

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Saturday, September 05, 2009 1:58 PM
To: Donald.Woodlan@luminant.com; John.Only@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: Kallan, Paul; ComanchePeakCOL Resource
Subject: Comanche Peak RCOL Section 2.3.3 - RAI # 46
Attachments: RAI 3557 (RAI 46).doc

The NRC staff has identified that additional information is needed to continue its review of the combined license application. The staff's request for additional information (RAI) is contained in the attachment.

The response to this RAI is due within 44 calendar days of September 5, 2009.

Note: If changes are needed to the safety analysis report, the NRC staff requests that the RAI response include the proposed wording change

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

Recipients:

"Kallan, Paul" <Paul.Kallan@nrc.gov>
Tracking Status: None
"ComanchePeakCOL Resource" <ComanchePeakCOL.Resource@nrc.gov>
Tracking Status: None
"Donald.Woodlan@luminant.com" <Donald.Woodlan@luminant.com>
Tracking Status: None
"John.Only@luminant.com" <John.Only@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

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Request for Additional Information (RAI) No. 3557

RAI # 46

9/5/2009

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

SRP Section: 02.03.03 - Onsite Meteorological Measurements Programs
Application Section: Onsite Meteorological Measurements Programs

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.03.03-2

NUREG-0800, 'Standard Review Plan,' Section 2.3.3, Section II (Acceptance Criteria), Standard Review Plan (SRP) Acceptance Criterion (2) and Regulatory Guide (RG) 1.206, 'Combined License Applications for Nuclear Power Plants (LWR Edition),' Section C.I.2.3.3 (Para. 2 & 3) discusses the submittal of an hour-by-hour listing of the hourly averaged parameters in the format described in RG 1.23, "Meteorological Monitoring Programs for Nuclear Power Plants."

Luminant provided the NRC staff five years of hourly data for 2001 through 2004 and 2006 for Comanche Peak Nuclear Power Plant (CPNPP) on May 8, 2009. Refer to Response to NRC staff's RAI # 3 (2584), dated May 8, 2009. A preliminary review appears to indicate the data provided has not undergone a complete quality assurance review, as stated in the RAI response. During an analysis of temperature data, numbers of hours with erroneous negative temperatures were noted in the data sets provided. For example, hours 0900 through 1200 on day 269 of 2002, all report a temperature of -28.7 degrees C. Another example is the 60-meter wind direction remaining nearly constant from the north for an approximately 1850-hour period from November 5, 2003 to January 20, 2004.

- a. Describe and justify any deviations from the meteorological monitoring criteria presented in SRP 2.3.3 and RG 1.23, in collecting and compiling the onsite meteorological data presented in support of this COL application.
- b. Describe the manner in which suspect data were removed from the short-term and long-term atmospheric dispersion calculations presented in FSAR Sections 2.3.4 and 2.3.5. If suspect data were not removed, explain how this anomalous data may have affected the calculations.
- c. Provide, in Regulatory Guide 1.23, Rev 1 format, an electronic copy of the meteorological dataset that reflects the screening criteria listed in the response to RAI 2584.

02.03.03-3

NUREG-0800 Section 2.3.3, Section III (Review Procedures), indicates that atmospheric moisture should be collected for sites using cooling towers. Since the proposed Comanche Peak Nuclear Power Plants, Units 3 and 4 will use mechanical cooling towers, the NRC staff is requesting any pre-operational monitoring data for atmospheric moisture measurements conducted in relationship to the new units (Units 3 and 4). This information should include data related to the discussions in FSAR Chapter 2.3.

Provide in FSAR Section 2.3.3, a description of the instruments used for the moisture measurements. Include in the description, the height and location of the instruments as well as any other pertinent information regarding their siting.

02.03.03-4

The criteria in NUREG-0800 Section 2.3.3, Section III, 1.a.2 specifies that instrument exposure be evaluated in relationship to the "likely finished plant grade". Please provide the likely finished grade elevation of Comanche Peak Nuclear Power Plant, Units 3 and 4 and compare this likely finished plant grade to the meteorological tower grade.

02.03.03-5

Regulatory Guide 1.23, Meteorological Monitoring Programs for Nuclear Power Plants," (March 2007) Table 2, specifies the Meteorological System Accuracies and Resolutions for an onsite meteorological monitoring program. Please include in FSAR Section 2.3.3 the resolution of each of the instruments used to record ambient temperature, vertical temperature difference, wind speed, wind direction, and precipitation.

02.03.03-6

In accordance with Regulatory Guide 1.23, "Meteorological Monitoring Programs for Nuclear Power Plants," (March 2007), please clarify how often Luminant inspects the guyed wires, as part of the guyed tower, and tower anchors.

02.03.03-7

In accordance with NUREG-0800 Section 2.3.3, Section III (Review Procedures), 1.d and Regulatory Guide 1.23, Section C.5, please provide additional details that describe how Luminant performs system calibrations, to ensure the entire channel, from sensors to displays, are checked. Also, provide information on daily channel checks. Please update FSAR Section 2.3.3 to reflect this information.

02.03.03-8

For the delta-temperature, Regulatory Guide 1.23, "Meteorological Monitoring Programs for Nuclear Power Plants," (March 2007), Table 2, specifies a system accuracy of plus or minus 0.18 degrees F, while FSAR Table 2.3-332 indicates a system accuracy of plus or minus 0.19 degrees F for the Paperless Digital delta-temperature measurement. Please clarify the reasons for this apparent difference.

02.03.03-9

For clarification in FSAR Section 2.3.3.5.1, please specify whether the digital paperless recorder and the Yokogawa recorder are different or the same? If these recorders are different, then where is the Yokogawa recorder located? Further, how will the Comanche Peak Nuclear Power Plants, Unit 3 and Unit 4 plant computers interface with the meteorological data ,and where will they display the meteorological data?