

## PMComanchePeakPEm Resource

---

**From:** Monarque, Stephen  
**Sent:** Monday, January 04, 2010 3:50 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; Magee, Michael  
**Subject:** Comanche Peak RCOL Sections 2.2.3 and 6.4 - RAI Number 125  
**Attachments:** RAI 3968 (RAI 125).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  
**Email Number:** 763

**Mail Envelope Properties** (9C2386A0C0BC584684916F7A0482B6CA0B7980AB27)

**Subject:** Comanche Peak RCOL Sections 2.2.3 and 6.4 - RAI Number 125  
**Sent Date:** 1/4/2010 3:50:22 PM  
**Received Date:** 1/4/2010 3:50:23 PM  
**From:** Monarque, Stephen

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

**Recipients:**

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

Tracking Status: None

"Magee, Michael" <Michael.Magee@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

Files	Size	Date & Time
MESSAGE	651	1/4/2010 3:50:23 PM
RAI 3968 (RAI 125).doc		29690

**Options**

**Priority:** Standard

**Return Notification:** No

**Reply Requested:** No

**Sensitivity:** Normal

**Expiration Date:**

**Recipients Received:**

Request for Additional Information (RAI) No. 3968

RAI Number 125

1/4/2010

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 sections 2.2.3 and 6.4

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

06.04-7

The refrigerants used for refrigeration and HVAC cooling systems throughout Comanche Peak Units 3 and 4 have not been evaluated with respect to the guidance of Regulatory Guide (RG) 1.78, "Evaluating the Habitability of a Nuclear Power Plant Control Room During a Postulated Hazardous Chemical Release," for toxic gas analyses for the control room envelope. Neither COL application FSAR subsection 2.2.3.1.3.2 "Source Evaluation" discusses refrigerants nor Table 2.214 "Toxic Chemicals that do not Meet the Regulatory Guide 1.78 Screening Criteria (a)" list refrigerants. The US-APWR DCD does not capture the particular refrigerants used throughout the US-APWR plant.

From Section 6.4.7 of the US-APWR DCD, Revision 2:

*COL 6.4(1) states "The COL Applicant is responsible to provide details of specific toxic chemicals of mobile and stationary sources within the requirements of RG 1.78 (Ref 6.4-4) and evaluate the control room habitability based on the recommendation of RG 1.78 (Ref 6.4-4)."*

Please provide a RG 1.78 evaluation in the FSAR for the refrigerants to be used at Comanche Peak Units 3 and 4.