PMComanchePeakPEm Resource

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Sent: Monday, September 07, 2009 3:21 PM
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Cc: Otto, Ngola; ComanchePeakCOL Resource
Subject: Comanche Peak RCOL - Section 11.5 - RAI # 50
Attachments: RAI 3402 (RAI 50).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 7, 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
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Hearing Identifier: ComanchePeak_COL_Public
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Request for Additional Information (RAI) No. 3402

RAI # 50

9/7/2009

Comanche Peak Units 3 and 4
Luminant Generation Company, LLC.
Docket No. 52-034 and 52-035
SRP Section: 11.05 - Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems
Application Section: 11.5

QUESTIONS for Health Physics Branch (CHPB)

11.05-1

Section 11.5.2.9 of the COLA, Part 2, FSAR (Rev 0) indicates that the offsite dose calculation manual (ODCM) follows the guidance in NEI Report 07-09, Generic FSAR template Guidance for Offsite Dose Calculation Manual Program Description,' and that Comanche Peak Nuclear Power Plant (CPNPP) already has an existing ODCM (CPNPP, Units 1 and 2) that reflects the new units (CPNPP, Units 3 and 4) See also Section 11.3.3.3. However, it is not clear whether the existing ODCM adequately addresses all elements in NEI 07-09A (Rev 0) approved by the NRC in March 2009. Please clarify this statement. Revise the COLA to include this information and provide a markup in your response.

11.05-2

The NRC staff's review of Section 11.5 in the COLA, Part 2, FSAR (Rev 0) indicates the information provided to satisfy CP COL 10.4(2) in regards to the design of the site-specific steam generator blowdown system (SGBDS) radiation monitor used in the blowdown system, for compliance with 10 CFR 50.34a, 10 CFR50.34(b)(6)(iii), and 10 CFR 52.47(b)(1), was not provided. CP COL 10.4(2) in Section 10.4.8.2.1 of the COLA states,

> "A radiation monitor located downstream of the startup SG blowdown heat exchanger measures radioactive level in the blowdown water. When an abnormally high radiation level is detected, the blowdown lines are isolated and the blowdown water included in the SGBDS is transferred to waste holdup tank in the LWMS. The location and other technical details of the monitor will be developed during the detail design phase."

COL 10.4(2) in the DCD, Tier 2, FSAR (Rev 1) instructs the COL applicant to address the discharge to Waste Water System including site specific requirements for the SGBDS. Please address the following items.

1. In Section 11.5, provide the location and other technical details of the SGBDS radiation monitor to satisfy CP COL 10.4(2). Include in the description how the SGBDS radiation monitor design

a. complies with Technical Specification (TS) 3.4.13, “RCS Operational Leakage” and TS 5.5.9, Steam Generator (SG) Program

b. conforms to NEI 97-06 and EPRI Guidelines

c. satisfies ITAAC and preoperational testing for sensitivity, response time, and alarm limit

2. In Section 11.5, tabulate the SGBDS radiation monitor design information such as “Item No.”, “Monitor Number”, “Service”, “Type”, “Range $\mu Ci/cm^3$”, “Calibration Isotopes”, “Check Source”, etc. consistent with design information for process radiation monitors.

3. Revise CP COL 10.4(2) to remove the statement that details of the SGBDS radiation monitor will be developed during the detail design phase.

4. Explain the bypass around the SGBDS radiation monitor in Figure 10.4.8-201.

Revise the COLA to include this information and provide a markup in your response.