

## ArevaEPRDCPEm Resource

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**From:** Miernicki, Michael  
**Sent:** Wednesday, October 23, 2013 3:11 PM  
**To:** ArevaEPRDCPEm Resource  
**Subject:** FW: Response to US EPR DC FINAL RAI 603 - Chapter 9.02.02, Reactor Auxiliary Cooling Water Systems - Question 25159  
**Attachments:** RAI 603 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:** Hearn, Peter; 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 603 - Chapter 9.02.02, Reactor Auxiliary Cooling Water Systems - Question 25159

Mike,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 603 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 603 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 603 — 09.02.02-123	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 603 — 09.02.02-123	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  
Mobile 434-485-4239

[nathan.hottle@areva.com](mailto:nathan.hottle@areva.com)

**From:** Snyder, Amy [<mailto:Amy.Snyder@nrc.gov>]

**Sent:** Thursday, September 19, 2013 3:44 PM

**To:** ZZ-DL-A-USEPR-DL

**Cc:** McKenna, Eileen; Wheeler, Larry; Hearn, Peter; Segala, John; Miernicki, Michael; Gleaves, Bill

**Subject:** FW: US EPR DC FINALRAI 603 - Chapter 9.02.02, Reactor Auxiliary Cooling Water Systems - Question 25159

Attached please find the subject request for additional information (RAI). A draft RAI was provided to you on September 11, 2013. On September 19, 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 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

 Office: (301) 415-6822

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**From:** Snyder, Amy

**Sent:** Wednesday, September 11, 2013 1:44 PM

**To:** 'usepr@areva.com' ([usepr@areva.com](mailto:usepr@areva.com))

**Cc:** McKenna, Eileen; Wheeler, Larry; Hearn, Peter; Segala, John; Miernicki, Michael; Gleaves, Bill

**Subject:** US EPR DC DRAFT RAI 603 - Chapter 9.02.02, Reactor Auxiliary Cooling Water Systems - Question 25159

Attached please find Draft RAI No. 603 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)

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**Hearing Identifier:** AREVA\_EPR\_DC\_RAIs  
**Email Number:** 4709

**Mail Envelope Properties** (9C2386A0C0BC584684916F7A0482B6CAEAF42FC737)

**Subject:** FW: Response to US EPR DC FINAL RAI 603 - Chapter 9.02.02, Reactor  
Auxiliary Cooling Water Systems - Question 25159  
**Sent Date:** 10/23/2013 3:11:22 PM  
**Received Date:** 10/23/2013 3:11:24 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	4490	10/23/2013 3:11:24 PM
RAI 603 Response US EPR DC.PDF		61537

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

**Response to**

**Request for Additional Information No.603**

**9/11/2013**

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

**AREVA NP Inc.**

**Docket No. 52-020**

**SRP Section: 09.02.02 - Reactor Auxiliary Cooling Water Systems**

**Application Section: 09.02.02**

**SRSB Branch**

**Question 09.02.02-123:**

In accordance with 10 CFR50 Appendix A and GDC 44, cooling water must have the capability to transfer heat from systems, structures, systems, and components (SSCs) important to safety to an ultimate heat sink during both normal and accident conditions, with suitable redundancy, assuming a single active component failure coincident with either the loss of offsite power or loss of onsite power.

Based on the staff's review of US-EPR FSAR Revision 5, the following questions are needed related to the component cooling water system (CCWS) and SSCs important to safety.

1. FSAR Tier 2 Table 9.2.2-4, "Power Supplies for CCWS Valves", has missing information related to containment isolation valves KAB30AA050 and KAB30AA054 for the thermal barrier. According to FSAR Tier 1 Table 2.7.1-2, "CCWS Equipment I&C and Electrical Design," these valves are motor operated valves. The power supplies for these valves should also be added to Table 9.2.2-4.
2. FSAR Tier 2 Table 9.2.2-4, "Power Supplies for CCWS Valves", has conflicting divisional power information related to containment isolation valves KAB30AA053/55/56 for the thermal barrier. According to FSAR Tier 1 Table 2.7.1-2, "CCWS Equipment I&C and Electrical Design," these valves have different power supplies than the Tier 2 Table 9.2.2-4. In Tier 1, KAB30AA053 power is shown as Division 2, KAB30AA055 power is shown as Division 3, and KAB30AA056 power is shown as Division 2. In FSAR Tier 2 Table 9.2.2-4, KAB30AA053 power is shown as Division 4, KAB30AA054 power is shown as Division 1, and KAB30AA056 power is shown as Division 4.

See response to RAI 406, Question 09.02.02-114 for additional information related to these changes to Revision 4 of the FSAR.

These items should be corrected in the FSAR.

**Response to Question 09.02.02-123:**

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