Generation Deactivation Notification Update

Transmission Expansion Advisory Committee
May 16, 2019
## Deactivation Status

<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>Possum Point 5 (770 MW)</td>
<td>Dominion</td>
<td>5/31/2021</td>
<td>Reliability analysis complete. No violations identified.</td>
</tr>
<tr>
<td>Chesapeake 2 (12.4 MW)</td>
<td>Dominion</td>
<td>06/07/2019</td>
<td>Reliability analysis complete. No violations identified.</td>
</tr>
</tbody>
</table>
Scope Change for B3012

Scope History

A. June 7, 2018 TEAC: Initial scope for constructing two new 138 kV ties between Elrama and Route 51 using double circuit construction.
   - Driven by FENOC (nuclear) deactivations
   - Estimated cost: $9.2M

B. November 5, 2018: PJM receives FE construction acceptance for b3012
   - FE revised cost and scope to $23.1M due to detailed estimate;
   - Estimated cost: $27.7M (FE: $23.1M; DLCO: $4.6M)

C. November 8, 2018 TEAC: Scope revised for additional FES Coal deactivations
   - Separate the two new Elrama – Route 51 circuits onto separate structures to alleviate common structure contingency overloads on the Mitchell - Elrama 138 kV and Route 51 - Charleroi 138 kV #1 and #2 lines.
   - New Estimated cost: $45.7M (FE: $41.1M, DLCO: $4.6M)
Scope Change for B3012 – Continued
Revised Scope (Combine previous B with new D scope)

B. Construct two new 138 kV tie lines using double circuit construction
   - Estimated cost: $27.7M (FE: $23.1M; DLCO: $4.6M)

D. Construct new Elrama – Route 51 138 kV #3 line (SN 789 MVA / SE 908 MVA).
   - Reconductor ~4.7 miles of the existing double circuit Shepler Hill Jct. – Mitchell 138 kV line (FE). Line will be six-wired.
   - Construct ~1.5 miles of new double circuit 138 kV line from Route 51 to the reconducted portion of the Shepler Hill Jct. – Mitchell 138 kV line (FE). Line will be six-wired.
   - Cut the existing Shepler Hill Jct. – Mitchell 138 kV line at two locations
   - Cut the Mitchell – Elrama line and connect to the former Shepler Hill Jct. – Mitchell 138 kV line. Establishes new tie line in place of the existing Elrama – Mitchell 138 kV line (DLCO).
   - Install one new terminal at FE’s Route 51 substation (FE).
Scope Change for B3012 – Continued
Revised Scope (Combine previous B with new D scope)

- This project eliminates the need for b2966, which reconductors Yukon - Smithton - Shepler Hill Jct, and replace line disconnect switch at Yukon.
  - Estimated cost: $6.7M.

D project cost: $19.1 (FE: $18.1M, DLCO:$1M)
B & D combined cost: $46.8M

Required IS Date: 06/01/2021
Projected IS Date: 06/01/2021
Revised Scope Change for B3012 – Benefit: $5.6M

<table>
<thead>
<tr>
<th>Work Description</th>
<th>Original Scope</th>
<th>Revised Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construct new double circuit 138 kV tie lines (b3012 scope B)</td>
<td>Not Required</td>
<td>$27.7M</td>
</tr>
<tr>
<td>Construct new circuits on separate structures (b3012 scope C)</td>
<td>$45.7M</td>
<td>Not Required</td>
</tr>
<tr>
<td>Construct a new Elrama – Route 51 138 kV #3 line (b3012 scope D)</td>
<td>Not Required</td>
<td>$19.1M</td>
</tr>
<tr>
<td>Reconductor Yukon - Smithton - Shepler Hill Jct (b2966)</td>
<td>$6.7M</td>
<td>Not required</td>
</tr>
<tr>
<td><strong>Total Estimated Cost</strong></td>
<td><strong>$52.4M</strong></td>
<td><strong>$46.8M</strong></td>
</tr>
</tbody>
</table>
• V1 – 05/13/2019 – Original slides posted