

ARCS PROCEDURE:	GENERATOR TRANSFER SWITCH TROUBLESHOOTING	PRO(GEN)-010.000
Author: F. Helsel		February 15, 2001 Page 1 of 2

Generator Transfer Switch Troubleshooting

I. Purpose:

This procedure is to be used when the following scenario emerges. The Diesel Generator doesn't come on, but the X, Y are the only vans that have power. The Grid power dropped one phase out of the three phases to the site. The Generator control board is looking at only two phases of the Grid power. If the unwatched phase goes out and it is not detected by the Generator control board and the Generator does not take over. The I, D, U and E van AC units shut down. The E and U Vans shut down because they have no UPS. The I and D Vans eventually shut down when the UPS batteries run down. They need all three phases and are getting only two. The X, Y are able to run on two phases.

II. Cautions and Hazards:

- If not dealt with in 2 or 3 hours, the UPS batteries will run down completely in the D and I Vans.
- The observers should do this work in the presence of an electrician to avoid injury and damage to the equipment on the site.

III. Requirements:

None.

IV. Procedure:

A. Steps:

SWITCHING TO GENERATOR

Have the Observers manually start the generator (Switch generator from Auto to Manual on the generator control panel.)

1. Have the observer turn the Transfer Switch (inside the Generator area on the right wall. On the transfer cabinet) from "NORMAL." To "BYASS"
2. Have an electrician verify if all three phases of the site power are back on. (check for power on the grid side of the transfer switch in the transfer switch cabinet)

SWITCHING TO GRID POWER

3. After it is verified that all three phase of grid power are back on, have the Observers turn the Control Panel (behind the Generator) from "MANUAL" to "AUTO." (The generator should run for ~ 15 min then shut down.)

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4. Have the observer turn the Transfer Switch (inside the Generator area on the right wall. On the transfer cabinet.) from “BYASS” to “NORMAL.”
5. Verify that all vans have power. (Remember all the vans won't come on the same time.)
6. The Observer should inform TWP of the actions taken by phone or fax and in the daily rounds.

V. References:

None

VI. Attachments:

None