

ArevaEPRDCPEm Resource

From: WILLIFORD Dennis (AREVA) [Dennis.Williford@areva.com]
Sent: Thursday, June 30, 2011 4:12 PM
To: Tesfaye, Getachew
Cc: BENNETT Kathy (AREVA); DELANO Karen (AREVA); ROMINE Judy (AREVA); RYAN Tom (AREVA); WELLS Russell (AREVA)
Subject: Response to U.S. EPR Design Certification Application RAI No. 458, FSAR Ch. 3, Supplement 5
Attachments: nrc-11-066.pdf

Getachew,

AREVA NP Inc. letter NRC:11:066 dated June 30, 2011 provides a technically correct and complete final response to 2 of the 9 remaining questions in RAI 458. AREVA NP considers some of the material contained in the response to be proprietary information. As required by 10 CFR 2.390(b), an affidavit is provided to support the withholding of the proprietary information from public disclosure. Proprietary and non-proprietary versions of the enclosure to this letter are provided separately.

The following table indicates the respective pages in the enclosure that contain AREVA NP's final response to the subject questions.

Question #	Start Page	End Page
RAI 458 — 03.09.02-146	2	2
RAI 458 — 03.09.02-148	3	3

Appended to the enclosed response file are affected pages of ANP-10306P, "Comprehensive Vibration Assessment Program for U.S. EPR Reactor Internals Technical Report," Revision 0 in redline-strikeout format which support the response to RA 458 Question 03.09.02-148.

The schedule for a technically correct and complete response to the remaining 7 questions is unchanged as provided below.

Question #	Response Date
RAI 458 — 03.09.02-147	July 13, 2011
RAI 458 — 03.09.02-149	July 13, 2011
RAI 458 — 03.09.02-150	July 13, 2011
RAI 458 — 03.09.02-151	July 13, 2011
RAI 458 — 03.09.02-152	July 13, 2011
RAI 458 — 03.09.02-153	July 13, 2011
RAI 458 — 03.09.02-154	July 13, 2011

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

From: WILLIFORD Dennis (RS/NB)
Sent: Tuesday, June 07, 2011 8:41 AM
To: 'Tesfaye, Getachew'
Cc: BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB); HAMMOND Philip (RS/PT)
Subject: Response to U.S. EPR Design Certification Application RAI No. 458, FSAR Ch. 3, Supplement 4

Getachew,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to RAI No. 458 on December 6, 2010. The schedule for a technically correct and complete response to RAI No. 458 was revised in Supplement 1 and Supplement 2, submitted on March 21, 2011 and April 19, 2011, respectively, to allow additional time for AREVA NP to interact with the NRC. AREVA NP provided technically correct and complete FINAL responses to 3 of the 12 questions with Supplement 3 on May 26, 2011, as committed.

The schedule for a technically correct and complete response to the remaining 9 questions is being revised. The revised schedule is provided below.

Question #	Response Date
RAI 458 — 03.09.02-146	July 13, 2011
RAI 458 — 03.09.02-147	July 13, 2011
RAI 458 — 03.09.02-148	July 13, 2011
RAI 458 — 03.09.02-149	July 13, 2011
RAI 458 — 03.09.02-150	July 13, 2011
RAI 458 — 03.09.02-151	July 13, 2011
RAI 458 — 03.09.02-152	July 13, 2011
RAI 458 — 03.09.02-153	July 13, 2011
RAI 458 — 03.09.02-154	July 13, 2011

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

From: WILLIFORD Dennis (RS/NB)
Sent: Thursday, May 26, 2011 8:58 AM
To: 'Tesfaye, Getachew'
Cc: BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB); HAMMOND Philip (RS/PT)
Subject: Response to U.S. EPR Design Certification Application RAI No. 458, FSAR Ch. 3, Supplement 3

Getachew,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to RAI No. 458 on December 6, 2010. The schedule for a technically correct and complete response to RAI No. 458 was

revised in Supplement 1 and Supplement 2, submitted on March 21, 2011 and April 19, 2011 respectively, to allow additional time for AREVA NP to interact with the NRC.

The attached file, "RAI 458 Supplement 3 Response US EPR DC.pdf" provides a technically correct and complete FINAL response to 3 of the 12 questions, as committed. The following table indicates the respective pages in the response document, "RAI 458 Supplement 3 Response US EPR DC.pdf", which provide the responses to the 3 questions.

Question #	Start Page	End Page
RAI 458 — 03.09.01-13	2	6
RAI 458 — 03.09.01-14	7	10
RAI 458 — 03.09.01-15	11	17

The schedule for a technically correct and complete response to the remaining 9 questions is unchanged and is provided below.

