

A. Purpose:

The purpose of this Standard Operating Procedure (SOP) is to establish generator supplied power to the affected enclosure to ensure uptime for our network equipment and customers fed from this Hub. These procedures are not to be deviated from and doing so may cause equipment and/or personal injury.

B. Power up procedural Steps:

1. Upon arriving onsite verify the enclosure is on battery backup. There should be no need to open the main compartment of the enclosure. The only compartment that you should need access is the Power Module Termination Module (PMTM). This is the side of the enclosure with the generator plug and the door where the fiber service loop is. The tech will need to use safety goggles.

The air conditioner is on utility power so this would be off. You can also contact the NOC (832.615.8000) and have the tech login to the UPS to confirm.



2. If you are using a generator on a Splicing Van, you need to unplug the van air conditioner from the generator.

3. Insert female end of extension cord into the generator outlet of the enclosure.
See photo to the left:

4. Ensure the **generator is turned off and remains in the off position until step 10**

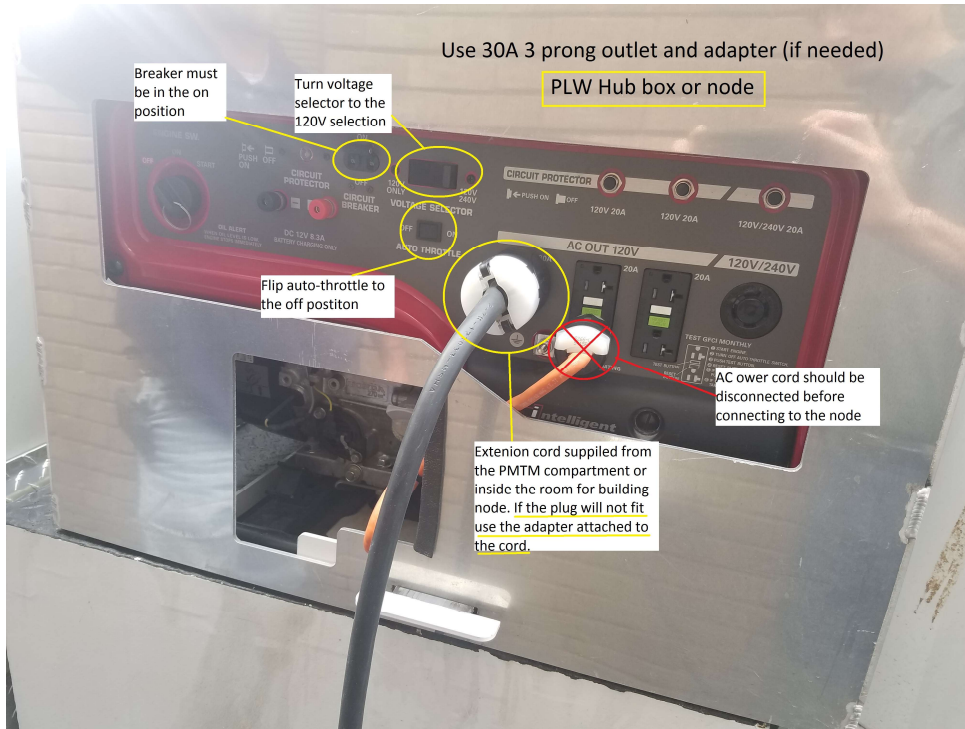


Photo 1 (PLW):

5. Toggle the voltage selector switch to the correct selection.

**120V only in photo 1

**120V/240V for photo 2

6. Ensure the auto-throttle is in the off position.

See photo 1 or 2.

