

#Q47 Peach Bottom 140 MW  
**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***

The Queue Q47 project was studied as a **140 MW (Net) Capacity injection into the Peach Bottom 500 kV substation**. Q47 was evaluated for compliance with reliability criteria for summer peak conditions in 2011. Potential network impacts were as follows:

#### **Generator Deliverability**

No problems were identified

#### **Multiple Facility Contingency**

*(Double Circuit Towerline Contingencies only. Stuck breaker and bus fault contingencies will be performed for the Impact Study)*

No problems were identified

#### **Short Circuit**

No problems identified.

#### **New System Reinforcements**

None required.

#### **Contribution to Previously Identified Overloads**

*(Overloads initially caused by prior Queue positions with additional contribution to overloading by Queue Q47. Queue 47 will have a % allocation cost responsibility, based on relative contribution to the overloaded facility, which will be calculated and reported for the Impact Study)*

There are a number of network reinforcements required to mitigate thirty separate thermal overloads identified for the Queue O66 project in New Jersey. Project Q47 does not contribute to any of the overloads identified for Queue O66; however, as the reinforcements for the thirty overloads have not yet been determined, an assessment of the impact of Q47 on the reinforcements required by Queue O66 was not able to be performed. Evaluation of Queue Q47's impacts on the O66 reinforcements will be performed during the Q47 Impact Study if Queue O66 and Q47 remain in the PJM Generation Interconnection Queue at that time. It is unlikely, but possible, that Queue Q47 will have an impact on the reinforcements for Queue O66.