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.