

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Monday, December 20, 2010 9:42 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 195
Attachments: RAI 5287 (RAI 195).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 December 20, 2010.

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
Email Number: 1204

Mail Envelope Properties (9C2386A0C0BC584684916F7A0482B6CA1C602D46DE)

Subject: Comanche Peak RCOL Chapter 2 Section 2.3.1 - RAI Number 195
Sent Date: 12/20/2010 9:42:17 AM
Received Date: 12/20/2010 9:42:20 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

"Diane Yeager" <diane_yeager@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	647	12/20/2010 9:42:20 AM
RAI 5287 (RAI 195).docx	22056	

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:

Request for Additional Information (RAI) No. 5287, COLA Revision 1

RAI Number 195

12/20/2010

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)

02.03.01-11

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 percent 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 NUREG-0800 Standard Review Plan 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 CPNPP site characteristic value to be compared to the US-APWR 0 percent exceedance maximum dry-bulb site parameter value. Similarly, the lower of either the minimum recorded dry-bulb value or the minimum 100-year dry-bulb value should be listed as the CPNPP site characteristic value to be compared to the US-APWR 0 percent exceedance minimum dry-bulb site parameter value.

In a supplemental response to RAI 4606 (Letter No 155) question 2.3.1-6, CPNPP COL FSAR Table 2.0-1R was revised to show the CPNPP 100-year return period temperatures in a separate line. According to the RAI response, this was done to avoid confusion between the CPNPP 100-year return period temperature and the CPNPP maximum recorded temperature. The staff has determined that the CPNPP 100-year return period and maximum (and minimum) recorded temperatures should be compared directly against the US-APWR 0 percent exceedance temperatures presented in FSAR Table 2.0-1R in order to comply with the staff's interpretation of 10 CFR52.79(a)(1)(iii).