

#O49 - Wempletown - Byron 345kV
Generator Interconnection

Network Impacts

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The #O49 project was studied as a total injection of 200 MW (40 MW of Capacity) into the Wempletown 345 kV substation. Project #O49 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

1. It contributes 18 MW to the thermal violation of the Kammer 765/500 kV transformer in AP, which was originally caused by the #N42 project. The necessary reinforcements and associated cost estimates are being studied by AP and will be available at the Impact Study phase for this project.

New System Reinforcements

To be determined.

Contribution to Previously Identified System Reinforcements

To be determined.

Short Circuit

No problems were identified.

Potential Issues

The #O49 project may impact Byron Station 6 Stability.

During certain maintenance outages the #O49 project will be required to be taken off line.

Note: Impact on the MISO member transmission systems is not included in this analysis, but will be in the Impact Study, which possibly may reveal upgrades needed in the MISO system not identified in this Feasibility Study.