Belmont SPS

- **Condition:**
  - Outage of the Belmont-Harrison No. 528 500 kV line followed by loss of the Belmont No. 5 765/500 kV Autotransformer or the Kammer(AEP)-Belmont-Mountaineer(AEP) 765 kV line.

- **Previous Result:**
  - Stability issues for the generation at the Pleasants and Oak Grove plants and thermal overloads on the 138 kV lines in the area.

- **Existing Procedure:**
  - Upon outage of either facility listed in the ‘Condition’ statement above, arm the SPS as outlined in PJM Transmission Operations Manual 3 as Belmont SPS [SPS]. The SPS trips both Oak Grove Combustion Turbines and a selected Pleasants Unit upon the loss of the other facility listed in the ‘Condition’ statement above.

- **New Result:**
  - With the retirement of the Willow Island Generation the local system changes
  - Retirement of the generation in the area eliminates the need to trip either Oak Grove unit.

- **Revised Procedure:**
  - Upon outage of either facility listed in the ‘Condition’ statement above, arm the SPS as outlined in PJM Transmission Operations Manual 3 as Belmont SPS [SPS].
  - The revised procedure limits the output of one of the Pleasants units to a maximum of 520 MW and arms-to-trip the other Pleasants unit. Oak Grove units will not be affected.

- **Forecast Implementation Date:**
  - December 1, 2013 following a procedural 90 day lead time to review changes with RFC.
Belmont SPS:
Belmont Substation:
Required due to stability issues with the Pleasants & Oak Grove generation and thermal overloads of 138 kV lines in the Parkersburg area under contingency conditions.