

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Monday, February 14, 2011 10:42 AM
To: John.Only@luminant.com; Donald.Woodlan@luminant.com; cp34-rai-luminant@mnes-us.com; Diane Yeager; 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 Section 2.3.1 - RAI Number 204
Attachments: RAI 5465 (RAI 204).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 February 14, 2011.

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

Created By: Stephen.Monarque@nrc.gov

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Options

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Request for Additional Information (RAI) No. 5465, COLA Revision 1

RAI Letter Number 204

2/14/2011

Comanche Peak Units 3 and 4
Luminant Generation Company, LLC.
Docket No. 52-034 and 52-035
SRP Section: 02.03.01 - Regional Climatology
Application Section: Regional Climatology

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.03.01-12

10 CFR 52.79(a)(1)(iii) states that the COL FSAR shall include “the seismic, meteorological, hydrologic, and geologic characteristics of the proposed site with appropriate consideration of the most severe of the natural phenomena that have been historically reported for the site and surrounding area and with sufficient margin for the limited accuracy, quantity, and time in which the historical data have been accumulated.” The US-APWR DCD states that the 0% exceedance ambient design temperature site parameters are based on the EPRI Advanced Light Water Reactor Utility Requirements Document and conservative estimates of historical high and low values for potential US-APWR sites. The staff considers temperatures based on a 100-year return period to provide sufficient margin for the limited accuracy, quantity, and period of time in which the historical data have been accumulated as required by the regulation. This is why SRP 2.3.1 states that 100-year return period ambient temperature and humidity statistics should be identified as site characteristics. Thus, the staff believes the higher of either the maximum recorded dry-bulb value or the maximum 100-year dry-bulb value should be listed as the Comanche Peak Nuclear Power Plant (CPNPP) site characteristic value to be compared to the US-APWR 0% exceedance maximum dry-bulb site parameter value. Similarly, a comparison should be provided between the 100-year non-coincident wet-bulb value and the US-APWR DCD 0% exceedance maximum non-coincident wet-bulb value.

In response to RAI 02.03.01-11, CPNPP COL FSAR Table 2.0-1R was updated to include comparisons between the site characteristic 100-year return period temperatures for the maximum dry bulb temperature with coincident wet bulb temperature as well as the minimum dry bulb temperature. These values, as presented, are acceptable to the staff. However, the updated table did not include a comparison between the site parameter 0% exceedance non-coincident wet bulb temperature and the 100-year return period non-coincident wet bulb temperature.

Please update CPNPP COL FSAR Table 2.0-1R to include a comparison between the 100-year return period non-coincident wet bulb temperature site characteristic value and the US-APWR DCD 0% exceedance maximum non-coincident wet bulb temperature value or provide a statement as to why this information should be omitted.