

#Q73 – South Reading 69kV 30MW
Generation Interconnection

This analysis was completed to assess the reliability impact for a new generator interconnecting to the PJM system as a capacity resource of 25 MW with an additional 5 MW of energy.

Network Impacts

The #Q73 was studied as an injection of 30 MW (energy) and a 25 MW Capacity injection into the South Reading-West Reading 69 kV transmission line. Project #Q73 was evaluated for compliance with reliability criteria for summer peak conditions in 2011. Potential network impacts were as follows:

Generator Deliverability

No problems identified.

Multiple Facility Contingency

No problems identified.

Short Circuit

No problems identified.

The fault duty currently at the Mt Hope 34.5 kV bus without the addition of the new generation is as follows.

3-Phase	23,406 amps
SLG	8,991 amps

Contribution to Previously Identified Overloads

None.

New System Reinforcements

None

Contribution to Previously Identified System Reinforcements

None