Queue # O56
Osterburg East 115 kV

Network Impacts

The #O56 project was studied as a total injection of 125 MW (25 MW of Capacity) into the Osterburg East 115 kV substation. Project #O56 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

No problems were identified

New System Reinforcements

To be determined

Contribution to Previously Identified System Reinforcements

To be determined

Short Circuit

No overdutied breakers were found on the transmission system above 230 kV. The subtransmission system is to be studied in the Impact Study phase.

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:

1. The Claysburg to Osterburg 115 kV line loads to 397% of its normal rating (28 MVA). The #O56 project contributes 125 MW to this condition.
2. The Glory to Dixonville 115 kV line loads to 112% of its emergency rating (124 MVA) for the outage of the Homer Ct-Shelocta-Keystone 230 kV circuit. The #O56 project contributes approximately 13 MW to this condition
3. O56 contributes 15 MW to the overload of the Garret 115/138 kV transformer originated by the #O17 project for the outage of the Keystone-Shelocta-Homer 230 kV circuit.

4. The Tyrone N-Westfall 115 kV line loads to 105% of its normal rating (90 MVA). The #O56 project contributes approximately 14 MW to this condition.
5. The Homer CT-Shelocta loads to 102% of its emergency rating (854 MVA) for the outage of the Erie W to Wayne 115 kV circuit. The #O56 project contributes approximately 47 MW to this condition.
6. It contributes 20 MW to the overload of the Lewistown to Juniata 230 kV line for the outage of the Juniata to Keystone 500 kV line, which was first cause by the #O38 project.
7. The Garret-Garret Tap 115 kV line loads to 108% of its emergency rating (125 MVA) for the outage of the Homer Ct-Shelocta-Keystone 230 kV circuit. The #O56 project contributes approximately 15 MW to this condition.