

ArevaEPRDCPEm Resource

From: Pederson Ronda M (AREVA NP INC) [Ronda.Pederson@areva.com]
Sent: Monday, June 22, 2009 3:54 PM
To: Tesfaye, Getachew
Cc: BEELMAN Ronald J (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. 1, FSAR Ch 6, Supplement 5

Getachew,

AREVA NP, Inc. provided responses to 6 of the 10 questions of RAI No. 1 on May 9, 2008. Supplement 1 response to RAI No. 1 was sent on September 05, 2008 to address Question 06.02.01-10. Supplement 2 response to RAI No. 1 was sent on December 19, 2008 to provide additional information concerning containment foils and dampers. Supplement 3 to RAI No.1, containing AREVA NP, Inc. Containment Technical Report, ANP-10299P, was sent on January 28, 2009, and provided a technically correct and complete response to 1 of the remaining questions. Supplement 4 response to RAI No. 1 was sent on June 10, 2009 to address 1 of the remaining questions.

Pursuant to the NRC audit conducted in April, the U.S. EPR GOTHIC multi-node containment model has undergone substantial nodal changes that prevent a response according to the original RAI schedule. The schedule for technically correct and complete responses to the remaining questions has been changed and is provided below.

Question #	Response Date
RAI 01 — 06.02.01-01	July 31, 2009
RAI 01 — 06.02.01-07	August 27, 2009

Sincerely,

Ronda Pederson

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: WELLS Russell D (AREVA NP INC)
Sent: Friday, May 22, 2009 1:22 PM
To: 'Getachew Tesfaye'
Cc: 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. 1, FSAR Ch 6, Supplement 4

Getachew,

AREVA NP, Inc. (AREVA NP) provided responses to 6 of the 10 questions of RAI No. 1 on May 9, 2008. On January 27, 2009, replacement pages 28 and 29 were provided for the original response. Supplement 1 response to RAI No. 1 was sent on September 05, 2008 to address Question 06.02.01-10. Supplement 2 response to RAI No. 1 was sent on December 19, 2008 to provide additional information concerning containment foils and dampers. AREVA NP Technical Report ANP-10299P, "Applicability of AREVA NP Containment Response Evaluation Methodology to the U.S. EPR™ for Large Break LOCA Analysis," submitted via AREVA NP letter NRC:09:006, dated January 28, 2009, provided technically correct and complete responses to 1 of the 4 remaining questions in RAI No. 01.

Attached please find AREVA NP Inc.'s supplemental response to the subject request for additional information (RAI). The attached file, "RAI 1 Supplement 4 Response US EPR DC.pdf" provides technically correct and complete responses to 1 of the 3 remaining questions.

The following table indicates the respective pages in the response document, "RAI 1 Supplement 4 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 01 — 06.02.01-01.a	2	4
RAI 01 — 06.02.01-01.c.4	2	4
RAI 01 — 06.02.01-03.b	5	5

The schedule for technically correct and complete responses to the remaining two questions has been changed and is provided below:

Question #	Response Date
RAI 01 — 06.02.01-01	July 31, 2009
RAI 01 — 06.02.01-07	June 23, 2009

Sincerely,

(Russ Wells on behalf of)

Ronda Pederson

ronda.pederson@areva.com

Licensing Manager, U.S. EPR Design Certification

New Plants Deployment

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From: Pederson Ronda M (AREVA NP INC)

Sent: Wednesday, January 28, 2009 7:17 PM

To: Getachew Tesfaye

Cc: BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); BEELMAN Ronald J (AREVA NP INC)

Subject: Response to U.S. EPR Design Certification Application RAI No. 1, Supplement 3

Getachew,

AREVA NP, Inc. provided responses to 6 of the 10 questions of RAI No. 1 on May 9, 2008. On January 27, 2009, replacement pages 28 and 29 were provided for the original response. RAI No. 1, Supplement 1 response was sent on September 05, 2008 to address Question 06.02.01-10. RAI No. 1, Supplement 2

response was sent on December 19, 2008 to provide additional information concerning containment foils and dampers.

