O72 - Hooversville-Central City West 115 kV
Generation Interconnection

Network Impacts

The #O72 project was studied as a total injection of 60 MW (12 MW of Capacity) into a tap of the Central City to #I13 115 kV circuit. Project #O72 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

None

Contribution to Previously Identified System Reinforcements

None

Short Circuit

To be studied during Impact Study.

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 #O72 project contributes 11 MW to the overload of the Altoona to Raystown 230 kV line for the outage of the Homer-Shelocta-Keystone 230 kV circuit, which was originally caused by the #O71 project.
2. The #O72 project contributes 6 MW to the overload of the Glory-Dixonville 115 kV line for the outage of the Homer Ct-Shelocta-Keystone 230 kV circuit, which was originally caused by the #O56 project.
3. The Lewistown to Raystown 230 kV line loads to 100% of its emergency rating (505 MVA) for the outage of the Homer Ct-Shelocta-Keystone 230 kV circuit. The #O72 project contributes approximately 12 MW to this condition.
4. The Summit to West Falls 115 kV circuit loads to 101% of its emergency rating (229 MVA) for the outage of the Johnstown-N39 230 kV line. The #O72 project contributes approximately 4 MW to this condition.

5. The #O72 project contributes 9 MW to the overload of the Garret (472 – 20470) 115 kV for the outage of the Homer Ct-Shelocta-Keystone 230 kV circuit, which was originally caused by the #O56 project.
6. The #O72 project contributes 25 MW to the overload at the Homer Ct-Shelocta for the outage of the Erie W. to Wayne 115 kV circuit, which was originally caused by the #O56 project.
7. The #O72 project contributes 7 MW to the overload at the Lewistown to Juniata 230 kV line for the outage of Juniata to Keystone 500 kV line, which was originally caused by the #O38 project.