UPTON PROJECT (QUEUE #63)
FEASIBILITY STUDY ANALYSIS

DESCRIPTION OF PROJECT

The developer wishes to interconnect forty-eight 206 kW generators, for a maximum total generating capability of 9.9 MW, at their location in Franklin County, Pennsylvania, near the borough of Upton. The units will generate at 480V using landfill (natural) gas as a base fuel, supplemented by other fossil fuel. The generation will interconnect at a new AP 34.5 kV switching station, located along the Upton Junction – Milnor 34.5 kV line section. The developer plans to have the generators in service and producing power by May 31, 2002.

ANALYSIS RESULTS

Normal (Base) System Conditions

No overloads or other system deficiencies were identified as being caused by this facility under normal system conditions.

Single Contingency Conditions

No overloads or other system deficiencies were identified as being caused by single contingencies.

Multiple Contingency Conditions

No other overloads or other system deficiencies were identified as being caused by credible multiple contingencies.

Short Circuit Conditions

No breakers were identified as exceeding their maximum interrupting capacity.

SYSTEM REINFORCEMENTS

Required Direct Interconnection Facilities

Construct substation facilities for Upton switching station:

- Install one 34.5 kV breaker, two 34.5 kV air switches, and associated facilities.
- Install 34.5 kV metering equipment and associated facilities.

Estimated cost to construct substation = $437,000.

Loop the Upton Junction – Milnor 34.5 kV line into substation:

- Acquire right of way easements and construct facilities.

Estimated cost for 34.5 kV loop = $28,000.

Required System Reinforcements

None identified.

Required Short Circuit Reinforcements

None identified.

Summary

Total estimated interconnection cost = $465,000.