#T103 Sunbury 10 MW

Generator Interconnection

This analysis was completed to assess the reliability impact for a new generator interconnecting to the PJM System as a Capacity Resource.

Network Impacts

Queue T103 was studied as a 10 MW Capacity injection at Sunbury 69 kV bus. Project T103 was evaluated for compliance with reliability criteria for summer peak conditions in 2012. Network impacts were as follows:

Generator Deliverability
No problems were identified

Multiple Facility Contingency
No problems were identified

Short Circuit
Not applicable, there is no change to generator and transformer impedance.

Stability Analysis
Not required, there are no changes to generator characteristics

Power Factor Design Requirements Compliance
Queue T102 Power Factor design capability meets or exceeds the dynamic range requirement of 0.95 lead to 0.90 lag. (or maintain grandfathered MVAR capability plus Unity to 0.90 lag power factor for new MWs if the generation request is less than 20 MW)

Contribution to Previously Identified Overloads
No problems were identified

New System Reinforcements
None

Contribution to Previously Identified System Reinforcements
None identified.

