TRANSMISSION PROJECTS

COMPANY:EGSI-TX

CUSTOMER: PID 217

FACILITIES STUDY

EJO # F4PPTX0021

PID 217 – Generation 42 MW Plant
New 230kV Substation

Revision: 2

Rev	Issue Date	Description of Revision	Revised By	Project Manager
A	1/09/2009	First Draft	MK	MK
B	1/13/2009	Schedule Input	MK	MK
C	1/15/2009	JET Team Input	MK	MK
0	1/15/2009	Final Version	MK	MK
1	4/16/2009	Revised to reflect modified Solution Set	Gabe Munoz	Gabe Munoz
2	4/20/2009	Reviewed by ICT Planning	BEF	JDH

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1. EXECUTIVE SUMMARY

The facility study serves as the scope document for Interconnection Request PID # 217. This Facility Study will include a project scope and a ± 20% cost estimate for the designated project. Unlike a Project Execution Plan, the Facility Study will omit sections and sub-sections not required for compliance with this request.

PID-217 intends to install a generation plant consisting of 42 MW of non-exported generation on Entergy's transmission system. To accommodate this in-plant co-generation project, PID-217 intends to construct a new switchyard, configured with a five breaker ring bus and will include facilities for two 230 kV interconnections with Customer's new 230/69 kV substation (Substation AA); 230 kV Transmission line L-499 (VFW Park to Hanks) will be cut in/out to the new station; and a third 230 kV line will be installed between Sabine to the new 230 kV substation.

The original System Impact Study revealed several breakers were underrated and required upgrades at Entergy's Sabine Station 230 kV bus. Verification of Short Circuit based on the field verification of breaker rating showed the breakers are rated as type BZO-230-20000. The 20000 in the breaker type stands for a rating of 20000 MVA. However, there is a stamping on the breaker nameplate which denotes it is a Symmetrically Rated Breaker rated at 43 kA. Based on this new information and on the refined values for the proposed line and also accounting for the latest queue status, Entergy's Technical System Planning's analyses indicates there are no under-rated breakers due to this project with or without priors. The purpose of this Facility Study is to determine the cost and schedule for any identified upgrades, replacements or assigned work. There is no work identified in the Facility Study. Therefore there is no estimate or work schedule.

Due to continuous system changes, the scope and cost estimates contained in this study may require changes until such time as the customer commits to the agreement.

2. SAFETY AWARENESS

Safety is a priority with Entergy. Safety will be designed into substations and lines. The designs will be done with the utmost safety for personnel in mind for construction, operation and maintenance of the equipment.

All employees working directly or indirectly for Entergy shall adhere to all rules and regulations outlined within the Entergy Safety manual. Entergy requires safety to be the highest priority for all projects. All Entergy and Contract employees must follow all applicable safe work procedures.

Should the work contained within this Facility Study be approved, a detailed Safety Plan will be formulated and incorporated within the project plan.

3. SCOPE SUMMARY

There are no major components for the Sabine Substation needed for this Generation Interconnection project.

4. SCOPE DETAILS

There are no major components for the Sabine Substation needed for this Generation Interconnection project.

5. COSTS

There are no upgrade costs associated with this Generation Interconnection project and thus no upgrade classifications required.

6. SCHEDULE

N/A