#T102 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 T102 was studied as a 10 MW Capacity injection at Sunbury 69 kV bus. Project T102 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.