

## PMComanchePeakPEm Resource

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**From:** Monarque, Stephen  
**Sent:** Friday, February 11, 2011 11:51 AM  
**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; Reyes, Ruth  
**Subject:** Comanche Peak RCOL Chapter 6 Section 6.4 - RAI Number 202  
**Attachments:** RAI 5411 (RAI 202).docx

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 February 11, 2011.

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  
**Email Number:** 1236

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**Subject:** Comanche Peak RCOL Chapter 6 Section 6.4 - RAI Number 202  
**Sent Date:** 2/11/2011 11:51:28 AM  
**Received Date:** 2/11/2011 11:51:29 AM  
**From:** Monarque, Stephen

**Created By:** Stephen.Monarque@nrc.gov

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**Post Office:** HQCLSTR02.nrc.gov

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RAI 5411 (RAI 202).docx	22680	

**Options**

**Priority:** Standard

**Return Notification:** No

**Reply Requested:** No

**Sensitivity:** Normal

**Expiration Date:**

**Recipients Received:**

Request for Additional Information (RAI) No. 5411, COLA Revision 1

RAI Letter Number 202

2/11/2011

Comanche Peak Units 3 and 4  
Luminant Generation Company, LLC.  
Docket No. 52-034 and 52-035  
SRP Section: 06.04 - Control Room Habitability System  
Application Section: FSAR 6.4

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

06.04-12

This is a follow-up RAI for USAPWR DCD RAI No. 49 Question No. 06.04-19 and RAI 338-2325, Question No. 06.04-6 (ADAMS Accession Number ML091700682); RAI No. 559-4387; Question No. 06.04-13 (ADAMS Accession Number ML101450224) (NRC ID 4387, Question number 16732), and for Comanche Peak R-COLA RAI No. 3968, Question No. 06.04-7 (ADAMS Accession Number ML100550345), and RAI No. 4678, Question No. 06.04-11 (ADAMS Accession Number ML102810224). Due to the expected plant design impact of the resolution of the issues associated with this RAI, it is being issued simultaneously to both the DCD applicant and the R-COL applicant.

In response to Question No. 06.04-13, **OPEN ITEM** - Follow-up RAI (NRC ID 4387, Question Number 16732), dated May 20, 2010, the COL FSAR was revised in a confusing and potentially ambiguous manner. Specifically, the FSAR commits to design the enclosure and chillers in accordance with ANSI/ASHRAE Standard 15-2007. The NRC staff can accept essential and non-essential chillers located in proximity of other important equipment if they are designed in accordance with a robust consensus standard like ANSI/ASHRAE Standard 15. Unfortunately, compliance with the standard was made ambiguous with the recent revision to the COL FSAR. The specific or detailed design of the chillers has not been finalized and it is not possible at this time to demonstrate compliance with STD 15. It is also not possible to conclude whether a dedicated ventilation for each machinery room is necessary to comply with STD 15. The recent COL FSAR revision has precluded the use of dedicated ventilation and instead indicated that the auxiliary building ventilation would be used. STD 15 clearly requires dedicated ventilation under certain conditions. Specifically, STD 15, Section 8.11.4 reads, "*Air and supply and exhaust ducts to the machinery room shall serve no other area.*"

Please justify why a dedicated ventilation and the other requirements of STD 15 Sections 8.11 and 8.12 are not necessary for compliance with STD 15 for all possible chiller configurations permitted by the FSAR. If additional design commitments for the chillers (size, refrigerant type, refrigerant volume, refrigerant amount ....) are necessary to justify this assertion please include these design commitments in the FSAR.