

PP&L Sectionalizing schemes

Background:

In accordance with the Sectionalizing Scheme procedure documented in PJM Manual M-03, PP&L has proposed the following list of existing sectionalizing schemes for inclusion in the PJM Day Ahead and Real Time analysis. All transformer sectionalizing schemes operate by the same design, which is to isolate the faulted transformer via the high and low side CBs. The high side MOD will then open. Once opened, the high side CBs will reclose. The time for the equipment to isolate and restore is approximately 5 seconds.

The sectionalizing schemes will be honored beginning 1/1/2011. Also, in accordance with PJM Manual M-03, PJM will screen all failed sectionalizing contingencies and control any resultants overloads below their Load Dump limits.

- 1.) Harwood #4 230/69kV Transformer
 - a. Reclose the 230kV CBs, which will restore the Harwood-Susquehanna 230kV line.
- 2.) Alburtis 500/230kV TR1 Transformer
 - a. Reclose the 500kV CBs
- 3.) Hosensack #1 230/69kV Transformer
 - a. Reclose the 230kV CBs
- 4.) Hosensack #2 230/69kV Transformer
 - a. Reclose the 230kV CBs
- 5.) Hosensack #3 230/69kV Transformer
 - a. Reclose the 230kV CBs
- 6.) Jenkins #4 230/69kV Transformer
 - a. Reclose the 230kV CBs, which will restore the path between Susquehanna and Stanton
- 7.) Juniata 500/230kV T1 Transformer
 - a. Reclose the 500kV CBs
 - b. **NOTE: The Juniata #2 and #3 500kV Capacitors will trip as part of this contingency but will not reclose**
- 8.) Juniata 500/230kV T2 Transformer
 - a. Reclose the 500kV CBs
- 9.) Lackawanna #1 230/69kV Transformer
 - a. Reclose the 230kV CBs
- 10.) Lackawanna #2 230/69kV Transformer
 - a. Reclose the 230kV CBs and restore the Lackawanna-Oxbow 230kV line
- 11.) Quarry #1 230/69kV Transformer
 - a. Reclose the 230kV CBs and restore the Quarry-Steel City 230kV line
- 12.) Quarry #2 230/69kV Transformer
 - a. Reclose the 230kV CBs
- 13.) Siegfried #4 230/138kV Transformer
 - a. Reclose the 230kV CBs and restore the Siegfried-Harwood 230kV line.

- 14.) Siegfried #5 230/138kV Transformer
 - a. Reclose the 230kV CBs.

- 15.) South Akron #5 230/69kV Transformer
 - a. Reclose the 230kV CB and the #6 230/138kV transformer.

- 16.) South Akron #6 230/138kV Transformer
 - a. Reclose the 230kV CBs and the #5 230/69kV transformer.

- 17.) South Akron #7 230/138kV Transformer
 - a. Reclose the 230kV CBs.

- 18.) Steel City 500/230kV TR1 Transformer
 - a. Reclose the 500kV CBs.

- 19.) Susquehanna 500/230kV T21 Transformer
 - a. Reclose the 500kV CBs.

- 20.) Wescosville #1 138/69kV Transformer
 - a. Reclose the 138kV CBs.

- 21.) West Hempfield #3 230/138kV Transformer
 - a. Reclose the 230kV CBs.