



# Generation Interconnections

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

Network Impacts -646 MW Injection into the Keystone-Conemaugh 500kV line (F5)

## Network Impacts

### Normal System

- No identified problems.

### Multiple Facility Contingency (MAAC Criteria IIC)

- No identified problems.

### Generator Deliverability

- The project contributes to the post-contingency voltage drops exceeding 5% at Juniata 500 kV for the outage of Hunterstown - Conastone 500 kV and Hunterstown 500/230 kV #1.

### Short Circuit Analysis

- No identified problems.

### System Reinforcements

- Install a 350 MVAR SVC at Juniata 500 kV. The estimated cost is \$24.4 million.

There are a number of existing generating plant/GPU/PJM operating procedures and Special Protection Schemes associated with the Keystone-Conemaugh area, ie Keystone breaker closing, Conemaugh stability, runback schemes, field forcing, maintenance, etc., that will need to be verified for adequacy with the addition of this project. That evaluation will be completed in the Facilities Study.