

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Friday, September 10, 2010 12:49 PM
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; Ng, Ronnie
Subject: Comanche Peak RCOL Chapter 2, Section 2.5.1 - RAI Number 179
Attachments: RAI 5052 (RAI 179).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 September 10, 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
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Request for Additional Information (RAI) No. 5052, COLA Revision 1

RAI Number 179

9/10/2010

Comanche Peak Units 3 and 4
Luminant Generation Company, LLC.
Docket No. 52-034 and 52-035
SRP Section: 02.05.01 - Basic Geologic and Seismic Information
Application Section: 2.5.1

QUESTIONS for Geosciences and Geotechnical Engineering Branch 1 (RGS1)

02.05.01-21

NUREG-0800, Standard Review Plan (SRP), Chapter 2.5.1, 'Basic Geologic and Seismic Information, establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

In your response to RAI No. 21 (3015) question 2.5.1-17, dated September 10, 2009, requesting a detailed description of field reconnaissance investigations of Quaternary-age deposits, you stated the following:

Generally, all publicly accessible locations in and around the site area were visited in order to verify the accuracy of the site area map, to search for signs of deformation in bedrock and surficial outcrops, and to search for paleoliquefaction features.

The response states that "significant aerial extents" of Quaternary alluvium exist in the site area and that these locations were inspected during the field reconnaissance for evidence of liquefaction or deformation. The response also states that little information was gathered on these deposits during the field reconnaissance investigations because they are flat, highly vegetated and not observable in outcrop.

The staff reviewed the WLA "Field Reconnaissance Report" that you provided to the NRC (ADAMS Number ML092290416) but found no specific mention of localities targeted to investigate paleoliquefaction features in Quaternary alluvial deposits. The staff also reviewed the GPS track log of areas covered during the field investigations, but found it difficult to identify locations specifically targeted to investigate liquefaction features because those locations were not identified in the field logs.

Please provide more detailed documentation of the locations investigated to specifically search for paleoliquefaction features or deformation in Quaternary alluvial deposits. Did you specifically search for locations, where outcrops of these deposits might exist? In addition, please explain if any follow up investigations were conducted to further investigate the presence or absence of such features.

(a) Did you re-investigate aerial photographs for signs of sand blows or fissures, separate from the lineament analysis? If not, why? (b) Did you re-investigate Quaternary alluvial surfaces when water levels and vegetative growth were at a minimum? If not, why?

Reference: Luminant responses to RAI 3015 02.05.01-17, dated September 10, 2009
(ADAMS Number ML092820486)