

Generation 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 - 100 MW Injection

Network impacts for the injection of 100 MW into the Clayton 138kV bus was evaluated for 2005 summer peak conditions. There were no identified network upgrade requirements; however, analysis performed for the Generator Deliverability evaluation assumes that PJM Generator Interconnection Request #A28 (Dover 100 MW) is connected to the system as planned. If this assumption is incorrect there is a potential overload of the Cheswold 138-69 kV transformer and the Cheswold – Kent 69 kV line for the contingency outage of the Harrington – South Harrington 69 kV line. This may require replacement of the 50 MVA Cheswold transformer with a larger unit, and increasing the clearance on the Cheswold – Kent 69 kV line. The estimated cost of these upgrades is in \$1M range. The construction of these upgrades could be done 18 to 24 months.