

## PMComanchePeakPEm Resource

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**From:** Stephen Monarque  
**Sent:** Friday, April 24, 2009 3:54 PM  
**To:** cp34-rai-luminant@mnes-us.com; Diane Yeager; Donald.Woodlan@luminant.com; Eric.Evans@luminant.com; John.Only@luminant.com; joseph tapia; Kazuya Hayashi; Matthew.Weeks@luminant.com; MNES RAI mailbox; Russ Bywater  
**Cc:** Michael Magee; ComanchePeakCOL Resource  
**Subject:** Comanche Peak COL FSAR - RAI # 4  
**Attachments:** RAI 2504.doc

The NRC staff has identified that additional information is needed to continue its review of the combined license application. The staff's request for additional information (RAI) is contained in the attachment. Within five calendar days of the date of this letter, please indicate if you wish to have a conference call.

The response to this RAI is due within 35 calendar days of April 24, 2009.

Note: If changes are needed to the safety analysis report, the NRC staff requests that the RAI response include the proposed wording changes.

thanks,

Stephen Monarque  
U. S. Nuclear Regulatory Commission  
NRO/DNRL/NMIP  
301-415-1544

**Hearing Identifier:** ComanchePeak\_COL\_Public  
**Email Number:** 210

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**Subject:** Comanche Peak COL FSAR - RAI # 4  
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**From:** Stephen Monarque

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

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	679	4/24/2009 3:53:47 PM
RAI 2504.doc	29178	

**Options**

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**Return Notification:** No  
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Request for Additional Information No. 2504 Revision 1

RAI # 4

4/24/2009

Comanche Peak Units 3 and 4  
Luminant Generation Company, LLC.  
Docket No. 52-034 and 52-035  
SRP Section: 07.04 - Safe Shutdown Systems  
Application Section: 7.4

QUESTIONS for Instrumentation, Controls and Electrical Engineering 1 (AP1000/EPR Projects) (ICE1)

07.04-1

10 CFR Part 50, Appendix A, General Design Criteria 19 requires, in part, that instrumentation and controls be provided to safely operate the nuclear unit under normal conditions and to maintain it in a safe condition under accident conditions.

Please provide a system description of the ultimate heat sink (UHS), including how it is used to achieve normal and safe shutdown and any interactions with other systems with the same functions. The COL should not only identify but also describe any supporting systems.

Section 7.4 of the Final Safety Analysis Report (FSAR) identifies ultimate heat sink indications in the control room to achieve safe shutdown. Please provide a system description, including how the systems interact to achieve a safe shutdown.