, VIRGINIA  
UTILITIES DEPARTMENT**

**STANDARD OPERATING PROCEDURE / JOB HAZARD ANALYSIS**

**TITLE**

**REWIRE TRAFFIC LIGHT OVERHEAD LOOP**

**PROCEDURE NUMBER  
WC 622 HVE 049**

**SIGNED: \_\_\_\_\_ (DATE)**

**APPROVED: \_\_\_\_\_ (DATE)**

**SAFETY PROFESSIONAL: \_\_\_\_\_ (DATE)**

**MANAGEMENT OFFICIAL: \_\_\_\_\_ (DATE)**

**REVISION**

**A**





## REWIRE TRAFFIC LIGHT OVERHEAD LOOP

### Purpose:

Procedure to rewire a traffic light's overhead loop.

### Potential Energy Sources:

1. 120 volt AC traffic light equipment and cables.

### Tools and PPE:

Tools: Hand tools. PPE: Work gloves, hard hat, safety shoes, safety harness, and orange vest.

### References:

1. PWC Occupational Safety and Health Program Manual, PWCNORVAINST 5100.33E
2. Occupational Safety and Health Standards for General Industry (29 CFR PART 1910): Subpart I, Personnel Protective Equipment.
3. NFPA 70 E, Approach Distances To Exposed Energized Electrical Conductors and Circuit Parts

### Procedures:

1. Set up bucket truck. Refer to SOP WC 624 HVE 001, Set Up and Secure Bucket/Auger truck for details.
2. When operating a bucket truck the following safety rules will be followed.
  - a) Only an authorized person, one with a current government license to operate an aerial lift, will operate the bucket.
  - b) Do not use the bucket truck if winds exceed the truck manufacture's specified limit.
  - c) Do not perform energized work in wet weather.
  - d) Personnel in bucket will wear a safety harness with a lanyard attached to the boom or bucket.
  - e) Do not exceed the bucket's weight limitations.
  - f) Stand firmly on the floor of the bucket with both feet. Do not sit on the bucket's edge or use planks, ladders, or other such devices.
3. The following rules will apply to the job:
  - a) Personnel in the bucket will wear work gloves, hard hat, safety shoes, and a safety harness.
  - b) Personnel in the bucket will carry a hand line aloft with them.
  - c) Ground personnel will wear hard hats, safety shoes, work gloves, and safety glasses.
  - d) Ground personnel will wear orange vests if working adjacent to a road or in a parking lot.

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e) Ground personnel will stay clear of area underneath the bucket unless the work dictates.

f) Ground personnel not involved with the work will watch the personnel working aloft.

g) If ground personnel are present, then at least one of them will have been trained to operate the bucket in an emergency situation where the bucket personnel are no longer able to operate the bucket controls.

4. Notify the Base Police to direct traffic during the repair work.

5. Go to traffic control box and turn off the power to the light.

6. Raise bucket to traffic light elevation. Be careful of obstructions such as traffic light mast arm, steam lines, and traffic light overhead wiring.

7. Remove damaged loop wire.

8. Splice new wire to existing loop wire to complete circuit.

9. Lower bucket to bucket truck.

10. Go to traffic control box and turn on the power to the light.

11. Secure bucket truck. Refer to SOP WC 624 HVE 001, Set Up and Secure Bucket/Auger Truck, for details.

END