

## ArevaEPRDCPEm Resource

---

**From:** KOWALSKI David (AREVA) [David.Kowalski@areva.com]  
**Sent:** Monday, June 17, 2013 6:10 PM  
**To:** Snyder, Amy  
**Cc:** Ford, Tanya; ANDERSON Katherine (EXTERNAL AREVA); DELANO Karen (AREVA); LEIGHLITER John (AREVA); LEWIS Ray (EXTERNAL AREVA); ROMINE Judy (AREVA); RYAN Tom (AREVA); SHEPHERD Tracey (AREVA); VANCE Brian (AREVA); GUCWA Len (EXTERNAL AREVA); KOWALSKI David (AREVA); PEDERSON Ronda (AREVA); WILLIFORD Dennis (AREVA)  
**Subject:** Submittal of Technical Reports ANP-10296, Revision 2, and ANP-10317, Revision 2  
**Attachments:** nrc13043.pdf

Amy,

AREVA NP Inc. letter NRC:13:043 (attached) dated June 17, 2013 transmitted to NRC Revision 2 to Technical Report ANP-10296, "U.S. EPR Design Features that Enhance Security Technical Report," and Revision 2 to ANP-10317, "Design Requirements for U.S. EPR Aircraft Hazard Protection Structures Technical Report." AREVA NP submitted these revisions in support of AREVA NP's response to RAI 565, Supplement 2. AREVA NP has incorporated these reports by reference in the U.S. EPR Final Safety Analysis Report (FSAR). The reports contain Sensitive Unclassified Non-Safeguards Information (SUNSI). SUNSI and public versions of the reports are provided on CDs via separate transmittal.

Sincerely,

**David J. Kowalski, P.E.**

Senior Licensing Engineer

Regulatory Affairs

**AREVA Inc.**

7207 IBM Drive, Charlotte, NC 28262

Phone: 704-805-2590

Mobile: 704-293-3346

**Email:** [David.Kowalski@areva.com](mailto:David.Kowalski@areva.com)

---

**From:** WILLIFORD Dennis (RS/NB)  
**Sent:** Friday, April 26, 2013 5:16 PM  
**To:** Amy.Snyder@nrc.gov  
**Cc:** Ford, Tanya; ANDERSON Katherine (External AREVA NP INC.); DELANO Karen (RS/NB); LEIGHLITER John (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB); PEDERSON Ronda (FE/FL); LEWIS Ray (External RS/NB)  
**Subject:** Response to U.S. EPR Design Certification Application FINAL RAI No. 565 (6933), FSAR Ch. 19 - NEW PHASE 4 RAI - AIA Methodology, Supplement 1

Amy,

AREVA NP Inc. provided a schedule for a technically correct and complete response to the seven questions in RAI No. 565 on January 23, 2013.

The attached file, "RAI 565 Supplement 1 US EPR DC –PUBLIC.pdf," provides a technically correct and complete final response to the seven questions in RAI No. 565. Because the response file contains security-related sensitive information that should be withheld from public disclosure in accordance with 10 CFR 2.390, a public version is provided with the security-related sensitive information redacted. This email and attached file do not contain any security-related information. An unredacted security-related version is provided under separate email.

NRC staff comments, received on April 24, 2013 on the Advanced Response to these RAI questions, requested that AREVA consider adding the Radioactive Waste Processing Building (RWPB) sliding concrete barrier door to Table 3.2.2-1 of the U.S. EPR FSAR. U.S. EPR FSAR Tier 2, Section 3.2.2 states that Table 3.2.2-1 – Classification Summary lists the quality group classification of the U.S. EPR pressure-retaining components, such as pressure vessels, heat exchangers, tanks, pumps, piping, and valves. Therefore, AREVA believes that the RWPB sliding concrete door should not be included in FSAR Tier 2, Table 3.2.2-1 since it is not a pressure-retaining component.

Appended to this file are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which support the response to RAI 565 Questions 19-357, 19-358, 19-359, 19-360, 19-361 and 19-363.

AREVA Technical Report ANP-10295 contains Safeguards Information (SGI), and is being sent under separate letter transmittal. In addition, AREVA Technical Reports ANP-10296 and ANP-10317 contain SUNSI information. A public version with the Security Sensitive Information redacted will be sent separately.

The following table indicates the respective pages in the response document, “RAI 565 Supplement 1 US EPR DC – PUBLIC.pdf,” that contain AREVA NP’s response to the subject questions.

Question #	Start Page	End Page
RAI 565 — 19-357	2	2
RAI 565 — 19-358	3	5
RAI 565 — 19-359	6	7
RAI 565 — 19-360	8	9
RAI 565 — 19-361	10	10
RAI 565 — 19-362	11	11
RAI 565 — 19-363	12	13

This concludes the formal AREVA NP response to RAI 565, and there are no questions from this RAI for which AREVA NP has not provided responses.

