

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Friday, October 14, 2011 9:40 AM
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; Roy, Tarun
Subject: Comanche Peak RCOL Chapter 2, Section 2.5.4 - RAI Number 233
Attachments: RAI 6115 (RAI 233).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 14, 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

Hearing Identifier: ComanchePeak_COL_Public
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From: Monarque, Stephen

Created By: Stephen.Monarque@nrc.gov

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Request for Additional Information (RAI) No. 6115, COLA Revision 2

RAI Letter number 233

10/14/2011

Comanche Peak Units 3 and 4
Luminant Generation Company, LLC.
Docket No. 52-034 and 52-035

SRP Section: 02.05.04 - Stability of Subsurface Materials and Foundations
Application Section: 2.5.4

QUESTIONS for Geosciences and Geotechnical Engineering Branch 1 (RGS1)

02.05.04-26

NUREG-0800, Standard Review Plan (SRP), Chapter 2.5.4, "Stability of Subsurface Materials and Foundations," establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

In your response to NRC Hydrology Open Item 2.4.12-3, dated August 29, 2011, you modified the site grading and drainage plan which led to changes in the post-construction groundwater elevation surrounding the subgrade safety-related structures. The re-evaluated maximum groundwater elevation changed at the site from approximately elevation of 760 ft. to 813.5 ft. In order for the staff to complete its review to ensure the stability of safety-related foundations, please provide the following additional information:

1. Engineered backfill permeability assessment.
2. Groundwater effects on the static and dynamic lateral earth pressures acting on below-grade structures and walls.
3. Stability of permanent slopes located near the Ultimate Heat Sink considering any possible contact of shale interbeds with groundwater.
4. Reassessment of the information provided in response to RAI Letter Number 22 (2929) question 02.05.04-11 regarding chemical attack, erosion and leaching given the fact that foundation concrete and fill concrete might be exposed to groundwater. Also, please provide chemical tests and analysis for groundwater specifically for sulfate and chloride concentrations, and pH values.