Generation Deactivation Notification Update

Transmission Expansion Advisory Committee
February 7, 2019
Problem Statement: Generation Deliverability – Fairless Hills

Emilie 1 – Rolling Mills B 230 kV line is overloaded for multiple contingencies:

- Bus contingency for loss of Emile 2 138 kV bus

- Breaker failure contingency for loss of Emile 2 230/138 kV transformer, Falls 2 138 kV bus, and Emile 2 138 kV bus.

- Breaker failure contingency for loss of Emile 2 230/138 kV transformer, Neshaminy 230 kV bus, and Emile 2 138 kV bus.
Problem Statement: Generation Deliverability – Fairless Hills

Emilie 2 - Falls 2 138 kV and Falls - Steel Tap 138 kV line are overloaded for multiple contingencies:
- Base case condition.
- Single contingency for loss of Burlington - Croydon 230 kV line.
- Breaker failure contingency for loss of Burlington – Croydon 230 kV line and China Tap 230 kV and Emilie 96 230 kV buses.

Recommended Solution:
- Additional analysis was performed following 1/10/19 TEAC with PSE&G.
- Existing baseline b2836 – Convert Brunswick – Trenton 138 kV circuits to 230 kV circuits.
- Request made to and confirmed with PSE&G subject to standard equipment lead times and permitting approvals.

Required IS Date: 06/01/2020
Original Required IS Date: 12/31/2021
Original TEAC Date: 01/12/2017

* Operating measures identified to mitigate reliability impacts in interim
<table>
<thead>
<tr>
<th>Unit(s)</th>
<th>Transmission Zone</th>
<th>Requested Deactivation Date</th>
<th>PJM Reliability Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warren County NUG (10 MW)</td>
<td>JCPL</td>
<td>6/01/2019</td>
<td>Reliability analysis complete</td>
</tr>
<tr>
<td>Bellefontaine (5 MW)</td>
<td>Dayton</td>
<td>06/01/2020</td>
<td>Reliability analysis complete</td>
</tr>
<tr>
<td>Conesville 4 (780 MW)</td>
<td>AEP</td>
<td>6/01/2020</td>
<td>Reliability analysis underway</td>
</tr>
</tbody>
</table>
• V1 – 02/01/2019 – Original Slides Posted