HORSE SHOE RUN PROJECT (QUEUE #15) FEASIBILITY STUDY ANALYSIS

Description of Project

The developer wishes to interconnect two 5.3 MW (6.625 MVA) combustion turbine generators at their Horse Shoe Run site in Preston County, West Virginia near the town of Horse Shoe Run. The project will connect to the 69 kV line through a new Allegheny Power Horse Shoe Run Station. The units will generate at 4.16 kV, using natural gas for fuel. The customer plans to have the generators in service and producing power by December 2001.

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 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 new Horse Shoe Run Station:

- Install one 69 kV breaker and associated facilities.
- Install 69 kV metering equipment and associated facilities.

  Estimated cost to construct facilities = $ 643,000

Construct 69 kV tap line:

Estimated cost to construct line with two manual air switches = $ 60,000

Required System Reinforcements

None identified.

Required Short Circuit Reinforcements

None identified.

Summary

Total estimated cost to interconnect the proposed generation facilities = $ 703,000