

DISCLAIMER: These Standard Operating Procedures (SOP's) are for the exclusive use of Navy Public Works Center (PWC) Norfolk. They are promulgated as guidance for their NAVFAC Commands. If intended to be used by other activities, they must be tailored to each activity's particular requirements and must be reviewed/approved by the activity's safety professionals prior to use.

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

STANDARD OPERATING PROCEDURE / JOB HAZARD ANALYSIS

**TITLE
UNDER PIER INSPECTIONS**

**PROCEDURE NUMBER
WC 624 HVE 098**

SIGNED: _____
(DATE)

APPROVED: _____
(DATE)

SAFETY PROFESSIONAL: _____
(DATE)

MANAGEMENT OFFICIAL: _____
(DATE)

REVISION

A

UNDER PIER INSPECTIONS

Purpose:

Procedure for inspecting under the pier electrical equipment such as duct lines, hanger systems, etc.

Potential Energy Sources:

1. Steam
2. Steam condensate.
3. Exposed 34.5/11.5 kv conductors.
4. Exposed 480 volt conductors.

Tools and PPE:

Tools: Boat, paddles, Auger Truck, ladder, certified slings, hand held radios, and flash light.

PPE: Life preserver, hard hat, safety shoes, work gloves, hearing protection, and back brace if required to wear one by the back injury prevention and control program.

References:

1. PWC Occupational Safety and Health Program Manual, PWCNORVAINST 5100.E
2. SOP WC 624 HVE 001, Set Up and Secure Bucket/Auger Truck
3. Occupational Safety and Health Standards for General Industry (29 CFR PART 1910): Subpart I, Personnel Protective Equipment

Procedures:

1. Place a flag and sign at the end of the pier to signal there are workers under the pier.
2. Set up an Auger truck per SOP WC 624 HVE 001, Set Up And Secure Bucket/Auger Truck.
3. Hang and secure a ladder over the side of the pier. Wear work gloves, safety shoes, and a life preserver while performing this task.
4. Attach the boom winch line to the boat using certified slings. Lower the boat into the water. Wear work gloves, hard hat, safety shoes, and a back brace, if required to wear one. Personnel near the edge of the pier, guiding the boat down, will wear a life preserver.
5. Two people will descend the ladder and get into the boat. After all personnel are in the boat, detach the slings. Personnel in the boat will wear life preservers, work gloves, hard hats, safety shoes and a back brace, if required to wear one. The personnel will carry hearing protection with them. The people in the boat will also have a hand held radio with them.
6. Maneuver the boat under the pier to identify all problems, and best course of action to make the repairs. During the inspection the personnel in the boat will maintain contact with a third person, located on top of the pier, using hand held radios. Avoid areas where steam is leaking or where steam traps are discharging. If near a steam leak, wear hearing protection. Do not touch exposed conductors. After the inspection all findings will be reported to the appropriate supervisor.

UNDER PIER INSPECTIONS

7. Once the inspection is completed, maneuver the boat to the ladder and attach the boom winch slings to the boat.
8. Personnel in the boat will exit onto the ladder and ascend to the top of the pier.
9. Raise the boat out of the water and place it on the boat's trailer. Wear work gloves, hard hat, safety shoes, and a back brace, if required to wear one. Personnel near the edge of the pier, guiding the boat up, will wear a life preserver.
10. Remove the ladder and place it in the boat. Wear work gloves, safety shoes, and a life preserver while performing this task.
11. Secure the Auger truck per SOP WC 624 HVE 001, Set Up And Secure Bucket/Auger Truck.

END