

## ArevaEPRDCPEm Resource

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**From:** Miernicki, Michael  
**Sent:** Wednesday, October 23, 2013 3:13 PM  
**To:** ArevaEPRDCPEm Resource  
**Subject:** FW: Response to US EPR DC FINAL RAI 604, Chapter 14, Section 14.03.07 - Plant Systems - Inspections, Tests, Analyses, and Acceptance Criteria  
**Attachments:** RAI 604 Response US EPR DC.PDF

Michael J. Miernicki  
Sr. Project Manager  
NRC/NRO/DNRL/LB1  
301-415-2304

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**From:** HOTTLE Nathan (AREVA) [<mailto:Nathan.Hottle@areva.com>]  
**Sent:** Monday, October 21, 2013 5:28 PM  
**To:** Miernicki, Michael  
**Cc:** Takacs, Michael; GUCWA Len (EXTERNAL AREVA); UYEDA Graydon (AREVA); RANSOM Jim (AREVA); LEIGHLITER John (AREVA); KOWALSKI David (AREVA); MUSGRAVE Jennifer (AREVA); DELANO Karen (AREVA); ROMINE Judy (AREVA); RYAN Tom (AREVA)  
**Subject:** Response to US EPR DC FINAL RAI 604, Chapter 14, Section 14.03.07 - Plant Systems - Inspections, Tests, Analyses, and Acceptance Criteria

Mike,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 604 Response US EPR DC.pdf," provides a schedule since a technically correct and complete response to the single question cannot be provided at this time.

The following table indicates the respective pages in the response document, "RAI 604 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 604 — 14.03.07-40	2	2

The schedule for a technically correct and complete response to the question is provided below.

Question #	Advanced Response Date	NRC Comment Request Date	Final Response Date
RAI 604 — 14.03.07-40	December 13, 2013	January 24, 2014	<b>February 7, 2014</b>

Sincerely,

*Nathan Hottle*  
AREVA Inc.  
3315 Old Forest Road  
Lynchburg, VA 24501  
Phone 434-832-3864

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**From:** Snyder, Amy [<mailto:Amy.Snyder@nrc.gov>]  
**Sent:** Thursday, September 19, 2013 3:55 PM  
**To:** ZZ-DL-A-USEPR-DL  
**Cc:** Wheeler, Larry; Dias, Antonio; Buckberg, Perry; Takacs, Michael; Miernicki, Michael; Gleaves, Bill; Segala, John  
**Subject:** US EPR DC FINAL RAI 604, Chapter 14, Section 14.03.07 - Plant Systems - Inspections, Tests, Analyses, and Acceptance Criteria





Attached please find the subject request for additional information (RAI). A draft RAI was provided to you on September 05, 2013. On September 10, 2013, AREVA informed us that, the RAI is clear and does not contain proprietary information and that no further clarification is needed.

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 or October 21, 2013**, 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.

Thank You,

Amy

Amy

Amy Snyder, U.S. EPR Design Certification Lead Project Manager  
Licensing Branch 1 (LB1)  
Division of New Reactor Licensing  
Office of New Reactors  
U.S. Nuclear Regulatory Commission  
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 Mail Stop: T6-C20M  
 E-mail: [Amy.Snyder@nrc.gov](mailto:Amy.Snyder@nrc.gov)

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**From:** Snyder, Amy  
**Sent:** Thursday, September 05, 2013 3:32 PM  
**To:** 'usepr@areva.com' ([usepr@areva.com](mailto:usepr@areva.com))  
**Cc:** Wheeler, Larry; Dias, Antonio; Buckberg, Perry; Takacs, Michael; Miernicki, Michael; Gleaves, Bill; Segala, John  
**Subject:** US EPR DC DRAFT RAI 604, Chapter 14, Section 14.03.07 - Plant Systems - Inspections, Tests, Analyses, and Acceptance Criteria

Attached please find Draft RAI No. 604 regarding your application for standard design certification of the U.S. EPR. If you have any questions or need clarification regarding this Draft 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 draft RAI to ensure that we have not inadvertently included proprietary information. If there is 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.