Question #	Response Date
RAI 458 — 03.09.02-146	June 15, 2011
RAI 458 — 03.09.02-147	June 15, 2011
RAI 458 — 03.09.02-148	June 15, 2011
RAI 458 — 03.09.02-149	June 15, 2011
RAI 458 — 03.09.02-150	June 15, 2011
RAI 458 — 03.09.02-151	June 15, 2011
RAI 458 — 03.09.02-152	June 15, 2011
RAI 458 — 03.09.02-153	June 15, 2011
RAI 458 — 03.09.02-154	June 15, 2011

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

From: WELLS Russell (RS/NB)
Sent: Tuesday, April 19, 2011 4:25 PM
To: 'Tesfaye, Getachew'
Cc: HAMMOND Philip (RS/PT); BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 458, FSAR Ch. 3, Supplement 2

Getachew,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to RAI No. 458 on December 6, 2010. The schedule for a technically correct and complete response to RAI No. 458 was revised with Supplement 1 on March 21, 2011.

The schedule for a technically correct and complete response to RAI No. 458 is revised to allow additional time for AREVA NP to interact with the NRC and is provided below.

Question #	Response Date
RAI 458 — 03.09.01-13	June 15, 2011
RAI 458 — 03.09.01-14	June 15, 2011
RAI 458 — 03.09.01-15	June 15, 2011
RAI 458 — 03.09.02-146	June 15, 2011
RAI 458 — 03.09.02-147	June 15, 2011
RAI 458 — 03.09.02-148	June 15, 2011
RAI 458 — 03.09.02-149	June 15, 2011
RAI 458 — 03.09.02-150	June 15, 2011
RAI 458 — 03.09.02-151	June 15, 2011
RAI 458 — 03.09.02-152	June 15, 2011
RAI 458 — 03.09.02-153	June 15, 2011
RAI 458 — 03.09.02-154	June 15, 2011

Sincerely,

Russ Wells

U.S. EPR Design Certification Licensing Manager

AREVA NP, Inc.

3315 Old Forest Road, P.O. Box 10935

Mail Stop OF-57

Lynchburg, VA 24506-0935

Phone: 434-832-3884 (work)

434-942-6375 (cell)

Fax: 434-382-3884

Russell.Wells@Areva.com

From: WELLS Russell (RS/NB)

Sent: Monday, March 21, 2011 10:14 AM

To: 'Tesfaye, Getachew'

Cc: HAMMOND Philip (RS/PT); BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB)

Subject: Response to U.S. EPR Design Certification Application RAI No. 458, FSAR Ch. 3, Supplement 1

Getachew,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to RAI No. 458 on December 6, 2010.

The schedule for a technically correct and complete response to RAI No. 458 is revised to allow additional time for AREVA NP to interact with the NRC and is provided below.

Question #	Response Date
RAI 458 — 03.09.01-13	May 5, 2011
RAI 458 — 03.09.01-14	May 5, 2011
RAI 458 — 03.09.01-15	May 5, 2011
RAI 458 — 03.09.02-146	May 5, 2011

RAI 458 — 03.09.02-147	May 5, 2011
RAI 458 — 03.09.02-148	May 5, 2011
RAI 458 — 03.09.02-149	May 5, 2011
RAI 458 — 03.09.02-150	May 5, 2011
RAI 458 — 03.09.02-151	May 5, 2011
RAI 458 — 03.09.02-152	May 5, 2011
RAI 458 — 03.09.02-153	May 5, 2011
RAI 458 — 03.09.02-154	May 5, 2011

Sincerely,

Russ Wells

U.S. EPR Design Certification Licensing Manager

AREVA NP, Inc.

3315 Old Forest Road, P.O. Box 10935

Mail Stop OF-57

Lynchburg, VA 24506-0935

Phone: 434-832-3884 (work)

434-942-6375 (cell)

Fax: 434-382-3884

Russell.Wells@Areva.com

From: BRYAN Martin (External RS/NB)

Sent: Monday, December 06, 2010 4:54 PM

To: 'Tesfaye, Getachew'

Cc: DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); HAMMOND Philip (RS/PT)

Subject: Response to U.S. EPR Design Certification Application RAI No. 458, FSAR Ch. 3

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 458 Response US EPR DC.pdf," provides a schedule since a technically correct and complete response to the RAI 458 questions is not provided.

The following table indicates the respective pages in the response document, "RAI 458 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 458 — 03.09.01-13	2	2
RAI 458 — 03.09.01-14	3	3
RAI 458 — 03.09.01-15	4	4
RAI 458 — 03.09.02-146	5	5
RAI 458 — 03.09.02-147	6	6
RAI 458 — 03.09.02-148	7	7
RAI 458 — 03.09.02-149	8	8
RAI 458 — 03.09.02-150	9	9
RAI 458 — 03.09.02-151	10	10
RAI 458 — 03.09.02-152	11	11
RAI 458 — 03.09.02-153	12	12
RAI 458 — 03.09.02-154	13	13

A complete answer is not provided for 12 of the 12 questions. The schedule for a technically correct and complete response to these questions is provided below.