The proprietary and non-proprietary versions of the Containment Technical Report, ANP-10299, are submitted via AREVA NP, Inc. letter, "Submittal of ANP-10299P, 'Applicability of AREVA NP Containment Response Evaluation Methodology to the U.S. EPR™ for Large Break LOCA Analysis Technical Report'," NRC:09:006, dated January 28, 2009.

The following table indicates the RAI No. 1 questions that are answered in the subject technical report.

Question #
RAI 01 — 06.02.01-01
RAI 01 — 06.02.01-01.b
RAI 01 — 06.02.01-01.c.1
RAI 01 — 06.02.01-01.c.2
RAI 01 — 06.02.01-01.c.3
RAI 01 — 06.02.01-01.c.5
RAI 01 — 06.02.01-01.c.6
RAI 01 — 06.02.01-02
RAI 01 — 06.02.01-03.a

The schedule for technically correct and complete responses to the remaining questions has been revised and is provided below:

Question #	Response Date
RAI 01 — 06.02.01-01.a	May 22, 2009
RAI 01 — 06.02.01-01.c.4	May 22, 2009
RAI 01 — 06.02.01-03.b	May 22, 2009
RAI 01 — 06.02.01-07.d	June 23, 2009

Sincerely,

Ronda Pederson

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From: Pederson Ronda M (AREVA NP INC)

Sent: Tuesday, January 27, 2009 3:54 PM

To: 'Getachew Tesfaye'

Cc: BEELMAN Ronald J (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. 1, FSAR Ch 6, Revised pages

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 6 of the 10 questions of RAI No. 1 on May 9, 2008. Attached are AREVA NP's replacement pages (28 and 29) for the Response to U.S. EPR Design Certification Application RAI No. 1.

The attached file, "RAI 1 Response (revised pages 28 and 29) US EPR DC.pdf" provides two corrected pages of Table 6.2.1-07-3, which replace pages 28 and 29 of the 55 page response document. AREVA NP has determined that the information struck out in the attached document is obsolete and the reviewer should refer to the AREVA NP's Response to U.S. EPR Design Certification Application RAI No. 1, Supplement 2 for the relevant information. The submittal of incorrect information has been entered into AREVA NP's corrective action program.

The following table indicates the respective pages in the attached response document, "RAI 1 Response (revised pages 28 and 29) US EPR DC.pdf," that contain AREVA NP's revised pages to the subject question.

Question #	Start Page	End Page
RAI 1 — 6.2.1-07c	1	2

The schedule for technically correct and complete responses to the remaining RAI No. 1 questions is provided below and remains unchanged.

Question #	Response Date
RAI 1—6.2.1-01	January 28, 2009
RAI 1—6.2.1-02	January 28, 2009
RAI 1—6.2.1-03	January 28, 2009
RAI 1—6.2.1-07d	January 28, 2009

Sincerely,

Ronda Pederson

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From: WELLS Russell D (AREVA NP INC)

Sent: Friday, December 19, 2008 5:12 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); SLIVA Dana (EXT)

Subject: Response to U.S. EPR Design Certification Application RAI No. 1, FSAR Ch 6, Supplement 2

Getachew,

During the October 31, 2008 meeting between NRC and AREVA NP at NRC Headquarters to discuss U.S. EPR containment analysis, AREVA NP committed to providing additional information concerning containment

foils and dampers. AREVA NP's original response, dated May 9, 2008, to RAI-1 Questions 6.2.1-07a and 6.2.1.-07b are hereby superseded by this supplemental response.

Appended to this file are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which support the revised response to RAI 1 Questions 6.2.1-07a and 6.2.1-07b.

The following table indicates the respective pages in the attached response document, "RAI 1 Response Supplement 2 US EPR DC.pdf," that contain AREVA NP's revised response to the subject questions.

Question #	Start Page	End Page
RAI 1 — 6.2.1-07	2	4

The schedule for technically correct and complete responses to the remaining RAI No. 1 questions is provided below and remains unchanged.

