

PMSTPCOL PEmails

From: Muniz, Adrian
Sent: Monday, October 19, 2009 9:46 AM
To: rhbense@stpegs.com
Subject: Chapter 8 Draft Supplemental RAI 3494
Attachments: RAI 3494.doc

Richard:

I have attached to this electronic communication a draft request for additional information (RAI) for Chapter 8 of the STP COLA. If you need a conference call to clarify the requested information, please contact me. If a conference call is not needed, please send me an email and I will continue the formal process of issuing the RAIs to STPNOC.

Thanks,

Adrian Muñiz, USNRC
Chapter 8 PM

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Mail Envelope Properties (Adrian.Muniz@nrc.gov20091019094600)

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Request for Additional Information No. 3494 Revision 2

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 08.02 - Offsite Power System
Application Section: 8.2

QUESTIONS for Electrical Engineering Branch (EEB)

08.02-***

RAI 08.02-7 S1:

In response to RAI 08.02-7 pertaining to how the incidents identified in FSAR Table 8.2-3 would be used in the design of the new switchyard and transmission lines, the applicant clarified that a portion of the 166 unknown and 147 weather-related transmission line incidents were instantaneous circuit breaker trips where the fault was cleared and the line brought back into service instantaneously. In the remaining cases the circuit breaker cleared the fault and was locked out, requiring the Transmission Service Provider to bring the line back to service. Table 8.2-3 was revised to provide a breakdown of the incidents showing whether the breaker had re-closed instantaneously or locked out. The applicant also clarified that the historical transmission line incidents would not affect the new switchyard's design.

Despite the clarifications provided, the staff has further questions. The staff review of revised Table 8.2-3 found that of the 525 circuit breaker actuations experienced by STP, Units 1 and 2, switchyard during a period of 26 years 269 resulted in circuit breaker lockouts. Of the 269 lockouts nearly 200 were either related to unknown causes (63), or to weather (94) and insulator flash-over (36). An almost equal amount of events (175) from the same causes resulted in an instantaneous re-closure of the circuit breakers, but could have resulted in lockouts. Since these and other events included in the Table are potentially related to switchyard and line maintenance, furnish the following information:

1. State whether the events in Table 8.2-3, ever resulted in multiple line failures during the period of observation.
2. State whether multiple line failures have ever occurred when the instantaneous breaker re-closures had resulted in breaker lockouts.
3. State whether a loss of offsite power or partial loss of offsite power was ever experienced by STP, Units 1 and 2.
4. State whether any corrective actions were taken as a result of the events of Table 8.2-3 and whether there was a similar reoccurrence after completion of these corrective actions.