

## PMComanchePeakPEm Resource

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**From:** Monarque, Stephen  
**Sent:** Friday, June 03, 2011 4:22 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 3.07.01 - RAI Number 222  
**Attachments:** RAI 5789 (RAI 222).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

**Hearing Identifier:** ComanchePeak\_COL\_Public  
**Email Number:** 1389

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**Received Date:** 6/3/2011 4:21:51 PM  
**From:** Monarque, Stephen

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**Post Office:** HQCLSTR02.nrc.gov

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**Options**

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**Recipients Received:**

Request for Additional Information No. (RAI) 5789, COLA Revision 1

RAI Letter Number 222

6/3/2011

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)

03.07.01-9

This is a follow-up to RAI 3.7.1-8 (RAI 5609, RAI Letter Number 209).

The staff reviewed the information the applicant provided in response to RAI 3.7.1-8, which included a record from the Los Angeles (LA) University Hospital made during the 1994 Northridge, CA earthquake. The applicant explained that the magnitude of the earthquake (M6.7) is representative of the magnitudes of earthquakes dominating the high-frequency ground motion for the Comanche Peak site. However, the applicant did not describe or explain how the distance of the earthquake to the LA University Hospital compares to the distance of the Probabilistic Safety Hazard Analysis (PSHA) controlling earthquake to the Comanche Peak Site. Additional information that demonstrates the appropriateness of the selected time histories for the Comanche Peak site and how these represent the site-specific seismic response are needed in order for the staff to complete its safety review. Please provide the following information:

- 1- The distance from the LA University Hospital to the 1994 Northridge Earthquake and how this distance compares to the distance between the Comanche Peak site and the controlling earthquakes defined in FSAR 2.5.2.
- 2- If the distance between the LA University Hospital and the 1994 Northridge earthquake does not compare to the distance between the Comanche Peak site and the FSAR 2.5.2 controlling earthquakes, provide the technical basis for the selection of the LA University time history.
- 3- Explain how the use of a different time history (different magnitude and/or distance from the PSHA controlling earthquakes) could affect the soil structure interaction (SSI) results and overall design of the seismic category I structures of Comanche Peak Units 3 and 4.