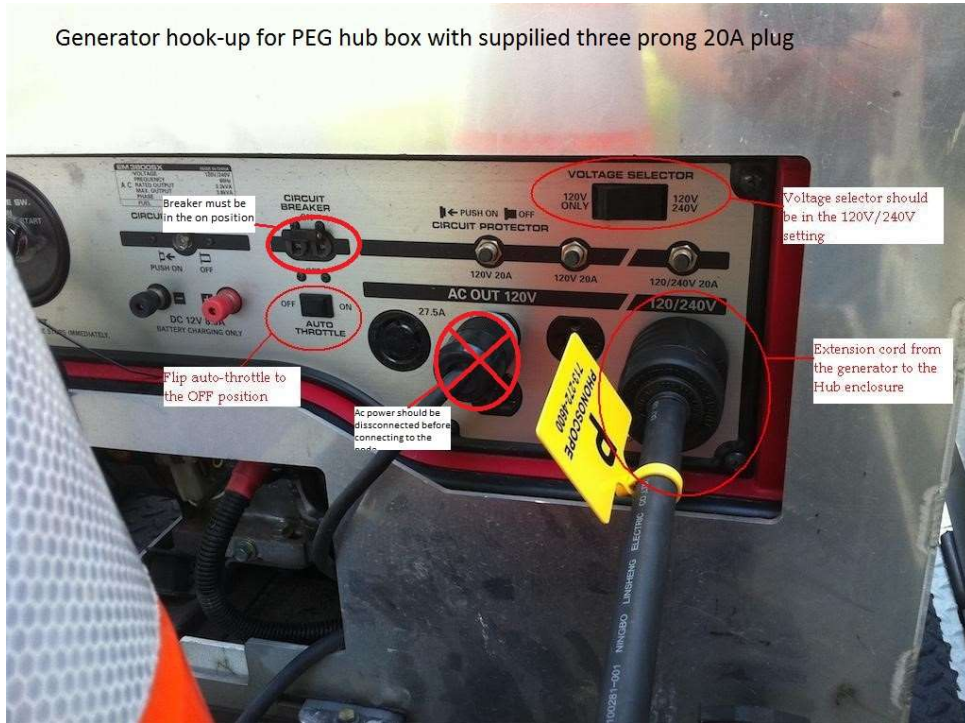


Photo 2 (PEG):

7. Retrieve the extension cord from the PMTM and plug the male end into the generator.

*Note: The outlet should pair with choice made in step 5.

See photo 1 or 2:



8. Flip the 20amp breaker in the PMTM to the off position. The supplies power to the enclosure air conditioner and will need to be off when the generator is started up. The enclosure air conditioner will pull too much power during startup and will trip the generators breaker.

See photo to the left:



9. **THIS STEP IS EXTREMELY IMPORTANT AND MUST NOT BE SKIPPED.**

Flip the Generator breaker in the PMTM to the ON position. You will notice the auto on/off lever will push the Main breaker to the OFF position. If it does not happen then you can manually push the Main breaker to the OFF position.

See photo to the left:

10. Start the generator. Let it run for about 2 to 5 minutes to stabilize.

11. Flip the 20amp breaker in the PMTM back to the ON position. This will supply power to the air conditioner. It may or may not start up if the temperature inside the enclosure is cool enough.

12. Ensure power is being supplied to the UPS / DC plant. To do this you will need to call the NOC (832.615.8000.)

C. Verify Utility Power is restored:

- **IT IS EXTREMELY IMPORTANT TO FOLLOW THESE STEPS IN ORDER. NOT FOLLOWING THESE SETPS IN ORDER MAY RESULT IN SERIOUS HARM TO THE EQUIPMENT AND/OR YOURSELF.**

To perform this test:

1. Shutdown the generator.
2. Disconnect the extension cord from the PMTM generator outlet.
3. Flip the Main breaker in the PMTM back to the ON position and ensure the generator breaker is in the OFF position. *****See photo from step 9 in the power up procedure.**
4. Check with the NOC or PLW NetOps personnel to verify remotely.
5. If utility power is restored, disconnect the extension cord from the generator and place it back in the PMTM.
6. If utility power is NOT restored, then proceed with steps 2 - 11 outlined in section B.