

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Thursday, May 12, 2011 11:38 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 2.5.1 - RAI Number 219
Attachments: RAI 5686 (RAI 219).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 May 12, 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: 1353

Mail Envelope Properties (9C2386A0C0BC584684916F7A0482B6CA1FBE200216)

Subject: Comanche Peak RCOL Chapter 2.5.1 - RAI Number 219
Sent Date: 5/12/2011 11:38:29 AM
Received Date: 5/12/2011 11:38:30 AM
From: Monarque, Stephen

Created By: Stephen.Monarque@nrc.gov

Recipients:

"ComanchePeakCOL Resource" <ComanchePeakCOL.Resource@nrc.gov>

Tracking Status: None

"Roy, Tarun" <Tarun.Roy@nrc.gov>

Tracking Status: None

"John.Only@luminant.com" <John.Only@luminant.com>

Tracking Status: None

"Donald.Woodlan@luminant.com" <Donald.Woodlan@luminant.com>

Tracking Status: None

"cp34-rai-luminant@mnes-us.com" <cp34-rai-luminant@mnes-us.com>

Tracking Status: None

"Eric.Evans@luminant.com" <Eric.Evans@luminant.com>

Tracking Status: None

"joseph tapia" <joseph_tapia@mnes-us.com>

Tracking Status: None

"Kazuya Hayashi" <kazuya_hayashi@mnes-us.com>

Tracking Status: None

"Matthew.Weeks@luminant.com" <Matthew.Weeks@luminant.com>

Tracking Status: None

"MNES RAI mailbox" <cp34-rai@mnes-us.com>

Tracking Status: None

"Russ Bywater" <russell_bywater@mnes-us.com>

Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

Files	Size	Date & Time
MESSAGE	602	5/12/2011 11:38:30 AM
RAI 5686 (RAI 219).docx		21964

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:

Request for Additional Information (RAI) No. 5686, COLA Revision 1

RAI Letter Number 219

5/12/2011

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)

02.05.01-22

10 CFR 100.23(c) states that “geological, seismological, and engineering characteristics of a site ... must be investigated in sufficient scope and detail to permit an adequate evaluation of the proposed site ...”. The requirements for data on tectonic surface deformation, non-tectonic deformation, and fault geometry and slip rates are specifically stated, and the applicant is required to investigate “all geologic and seismic factors that may affect the design and operation of the proposed nuclear power plant irrespective of whether such factors are explicitly included in this section.” 10 CFR 100.23(d) also states that “geologic and seismic siting factors considered for design must include ... the potential for surface tectonic and non-tectonic deformations”. 10 CFR 100.23(d)(2) specifically addresses determination of the potential for surface tectonic and nontectonic deformations. 10 CFR 100.23(d)(2) also states that “sufficient geological, seismological, and geophysical data must be provided to clearly establish whether there is a potential for surface deformation.”

Regulatory Guide 1.132, ‘Site Investigations for Foundations of Nuclear Power Plants,’ Revision 2, October 2003 (pgs 16-16, Rev 2, October 2003) provides specific guidance under “Construction Mapping” in Section 6. This section notes that excavations for safety-related` structures, and “other excavations” important for verification of subsurface conditions, “should be geologically mapped and logged in detail”.

Pursuant to CFR 52.79(d)(3), Luminant is requested to implement the following license condition in COLA, Part 10. The staff has determined that this license condition for geologic mapping of safety-related excavations serves to confirm that the actual subsurface conditions are the same conditions as what is described in the FSAR and that the staff’s safety findings, which are based on conditions described in the FSAR, remain valid. This information is necessary to confirm that the design will be adequate and account for any subsurface conditions that the licensee may find when excavating the hole for the foundation. This includes the possibility of the licensee taking action to improve the site in order to make the design acceptable as analyzed, depending on conditions discovered during excavation, and addresses the possibility that some undiscovered subsurface feature could render the site unacceptable.

License Condition 2.5.1-1: The licensee shall perform detailed geologic mapping of the excavations for the Comanche Peak Nuclear Power Plant, Units 3 and 4 nuclear island structures; examine and evaluate geologic features discovered in the excavations for

safety-related structures other than those for the Units 3 and 4 nuclear islands; and notify the Director of the Office of New Reactors, or the Director's designee, once excavations for the Comanche Peak Nuclear Power Plant, Units 3 and 4 safety-related structures are open for examination by the NRC staff.