Question #	Response Date
RAI 458 — 03.09.01-13	March 30, 2011
RAI 458 — 03.09.01-14	March 30, 2011
RAI 458 — 03.09.01-15	March 30, 2011
RAI 458 — 03.09.02-146	March 30, 2011
RAI 458 — 03.09.02-147	March 30, 2011
RAI 458 — 03.09.02-148	March 30, 2011
RAI 458 — 03.09.02-149	March 30, 2011
RAI 458 — 03.09.02-150	March 30, 2011
RAI 458 — 03.09.02-151	March 30, 2011
RAI 458 — 03.09.02-152	March 30, 2011
RAI 458 — 03.09.02-153	March 30, 2011
RAI 458 — 03.09.02-154	March 30, 2011

Sincerely,

Martin (Marty) C. Bryan
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.
Tel: (434) 832-3016
702 561-3528 cell
Martin.Bryan.ext@areva.com

From: Tesfaye, Getachew [mailto:Getachew.Tesfaye@nrc.gov]
Sent: Friday, November 05, 2010 8:40 AM
To: ZZ-DL-A-USEPR-DL
Cc: Wu, Cheng-Ih; Wong, Yuken; Dixon-Herrity, Jennifer; Miernicki, Michael; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 458 (5149,5152),FSAR Ch. 3

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on October 29, 2010, and on November 3, 2010, 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: 3185

Mail Envelope Properties (2FBE1051AEB2E748A0F98DF9EEE5A5D47AF4D3)

Subject: Response to U.S. EPR Design Certification Application RAI No. 458, FSAR Ch. 3, Supplement 5
Sent Date: 6/30/2011 4:11:41 PM
Received Date: 6/30/2011 4:11:49 PM
From: WILLIFORD Dennis (AREVA)

Created By: Dennis.Williford@areva.com

Recipients:
"BENNETT Kathy (AREVA)" <Kathy.Bennett@areva.com>
Tracking Status: None
"DELANO Karen (AREVA)" <Karen.Delano@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
"WELLS Russell (AREVA)" <Russell.Wells@areva.com>
Tracking Status: None
"Tsfaye, Getachew" <Getachew.Tsfaye@nrc.gov>
Tracking Status: None

Post Office: auscharm02.adom.ad.corp

Files	Size	Date & Time
MESSAGE	12189	6/30/2011 4:11:49 PM
nrc-11-066.pdf	241235	

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



June 30, 2011
NRC:11:066

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Response to U.S. EPR Design Certification Application RAI No. 458, Supplement 5

In Reference 1, the NRC provided a request for additional information (RAI) regarding the U.S. EPR design certification application. References 2, 3, and 4 provided a schedule for technically correct and complete responses to RAI No. 458. Reference 5 provided a technically correct and complete response to 3 of the 12 questions (Questions 03.09.01-13, 03.09.01-14, and 03.09.01-15). Reference 6 provided a revised schedule for a technically correct and complete response to the remaining 9 questions.

Enclosed is a technically correct and complete final response to 2 of the 9 remaining questions of RAI 458. AREVA NP considers some of the material contained in the enclosure to be proprietary. As required by 10 CFR 2.390(b), an affidavit is enclosed to support the withholding of the information from public disclosure. Proprietary and non-proprietary versions of the enclosure to this letter are provided.

The following table indicates the respective pages in the enclosed response that contain AREVA NP's final response to the subject questions.

Question #	Start Page	End Page
RAI 458 — 03.09.02-146	2	2
RAI 458 — 03.09.02-148	3	3

Also enclosed are affected pages of ANP-10306P, "Comprehensive Vibration Assessment Program for U.S. EPR Reactor Internals Technical Report," Revision 0 in redline-strikeout format which support the response to RAI 458 Question 03.09.02-148.

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

Question #	Response Date
RAI 458 — 03.09.02-147	July 13, 2011
RAI 458 — 03.09.02-149	July 13, 2011
RAI 458 — 03.09.02-150	July 13, 2011
RAI 458 — 03.09.02-151	July 13, 2011
RAI 458 — 03.09.02-152	July 13, 2011
RAI 458 — 03.09.02-153	July 13, 2011
RAI 458 — 03.09.02-154	July 13, 2011

If you have any questions related to this submittal, please contact me by telephone at 434-832-2369 or by e-mail to sandra.sloan@areva.com.

