

*PJM Generator Interconnection Request  
Queue #E2  
North Lebanon 13.2 kV  
Feasibility and Impact Study Reports*

April 2001  
DMS# 139930

# **North Lebanon Feasibility/Impact Study**

## **General**

Project #E2 is a Lebanon Methane Recovery, Inc. 1.2 MW plant at the existing Lebanon Methane generating facility in Lebanon, Pennsylvania. No new generating facilities will be added. The capacity increase is planned to go in service immediately.

An interim impact study was issued October 9, 2000 for the capacity increase, granting capacity interconnection rights until May 31, 2001.

The intent of the impact study is to determine cost and construction time estimates of system reinforcements required to facilitate the addition of the new generating plant to the PJM system. The reinforcements include the direct connection of the generator to the system and any network upgrades necessary to maintain the reliability of the PJM system

## **Direct Connection**

There are no new or additional connection requirements.

## **Network Impacts**

The system, as planned, was evaluated for compliance with reliability criteria and summer peak conditions in 2005. The North Lebanon 13.2 kV E2 project was studied as a 1.2 MW capacity unit. The results are summarized below.

### **Normal System**

No identified problems.

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

No identified problems.

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

No identified problems.

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

No identified problems.

**Generator Deliverability**

No identified problems.

**Stability (MAAC Criteria IV)**

Due to the relatively small size of the existing generation, no stability analysis was performed.

**CETO/CETL (MAAC Criteria III / VIIB)**

No identified problems.

**Short Circuit Analysis**

No identified problems.