Generation Deactivation Notification Update

Transmission Expansion Advisory Committee
November 14, 2019
<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>Osage (50 MW)</td>
<td>APS</td>
<td>01/01/2020</td>
<td>Reliability analysis Complete. No violation identified</td>
</tr>
</tbody>
</table>
Second Read
Problem Statement: N-1-1 thermal for Buchanan 1 and 2
Deactivation: AEP FERC 715 violation

Garden Creek – Whetstone 69 kV line is overloaded for the following scenarios.


Recommended Solution:
- Rebuild the Garden Creek - Whetstone 69 kV line (4.65 mile) (b3139).

- Existing Scope Rating: 44 MVA SN / 44 MVA SE
- New Scope Rating: 102 MVA SN / 142 MVA SE

Required IS Date: 06/01/2023
Projected IS Date: 06/01/2023
Estimated Project Cost: $14M
Problem Statement: N-1-1 thermal for Buchanan 1 and 2 Deactivation: AEP FERC 715 violation

Whetstone - Knox Creek - Coal Creek 69kV line is overloaded for the following scenarios:

- Single contingency loss of Richlands - Broadford 138 kV line followed by single contingency loss of the Whitewood – Hales Branch 138 kV line.


Recommended Solution:

- Rebuild the Whetstone - Knox Creek 69 kV line (3.1 mile) (b3140).
- Rebuild the Knox Creek –Coal Creek 69 kV line (2.9 mile) (b3141).

- Existing Scope Rating: 44 MVA SN / 44 MVA SE
- New Scope Rating: 102 MVA SN / 142 MVA SE

Required IS Date: 06/01/2023
Projected IS Date: 06/01/2023

Estimated Project Cost: $9M – b3140
$9M – b3141
• V1 - 11/08/2019 - Original slides posted