

PMComanchePeakPEm Resource

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Sent: Wednesday, September 09, 2009 4:59 PM
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Cc: Kallan, Paul; ComanchePeakCOL Resource
Subject: Comanche Peak RCOLA Section 2.3.1 - RAI # 51
Attachments: RAI 3555 (RAI 51).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.

The response to this RAI is due within 42 calendar days of September 9, 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

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Request for Additional Information (RAI) No. 3555

RAI # 51

9/9/2009

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)

02.03.01-1

NUREG-0800, Standard Review Plan, Chapter 2.3.1, "Regional Climatology," establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

Luminant is requested to update combined license (COL) application, FSAR Section 2.3.1.2 to describe the data sources and support calculations for the ambient design air temperature statistics (i.e., 0 percent and 1 percent exceedance values) presented as Comanche Peak Nuclear Power Plant, Units 3 and 4 site characteristics in COL FSAR Table 2.0-1R, 'Key Site Parameters.'

02.03.01-2

10 CFR 52.79(a)(1)(iii) states, in part, that the COL application must contain the meteorological 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.

a. FSAR Section 2.3.1.2.3 states that, according to NUREG/CR-4461, "Tornado Climatology of the Contiguous United States," (April 2005) there have been 148 tornadoes based on a 1-degree longitude and latitude box centered on the Comanche Peak Nuclear Power Plant (CPNPP) site. Based on FSAR Reference 2.3-210, this analysis was conducted using the Rev. 1 (2005) version of NUREG/CR-4461. Please justify why these values were not derived from NUREG/CR-4461, Revision 2 (February 2007).

b. The table at the top of FSAR Page 2.3-13 lists the values for the corresponding expected maximum tornado wind speed and upper limit (95 percentile) of the expected wind speed based on a 2-degree box centered on the CPNPP site. Similar to the 1-degree box values described above, please justify why these 2-degree box values were not derived from Rev. 2 (2007) of NUREG/CR-4461.

02.03.01-3

The last paragraph in FSAR Section 2.3.1.2.6 indicates that there is an annual and seasonal breakdown of large-hail events in FSAR Table 2.3-212, "Hail Storm Events." FSAR Table 2.3-212, however, only provides a breakdown of all events and an annual average for the five county area. For clarification, please either add the seasonal and annual breakdown of large-hail events to FSAR Table 2.3-212 or correct the text in FSAR Section 2.3.1.2.6.

02.03.01-4

FSAR Section 2.3.1.2.8 provides data from Reference 2.3-224, "North Central Texas Council of Governments (NCTCOG) HazMAP Multi-Hazard Risk Assessment, Forewarnings of Natural Hazards to the year 2030, Approved by the NCTCOG Executive Board January 22, 2004," regarding droughts and ice thickness amounts. Please provide a public internet link to this document or provide an electronic copy of this document.

02.03.01-5

Update FSAR Section 2.3.1.2.8 to address the extreme frozen winter precipitation event and extreme liquid winter precipitation event site characteristics in accordance with the Interim Staff Guidance (ISG) DC/COL-ISG-07, "Interim Staff Guidance on Assessment of Normal and Extreme Winter Precipitation Loads on the Roofs of Seismic Category I Structures" (ML081990438) and provide a discussion for the site characteristic values chosen.