Sincerely,



Sandra M. Sloan, Manager
New Plants Regulatory Affairs
AREVA NP Inc.

Enclosures

cc: G. Tesfaye
Docket No. 52-020

References

- Ref. 1: E-mail, Getachew Tesfaye (NRC) to Martin C. Bryan (AREVA NP Inc.), "U.S. EPR Design Certification Application RAI No. 458 (5149,5152), FSAR Ch. 3," November 5, 2010.
- Ref. 2: E-mail, Martin C. Bryan (AREVA NP Inc.) to Getachew Tesfaye (NRC), "Response to U.S. EPR Design Certification Application RAI No. 458, FSAR Ch. 3," December 6, 2010.
- Ref. 3: E-mail, Russell Wells (AREVA NP Inc.) to Getachew Tesfaye (NRC), "Response to U.S. EPR Design Certification Application RAI No. 458, FSAR Ch. 3, Supplement 1," March 21, 2011.
- Ref. 4: E-mail, Russell Wells (AREVA NP Inc.) to Getachew Tesfaye (NRC), "Response to U.S. EPR Design Certification Application RAI No. 458, FSAR Ch. 3, Supplement 2," April 19, 2011.
- Ref. 5: E-mail, Dennis Williford (AREVA NP Inc.) to Getachew Tesfaye (NRC), "Response to U.S. EPR Design Certification Application RAI No. 458, FSAR Ch. 3, Supplement 3," May 26, 2011.
- Ref. 6: E-mail, Dennis Williford (AREVA NP Inc.) to Getachew Tesfaye (NRC), "Response to U.S. EPR Design Certification Application RAI No. 458, FSAR Ch. 3, Supplement 4," June 7, 2011.

AFFIDAVIT

COMMONWEALTH OF VIRGINIA)
) ss.
COUNTY OF CAMPBELL)

1. My name is Sandra M. Sloan. I am Manager, Regulatory Affairs for New Plants, for AREVA NP Inc. and as such I am authorized to execute this Affidavit.

2. I am familiar with the criteria applied by AREVA NP to determine whether certain AREVA NP information is proprietary. I am familiar with the policies established by AREVA NP to ensure the proper application of these criteria.

3. I am familiar with the AREVA NP information contained in, "Response to U.S. EPR Design Certification Application RAI No. 458, Supplement 5," and referred to herein as "Document." Information contained in this Document has been classified by AREVA NP as proprietary in accordance with the policies established by AREVA NP for the control and protection of proprietary and confidential information.

4. This Document contains information of a proprietary and confidential nature and is of the type customarily held in confidence by AREVA NP and not made available to the public. Based on my experience, I am aware that other companies regard information of the kind contained in this Document as proprietary and confidential.

5. This Document has been made available to the U.S. Nuclear Regulatory Commission in confidence with the request that the information contained in this Document be withheld from public disclosure. The request for withholding of proprietary information is made in accordance with 10 CFR 2.390. The information for which withholding from disclosure is

requested qualifies under 10 CFR 2.390(a)(4) "Trade secrets and commercial or financial information".

6. The following criteria are customarily applied by AREVA NP to determine whether information should be classified as proprietary:

- (a) The information reveals details of AREVA NP's research and development plans and programs or their results.
- (b) Use of the information by a competitor would permit the competitor to significantly reduce its expenditures, in time or resources, to design, produce, or market a similar product or service.
- (c) The information includes test data or analytical techniques concerning a process, methodology, or component, the application of which results in a competitive advantage for AREVA NP.
- (d) The information reveals certain distinguishing aspects of a process, methodology, or component, the exclusive use of which provides a competitive advantage for AREVA NP in product optimization or marketability.
- (e) The information is vital to a competitive advantage held by AREVA NP, would be helpful to competitors to AREVA NP, and would likely cause substantial harm to the competitive position of AREVA NP.

The information in the Document is considered proprietary for the reasons set forth in paragraphs 6(b) and 6(c) above.

7. In accordance with AREVA NP's policies governing the protection and control of information, proprietary information contained in this Document has been made available, on a limited basis, to others outside AREVA NP only as required and under suitable agreement providing for nondisclosure and limited use of the information.

8. AREVA NP policy requires that proprietary information be kept in a secured file or area and distributed on a need-to-know basis.

9. The foregoing statements are true and correct to the best of my knowledge, information, and belief.

Sandra M. Sloan

SUBSCRIBED before me this 30th
day of June, 2011.

Kathleen A. Bennett

Kathleen A. Bennett
NOTARY PUBLIC, COMMONWEALTH OF VIRGINIA
MY COMMISSION EXPIRES: 8/31/2011
Reg. #110864

