

# **GUILFORD PROJECT (QUEUE #20)**

## **FEASIBILITY STUDY ANALYSIS**

### **DESCRIPTION OF PROJECT**

The developer wishes to interconnect two 44/48 MW combustion turbine generators at their Guilford (Chambersburg) site in Franklin County, Pennsylvania near the town of Chambersburg. The project will connect to the 138 kV bus at Allegheny Power's Guilford Substation. The units will generate at 13.8 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 substation facilities at Guilford Substation:

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

Estimated cost to construct facilities = \$ 579,500

Relocate Grand Point 138 kV line:

Estimated cost to relocate line = \$ 161,000

### **Required System Reinforcements**

None identified.

### **Required Short Circuit Reinforcements**

None identified.

## **SUMMARY**

Total estimated cost to interconnect the proposed generation facilities = \$ 740,500