

***PJM Generator Interconnection Request
Queue #D6
Eclipse 115 kV
Feasibility Study Report***

**March 2001
DMS#135662**

Eclipse 115 kV Feasibility Study

General

The Interconnection Customer (IC) has proposed a 5 MW increase, from 80 to 85 MW, in capacity at the existing Scrubgrass generating facility. The plant consists of two circulating, fluidized bed combustion boilers and one extracting/condensing steam turbine generator installed in Scrubgrass Township, Venango County, Pennsylvania. The project is connected to the transmission system at the Eclipse 115 kV bus. No new generating facilities will be added. An interim impact study was issued July 7, 2000 for the capacity increase, granting interim capacity interconnection rights until May 31, 2001.

The intent of the feasibility study is to determine ballpark 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

Potential network impacts for the injection of 5 MW into the Eclipse 115 kV bus were evaluated for the PJM summer peak conditions of 2005.

A summary of the results follows:

Normal System

- No identified problems.

Generator Deliverability

- No identified problems.

Single Contingency (MAAC Criteria IIA)

- No identified problems.

Multiple Facility Contingency (MAAC Criteria IIC)

- No identified problems.

Short Circuit Analysis

- No identified problems.

System Reinforcements

- No identified reinforcements.

Feasibility analysis completed at this time has shown no need for network reinforcement costs for this project. However, feasibility analysis on Queue B and C projects indicated the need for upgrading the Eclipse – Clarks Summit and the Eclipse – Utica Junction lines. Pending completion of the Queue B and C Impact studies, there is a potential for this project to have cost allocation for network upgrades.