

#Q41 – Mt. Hope 34.5kV 30 MW
Generation Interconnection

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

Network Impacts

The #Q41 was studied as an injection of 30 MW (energy) into the Mt. Hope 34.5 kV station. Project #Q41 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	6,949 amps
SLG	3,603 amps

Contribution to Previously Identified Overloads

None.

New System Reinforcements

None

Contribution to Previously Identified System Reinforcements

None