

## **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>. 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).

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