

Queue #O17

Somerset-Allegheny 115 kV

Network Impacts

The #O17 project was studied as a total injection of 65 MW (13 MW of Capacity) into a tap of the Somerset to Allegheny 115 kV circuit. Project #O17 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

None

New System Reinforcements

To be determined

Contribution to Previously Identified System Reinforcements

To be determined

Short Circuit

No problems were identified

Delivery of Energy Portion of interconnection Request

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 #O17 project, with a contribution of 15 MW, causes the Garret 115/138kV transformer to load to 103% of its emergency rating (90 MVA) for the outage of the Keystone-Shelocta-Homer 230 kV circuit.