Question #	Response Date
RAI 1—6.2.1-01	January 28, 2009
RAI 1—6.2.1-02	January 28, 2009
RAI 1—6.2.1-03	January 28, 2009
RAI 1—6.2.1-07c and -07d	January 28, 2009

Sincerely,

(Russ Wells on behalf of)

Ronda Pederson

ronda.pederson@areva.com

Licensing Manager, U.S. EPR Design Certification

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From: Pederson Ronda M (AREVA NP INC)

Sent: Friday, September 05, 2008 1:42 PM

To: 'Getachew Tesfaye'

Cc: 'John Rycyna'; WELLS Russell D (AREVA NP INC); DUNCAN Leslie E (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC)

Subject: FW: Response to U.S. EPR Design Certification Application RAI No. 1, Question 06.02.01-10, Supplement 1

Getachew,

Attached is the AREVA NP Inc. supplemental response to the RAI No. 1, Question 06.02.01-10. AREVA NP Inc. provided responses to 6 of the 10 "RAI No. 1" questions on May 9, 2008. The attached file, "RAI 1, Question 06.02.01-10 Supplement 1 Response US EPR DC.pdf" provides a correct Figure 6.2.1-10-3, which replaces the previously submitted Figure 6.2.1-10-3. The submittal of an incorrect figure has been entered into AREVA NP Inc.'s corrective action program.

The following table provides the page in the response document, “RAI 1, Question 06.02.01-10 Supplement 1 Response US EPR DC.pdf” containing the supplemental information.

Question #	Start Page	End Page
RAI 1 — 06.02.01-10	2	2

Sincerely,

Ronda Pederson

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From: Pederson Ronda M (AREVA NP INC)

Sent: Friday, May 09, 2008 2:49 PM

To: 'Getachew Tesfaye'

Cc: 'John Rycyna'; SHAHROKHI F (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC)

Subject: FW: U.S. EPR Design Certification Application RAI No. 1

Getachew,

Attached please find AREVA NP Inc.’s response to the subject request for additional information (RAI). The attached file, “RAI 1 Response-US EPR DC.pdf” provides technically correct and complete responses to 6 of the 10 questions. Since 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 does not contain any security-related information. The unredacted SUNSI version is provided under separate email.

The attached file, “RAI 1 US EPR FSAR Changes.pdf” provides affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format.

The following table provides the page(s) in the response document, “RAI 1 Response-US EPR DC.pdf” containing the response to each question.

Question #	Start Page	End Page
RAI 1—6.2.1-01	2	4
RAI 1—6.2.1-02	5	5
RAI 1—6.2.1-03	6	6
RAI 1—6.2.1-04	7	7
RAI 1—6.2.1-05	8	10
RAI 1—6.2.1-06	11	11
RAI 1—6.2.1-07	12	33
RAI 1—6.2.1-08	34	37
RAI 1—6.2.1-09	38	50

Complete answers are not provided for 4 of the questions. The schedule for technically correct and complete response to for these questions is provided below.

Question #	Response Date
RAI 1—6.2.1-01	January 28, 2009
RAI 1—6.2.1-02	January 28, 2009
RAI 1—6.2.1-03	January 28, 2009
RAI 1—6.2.1-07c and -07d	January 28, 2009

The provided response and schedule meet NRC's stated expectation and support the established review schedule for the U.S. EPR Design Certification application.

Sincerely,

Ronda Pederson

ronda.pederson@areva.com

Licensing Manager, U.S. EPR Design Certification

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

Sent: Wednesday, April 09, 2008 4:16 PM

To: ZZ-DL-A-USEPR-DL

Cc: Pederson Ronda M (AREVA NP INC); Jack Donohue; Walton Jensen; Christopher Jackson; Joseph Colaccino

Subject: U.S. EPR Design Certification Application RAI No. 1

Attached please find the subject requests for additional information (RAIs). This RAI was discussed with your staff on April 2, 2008. 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.

Getachew Tesfaye

Office of New Reactors

U.S. Nuclear Regulatory Commission

(301) 415-3361

Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 600

Mail Envelope Properties (5CEC4184E98FFE49A383961FAD402D310102D2C4)

Subject: Response to U.S. EPR Design Certification Application RAI No. 1,
FSAR Ch 6, Supplement 5
Sent Date: 6/22/2009 3:54:12 PM
Received Date: 6/22/2009 3:54:16 PM
From: Pederson Ronda M (AREVA NP INC)

Created By: Ronda.Pederson@areva.com

Recipients:

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Tracking Status: None

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

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

Tracking Status: None

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

Tracking Status: None

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Options

Priority: Standard

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