

## PMComanchePeakPEm Resource

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**From:** Galvin, Dennis  
**Sent:** Wednesday, April 06, 2011 2:56 PM  
**To:** ComanchePeakCOL Resource  
**Subject:** FW: Comanche Peak 3.7.3-4 RAI Status

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**From:** Galvin, Dennis  
**Sent:** Wednesday, April 06, 2011 2:54 PM  
**To:** Donald Woodlan  
**Cc:** Valentin, Milton; Monarque, Stephen; John Conly ([John.Only@luminant.com](mailto:John.Only@luminant.com))  
**Subject:** FW: Comanche Peak 3.7.3-4 RAI Status

Don,

We still need to arrange a phone call on the topic below. Please let me know when your staff will be available to discuss this topic. The staff does not expect the call to take more than 20 minutes.

Thanks,

Dennis Galvin  
Project Manager  
NRC/NRO/DNRL/NMIP  
301-415-6256

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**From:**  
**Sent:**  
**To:** Valentin, Milton  
**Subject:** RE: Comanche Peak 3.7 RAI Status

Milton,

I have reviewed the response to RAI 3.7.3-4. This question asked the applicant to justify neglecting the influence of vertical ground shaking on the lateral pressures of the UHS basin walls. The applicant responded by stating that they took a conservative approach by assuming that the vertical breathing mode of the basin occurs at the frequency corresponding to the peak of the vertical ISRS of the base slab. I believe that this response is incomplete and that the applicant should respond to the following questions:

- 1) What is the physical connection between base slab frequencies and possible amplification of wall loads?
- 2) What base slab or portion of a base slab was used to generate the ISRS in their response?

The procedure of using peak spectral accelerations is fine, but I would have expected this to be based on basin wall ISRS, not floor slab ISRS. Also, given the configuration of the UHSRS, Luminant should clarify which walls are being addressed, and how the base slab frequency relates to the potential for load amplification on each of the walls.

You may want to bring this up in a weekly telecon with Luminant.

George

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**From:** Galvin, Dennis

**Created By:** Dennis.Galvin@nrc.gov

**Recipients:**  
"ComanchePeakCOL Resource" <ComanchePeakCOL.Resource@nrc.gov>  
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