

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.

SOP FOR 480 VOLT SHIP CONNECT

Purpose:

PWC SOP for 480 volt ship connection.

Potential Energy Sources:

480 volt cable, ship backfeed, turtleback 480 volts.

Tools and PPE:

Nomex coveralls, electrical safety shoes, leather work gloves, hard hat, face shield, voltmeter.

References:

1. NFPA table A for approach distances.
2. Occupational Health and Safety act, 1978.
3. NETA maintenance testing, 1993.

Procedures:

1. Follow SOP for Breaker Operation and check all breaker's (not being used at this time), lights, microswitches, voltage, open and close push buttons for proper operation at the turtleback. Repair discrepancies if time permits. If vault entry is required place a repair tag on the breaker control and turn in repair tag to WC 625. **(Ensure breakers not being used are left in the open position unless otherwise instructed by WC 623 supervisor)**
2. Meggar all cables and plugs and record lowest meggar on Ship connect/disconnect chit. Note replace any cable which meggars lower than 2-Megaohms, 5-Megaohms on piers 21-23. Note: If needed connect the meggar for 10 minutes to dry cable insulation.
3. **If on Piers 21, 22, or 23** trace cable, write information on white tag, and attach tag to turtleback.
4. Upon ship's arrival, contact the ships electrician. If there is more than a fifteen minute delay, notify WC 623 foreman or a work leader.
5. Load cable onto ship. Follow Boom Truck Operation SOP if applicable.
6. When ship requests shore power: Ensure the receptacles and plugs are de-energized with a multimeter.

7. Hang plugs and close shore power breakers. Wear work gloves.
Note if the remote operators are located at the receptacles wear all PPE and try to stand clear of receptacle.
8. Completely fill out ship connect/disconnect chit.