

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Monday, January 04, 2010 5:07 PM
To: John.Only@luminant.com; Donald.Woodlan@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: ComanchePeakCOL Resource; Ward, William
Subject: Comanche Peak RCOL Section 9.2.4 - RAI Number 126
Attachments: RAI 3909 (RAI 126).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 35 calendar days of January 4, 2010.

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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From: Monarque, Stephen

Created By: Stephen.Monarque@nrc.gov

Recipients:

"ComanchePeakCOL Resource" <ComanchePeakCOL.Resource@nrc.gov>

Tracking Status: None

"Ward, William" <William.Ward@nrc.gov>

Tracking Status: None

"John.Only@luminant.com" <John.Only@luminant.com>

Tracking Status: None

"Donald.Woodlan@luminant.com" <Donald.Woodlan@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

Post Office: HQCLSTR02.nrc.gov

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Request for Additional Information (RAI) No. 3909

RAI Number 126

1/4/2010

Comanche Peak Units 3 and 4
Luminant Generation Company, LLC.
Docket No. 52-034 and 52-035
SRP Section: 09.02.04 - Potable and Sanitary Water Systems
Application Section: 9.2.4

QUESTIONS for Balance of Plant Branch 2 (ESBWR/ABWR) (SBPB)

09.02.04-1

USAPWR DCD Tier 1 Section 2.7.6.12.1, "Design Description" under the paragraph titled, "Interfaces Requirements," states that the PSWS [potable and sanitary water system] are interface systems. In accordance with 10 CFR 52.47(a)(26) and 10 CFR 52.80(a) requirements, site-specific ITAAC must be established in order to demonstrate that the specified Tier 1 interface requirements are met. Provide a site-specific COL application Part 10 ITAAC for the PSWS to address the interface requirement that is specified in Section 2.7.6.12.1 in accordance with 10 CFR Part 52 requirements.

09.02.04-2

The NRC staff reviewed the COL information items for the potable and sanitary water system (PSWS) and determined that the information that is called for by the USAPWR DCD does not pertain to or otherwise involve design provisions that are specified for preventing radioactive material from contaminating the PSWS. Therefore, the COL information items do not affect compliance with 10 CFR Part 50, Appendix A, General Design Criterion 60 requirements and the PSWS will continue to be acceptable in this regard.

Section 10 CFR 52.73(a) allows for a COL applicant to incorporate by reference the DCD. However, the NRC staff noted that in some cases, the information that was provided to address the COL information items for the PSWS was not limited to the information that was called for by the DCD, rather the information included changes to the PSWS design as described in Tier 1 and Tier 2 of the DCD. These changes were not properly identified and evaluated, and they are not listed in the Departures Report that is included as Part 7 of the COL application.

For example, the information that was provided to address COL 9.2(11) eliminates the design provision in DCD Tier 2 Section 9.2.4.1, "Design Bases," that specifies that "the potable water system layout is designed with no interconnection and/or sharing between systems or between units." This is also contrary to the certified design information that is specified in DCD Tier 1 Section 2.7.6.12.1, "Design Description." Properly identify and evaluate all departures from Tier 1 and Tier 2 of the DCD as required by 10 CFR Part 52 requirements.

09.02.04-3

Section 10 CFR 52.73 allows for COL applicants to incorporate by reference the DCD. The potable water system described in the US-APWR DCD (Rev 2) comprises the potable water storage tank, two potable water pumps, jockey pump, distribution loop around the power block, hot water heaters, and interconnecting piping and valves. Since the potable water supply at Comanche Peak Nuclear Power Plant is offsite, COL FSAR Sections 9.2.4.2.2.1 "Potable Water Storage Tank", 9.2.4.2.2.2 "Potable Water Pumps", and 9.2.4.2.2.3 "Jockey Pumps" were deleted in the FSAR. However, section 9.2.4.2.2.4, "Hot Water Heaters," was not deleted.

In USAPWR DCD Section 9.2.4.2.2.4, it states that the potable water tank supplies water to the hot water heater and is routed for domestic use. COL 9.2(16) requires the COL Applicant to provide values to the component Table 9.2.4-1 based on system and component descriptions from Section 9.2.4.2.1 and 9.2.4.2.2. Provide design details of the potable water tank that is proposed to supply hot water heaters and the COL applicant is asked to describe the potable water tank that will supply hot water heaters, including the effects of failure on safety-related equipment.