

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Thursday, October 01, 2009 8:25 PM
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Cc: Magee, Michael; ComanchePeakCOL Resource
Subject: Comanche Peak RCOLA - Section 2.4 RAI # 104
Attachments: RAI 3669 (RAI 104).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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From: Monarque, Stephen

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Request for Additional Information (RAI) No. 3669

RAI # 104

10/1/2009

Comanche Peak Units 3 and 4
Luminant Generation Company, LLC.
Docket No. 52-034 and 52-035
SRP Section: 02.04.07 - Ice Effects
Application Section: 2.4.7

QUESTIONS for Hydrologic Engineering Branch (RHEB)

02.04.07-1

NUREG-0800, Standard Review Plan (SRP), Chapter 2.4.7, 'Ice Effects,' establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

Provide a discussion of the processes used to determine that the analyses of ice-effects on flood elevations, ice-induced forces, and ice-related impairment of the ultimate heat sink equipment are conservatively bounding.

02.04.07-2

NUREG-0800, Standard Review Plan (SRP), Chapter 2.4.7, 'Ice Effects,' establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

In order to maintain consistency in referencing water surface elevations for probable maximum flood (PMF) events, reconcile the PMF elevation of 788.9 feet referenced in FSAR Section 2.4.3.6 with the PMF elevation of 809.28 feet referenced in FSAR Section 2.4.7. Provide discussion of the physical effects and assumptions from which these different values result and why the use of one or the other is appropriate.

02.04.07-3

NUREG-0800, Standard Review Plan (SRP), Chapter 2.4.7, 'Ice Effects,' establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

Provide a discussion of the effects of the accumulated freezing days in January and December and ice-induced reduction for the capacity of water storage in the safety-related essential (sometimes called "emergency") service water system (ESWS) for both of the proposed four wet mechanical draft cooling towers per unit. Provide hydro meteorological data and documentation to justify the assumptions used to derive the conclusions about ice-related risk of impairment.