

# Generation Interconnection

This analysis was completed to assess the reliability impact for a new generator interconnecting to the PJM system as a capacity resource.

## **Network Impacts -500 MW Injection into the TMI 230kV substation**

### **Network Impacts**

All load flow studies were performed under the assumption that the Yorkanna-Otter Creek 230 kV line is in-service. The B32 project cannot be granted capacity certification without Yorkanna-Otter Creek in service.

#### **Normal System**

- No identified problems.

#### **Multiple Facility Contingency (MAAC Criteria IIC)**

- No identified problems.

#### **Generator Deliverability**

- The TMI 500/230 kV transformer is overloaded to approximately 112% of emergency rating for loss of the Conastone – Peach Bottom 500 kV circuit.

#### **Short Circuit Analysis**

- No identified problems.

### **System Reinforcements**

The overload on the TMI 500/230 kV transformer can be alleviated by the addition of a second 500/230 kV transformer. Estimated cost for the addition is \$ 6.4 million. Installation will take approximately 3 years