

# Generation Interconnection

This analysis was completed to assess the reliability impact for a new transmission interconnection to the PJM system.

## **Network Impacts**

The #L15 Merchant Transmission project was evaluated as a 25 MVA, AC circuit between PJM (Buffalo Road – Corry East 115kV) and the Niagara Mohawk 34.5kV system at Clymer and as a radial supply of 25 MVA to the Peek'n Peak resort. Project # L15 was evaluated for compliance with reliability criteria for summer peak conditions in 2008. Network impacts for both evaluations are the same and are described below:

### **Normal System**

No problems identified.

### **Single Contingency (MAAC Criteria IIA)**

The 115kV system in the Warren area experiences an 18% voltage drop for the loss of the Buffalo Road-L15 project 115kV circuit.

### **Second Contingency (MAAC Criteria IIB)**

No problems identified.

### **Generator Deliverability**

No identified problems

### **Multiple Facility Contingency – Tower Line Outages (MAAC Criteria IIC)**

No identified problems.

### **Short Circuit**

Will be done during the impact study.

## **New System Reinforcements**

Add a second 230/115kV transformer at Warren substation and rearrange the Warren 230kV substation into a ring bus. The cost is estimated at approximately at \$6.50 million and is expected to take two years to complete.

## **Contribution to Previously Identified System Reinforcements**

None.

## **Incremental Deliverability Rights**

As per section 41.2 of the OATT, PJM has developed a preliminary estimate for the Incremental Deliverability Rights at the point of interconnection of the new line with Buffalo Road-Corry East 115kV transmission line as 200 MW.