

## PMComanchePeakPEm Resource

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**From:** Monarque, Stephen  
**Sent:** Thursday, April 12, 2012 12:57 PM  
**To:** John.Only@luminant.com; Donald.Woodlan@luminant.com; 'cp34-rai-luminant@mnes-us.com'; Eric.Evans@luminant.com; joseph tapia; 'Kazuya Hayashi'; 'Russ Bywater'; MNES RAI mailbox (cp34-rai-luminant@mnes-us.com)  
**Cc:** ComanchePeakCOL Resource; Roy, Tarun  
**Subject:** Comanche Peak RCOL Chapter 17- RAI Number 253 -  
**Attachments:** RAI 6410 (RAI 253).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 **April 12, 2012, 2012.**

Note: The NRC staff requests that the RAI response include any proposed changes to the FSAR.

thanks,

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

**Hearing Identifier:** ComanchePeak\_COL\_Public  
**Email Number:** 1668

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**Received Date:** 4/12/2012 12:55:13 PM  
**From:** Monarque, Stephen

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

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

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Request for Additional Information (RAI) No. 6410, COLA Revision 2

RAI Letter Number 253

4/12/2012

Comanche Peak Units 3 and 4  
Luminant Generation Company, LLC.  
Docket No. 52-034 and 52-035  
SRP Section: 17.04 - Reliability Assurance Program (RAP)  
Application Section: 17.4

QUESTIONS for PRA and Severe Accidents Branch (SPRA)

17.04-9

In its response to RAI 5312, question 17.04-7, dated February 18, 2011, the applicant referred to its response to question 17.04-6 and stated that MHI revised the US-APWR DCD to include the essential service water (ESW) pump room exhaust fans (based on the assumption that the ESW pump motors are air-cooled) in DCD Table 17.4-1 ("Risk-Significant SSCs") and to clarify that the design of the ultimate heat sink (UHS) and associated HVAC systems are not within the scope of the US-APWR standard design (i.e., the design of these SSCs are site-specific). The staff confirmed these changes in Revision 3 of the US-APWR DCD. From Section 9.4 of the COL FSAR, the site-specific design of the ESW pump house ventilation system includes the ESW pump room exhaust fans and other key components such as ESW pump room heaters, room temperature controllers/switches for control of the ESW pump room exhaust fans and heaters, and room air intake and discharge back draft dampers. Since the ESW pump room exhaust fans are considered by engineering judgment to be risk-significant in DCD Table 17.4-1, Revision 3, it would suggest that the other key components of the ESW pump house ventilation system may also be risk-significant.

The staff requests that the applicant provide the basis for not considering risk-significant in COL FSAR Table 17.4-201 the other key components of the ESW pump house ventilation system. Consideration of common cause failures and defense-in-depth should also be addressed in this discussion.