

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 - 16MW Injection

Injection of 16 MW into the Burlington 138kV substation was evaluated for network impacts. The following potential impacts were identified:

Generator Deliverability

No problems identified.

Multiple Facility Contingency – Tower Line Outages (MAAC Criteria IIC)

No problems identified

Short Circuit

Short circuit analysis was not required. Project #G17 is existing generation with no change to generator or step up transformer impedance.

New System Reinforcements

No problems identified

Contribution to Previously Identified System Reinforcements

The G17 project will be allocated a percentage of the costs for the following previously identified network reinforcements:

- The G17 project contributes approximately 10 MW to the overloads of the Burlington - Levittown 138 kV I and J circuits. The Burlington - Levittown 138 kV I and J circuits can be upgraded to relieve the previously identified overloads. The I and J circuits can be rebuilt at an estimate of \$20 million with a 4 year lead-time.

Cost allocation percentages are not provided as part of the Feasibility Study analysis, however, cost allocation will be provided at the conclusion of the Queue D, E, F, and G Impact Study evaluations.