

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Friday, September 18, 2009 11:28 AM
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Cc: ComanchePeakCOL Resource; Ward, William
Subject: Comanche Peak RCOL- Section 9.4.1 - RAI # 63
Attachments: RAI 3219 (RAI 63).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. Luminant is requested to inform the NRC staff if a conference call is needed.

The response to this RAI is due within 42 calendar days of September 18, 2009.

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
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Request for Additional Information (RAI) No. 3219

RAI # 63

9/18/2009

Comanche Peak Units 3 and 4
Luminant Generation Company, LLC.
Docket No. 52-034 and 52-035
SRP Section: 09.04.01 - Control Room Area Ventilation System
Application Section: FSAR section 9.4.1

QUESTIONS for Containment and Ventilation Branch 1 (AP1000/EPR Projects) (SPCV)

09.04.01-1

In combined license application (COLA) FSAR subsection 9.4.1.2 and FSAR Table 9.4-201, Luminant assigns a heating coil capacity value of 37 kW to the heaters of the four Main Control Room (MCR) Air Handling Units (AHU).

During its review, using the guidance of NUREG-800 Standard Review Plan (SRP) 9.4.1, the NRC staff found that Luminant did not include a reference in COLA FSAR Section 9.4.8 that would provide the basis and calculations used in the sizing of the heaters (i.e. 37 KW) for the MCR AHU. Luminant is requested to either establish clear performance criteria for the heaters and a means (ITAAC and/or startup testing) of verifying that heaters have been sized adequately or provide the following to justify the value selected.

- What is the basis for the sizing of the heaters?
- What is the design basis MCR temperature that the heaters are designed to maintain? The design basis should be clearly stated in the COLA FSAR.

In order to facilitate confirmatory calculations, please provide the inputs to the design calculations used in the derivation of the heating coil capacity value for the heater of the four MCR AHU.

In COLA FSAR subsection 9.4.1.2 and FSAR Table 9.4-201, Luminant assigns a heating coil capacity value of 37 kW to the heaters of the four MCR AHU to satisfy the requirements of US-APWR COL Information Item US-APWR COL 9.4(4) which states:

“The COL Applicant is to determine the capacity of cooling and heating coils that are affected by site specific condition.”

Item 2.C of SRP 9.4.1 Section III “Review Procedures” pertains to the subject in-service inspection and functional testing of system components important to safety. The NRC staff notes that neither COLA FSAR 9.4 nor US-APWR design certification document (DCD) subsection 9.4.1.4 “Inspection and Testing Requirements” contain any type of testing or inspections of the MCR heaters for demonstrating/maintaining operability of the heaters.

The NRC staff notes that each AHU heater is safety related; is of significant size (i.e. 37kW) and performs a significant safety related function.

Luminant did not provide in the COLA a site-specific ITAAC that includes the MCR AHU heaters in Tier 1 DCD subsection 2.7.5.1 “Main Control Room HVAC System”. Similarly, Luminant did not provide in the application an update of the pre-operational test 14.2.12.1.101 “MCR HVAC System Preoperational Test (including MCR Habitability)” to reflect the addition of these AHU heaters for the Comanche Peak Nuclear Power Plant.

The NRC staff requests that a justification be provided why the heater capacity need not be verified through ITAAC or startup testing. Alternatively, appropriate ITAAC and startup testing should be submitted.