Thank You,

Amy

Amy Snyder, U.S. EPR Design Certification Lead Project Manager  
Licensing Branch 1 (LB1)  
Division of New Reactor Licensing  
Office of New Reactors  
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**Hearing Identifier:** AREVA\_EPR\_DC\_RAIs  
**Email Number:** 4711

**Mail Envelope Properties** (9C2386A0C0BC584684916F7A0482B6CAEAF42FC73A)

**Subject:** FW: Response to US EPR DC FINAL RAI 604, Chapter 14, Section 14.03.07 -  
Plant Systems - Inspections, Tests, Analyses, and Acceptance Criteria  
**Sent Date:** 10/23/2013 3:12:37 PM  
**Received Date:** 10/23/2013 3:12:38 PM  
**From:** Miernicki, Michael

**Created By:** Michael.Miernicki@nrc.gov

**Recipients:**  
"ArevaEPRDCPEm Resource" <ArevaEPRDCPEm.Resource@nrc.gov>  
Tracking Status: None

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

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	4619	10/23/2013 3:12:38 PM
RAI 604 Response US EPR DC.PDF		64464

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

**Response to**

**Request for Additional Information No.604**

**09/19/2013**

**U.S. EPR Standard Design Certification**

**AREVA NP Inc.**

**Docket No. 52-020**

**SRP Section: 14.03.07 - Plant Systems - Inspections, Tests, Analyses, and  
Acceptance Criteria**

**Application Section: 9.2.2 and 9.2.8**

**SRSB Branch**

**Question 14.03.07-40:**

The staff reviewed U.S. EPR Tier 1, FSAR Revision 5, Section 2.7.1, "Component Cooling Water System," and found the following discrepancies:

- Table 2.7.1-2 "CCWS Equipment I&C and Electrical Design", Sheet 4 of 8 (Page 2.7-14), column IEEE Class 1E<sup>(2)</sup> – valve 30KAB30AA056 has 2<sup>N</sup> and 2<sup>A</sup> divisions - division 1 appears to be missing.
- Table 2.7.1-3, "Component Cooling Water System ITAAC", ITAAC 7.3 (Page 2.7-28), Acceptance Criteria column – trains 1 and 4 flow rate of  $2.1906 \times 10^6$  lbm/hr is different from trains 2 and 3 flow rate of  $2.984 \times 10^6$  lbm/hr and does not agree with Tier 2, Table 9.2.2-2 which has a maximum flow rate of  $2.984 \times 10^6$  lbm/hr.

The staff reviewed U.S. EPR Tier 1, FSAR Revision 5, Section 2.7.2, "Safety Chilled Water System," and found the following discrepancies:

- In Section 3.0 "Mechanical Design Features," Items 3.3 and 3.5 appear to be the same ITAAC.
- Table 2.7.2-3 "SCWS Air Cooled Division Equipment Mechanical Design", Sheet 1 of 2 (Page 2.7-51), Column 'Tag Number' – need to check condenser fan # 21-24 and 35-38. In accordance with Figure 2.7.2-2, condenser fan tag numbers are #21-28.
- Table 2.7.2-3, Sheet 2 of 2 (Page 2.7-52), Column 'Tag Number' – need to check condenser fan # 21-24 and 35-38. In accordance with Figure 2.7.2-2, condenser fan tag numbers are #21-28.
- Table 2.7.2-4 "SCWS Air Cooled Division Equipment I&C and Electrical Design" (Page 2.7-53), Column 'Tag Number' – need to check condenser fan # 21-24 and 35-38. In accordance with Figure 2.7.2-2, condenser fan tag numbers are #21-28.
- Table 2.7.2-5 (Page 2.7-55 and -57), ITAACs 3.5 and 3.19 have the same wording.

Staff requests that AREVA clarify the above discrepancies.

**Response to Question 14.03.07-40:**

A response to this question will be provided by February 7<sup>th</sup>, 2014.