

***PJM Generator Interconnection Request
Queue #D4
Peckville (Archbald) 69 kV
Feasibility and Impact Study Reports***

**February 2001
DMS# 133805v2**

Peckville (Archbald) Feasibility/Impact Study

General

PEI Power Corporation has increased capacity by 1 MW at the existing Archbald generating facility from 19 to 20 MW in Archbald, Pennsylvania. No new generating facilities will be added. The capacity increase can go in service immediately. An interim impact study was issued June 5, 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 Peckville (Archbald) 69 kV D4 project was studied as a 1 MW capacity increase to 20 MW. 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 attributable to the 1 MW increase in plant capability.

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.