

RED OAK RANCH – MONTEREY 69 KV FEASIBILITY STUDY (# L16)

Network Impacts

The # L16 project was studied with a total of 35 MW capacity injection into the Allegheny Power 69 kV system at the Red Oak Knob Station. Project # L16 was evaluated for compliance with reliability criteria for summer peak conditions in 2008. Potential network impacts were as follows:

Normal System:

No identified problems in energy-only or in 20 % capacity mode.

Single Contingency:

No identified problems. It is assumed that the generator will be shut down for the loss of the Durbin-Monterey 69 kV line thus eliminating islanding issues.

Multiple Facility Contingencies (i.e. Tower Line Outages):

No identified problems.

Generator Deliverability:

No identified problems.

Short Circuit Study:

No breaker replacements required for interconnection.

New System Reinforcements (Upgrades):

No identified problems.

Contribution to Previously Identified System Reinforcements:

None.

Cost allocation percentages are not provided as part of the Feasibility Study analysis, however, cost allocation will be provided during the Impact Study evaluations.