

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Thursday, March 01, 2012 2:42 PM
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Cc: ComanchePeakCOL Resource; Otto, Ngola; Martinez-Navedo, Tania
Subject: Comanche Peak RCOL Chapter 8 - RAI Number 249 -
Attachments: RAI 6316 (RAI 249).docx

The NRC staff has identified that additional information is needed to continue its review of the combined license application. The NRC staff's request for additional information (RAI) is contained in the attachment. Luminant is requested to inform the NRC staff if a conference call is needed.

The response to this RAI is due within 35 calendar days of **March 1, 2012**.

Note: The NRC staff requests that the RAI response include any proposed changes to the FSAR.

thanks,

Stephen Monarque
U. S. Nuclear Regulatory Commission
NRO/DNRL/NMIP
301-415-1544

Hearing Identifier: ComanchePeak_COL_Public
Email Number: 1632

Mail Envelope Properties (9C2386A0C0BC584684916F7A0482B6CA587477F13D)

Subject: Comanche Peak RCOL Chapter 8 - RAI Number 249 -
Sent Date: 3/1/2012 2:42:16 PM
Received Date: 3/1/2012 2:42:18 PM
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Post Office: HQCLSTR02.nrc.gov

Files	Size	Date & Time
MESSAGE	607	3/1/2012 2:42:18 PM
RAI 6316 (RAI 249).docx	20863	

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Request for Additional Information (RAI) No. 6316, COLA Revision 2

RAI Letter Number 249

3/1/2012

Comanche Peak Units 3 and 4
Luminant Generation Company, LLC.
Docket No. 52-034 and 52-035
SRP Section: 08.01 - Electric Power - Introduction
Application Section: 8.1

QUESTIONS for Instrumentation, Controls and Electrical Engineering 1 (AP1000/EPR Projects) (ICE1)

08.01-3

The revised Section 8.1.2.1, "Utility Power Grid Description," FSAR markup of the final safety analysis report (FSAR) discusses Comanche Peak Nuclear Power Plant (CPNPP) Units 3 and 4's compliance with 10 CFR Part 50, Appendix A, General Design Criterion (GDC) 5. Revised Section 8.1.2.1 states that the switching station equipment shared between Unit 3 and 4 has the capacity and is configured such that sharing will not significantly impair its ability to provide offsite power in response to an accident in one unit and an orderly shutdown and cooldown of the remaining unit. This section also states that adequate offsite power capacity exists to support both Units 3 and 4 during this scenario.

GDC 5 requires, in part, that structures, systems, and components (SSCs) important to safety shall not be shared among nuclear power units unless it can be shown that such sharing will not significantly impair their ability to perform their safety functions, including, in the event of an accident in one unit, an orderly shutdown and cooldown of the remaining units. During a clarification conference call on September 20, 2011, the NRC Staff and the applicant discussed the issue related to the capacity of offsite power to support the auxiliary loads of one unit connected to the switching station during an accident while providing for an orderly shutdown and cool down of the remaining unit. In a supplementary response to RAI 2576, Question 08.01-2, Open Item 08.01-1, submitted on October 17, 2011, the applicant provided some clarification of the issue discussed during the September 20, 2011 conference call. The staff verified the offsite power capacity by reviewing the study discussed in FSAR Subsection 8.2.2.2. The study addressed a number of contingencies including the simultaneous trip of CPNPP Units 3 and 4. The case studies show that the transmission system remains stable with slight

voltage and frequency variation. The response to RAI 2576, Question 08.01-2 addresses the capacity question of the offsite power to support the auxiliary loads of one unit connected to the switching station during an accident while providing for an orderly shutdown and cool down of the remaining unit. However, it does not answer the question about the sharing of SSCs.

The staff requests the following additional information:

(1) Explain how the sharing of switching station equipment will not significantly impair the ability of that equipment to provide offsite power in response to an accident in one unit and an orderly shutdown and cooldown of the remaining unit, and

(2) Demonstrate that adequate offsite power capacity exists to support both Units 3 and 4 during this scenario.

(3) The FSAR markup provided in the October 17, 2011 response to RAI 2576, Question 08.01-2 only mentions the switching station equipment as the shared equipment, excluding any other shared equipment in the switchyard such as the breakers. Confirm whether the switching station equipment is the only shared equipment among units.

(4) If there is no other equipment shared by Units 3 and 4 under any operating scenario (normal or emergency conditions) reflect this fact in the FSAR markup for clarification.