

## **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 - 234 MW Injection**

Note: Project #G2 is an increase in MW capacity qualification for a previous generation interconnection request. Project #G2 will not increase short circuit duty because the physical generators / generator step-up transformers were represented for the earlier generation interconnection request.

The following Network Impacts were determined for the injection of 234 MW into the Dickerson Station “H” 230kV bus:

### **Generator Deliverability**

No identified problems.

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

No identified problems.

### **Short Circuit**

No identified problems.

The proper generator and generator step-up transformer model for the 4 new generators was represented in the #B1 Impact Study. Project #G2 does not increase the short circuit contribution because it is only an increase in megawatt capacity qualification.

### **New System Reinforcements**

No new system reinforcements were identified.

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

The G2 project is not expected to contribute to any previously identified problems.

### **Note:**

**Future generation projects in the Allegheny Power system (PJM West) were not modeled for this Feasibility Study and may have an impact on this project.** The combination of PJM and Allegheny Power generator interconnection requests is anticipated to occur at the beginning of 2002 provided that PJM West agreements are finalized at that time. The G2 Impact Study will include the effect of Allegheny Power generator interconnection requests.