RTEP Retool Due to Withdrawal of Projects  
A13, B33, E05_W25

**Network Impacts**  
The system, as planned, was evaluated for compliance with reliability criteria due to the withdrawal of four generation projects (A13, B33 and E05_W25). A description of these projects can be found at [http://www.pjm.com/geninter/geninter.html](http://www.pjm.com/geninter/geninter.html). The results of the retool are summarized below.

**Single Contingency (MAAC Criteria IIA)**  
No identified problems.

**Second Contingency (MAAC Criteria IIB)**  
No identified problems.

**Multiple Facility Contingency (MAAC Criteria IIC)**  
No identified problems.

**Generator Deliverability**  
1. The TMI 500/230 kV transformer is overloaded for the outage of Conastone – Peach Bottom 500 kV. The cost allocation for all impacted projects is provided below.

**Stability (MAAC Criteria IV)**  
No additional stability analysis was completed for the withdrawal of these projects.

**CETO/CETL (MAAC Criteria III / VIIB)**  
No identified problems.
Short Circuit Analysis
One new Chichester 230 kV circuit breaker (#125) is overdutied and one Eddystone 230 kV breaker (#335) had a cost allocation change. The Chichester breaker can be upgraded at a cost of $0.061 million in less than 1 year and the Eddystone breaker will require replacement at a cost of $0.434 million. The cost allocation for both items are located in the chart below.

System Reinforcements and Cost Allocation
Overload #1 can be eliminated by installing a second 500/230 kV transformer at TMI. The cost is estimated at $10.6 million and is expected to take 2.5 years.

Eliminated System Reinforcements
The following previously identified system reinforcement is no longer required.
1) Reconductor Graysferry – Parrish 230 kV – this reinforcement was still required at queue position A21 but is eliminated by subsequently queued generators that reduce the loading on the circuit (A59 and B30).

<table>
<thead>
<tr>
<th>Upgrade #</th>
<th>System Upgrades</th>
<th>Cost Estimate ($ Millions)</th>
<th>A21</th>
<th>D20</th>
<th>E21</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>95</td>
<td>Replace Eddystone 230 kV breaker #335</td>
<td>0.434</td>
<td>100%</td>
<td>100%</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>252</td>
<td>Add a second 500/230 kV transformer at TMI</td>
<td>10.600</td>
<td>62%</td>
<td>38%</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>253</td>
<td>Upgrade Chichester 230 kV breaker #125</td>
<td>0.061</td>
<td>100%</td>
<td></td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>252</td>
<td>Add a second 500/230 kV transformer at TMI</td>
<td>10.600</td>
<td>92 MW</td>
<td>56 MW</td>
<td></td>
<td>N/A</td>
</tr>
</tbody>
</table>