

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.

RE-ENERGIZING BELOW PIER ELECTRICAL VAULTS

Purpose:

PWC below pier electrical vault re-energizing.

Potential Energy Sources:

Auxiliary power (lights, sump pumps, transfer switch etc.) are energized in the vault.

Tools and PPE:

Work gloves, hard hat, safety shoes, voltmeter, 1000 volt megohmmeter, socket wrenches, tripod, safety rope, shotgun stick.

References:

1. PWC Safety Manual lockout/tagout procedures, gas free confined space procedures.
2. OSHA 1910 safe working practices, PPE, and safe manhole procedures.

Procedure:

1. Follow gas free for confined space procedures if necessary.
2. If vault has been down for a period greater than 24 hours, then perform insulation tests as per SOP 622.4HVE7, Insulation Resistance Testing Of Low Voltage Switchgear. Based on the insulation resistance tests, the 622.4 supervisor will make the final determination to re-energize the vault.
3. Verify that no trash, tools, or other are left in switchgear or in the vault.
4. Re-close all necessary vault equipment required for vault operation. Note leave secondary feeder breakers in the open position, leave the secondary mains in the closed position. Wear work gloves.
5. Remove all temporary safety grounds in the vault with a shotgun stick. Replace all vault equipment covers. Wear work gloves. Use two man rule and proper lifting techniques when removing switchgear covers.
6. Ensure that no personnel are in the vault.
7. Clear turtleback tags and remove locking bars. Beware of obstructions around the turtleback such as steam leaks, water and shore power cable.

8. Check that all personnel and equipment are clear from the vault and then follow the HV Lockout/Tagout Switchback to energize the vault.

9. Close and trip all secondary feeder breakers from the control station. Wear work gloves and hard hat. Beware of obstructions around the turtleback.

last revision date 11/27/95