

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Tuesday, June 30, 2009 3:35 PM
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Cc: ComanchePeakCOL Resource; Otto, Ngola
Subject: Comanche Peak RCOL RAI 9 - Section 8.1
Attachments: RAI 2576 (RAI 9).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. Within five calendar days of the date of this letter, please indicate if you wish to have a conference call.

The response to this RAI is due within 35 calendar days of June 30, 2009.

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

thank you,

Stephen Monarque
U. S. Nuclear Regulatory Commission
NRO/DNRL/NMIP
301-415-1544

Hearing Identifier: ComanchePeak_COL_Public
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Options

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Request for Additional Information (RAI) No. 2576

RAI Number 9

6/30/2009

Comanche Peak Units 3 and 4
Luminant Generation Company, LLC.
Docket No. 52-034 and 52-035
SRP Section: 08.01 - Electric Power - Introduction
Application Section: 8.1

QUESTIONS for Electrical Engineering Branch (EEB)

08.01-1

RAI 08.01-01

The regulatory basis for this question is discussed in 10 CFR Part 50, Appendix A, General Design Criterion 17.

NUREG-0800, Standard Review Plan (SRP), Chapter 8.1 'Electric Power' establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

FSAR Figure 8.1-1R shows the addition of a circuit breaker on the high side of the main transformer. Similarly, Figure 8.1-1R shows the addition of two circuit breakers on the high side of the reserve auxiliary transformers (RATs). An applicant is required to identify differences between the design features, analytical techniques, and procedural measures proposed for its facility and the SRP acceptance criteria and evaluate how the proposed alternatives to the SRP acceptance provide an acceptable method for complying with the NRC regulations. Since these additions introduce another failure mode for the normal and alternate sources, the applicant should indicate the rationale for the addition of the circuit breakers and the acceptability of the added failure mode.

08.01-2

RAI 08.01-02

The regulatory basis for this question is discussed in 10 CFR Part 50, Appendix A, General Design Criterion 5 "Sharing of Structures, Systems, and Components" and Regulatory Guide 1.81, "Shared Emergency and Shutdown Electric Systems for Multi-Unit Nuclear Power Plants," Revision 1 (January 1975), which describes the NRC staff's techniques in evaluating applications and provides guidance to applicants.

Table 8.1-1 of the US-APWR DCD indicates that 10 CFR Part 50, Appendix A, General Design Criterion (GDC) 5, "Sharing of Structures, Systems, and Components" and RG 1.81, "Shared Emergency and Shutdown Electric Systems for Multi-Unit Nuclear Power Plants," are not applicable to the US-APWR DCD.

(1) Please explain how a sharing of structures, systems and components will not occur at Comanche Peak Nuclear Power Plant (CPNPP), which, if a license is granted in this proceeding will become a four-unit plant.

(2) Discuss the applicability or non-applicability of the 10 CFR Part 50, Appendix A, GDC 5 and/or of RG 1.81 to CPNPP, Units 3 and 4.