

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.

TAPPING 120/220 VOLT TEMPORARY CONTROL POWER IN BELOW PIER VAULTS

Purpose:

PWC below pier vault tapping of temporary control power SOP.

Potential Energy Sources:

Auxiliary power.

Tools and PPE:

Electric safety shoes, leather work gloves, safety glasses, flat head screwdriver, multimeter.

References:

1. PWC Safety Manual lockout/tagout procedures.
2. NFPA 70E table A for approach distances.
3. OSHA 1910.333 safe working practices.

Procedure:

1. Follow SOP 600 HVE4 "Entering Below Pier Electrical Vaults".
2. Locate the terminal block in the switchgear which contains the control transformer secondary wires. Verify the wires are deenergized with a multimeter and remove the wires feeding to the transformer.
3. Connect the wires of the extension cord to the feed control power to the switchgear. Use alligator clips or a terminal block.
4. Open the vault service panel, remove the cover, and verify with a multimeter the load side of the 20 amp GFCI breaker is deenergized. Be sure to avoid contact with the exposed energized circuits.
5. Connect the wires of an extension cord to the GFCI breaker.
6. Wear work gloves and safety glasses and close the GFCI breaker.

7. Verify with a multimeter that the primary of the control transformer is deenergized. Check that there is adequate control power.

TAPPING 120/220 VOLT TEMPORARY CONTROL POWER IN BELOW PIER VAULTS
CONT'D

FOR REMOVAL OF TEMPORARY CONTROL POWER FOLLOW THE FOLLOWING STEPS

1. Follow SOP 600 HVE4 "Entering Below Pier Electrical Vaults".
2. Open the GFCI breaker. Verify with a multimeter the load side of the GFCI breaker is deenergized. Remove the wires of the extension cord from the breaker. Replace the service panel cover and close the service panel. Be sure to avoid contact with exposed energized circuits.
3. Remove the extension cord wires from the terminal block in the switchgear. Reconnect the control transformer wires which were disconnected.
4. Follow SOP 600 HVE5 "Re-energizing Below Pier Electrical Vaults".