

#P10 – LaSalle 138kV
Generation Interconnection

Network Impacts

The #P10 project was studied as a 200 MW (40 MW of Capacity) increase to N15 (La Salle 138 kV). Project #P10 was evaluated for compliance with PJM reliability criteria for summer peak conditions in 2010. Potential network impacts were as follows:

Generator Deliverability

No problems were identified.

Multiple Facility Contingency

No problems were identified.

Contribution to Previously Identified Overloads

Contribution of 19 MW further overloads the Kammer 765/500 kV transformer from 122% to 123% of its emergency rating (1434 MVA) for the Beverly – Tidd - W. Bellair and Kammer - W. Bellair 345 kV tower outage. This violation was first identified for the N42 project. APS is currently studying the associated network reinforcements to mitigate this condition. The replacement cost for the Kammer 765/500 kV transformer is estimated to be in the \$18,000,000 range and P10 may share an allocation cost for this upgrade. This allocation cost to be determined during the P10 Impact Study. The necessary reinforcements and associated cost estimates will be available at the Impact Study phase for this project.

Short Circuit

There were no overdutied circuit breakers due to #P10 identified at this time. The short-circuit study for #P10 considers the overdutied breakers upgraded for projects ahead of #P10 in the PJM queue. If projects ahead of #P10 drop out, the short-circuit analysis will be repeated and #P10 may ultimately be responsible for breaker upgrades.

New System Reinforcements

None identified. To be finalized at the System Impact Study.

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