

## ArevaEPRDCPEm Resource

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**From:** Getachew Tesfaye  
**Sent:** Tuesday, January 06, 2009 2:21 PM  
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**Subject:** Draft - U.S. EPR Design Certification Application RAI No. 168 (1762), FSAR Ch. 3  
**Attachments:** Draft RAI\_168\_SBPB\_1762.doc

Attached please find draft RAI No. 168 regarding your application for standard design certification of the U.S. EPR. If you have any question or need clarifications regarding this RAI, please let me know as soon as possible, I will have our technical Staff available to discuss them with you.

Please also review the RAI to ensure that we have not inadvertently included proprietary information. If there are any proprietary information, please let me know within the next ten days. If I do not hear from you within the next ten days, I will assume there are none and will make the draft RAI publicly available.

Thanks,  
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Draft

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

1/6/2009

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.