HATFIELD PROJECT (QUEUE #60)
FEASIBILITY STUDY ANALYSIS

DESCRIPTION OF PROJECT

The developer wishes to interconnect a steam turbine generator for a maximum total generating capability of 525 MW at their Hatfield site in Fayette County, Pennsylvania near the village of Nemacolin. The project will require a 500 kV interconnection at Hatfield Ferry Substation. The unit will generate at 22 kV using refuse coal for fuel. The customer wishes to interconnect into the 500 kV and plans to have the generators in service and producing power by January 1, 2006.

ANALYSIS RESULTS

Normal (Base) System Conditions

No overloads or other system deficiencies were identified.

Single Contingency Conditions

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

Multiple Contingency Conditions

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

Short Circuit Conditions

No breakers were identified as being close to their maximum interrupting capacity.

SYSTEM REINFORCEMENTS

Required Direct Interconnection Facilities

At Hatfield Ferry Substation

- Extend the #1 and #2 500 kV buses
- Install 2-500 kV breakers
- Install 500 kV metering equipment and associated facilities

Estimated cost to expand Hatfield Ferry Substation = $2,400,000

Required System Reinforcements

None identified.

Required Short Circuit Reinforcements

None identified.

Summary

Total estimated cost to interconnect the proposed generation facilities = $2,400,000.