Queue # O38
Johnstown – Altoona 230 kV

Network Impacts

The #O38 project was studied as an addition of 50 MW (10 MW of Capacity) to the Johnstown – Altoona 230 kV circuit. Project #O38 was evaluated for compliance with reliability criteria for summer peak conditions in 2009. Potential network impacts were as follows:

Generator Deliverability

No problems were identified

Multiple Facility Contingency

No problems were identified

Contribution to Previously Identified Overloads

O38 contributes to the following overloads previously identified under the N39 System Impact Study:

The following facilities are overloaded under normal conditions:

- Huntingdon-OC1 Tap 46 kV
- Warrior Ridge - WRH Tap 46 kV
- WRH Tap - OC1 Tap 46 kV

New System Reinforcements

To be determined

Contribution to Previously Identified System Reinforcements

To be determined

Short Circuit

No overdutied breakers were found on the 230kV and above system.

PJM also studied the delivery of the energy portion of this interconnection request. Any problems identified below are likely to result in operational restrictions to the project under study. The developer can proceed with network upgrades to eliminate the operational restriction at their discretion by submitting a Merchant Transmission Interconnection request.

As a result of the aggregate energy resources in the area, the following violations were identified:

The #O38 project causes the Lewistown- Juniata 230 kV line to load to 101% of its emergency rating (617 MVA) for the outage of Juniata to Keystone 500 kV line. The #O38 project contributes approximately 11 MW to the contingency overloaded facility. The limiting component for the Lewistown-Juniata 230 kV line is transmission line conductor.