

Queue #O19

Somerset 115 kV

Network Impacts

The #O19 project was studied as a total injection of 33 MW (6.6 MW of Capacity) at two distinct points of the Penelec system. Option 1 considers the injection into a tap of the Somerset to Allegheny 115 kV circuit. Project #O19 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

None

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 #O19 project contributes 6 MW to the overload of the Garret 115/138 kV transformer, which had previously been caused by project O17.