BACKBONE MOUNTAIN PROJECT (QUEUE #7)
FEASIBILITY STUDY ANALYSIS

DESCRIPTION OF PROJECT

The developer wishes to interconnect 100-900 kW wind turbine generators at their Backbone Mountain site in Tucker County, West Virginia near the town of William. The project will connect to the 138 kV bus at the Allegheny Power William Substation. The units will use wind 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

Install 138 kV facilities at William Substation:

- Install one 138 kV breaker and associated facilities.
- Install 138 kV metering equipment and associated facilities.

Estimated cost to construct facilities = $ 239,000

Required System Reinforcements

None identified.

Required Short Circuit Reinforcements

None identified.

SUMMARY

Total estimated cost to interconnect the proposed generation facilities = $ 239,000