

## ArevaEPRDCPEm Resource

---

**From:** Pederson Ronda M (AREVA NP INC) [Ronda.Pederson@areva.com]  
**Sent:** Wednesday, January 14, 2009 1:56 PM  
**To:** Getachew Tesfaye  
**Cc:** PANNELL George L (AREVA NP INC); DELANO Karen V (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 60, Supplement 1  
**Attachments:** RAI 60 Supplement 1 Response US EPR DC.pdf

Getachew,

AREVA NP Inc. provided responses to 7 of the 20 questions of RAI No. 60 on October 13, 2008. The attached file, "RAI 60 Supplement 1 Response US EPR DC.pdf," provides technically correct and complete responses to 1 of the remaining 13 questions, as committed.

The following table indicates the respective page in the response document, "RAI 60 Supplement 1 Response US EPR DC.pdf," that contains AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 60 — 07.03-15	2	2

The schedule for technically correct and complete responses to the remaining 12 questions is unchanged and provided below:

Question #	Response Date
RAI 60 — 07.03-1	March 31, 2009
RAI 60 — 07.03-2	March 3, 2009
RAI 60 — 07.03-7	March 31, 2009
RAI 60 — 07.03-8	March 31, 2009
RAI 60 — 07.03-9	March 31, 2009
RAI 60 — 07.03-10	March 31, 2009
RAI 60 — 07.03-11	March 31, 2009
RAI 60 — 07.03-12	March 31, 2009
RAI 60 — 07.03-13	March 31, 2009
RAI 60 — 07.03-14	March 31, 2009
RAI 60 — 07.03-17	March 31, 2009
RAI 60 — 07.03-19	March 31, 2009

Sincerely,

*Ronda Pederson*

[ronda.pederson@areva.com](mailto:ronda.pederson@areva.com)

Licensing Manager, U.S. EPR Design Certification

**AREVA NP Inc.**

An AREVA and Siemens company

3315 Old Forest Road

Lynchburg, VA 24506-0935

Phone: 434-832-3694

Cell: 434-841-8788

---

**From:** Pederson Ronda M (AREVA NP INC)  
**Sent:** Wednesday, November 26, 2008 3:49 PM  
**To:** 'Getachew Tesfaye'  
**Cc:** PANNELL George L (AREVA NP INC); DELANO Karen V (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 60, FSAR Ch 7, Revised Schedule

Getachew,

On October 13, 2008, AREVA NP provided technically correct and complete responses to 7 of the 20 questions and a schedule for responding to the remaining 13 questions of RAI No. 60. On October 22, 2008, a public meeting was held between AREVA NP Inc. and the NRC to discuss the U.S. EPR FSAR Chapter 7 and RAI No.'s 56 through 61.

A revised schedule for a technically correct and complete response to each of the remaining 13 questions of RAI No. 60 is provided below.

<b>Question #</b>	<b>Response Date</b>
RAI 60 — 07.03-1	March 31, 2009
RAI 60 — 07.03-2	March 3, 2009
RAI 60 — 07.03-7	March 31, 2009
RAI 60 — 07.03-8	March 31, 2009
RAI 60 — 07.03-9	March 31, 2009
RAI 60 — 07.03-10	March 31, 2009
RAI 60 — 07.03-11	March 31, 2009
RAI 60 — 07.03-12	March 31, 2009
RAI 60 — 07.03-13	March 31, 2009
RAI 60 — 07.03-14	March 31, 2009
RAI 60 — 07.03-15	January 15, 2009
RAI 60 — 07.03-17	March 31, 2009
RAI 60 — 07.03-19	March 31, 2009

Sincerely,

*Ronda Pederson*

[ronda.pederson@areva.com](mailto:ronda.pederson@areva.com)

Licensing Manager, U.S. EPR(TM) Design Certification

**AREVA NP Inc.**

An AREVA and Siemens company

3315 Old Forest Road

Lynchburg, VA 24506-0935

Phone: 434-832-3694

Cell: 434-841-8788

---

**From:** WELLS Russell D (AREVA NP INC)  
**Sent:** Monday, October 13, 2008 6:07 PM  
**To:** 'Getachew Tesfaye'  
**Cc:** 'John Rycyna'; Pederson Ronda M (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V

(AREVA NP INC)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 60, FSAR Ch 7

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 60 Response US EPR DC.pdf" provides technically correct and complete responses to 7 of the 20 questions.

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 60 Questions 07.03-3, and 07.03-5.

