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 - 37 MW Injection

Network impacts for the injection of 37 MW into Fairlawn 26kV substation feeder H-476 and Plauderville 26kV substation feeder W-361 was evaluated for 2004 summer peak conditions.

Injection of 37 MW into Fairlawn 26kV substation feeder H-476 and Plauderville 26kV substation feeder W-361 was evaluated for system normal conditions, single contingency outage conditions, and some multiple contingencies. **The analyses assumes that earlier projects, in the PJM Generator Interconnection queues, are already connected**. In addition, a limited breaker short circuit duty screening was also performed. Stability analysis, and the determination of cost allocation for network upgrade requirements are not performed within the scope of the feasibility study.

Based on the power flow analysis performed the following network impacts were identified:

Normal System

- No identified problems.

Generator Deliverability

- No identified problems.

Multiple Facility Contingencies (MAAC Criteria IIC)

- No identified problems

Short Circuit Analysis

- No overstressed circuit breakers were identified.