

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Tuesday, March 30, 2010 5:50 PM
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Cc: ComanchePeakCOL Resource; Magee, Michael
Subject: ComanchePeak COL geology Audit Agenda for April 7-8, 2010 in VA
Attachments: geology 2nd audit.docx

I am sending the audit agenda for next week's geology audit. No new information requests were added.

Thank you,

Stephen Monarque
U. S. Nuclear Regulatory Commission
NRO/DNRL/NMIP
301-415-1544

Hearing Identifier: ComanchePeak_COL_Public
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**Comanche Peak Nuclear Power Plant, Units 3 and 4
Combined License Application, Part 2, FSAR
Geology Audit Plan for
April 7 and 8, 2010
Arlington, Virginia**

Background

The NRC staff has reviewed Luminant's responses to the staff's request for additional information (RAI) Number 11 (1889) as well as Luminant's sensitivity analyses submitted on March 3, 2010. Subsequently, the NRC staff has determined that it needs to confirm the analyses presented in the information below. This audit is part of the NRC staff's ongoing review of the Comanche Peak Nuclear Power Plant (CPNPP) Combined License (COL) application, Part 2, Chapter 2, Final Safety Analysis Report (FSAR) Section 2.5.2, "Vibratory Ground Motion."

Regulatory Audit Bases

The principal regulation used by the staff in determining the scope and adequacy of the submitted seismologic and geologic information and attendant procedures and analyses is 10 CFR 100.23. Standard Review Plan, NUREG-0800, has been prepared to establish criteria that the NRC staff intends to use in evaluating whether an applicant/licensee meets the NRC's regulations. The guidance described in NUREG-0800, Standard Review Plan Section 2.5.2, "Vibratory Ground Motion," establishes the criteria the staff intends to use to evaluate Section 2.5.2 of the CPNPP FSAR.

Information and Other Material Necessary for Regulatory Audit

The NRC staff would like to audit all Calculation Reports supporting the material presented in the CPNPP Part 2, COL FSAR Subsection 2.5.2. The staff also requests the following documentation, charts, and maps be available to during the audit:

- Details of the New Madrid Seismic Zone (NMSZ) hazard calculations. Hazard curves of individual fault branches of the NMSZ with Cumulative Absolute Velocity (CAV) and without CAV filtering.
- Technical documents used to reach the conclusion that the Alpine earthquake is related to the Rio Grande Rift system. Copies of scientific papers analyzed, records of conversations with the experts and any other data and reports used in making the final judgment.
- Complete and accurate list of all Electric Power Research Institute (EPRI) seismic sources used in the 1989 EPRI study relating to CPNPP Units 1 and 2,

as well as a list of seismic sources used in the CPNPP Units 3 and 4 hazard study.

- Complete seismicity catalog including the original EPRI, CPNPP FSAR updates, and updates conducted in response to the NRC staff's RAI.
- Complete Senior Seismic Hazard Analysis Committee (SSHAC) Level 2 documentation for the Meers fault model development efforts.
- Original sonic log data (waterfall plots) from drill holes B-1000 and B-2000.
- Copies of all 15 individual sonic log records along with a map of their locations. (If possible large-scale plots, similar to the ones that the staff reviewed during the first site audit).
- Complete list of drill hole data used in estimating the deep sediment structure surrounding the CPNPP site. Copies of data sets used to develop the sediment thickness maps from these drill holes.
- Quality Assurance documentation for the hazard software (FRISK88) and the site response software.
- Plots of individual seismic sources' hazard curves for all sources used with and without CAV filters.
- Documentation on the sensitivity study results mentioned in FSAR Subsection 2.5.2.4.4 on page 2.5-112 (1st paragraph) regarding the hazard contributing sources.
- Documentation showing that 10e-4 hazard curves still produce null values after the series of source model updates conducted in response to NRC RAIs.

Team Assignments

The audit will be conducted by the NRC staff. The following people will participate at the audit.

Dogan Seber, NRC, Audit Lead

Laurel Bauer, NRC

Jon Ake, NRC

Michael Magee, NRC

Stephen Monarque, NRC

Logistics

This audit will take place from April 7-8, 2010 at the Mitsubishi Nuclear Energy Services' Office in Arlington, Virginia. The NRC staff will conduct an entrance meeting at 8:00 a.m. on April 7, 2010. The audit for the second day will also start at 8 a.m. and will conclude with an exit briefing in the afternoon of April 8, 2010.

Special Requests

The NRC staff plans to spend the first day reading all the documentation requested above. The staff plans to ask questions about that documentation on the second day. The NRC staff requests that Luminant have personnel available, either in person or in teleconference, to answer questions on the second day.

Deliverables

None

References

None