The following table indicates the respective pages in the response document, "RAI 60 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

<b>Question #</b>	<b>Start Page</b>	<b>End Page</b>
RAI 60 — 07.03-1	2	2
RAI 60 — 07.03-2	3	3
RAI 60 — 07.03-3	4	4
RAI 60 — 07.03-4	5	5
RAI 60 — 07.03-5	6	6
RAI 60 — 07.03-6	7	8
RAI 60 — 07.03-7	9	9
RAI 60 — 07.03-8	10	10
RAI 60 — 07.03-9	11	11
RAI 60 — 07.03-10	12	12
RAI 60 — 07.03-11	13	13
RAI 60 — 07.03-12	14	14
RAI 60 — 07.03-13	15	15
RAI 60 — 07.03-14	16	16
RAI 60 — 07.03-15	17	17
RAI 60 — 07.03-16	18	19
RAI 60 — 07.03-17	20	20
RAI 60 — 07.03-18	21	21
RAI 60 — 07.03-19	22	22
RAI 60 — 07.03-20	23	23

A complete answer is not provided for 13 of the 20 questions. The schedule for a technically correct and complete response to this question is provided below.

<b>Question #</b>	<b>Response Date</b>
RAI 60 — 07.03-1	December 4, 2008
RAI 60 — 07.03-2	December 4, 2008
RAI 60 — 07.03-7	December 4, 2008
RAI 60 — 07.03-8	December 4, 2008
RAI 60 — 07.03-9	December 4, 2008
RAI 60 — 07.03-10	December 4, 2008
RAI 60 — 07.03-11	December 4, 2008
RAI 60 — 07.03-12	December 4, 2008
RAI 60 — 07.03-13	December 4, 2008
RAI 60 — 07.03-14	December 4, 2008
RAI 60 — 07.03-15	December 4, 2008
RAI 60 — 07.03-17	December 4, 2008
RAI 60 — 07.03-19	December 4, 2008

Sincerely,

(Russ Wells on behalf of)

*Ronda Pederson*

[ronda.pederson@areva.com](mailto:ronda.pederson@areva.com)

Licensing Manager, U.S. EPR Design Certification

New Plants Deployment

**AREVA NP, Inc.**

An AREVA and Siemens company

3315 Old Forest Road

Lynchburg, VA 24506-0935

Phone: 434-832-3694

Cell: 434-841-8788

---

**From:** Getachew Tesfaye [mailto:Getachew.Tesfaye@nrc.gov]

**Sent:** Friday, September 12, 2008 6:02 PM

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

**Cc:** Wendell Morton; Terry Jackson; Michael Canova; Joseph Colaccino; John Rycyna

**Subject:** U.S. EPR Design Certification Application RAI No. 60 (957), FSAR Ch7

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on August 26, 2008, and on September 5, 2008, 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:** 118

**Mail Envelope Properties** (5CEC4184E98FFE49A383961FAD402D3197A971)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 60, Supplement 1  
**Sent Date:** 1/14/2009 1:56:14 PM  
**Received Date:** 1/14/2009 1:56:19 PM  
**From:** Pederson Ronda M (AREVA NP INC)

**Created By:** Ronda.Pederson@areva.com

**Recipients:**

"PANNELL George L (AREVA NP INC)" <George.Pannell@areva.com>

Tracking Status: None

"DELANO Karen V (AREVA NP INC)" <Karen.Delano@areva.com>

Tracking Status: None

"BENNETT Kathy A (OFR) (AREVA NP INC)" <Kathy.Bennett@areva.com>

Tracking Status: None

"Getachew Tesfaye" <Getachew.Tesfaye@nrc.gov>

Tracking Status: None

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

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	7025	1/14/2009 1:56:19 PM
RAI 60 Supplement 1 Response US EPR DC.pdf		55427

**Options**

**Priority:** Standard

**Return Notification:** No

**Reply Requested:** No

**Sensitivity:** Normal

**Expiration Date:**

**Recipients Received:**

**Response to**

**Request for Additional Information No. 60, Supplement 1**

**9/12/2008**

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

**AREVA NP Inc.**

**Docket No. 52-020**

**SRP Section: 07.03 - Engineered Safety Features Systems**

**Application Section: 7.3**

**ICE1 Branch**

**Question 07.03-15:**

Describe how the Protection System (ESFAS) for the U.S. EPR, as described in the DC FSAR, will Adequately satisfy the functionality and capabilities IEEE Std. 603-1991, Clause 4.12

IEEE Std. 603-1991, Clause 4.12 requires documentation of any special design basis imposed on the system design. This clause is not addressed in DC-FSAR Section 7.3 and there is insufficient detail in DC-FSAR Section 7.1.2.6.11 to make any evaluation concerning Clause 4.12.

**Response to Question 07.03-15:**

The safety-related instrumentation and controls (I&C) systems are analyzed for potential software common cause failure, which U.S. EPR FSAR Tier 2, Section 7.1.2.6.11 correctly identifies as a special design basis. This special design basis is applicable to the engineered safety feature actuation system (ESFAS) functionality of the protection system (PS).

There are no other special design bases applicable to the ESFAS functionality of the PS.

**FSAR Impact:**

The U.S. EPR FSAR will not be changed as a result of this question.