

## **Network Impacts**

Potential network impacts for the injection of 3.8 MW into the existing Marion 3, 138 kV system was evaluated for summer peak conditions in 2005.

### **Normal System**

- No identified problems.

### **Multiple Facility Contingency (MAAC Criteria IIC)**

- No identified problems.

### **Generator Deliverability**

- No identified problems.

### **Short Circuit Analysis**

- No identified problems.

## **System Reinforcements**

- No new system reinforcements are required.

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

The new generator will be allocated a percentage of the costs for the following previously identified network reinforcements:

1. Provide forced cooling circulation on the Bergen – Leona Tap 230 kV underground circuit to increase the cable rating. The cost is estimated at \$ 2 million and will take 2 years to complete.
2. Convert the Kearny – Roseland, G-1307-7, 138 kV circuit to 230 kV. Provide a new line terminal at Roseland and Essex for the converted 230 kV circuit. The cost is estimated at \$10 million and takes three years to complete.

Project G25 contributes approximately 3 MW toward the need for these projects. Cost allocation percentages are not provided as part of the Feasibility Study analysis, however, cost allocation will be provided at the conclusion of the Queue D, E & F Impact Study evaluations. Several projects in the Northern New Jersey area have recently withdrawn. The withdrawal of these projects may have an impact on these results. Any system network changes will be captured during the impact study.