

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Friday, October 09, 2009 4:12 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 3.5.3 - RAI Number 124
Attachments: RAI 2828 (RAI 124).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 October 9, 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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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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Options

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Request for Additional Information (RAI) No. 2828

RAI Number 124

10/9/2009

Comanche Peak Units 3 and 4
Luminant Generation Company, LLC.
Docket No. 52-034 and 52-035
SRP Section: 03.05.03 - Barrier Design Procedures
Application Section: SRP 3.5.3 - Barrier Design Procedures

QUESTIONS for Structural Engineering Branch 1 (AP1000/EPR Projects) (SEB1)

03.05.03-1

In NUREG-0800, Standard Review Plan (SRP) 3.5.3., "Barrier Design Procedures," Section II, Acceptance Criteria, specifies the criteria necessary to meet the relevant requirements of 10 CFR Part 50, Appendix A, General Design Criteria (GDC) 2 and GDC 4. SRP Section 3.5.3 includes descriptions of the staff's criteria for providing adequate barriers to resist impact from missiles, pipe whipping, and the effects of discharging fluids in order to protect structures, systems, and components important to safety.

In its FSAR, the applicant considered section 3.5.3 as incorporated by reference from the US-APWR DCD. However, there are site-specific structures and conditions which likely need to be addressed with respect to barrier designs and protection from missiles.

In order for staff to verify that the requirements of GDC 2 and GDC 4 have been met, the applicant is requested to provide the basis for determining the minimum thickness of cover to protect buried safety-related structures, systems and components (SSCs) from missile impact. In addition, provide a table of missiles including weight, size, and velocity along with the minimum required cover to provide protection against such missiles.