

## Callaway2COLPEm Resource

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**From:** Surinder Arora  
**Sent:** Tuesday, May 12, 2009 7:31 AM  
**To:** Shafer, David E  
**Cc:** Callaway2COL Resource; Joseph Colaccino; Ann Hodgdon; David Terao; Eric Reichelt; Michael Miernicki; NPUnit2-EPR@ameren.com  
**Subject:** Final RAI N0. 8 (eRAI 2478) - Public  
**Attachments:** FINAL RAI 2478.doc

Dave,

Attached please find the subject request for additional information (RAI). A draft of this RAI was provided to you on April 6, 2009. Based on the e-mail dated April 23, 2009, from Roger Wink, no phone call was necessary to discuss this RAI.

The schedule we have established for review of your application assumes technically correct and complete responses within 30 days of receipt of RAIs. For any RAIs that cannot be answered within 30 days, it is expected that a schedule date for submitting your technically correct and complete response will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the review schedule.

Thanks.

**SURINDER ARORA, PE**  
**PROJECT MANAGER,**  
**Office of New Reactors**  
**US Nuclear Regulatory Commission**

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**From:** Surinder Arora

**Created By:** Surinder.Arora@nrc.gov

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**Options**

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Request for Additional Information No. 2478 Revision 0

5/12/2009

Callaway Unit 2

AmerenUE

Docket No. 52-037

SRP Section: 03.06.03 - Leak-Before-Break Evaluation Procedures

Application Section: 03.06.03

QUESTIONS for Component Integrity, Performance, and Testing Branch 1 (AP1000/EPR Projects)  
(CIB1)

03.06.03-1

Chapter 3.6.3 of the applicant's FSAR states that "{Ameren UE} shall confirm that the design Leak-Before-Break (LBB) analysis remains bounding for each piping system." Please provide as-designed LBB analyses for each LBB piping system prior to COL issuance or provide justification for concluding that the as-designed LBB analyses remain bounding for each piping system.

03.06.03-2

The EPR LBB generic design has had difficulty meeting the staff's safety factor of 2 on dynamic loadings and AREVA was proposing to use a safety factor of 1.7. In recent developments for the EPR generic design to envelope all current sites' seismic loadings, AREVA is proposing to revise its generic seismic design response spectra. This could cause an increase in seismic loadings, thereby impacting the LBB design and possibly causing a further decrease in the LBB dynamic loading safety factor.

Please provide an analysis or evaluation that demonstrates that the main steam piping inside containment meets the safety factor of 2 using site specific seismic response spectra.