

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Monday, October 25, 2010 5:00 PM
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Cc: ComanchePeakCOL Resource; Kallan, Paul
Subject: Comanche Peak RCOL Chapter 3, Section 3.7.2 - RAI Number 184
Attachments: RAI 5121 (RAI 184).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 October 25, 2010.

Note: If changes are needed to the safety analysis report, the NRC staff requests that the RAI response include the proposed changes.

thanks,

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

Hearing Identifier: ComanchePeak_COL_Public
Email Number: 1138

Mail Envelope Properties (9C2386A0C0BC584684916F7A0482B6CA1A8A15CD99)

Subject: Comanche Peak RCOL Chapter 3, Section 3.7.2 - RAI Number 184
Sent Date: 10/25/2010 5:00:10 PM
Received Date: 10/25/2010 5:00:11 PM
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Files	Size	Date & Time
MESSAGE	646	10/25/2010 5:00:11 PM
RAI 5121 (RAI 184).docx	21121	

Options

Priority: Standard

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Request for Additional Information (RAI) No. 5121, COLA Revision 1

RAI Number 184

10/25/2010

Comanche Peak Units 3 and 4
Luminant Generation Company, LLC.
Docket No. 52-034 and 52-035
SRP Section: 03.07.02 - Seismic System Analysis
Application Section: FSAR 3.7.2

QUESTIONS for Structural Engineering Branch 1 (AP1000/EPR Projects) (SEB1)

03.07.02-18

This request for additional information (RAI) is necessary for the staff to determine if the application meets the requirements of 10 CFR Part 50, Appendix A, General Design Criteria 2; 10 CFR Part 50 Appendix S; and 10 CFR Part 100; as well as the guidance in NUREG-0800, 'Standard Review Plan (SRP) for the Review of Safety Analysis for Nuclear Power Plants,' Chapter 3.7.2, 'Seismic Design Parameters.'

According to Comanche Peak COL Part 2 FSAR Appendices 3LL, 3MM, and 3NN, the soil structure interaction (SSI) analyses reported were performed using computer program ACS SASSI Version 2.2. Version 2.2.1 of ACS SASSI is subject to a 10 CFR Part 21.21 report regarding numerical instabilities that may occur with high numbers of soil layers even though the properties and number of layers are within the parameters stated in the User's Manual. In order for the staff to complete the evaluation of the SSI analysis, the applicant is requested to provide additional information demonstrating that the SSI results are valid and meet the guidelines of SRP 3.7.2.II.4