HORSE SHOE RUN INCREMENTAL (QUEUE #58)
FEASIBILITY STUDY ANALYSIS

DESCRIPTION OF PROJECT

The developer wishes to increase their proposed generation by 20 MW using 24 windmill generators along with the previously proposed two 5.3 MW (6.625 MVA) gas turbine generators for a maximum total generating capability of 30.6 MW at their site in Preston County, West Virginia near Horse Shoe Run. The windmill units are assumed to generate at 600 volts and will be collected at 34.5 kV. The gas turbine units will generate at 4.16 kV using natural gas for fuel. To generate into the AP system a single 35 MVA, 69-34.5-4.16 kV three winding transformer will be installed and approximately 50 feet of 69 kV line constructed to AP's interconnection facility. The proposed Horse Shoe Run switching station will be connected to the existing Snowy Creek-William #22 69 kV line. The in-service date for this project is uncertain.

ANALYSIS RESULTS

Normal (Base) System Conditions

No overloads or other system deficiencies were identified as being caused by this project 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

No additional interconnection facilities are required.

Required System Reinforcements

None identified.

Required Short Circuit Reinforcements

None identified.

Summary

An increase in the Direct Access Charge will be assessed.