

System Planning Report

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Board of Directors July, 2008

Planning Activities - Summary

- ERCOT is currently tracking 246 active generation interconnection requests totaling 106,000 MW. This includes almost 54,000 MW of wind generation
- New Interconnection Agreement signed:
 - Lufkin Biomass in Angelina County for 45 MW (in-service 9/09)
- Regional Planning is currently reviewing proposed transmission improvements with a total cost of \$575 Million
- Transmission Projects approved in 2008 to date total \$169
 Million
- All projects (in engineering, routing, licensing and construction) totals approximately \$3.6 Billion
- Transmission Projects energized in Q2 of 2008 total about \$160 Million

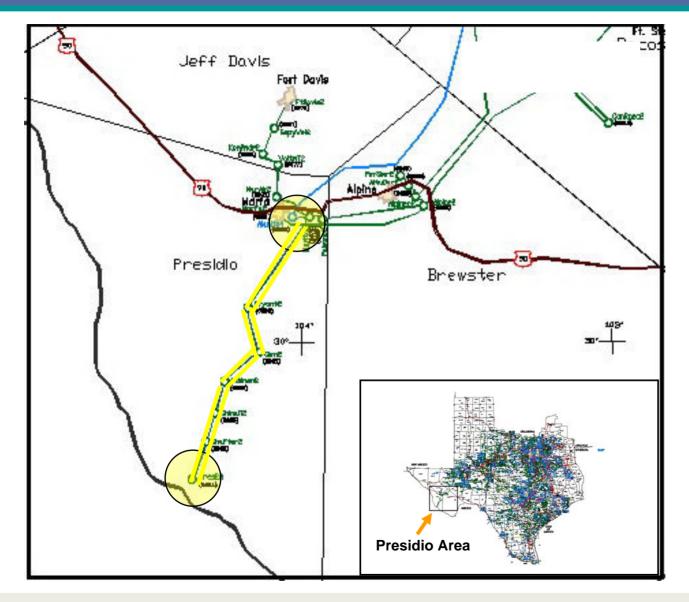




American Electric Power Service Corporation

Presidio Area Reliability Improvements Project

AEP Presidio Area Reliability Improvements Project



- Install a second 138/69 kV autotransformer at Alamito Creek substation in 2008.
- Cost: \$4,000,000
- Install two 2.4 MW NaS battery units at Presidio in 2009.
- Cost: \$15,000,000
- Replace existing 69 kV line with new 69 kV line designed for 138 kV operation from Alamito Creek to Chinati to Presidio in 2012.
- Cost: \$48,000,000
- TOTAL COST: \$67,000,000

15 July 2008

Project is Needed for Reliability

- Install a second 138/69-kV autotransformer at Alamito Creek Substation
 - Necessary to meet reliability criteria under maintenance conditions.
- Install a 4.8 MW NaS battery at Presidio Substation
 - The battery is a short term solution that allows area voltages to meet NERC/ERCOT pre and post-contingency voltage limits during outages of the existing 69-kV line
- Construct a new Alamito Creek-Presidio 69-kV line (built for 138-kV service)
 - Provides long term solution and capacity for expansion.
 - Needed to meet reliability criteria and provide transmission service to rural communities as mandated in PURA §38.005.



Alternatives Considered

- Installation of a small asynchronous tie with CFE
- Installation of 10 MW Diesel Generation
- Block load transfer to CFE
- Addition of Static Capacitors



Stakeholder Review

- The Stakeholder review period for this project was held in April 2008
- Comments received and addressed include:
 - High cost for amount of MW benefit
 - Consider Alternatives
 - Precedent for radial load service
- TAC voted in support of the Presidio project at their June 26 meeting

ERCOT Support for the Project

 ERCOT supports the Presidio project, as described, and requests that the Board endorses the need for the project.

