Generation Interconnection Feasibility Study Report Queue Position AD2-035

General

Interconnection Customer is requesting 38.9 MW incremental increase (uprate) to its existing facility located at Pottsville Pike in Berks County, PA. PJM recognizes 14.0 MW as Capacity Interconnection Rights for this Queue Request. The proposed in-service date for the AD2-035 project is December 1, 2019. **This study does not imply a Transmission Owner ("Mid-Atlantic Interstate Transmission, LLC" or "MAIT") commitment to this in-service date.**

Point of Interconnection ("POI")

The AD2-035 uprate project will use the same existing POI of the facility designated Queue No. AA1-043. The existing POI will remain unchanged.

Network Impacts

Summer Peak Analysis - 2021

The Queue Project AD2-035 was evaluated as a 14.0 MW summer net energy incremental increase - and 14.0 MW Capacity uprate to Ontelaunee Units which is modeled as an injection at the Ontelaunee 230kV substation in the METED area. Project AD2-035 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AD2-035 was studied with a commercial probability of 53%. Potential network impacts were as follows:

Generator Deliverability
(Single or N-1 contingencies for the Capacity portion only of the interconnection)

None

Multiple Facility Contingency
(Double Circuit Tower Line, Fault with a Stuck Breaker, and Bus Fault contingencies for the full energy output)

None

Contribution to Previously Identified Overloads
(This project contributes to the following contingency overloads, i.e. "Network Impacts", identified for earlier generation or transmission interconnection projects in the PJM Queue)

None

Steady-State Voltage Requirements
To be determined during the system impact study stage.

Short Circuit
As the machine parameters will not change as a result of this project, a short circuit analysis is not required.

Affected System Analysis & Mitigation

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.
Only the most severely overloaded conditions are listed. There is no guarantee of full delivery of energy for this project by fixing only the conditions listed in this section. With a Transmission Interconnection Request, a subsequent analysis will be performed, which will study all overload conditions associated with the overloaded element(s) identified.

Not Applicable

Light Load Analysis - 2021
Light Load Studies to be conducted during the system impact study stage (as required by PJM Manual 14B).

System Reinforcements

Short Circuit

None.

Stability and Reactive Power Requirement

To be determined during the system impact study stage.

Summer Peak Load Flow Analysis Reinforcements

New System Reinforcements
(Upgrades required to mitigate reliability criteria violations, i.e. Network Impacts, initially caused by the addition of this project generation)

None

Contribution to Previously Identified System Reinforcements
(Overloads initially caused by prior Queue positions with additional contribution to overloading by this project. This project may have a % allocation cost responsibility which will be calculated and reported for the Impact Study)

None

Light Load Load Flow Analysis Reinforcements

New System Reinforcements
(Upgrades required to mitigate reliability criteria violations, i.e. Network Impacts, initially caused by the addition of this project generation)

None

Contribution to Previously Identified System Reinforcements
(Overloads initially caused by prior Queue positions with additional contribution to overloading by this project. This project may have a % allocation cost responsibility which will be calculated and reported for the Impact Study)

None