

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Friday, June 03, 2011 3:08 PM
To: John.Only@luminant.com; Donald.Woodlan@luminant.com; cp34-rai-luminant@mnes-us.com; 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 3.07.02 - RAI Number 221
Attachments: RAI 5798 (RAI 221).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 June 3, 2011.

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

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Request for Additional Information (RAI) No. 5798, COLA Revision 1

RAI Letter Number 221

6/3/2011

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)

03.07.02-21

The Defense Nuclear Facilities Safety Board (DNFSB) issued a letter on April 8, 2011 requesting the Department of Energy (DOE) to address technical and software quality assurance issues related to potentially erroneous seismic analyses performed using the SASSI Subtraction method. The April 8, 2011 letter may be found on the DOE Departmental Representative to the DNFSB website:
<http://www.hss.energy.gov/deprep/>.

Chapter 3, Appendix 3NN of the Comanche Peak COL FSAR states that the US-APWR standard plant employs this subtraction method. Very limited information was provided about what method was used for other seismic category I structures at Comanche Peak, Units 3 & 4. To ensure the applicant has adequately met General Design Criteria (GDC) 1 and 2 and Appendix B to Part 50, the staff requests Luminant to provide to following information:

1. Confirm whether the SASSI Subtraction method is used in the analyses of seismic category I standard and site-specific structures.
2. Provide how Luminant addressed the technical and software quality assurance issues raised by DNFSB letter in the version of SASSI which Luminant uses for analyses of all seismic category I structures part of the Comanche Peak Units 3 and 4.
3. If the SASSI Subtraction method is used by Luminant, provide an assessment to establish: a) the seismic analyses performed in support of the Comanche Peak RCOL application does not contain any errors or anomalies as identified in DNFSB letter, b) the quality assurance steps taken to ensure that any future seismic analyses in support of the Comanche Peak application will be free from errors or anomalies as identified in DNFSB letter.

03.07.02-22

On May 12, 2011, Mitsubishi Heavy Industries, Ltd. (MHI), submitted a revised completion plan for US-APWR Seismic and Structural Analyses (ML11136A235). This plan identifies that significant changes are being made to the seismic design methodology as described in the US-APWR DCD, Section 3.7, and associated technical reports. The plan also identifies the documentation MHI plans to submit or make

available for audit to address US-APWR standard plant seismic design issues. The NRC staff requests the applicant provide an assessment of all changes made (or to be made) to the Comanche Peak COL seismic design given MHI's planned changes to the US-APWR standard plant seismic design methodology.

Provide a technical methodology and approach for reconciliation of the Comanche Peak standard plant model with the updated USAPWR soil-structure interaction (SSI) model and overall seismic design approach. Also, explain changes or variances (if any) to the site-specific structures given the changes in the seismic design methodology, as some of the principles were applied to the non-standard plant structures.