## ArevaEPRDCPEm Resource

**From:** WELLS Russell (AREVA) [Russell.Wells@areva.com]
**Sent:** Tuesday, April 05, 2011 5:51 PM
**To:** Tesfaye, Getachew
**Cc:** LENTZ Tony (EXTERNAL AREVA); BENNETT Kathy (AREVA); DELANO Karen (AREVA); ROMINE Judy (AREVA); RYAN Tom (AREVA)
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 478 (5434), FSAR Ch. 5
**Attachments:** RAI 478 Response US EPR DC.pdf

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 478 Response US EPR DC.pdf" provides a schedule since technically correct and complete responses to the one question is not provided.

The following table indicates the respective pages in the response document, "RAI 478 Response US EPR DC.pdf" that contain AREVA NP's responses to the subject question.

| Question # | Start Page | End Page |
|---|---|---|
| RAI 478 — 05.02.05-13 | 2 | 2 |

A complete answer is not provided for the one question. The schedule for technically correct and complete responses to this question is provided below.

| Question # | Response Date |
|---|---|
| RAI 478 — 05.02.05-13 | May 25, 2011 |

*Sincerely,*

*Russ Wells*
*U.S. EPR Design Certification Licensing Manager*
***AREVA NP, Inc.***
*3315 Old Forest Road, P.O. Box 10935*
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**From:** Tesfaye, Getachew [mailto:Getachew.Tesfaye@nrc.gov]
**Sent:** Monday, March 07, 2011 8:34 PM
**To:** ZZ-DL-A-USEPR-DL
**Cc:** Li, Chang; Segala, John; Lee, Samuel; Hearn, Peter; Colaccino, Joseph; ArevaEPRDCPEm Resource
**Subject:** U.S. EPR Design Certification Application RAI No. 478 (5434), FSAR Ch. 5

Attached please find the subject request for additional information (RAI). A draft of the RAI was provided to you on March 4, 2011, and on the same day on March 4, 2011, 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:** 2815

**Mail Envelope Properties** (1F1CC1BBDC66B842A46CAC03D6B1CD41042EF3C0)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 478 (5434), FSAR Ch. 5
**Sent Date:** 4/5/2011 5:51:25 PM
**Received Date:** 4/5/2011 5:51:28 PM
**From:** WELLS Russell (AREVA)

**Created By:** Russell.Wells@areva.com

**Recipients:**
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Tracking Status: None
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"ROMINE Judy (AREVA)" <Judy.Romine@areva.com>
Tracking Status: None
"RYAN Tom (AREVA)" <Tom.Ryan@areva.com>
Tracking Status: None
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Tracking Status: None

**Post Office:** AUSLYNCMX02.adom.ad.corp

| **Files** | **Size** | **Date & Time** |
|---|---|---|
| MESSAGE | 2275 | 4/5/2011 5:51:28 PM |
| RAI 478 Response US EPR DC.pdf | 58047 | |

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

**Response to**

**Request for Additional Information No. 478(5434), Revision 0**

**3/07/2011**

**U. S. EPR Standard Design Certification**
**AREVA NP Inc.**
**Docket No. 52-020**
**SRP Section: 05.02.05 - Reactor Coolant Pressure Boundary Leakage Detection**
**Application Section: 5.2.5**

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

**Question 05.02.05-13:**

**OPEN ITEM**

This RAI is related to RAI No. 431 Question 05.02.05-12. In the response to RAI No. 431, the applicant clarified that the leakage detection requirement for leak-before-break (LBB) of the main coolant loop piping (MCL) and pressurizer surge line (SL) is 0.5 gpm, and the leakage detection requirement for the main steam line (MSL) is 0.1 gpm. The initial testing and ITAAC acceptance criteria were revised accordingly. However, current Technical Specifications (TS) 3.4.12.b specifies a criterion of 1 gpm for unidentified RCS leakage. In addition, TS 3.7.18 specifies a criterion of 1 gpm for the main steam line leakage. Similar to the revision of ITAAC and initial testing acceptance criteria, revise the TS criteria in the FSAR for the above two TS limits to be consistent with the functional requirement of supporting LBB or justify the 1 gpm criterion to be adequate to support LBB.

**Response to Question 05.02.05-13:**

A response to this question will be provided by May 25, 2011.