

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Thursday, October 01, 2009 8:44 PM
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Cc: Magee, Michael; ComanchePeakCOL Resource
Subject: Comanche Peak RCOLA - Section 2.4 RAI # 105
Attachments: RAI 3665 (RAI 105).doc

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 36 calendar days of October 1, 2009

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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Subject: Comanche Peak RCOLA - Section 2.4 RAI # 105
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From: Monarque, Stephen

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RAI 3665 (RAI 105).doc		32250

Options

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Request for Additional Information (RAI) No. 3665

RAI # 105

10/1/2009

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

SRP Section: 02.04.03 - Probable Maximum Flood (PMF) on Streams and Rivers
Application Section: 2.4.3

QUESTIONS for Hydrologic Engineering Branch (RHEB)

02.04.03-1

NUREG-0800, Standard Review Plan (SRP), Chapter 2.4.3, 'Probable Maximum Flood (PMF) on Streams and Rivers,' establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

Provide a description of the process used to determine that the probable maximum flood (PMF) analysis for streams and rivers is the most conservative of all plausible conceptual models. This description needs to consider the parameter selections and assumptions made in watershed probable maximum precipitation (PMP) estimation, watershed runoff modeling, channel routing and runoff accumulation modeling, and local site drainage and runoff modeling.

02.04.03-2

NUREG-0800, Standard Review Plan (SRP), Chapter 2.4.3, 'Probable Maximum Flood (PMF) on Streams and Rivers,' establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

Provide a rationale for assumptions made in the modeling of watersheds for computation of the PMF on rivers and streams affecting the site. Provide electronic versions of input files and documentation of all computer models used in the estimation of the PMF.

02.04.03-3

NUREG-0800, Standard Review Plan (SRP), Chapter 2.4.3, 'Probable Maximum Flood (PMF) on Streams and Rivers,' establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

Provide a rationale for assumptions made in the modeling of instream flooding and drainage for computation of the PMF on rivers and streams affecting the site. Provide documentation and electronic versions of input files for all computer models used to compute the river and stream flooding.

02.04.03-4

NUREG-0800, Standard Review Plan (SRP), Chapter 2.4.3, 'Probable Maximum Flood (PMF) on Streams and Rivers,' establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

Provide a clarifying discussion of the physical effects included in the computed wave heights, wave setup, and wave runup heights reported in combined license application FSAR Section 2.4.3.6. Explain how these computed heights and the assumptions made in the computations are consistent with heights reported and assumptions made in FSAR Section 2.4.5 for wind generated waves.