

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Tuesday, March 15, 2011 8:45 AM
To: John.Only@luminant.com; Donald.Woodlan@luminant.com; cp34-rai-luminant@mnes-us.com; Diane Yeager; Eric.Evans@luminant.com; joseph tapia; Kazuya Hayashi; Matthew.Weeks@luminant.com; MNES RAI mailbox; Russ Bywater
Cc: ComanchePeakCOL Resource; Galvin, Dennis
Subject: Comanche Peak RCOL Chapter 3 - Section 3.7.1 - RAI Number 209
Attachments: RAI 5609 (RAI 209).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 15, 2011.

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
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From: Monarque, Stephen

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Request for Additional Information (RAI) No. 5609, COLA Revision 1

RAI Letter Number 209

3/15/2011

Comanche Peak Units 3 and 4
Luminant Generation Company, LLC.
Docket No. 52-034 and 52-035
SRP Section: 03.07.01 - Seismic Design Parameters
Application Section: FSAR 3.7.1

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

03.07.01-8

RAI 3.7.1-8

This RAI is necessary for the staff to determine if the application meets applicable requirements set forth in GDC 2 in Appendix A to 10 CFR Part 50, Appendix S to 10 CFR Part 50, and 10 CFR 100.23.

Information that was included in COLA FSAR 3.7.1.1 to address CP COL 3.7(30) states the following: "For the site-specific design of the ultimate heat sink related structures (UHSRS), essential service water pipe tunnel (ESWPT), and power source fuel storage vault (PSFSVs), one set of three statistically independent time histories of seismic motion is synthesized artificially for use as the input outcrop motion in the earthquake response analyses." Section II.B of NUREG-0800, Standard Review Plan (SRP) 3.7.1 Acceptance Criteria says that artificial time histories that are not based on seed recorded time histories should not be used. Also, after DCD RAI 3.7.1-3, MHI modified their approach to use seed time histories in their generation of the input motion (as reflected in MUAP-10001).

The staff requests the applicant confirm that the artificial time histories are generated based on seed recorded time histories. If the artificial ground motion time histories are not generated based on seed recorded time histories, the applicant should demonstrate that this approach does not lead to unrealistic seismic input that could affect the safety of CPNPP. If seed motions were used, describe the seed motions used and the basis for choosing the seed motions.