Sincerely,

**Dennis Williford, P.E.**  
**U.S. EPR Design Certification Licensing Manager**  
**AREVA NP Inc.**

7207 IBM Drive, Mail Code CLT 2B  
 Charlotte, NC 28262  
 Phone: 704-805-2223  
 Email: [Dennis.Williford@areva.com](mailto:Dennis.Williford@areva.com)

---

**From:** WILLIFORD Dennis (RS/NB)  
**Sent:** Wednesday, January 23, 2013 3:43 PM  
**To:** 'Snyder, Amy'  
**Cc:** WELLS Russell (RS/NB); [tanya.ford@nrc.gov](mailto:tanya.ford@nrc.gov); DELANO Karen (RS/NB); LEIGHLITER John (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB); WILLS Tiffany (CORP/QP); [Michael.Miernicki@nrc.gov](mailto:Michael.Miernicki@nrc.gov)  
**Subject:** Response to U.S. EPR Design Certification Application FINAL RAI No. 565 (6933), FSAR Ch. 19 - NEW PHASE 4 RAI - AIA Methodology

Amy,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 565 Response US EPR DC.pdf," provides a schedule since a technically correct and complete response to the 7 questions cannot be provided at this time.

The following table indicates the respective pages in the response document, "RAI 565 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 565 — 19-357	2	2
RAI 565 — 19-358	3	3
RAI 565 — 19-359	4	4
RAI 565 — 19-360	5	5
RAI 565 — 19-361	6	6
RAI 565 — 19-362	7	7
RAI 565 — 19-363	8	8

The schedule for a technically correct and complete response to these 7 questions is provided below.

Question #	Response Date
RAI 565 — 19-357	April 26, 2013
RAI 565 — 19-358	April 26, 2013
RAI 565 — 19-359	April 26, 2013
RAI 565 — 19-360	April 26, 2013
RAI 565 — 19-361	April 26, 2013
RAI 565 — 19-362	April 26, 2013
RAI 565 — 19-363	April 26, 2013

Sincerely,

**Dennis Williford, P.E.**  
**U.S. EPR Design Certification Licensing Manager**  
**AREVA NP Inc.**

7207 IBM Drive, Mail Code CLT 2B  
 Charlotte, NC 28262  
 Phone: 704-805-2223  
 Email: [Dennis.Williford@areva.com](mailto:Dennis.Williford@areva.com)

---

**From:** Snyder, Amy [<mailto:Amy.Snyder@nrc.gov>]  
**Sent:** Friday, December 14, 2012 3:19 PM  
**To:** ZZ-DL-A-USEPR-DL  
**Cc:** Ford, Tanya; Vettori, Robert; Lee, Samuel; ArevaEPRDCPEm Resource; Segala, John; McKenna, Eileen; Miernicki, Michael  
**Subject:** U.S. EPR Design Certification Application FINAL RAI No. 565 (6933), FSAR Ch. 19 - NEW PHASE 4 RAI - AIA Methodology

Attached please find the subject request for additional information (RAI). A draft of the RAI was provided to you on November 23, 2012, and discussed with your staff on December 3, 2012. Draft RAI Question 19-363 was modified as a result of those discussions. On December 11, 2012, you informed us that the RAI does not contain AREVA Proprietary information or SGI information and that the draft RAI with the modifications is clear and 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, excluding the time period of **December 24, 2011 thru January 2, 2012, to account for the holiday season** as discussed with AREVA NP Inc on November 28, 2012. For any RAIs that cannot be answered **within 40 days or January 23, 2012**, it is expected that a date for receipt of this information will be provided to the staff within the 40-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

 Fax: (301) 415-6406

 Mail Stop: T6-C20M

 E-mail: [Amy.Snyder@nrc.gov](mailto:Amy.Snyder@nrc.gov)

**Hearing Identifier:** AREVA\_EPR\_DC\_RAIs  
**Email Number:** 4560

**Mail Envelope Properties** (B13FF3C366E1F64F8CF2CE718C679922130A75)

**Subject:** Submittal of Technical Reports ANP-10296, Revision 2, and ANP-10317, Revision 2  
**Sent Date:** 6/17/2013 6:10:27 PM  
**Received Date:** 6/17/2013 6:10:36 PM  
**From:** KOWALSKI David (AREVA)

**Created By:** David.Kowalski@areva.com

**Recipients:**

"Ford, Tanya" <Tanya.Ford@nrc.gov>  
Tracking Status: None  
"ANDERSON Katherine (EXTERNAL AREVA)" <katherine.anderson.ext@areva.com>  
Tracking Status: None  
"DELANO Karen (AREVA)" <Karen.Delano@areva.com>  
Tracking Status: None  
"LEIGHLITER John (AREVA)" <John.Leighliter@areva.com>  
Tracking Status: None  
"LEWIS Ray (EXTERNAL AREVA)" <Ray.Lewis.ext@areva.com>  
Tracking Status: None  
"ROMINE Judy (AREVA)" <Judy.Romine@areva.com>  
Tracking Status: None  
"RYAN Tom (AREVA)" <Tom.Ryan@areva.com>  
Tracking Status: None  
"SHEPHERD Tracey (AREVA)" <Tracey.Shepherd@areva.com>  
Tracking Status: None  
"VANCE Brian (AREVA)" <Brian.Vance@areva.com>  
Tracking Status: None  
"GUCWA Len (EXTERNAL AREVA)" <Len.Gucwa.ext@areva.com>  
Tracking Status: None  
"KOWALSKI David (AREVA)" <David.Kowalski@areva.com>  
Tracking Status: None  
"PEDERSON Ronda (AREVA)" <Ronda.Pederson@areva.com>  
Tracking Status: None  
"WILLIFORD Dennis (AREVA)" <Dennis.Williford@areva.com>  
Tracking Status: None  
"Snyder, Amy" <Amy.Snyder@nrc.gov>  
Tracking Status: None

