

## **R19 Ladysmith230-kV** **Generator Interconnection**

### **Network Impacts**

The #R19 project was studied as a 340 MW Capacity resource at the Lady Smith 230 kV facility in the Dominion's system. Project #R19 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

No problems were identified

#### Contribution to Previously Identified Overloads

Contribution of 46 MW further overloads to the Conastone-Peach Bottom 500 kV line from 118% to 120% of its emergency rating (2598 MVA) for the outage of the #1 generating unit (1128 MW) at Peach Bottom. PJM has decided to issue this Feasibility Study Report in advance of completion of the analysis and costs for this impact. The System Impact Study will include the required reinforcements and estimated cost allocation.

#### New System Reinforcements

None

#### Contribution to Previously Identified System Reinforcements

To be determined at the System Impact Study.

#### Short Circuit

There is no impact to breaker interrupting capabilities as a result of R19. These results are subject to change during the System Impact Study.