

#N25 West Brooklyn 11 MW
Generator Interconnection

This analysis was completed to assess the reliability impact for a new generator interconnecting to the PJM system as a Capacity / Energy Resource.

Network Impacts

The system, as planned, was evaluated for compliance with reliability criteria. **The N25 West Brooklyn project was studied as an 11 MW generating resource (2.2 MW Capacity) connected to Mendota TSS 139 34.5 kV bus.** The results are summarized below.

Normal System

No problems identified.

Generator Deliverability

No problems identified.

Local System Reliability Criteria

34 kV Circuit L13931 was found to be overloaded with West Brooklyn generation (also includes Queues L12_CE23, N23 and N24) greater than 44.55 MW and the loss of TR 78 or 138kV source at Mendota TSS 139.

Short Circuit Analysis

No problems identified.

Local System Upgrade Requirements

Reconductoring of 500 ft of line L13931 to 477A1 will be required to eliminate conductor overload with West Brooklyn generation (also includes Queues L12_CE23, N23 and N24) greater than 44.55 MW and loss of TR 78 or 138kV source. The estimated cost for L13931 reconductoring is \$ **25,000** and it can be completed in approximately **3 months**.