

## ArevaEPRDCPEm Resource

---

**From:** Getachew Tesfaye  
**Sent:** Friday, January 09, 2009 7:35 PM  
**To:** 'usepr@areva.com'  
**Cc:** Chang Li; John Segala; Michael Miernicki; Joseph Colaccino; ArevaEPRDCPEm Resource  
**Subject:** U.S. EPR Design Certification Application RAI No. 168 (1762), FSAR Ch. 3  
**Attachments:** RAI\_168\_SBPB\_1762.doc

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on January 6, 2009, and on January 9, 2009, you informed us that the RAI is clear and no further clarification is needed. As a result, no change is made to the draft 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 date for receipt of this information will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the published schedule.

Thanks,  
Getachew Tesfaye  
Sr. Project Manager  
NRO/DNRL/NARP  
(301) 415-3361

**Hearing Identifier:** AREVA\_EPR\_DC\_RAIs  
**Email Number:** 109

**Mail Envelope Properties** (C56E360E9D804F4B95BC673F886381E71D2347D357)

**Subject:** U.S. EPR Design Certification Application RAI No. 168 (1762), FSAR Ch. 3  
**Sent Date:** 1/9/2009 7:35:05 PM  
**Received Date:** 1/9/2009 7:35:01 PM  
**From:** Getachew Tesfaye

**Created By:** Getachew.Tesfaye@nrc.gov

**Recipients:**

"Chang Li" <Chang.Li@nrc.gov>  
Tracking Status: None  
"John Segala" <John.Segala@nrc.gov>  
Tracking Status: None  
"Michael Miernicki" <Michael.Miernicki@nrc.gov>  
Tracking Status: None  
"Joseph Colaccino" <Joseph.Colaccino@nrc.gov>  
Tracking Status: None  
"ArevaEPRDCPEm Resource" <ArevaEPRDCPEm.Resource@nrc.gov>  
Tracking Status: None  
"usepr@areva.com" <usepr@areva.com>  
Tracking Status: None

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

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	793	1/9/2009 7:35:01 PM
RAI_168_SBPB_1762.doc	29178	

**Options**

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

Request for Additional Information No. 168 (1762), Revision 0

01/09/2009

U. S. EPR Standard Design Certification  
AREVA NP Inc.

Docket No. 52-020

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

Application Section: 3.6.3

QUESTIONS for Balance of Plant Branch 2 (ESBWR/ABWR) (SBPB)

03.06.03-19

FSAR Section 3.6.3.7 described the leak detection methods for supporting main steam line LBB. The primary method used to detect leakage from main steam line (MSL) is the local humidity detection system, which has the capability of detecting a leakage of 0.1 gpm within four hours. A secondary method of detecting a leakage of 0.1 gpm within four hours for the MSL is the containment sump level. Containment air cooler condensate flow and containment atmosphere pressure, temperature, and humidity also provide an indication of possible leakage. The staff reviewed the above information and found the inadequacies in seismic qualification and plant Technical Specification (TS) operability control. The seismic qualification and TS requirements described in FSAR Section 5.2.5 for RCS leakage detection may not be applicable for the leakage detection of MSL. The applicant is requested to provide the following information in the FSAR.

- a) Provide at least one leak detection method to be capable of performing its function to support MSL LBB following a seismic event.
- b) Provide TS for the leak detection instruments including operability and surveillance requirements in supporting MSL LBB.