

## PMComanchePeakPEm Resource

---

**From:** Monarque, Stephen  
**Sent:** Thursday, May 03, 2012 4:36 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; Otto, Ngoia  
**Subject:** Comanche Peak RCOL Chapter 14- RAI Number 257 -  
**Attachments:** RAI 6457 (RAI 257).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 **May 3, 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:** 1684

**Mail Envelope Properties** (9C2386A0C0BC584684916F7A0482B6CA6E84D19F49)

**Subject:** Comanche Peak RCOL Chapter 14- RAI Number 257 -  
**Sent Date:** 5/3/2012 4:36:00 PM  
**Received Date:** 5/3/2012 4:36:05 PM  
**From:** Monarque, Stephen

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

**Recipients:**

"ComanchePeakCOL Resource" <ComanchePeakCOL.Resource@nrc.gov>  
Tracking Status: None  
"Otto, Ngola" <Ngola.Otto@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  
"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  
"Russ Bywater" <russell\_bywater@mnes-us.com>  
Tracking Status: None  
"MNES RAI mailbox (cp34-rai-luminant@mnes-us.com)" <cp34-rai-luminant@mnes-us.com>  
Tracking Status: None

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

| <b>Files</b>            | <b>Size</b> | <b>Date &amp; Time</b> |
|-------------------------|-------------|------------------------|
| MESSAGE                 | 605         | 5/3/2012 4:36:05 PM    |
| RAI 6457 (RAI 257).docx | 20835       |                        |

**Options**

**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**

Request for Additional Information (RAI) No. 6457, COLA Revision 2

RAI Number 257

5/3/2012

Comanche Peak Units 3 and 4  
Luminant Generation Company, LLC.  
Docket No. 52-034 and 52-035

SRP Section: 14.02 - Initial Plant Test Program - Design Certification and New License Applicants  
Application Section: 14.2

QUESTIONS for Quality and Vendor Branch 1 (AP1000/EPR Projects) (CQVP)

14.02-21

During the review of COL FSAR Section 14.2.12.1.113, "Ultimate Heat Sink (UHS) System Preoperational Test," the NRC staff determined there is incomplete or missing information. Specifically, the applicant is requested to address the following in the FSAR:

1. Testing for water hammer (or lack of a water hammer event) during system pump starts and stops.
2. Testing to ensure the ESWS/UHS void detection system works as designed.
3. UHS transfer pumps operate with various power supplies since pumps and associated motor operated valves get powered from more than one safety bus.
4. Testing of the freeze protection design features associated with the ESWS/UHS.
5. Testing of the UHS transfer pumps for adequate net positive suction head at the lower water level requirements and testing for lack of UHS transfer pump vortexing.
6. Testing of the UHS fans (speed and direction) – missing from acceptance criteria.