**Post Office:** FUSLYNCMX03.fdom.ad.corp

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	8022	6/17/2013 6:10:36 PM
nrc13043.pdf	103285	

**Options**  
**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal

**Expiration Date:**  
**Recipients Received:**



SECURITY-RELATED INFORMATION – WITHHOLD UNDER 10 CFR 2.390

June 17, 2013  
NRC:13:043

U.S. Nuclear Regulatory Commission  
Document Control Desk  
11555 Rockville Pike  
Rockville, MD 20852

**AREVA NP Inc. Technical Reports ANP-10296, Revision 2, "U.S. EPR Design Features that Enhance Security Technical Report," and ANP-10317, Revision 2, "Design Requirements for the U.S. EPR Aircraft Hazard Protection Structures Technical Report"**

AREVA NP Inc. (AREVA NP) revised the U.S. EPR Aircraft Crash Hazards (ACH) Analysis to be consistent with NEI 07-13, Revision 8, (Reference 1). AREVA NP is submitting the enclosed revisions to ANP-10296, Revision 2, "U.S. EPR Design Features that Enhance Security Technical Report," and ANP-10317, Revision 2, "Design Requirements for the U.S. EPR Aircraft Hazard Protection Structures Technical Report," previously transmitted by References 2 through 4, to be consistent with the ACH Analysis and in support of AREVA NP's response to NRC Request for Additional Information (RAI) 565. The reports contain Sensitive Unclassified Non-Safeguards Information (SUNSI) material.

There are no new commitments contained within this correspondence.

SUNSI and public versions of the technical reports are provided on the enclosed CDs. The documents on the SUNSI CDs contain Security-Related Information and should be withheld from public disclosure in accordance with 10 CFR 2.390.

If you have any questions related to this information, please contact Len Gucwa by telephone at (434)832-3466, or by e-mail at [Len.Gucwa.ext@areva.com](mailto:Len.Gucwa.ext@areva.com).

Sincerely,

A handwritten signature in black ink, appearing to read 'Pedro Salas', is written over the typed name.

Pedro Salas, Director  
Regulatory Affairs  
AREVA NP Inc.

The attachment to this letter contains security related information. Upon separation from the attachment, this letter is decontrolled.

SECURITY-RELATED INFORMATION – WITHHOLD UNDER 10 CFR 2.390

**AREVA INC.**

3315 Old Forest Road, P.O. Box 10935, Lynchburg, VA 24506-0935  
Tel.: 434 832 3000 [www.areva.com](http://www.areva.com)

cc: A.M. Snyder  
Docket No. 52-020

Enclosures:

1. SUNSI Version of ANP-10296, Revision 2, "U.S. EPR Design Features that Enhance Security Technical Report" (on CD).
2. Public Version of ANP-10296, Revision 2, "U.S. EPR Design Features that Enhance Security Technical Report" (on CD).
3. SUNSI Version of ANP-10317, Revision 2, "Design Requirements for the U.S. EPR Aircraft Hazard Protection Structures Technical Report" (on CD).
4. Public Version of ANP-10317, Revision 2, "Design Requirements for the U.S. EPR Aircraft Hazard Protection Structures Technical Report" (on CD).

References:

- Ref. 1: NEI 07-13, Revision 8, "Methodology for Performing Aircraft Impact Assessments for New Plant Designs," April 2011.
- Ref. 2: Letter, Sandra M. Sloan (AREVA NP Inc.) to Document Control Desk (NRC), "Submittal of ANP-10296-000, 'AREVA NP U.S. EPR Design Features that Enhance Security Technical Report'," NRC:08:096, December 5, 2008.
- Ref. 3: Letter, Sandra M. Sloan (AREVA NP Inc.) to Document Control Desk (NRC), "AREVA NP Technical Report ANP-10317, Revision 0, 'Design Requirements for the U.S. EPR Aircraft Hazard Protection Structures Technical Report'," NRC:11:041, May 6, 2011.
- Ref. 4: Letter, Pedro Salas (AREVA NP Inc.) to Document Control Desk (NRC), "AREVA NP Inc. Technical Reports ANP-10296, Revision 1, 'U.S. EPR Design Features that Enhance Security Technical Report,' and ANP-10317, Revision 1, 'Design Requirements for the U.S. EPR Aircraft Hazard Protection Structures Technical Report'," NRC:13:022, April 26, 2013.