

ArevaEPRDCPEm Resource

From: WILLIFORD Dennis (AREVA) [Dennis.Williford@areva.com]
Sent: Monday, January 16, 2012 3:14 PM
To: Tesfaye, Getachew
Cc: BENNETT Kathy (AREVA); DELANO Karen (AREVA); ROMINE Judy (AREVA); RYAN Tom (AREVA); KOWALSKI David (AREVA)
Subject: Response to U.S. EPR Design Certification Application RAI No. 531 (6195), FSAR Ch. 5
Attachments: RAI 531 Response US EPR DC.pdf

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 531 Response US EPR DC.pdf," provides a schedule since a technically correct and complete response to the one question cannot be provided at this time.

The following table indicates the respective pages in the response document, "RAI 531 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

| Question # | Start Page | End Page |
|-----------------------|------------|----------|
| RAI 531 — 05.03.02-11 | 2 | 2 |

The schedule for a technically correct and complete response to this question is provided below.

| Question # | Response Date |
|-----------------------|----------------|
| RAI 531 — 05.03.02-11 | April 13, 2012 |

Sincerely,

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

7207 IBM Drive, Mail Code CLT 2B
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From: Tesfaye, Getachew [<mailto:Getachew.Tesfaye@nrc.gov>]
Sent: Tuesday, December 20, 2011 1:40 PM
To: ZZ-DL-A-USEPR-DL
Cc: Jenkins, Joel; Downey, Steven; Terao, David; Hearn, Peter; Segala, John; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 531 (6195), FSAR Ch. 5

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on November 25, 2011, and discussed with your staff on December 15 and 19, 2011. No change is made to the draft RAI as a result of those discussions. 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. For any RAIs that cannot be answered **within 40 days**, 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.

Thanks,
Getachew Tesfaye
Sr. Project Manager
NRO/DNRL/NARP
(301) 415-3361

Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 3683

Mail Envelope Properties (2FBE1051AEB2E748A0F98DF9EEE5A5D4A53F4C)

Subject: Response to U.S. EPR Design Certification Application RAI No. 531 (6195),
FSAR Ch. 5
Sent Date: 1/16/2012 3:13:31 PM
Received Date: 1/16/2012 3:13:55 PM
From: WILLIFORD Dennis (AREVA)

Created By: Dennis.Williford@areva.com

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| Files | Size | Date & Time |
|--------------------------------|-------------|------------------------|
| MESSAGE | 2259 | 1/16/2012 3:13:55 PM |
| RAI 531 Response US EPR DC.pdf | | 59521 |

Options

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

Response to

Request for Additional Information No. 531(6195), Revision 0

12/20/2011

U.S. EPR Standard Design Certification

AREVA NP Inc.

Docket No. 52-020

**SRP Section: 05.03.02 - Pressure-Temperature Limits, Upper-Shelf Energy, and
Pressurized Thermal Shock**

Application Section: 5.3.2

**QUESTIONS for Component Integrity, Performance, and Testing Branch 1
(AP1000/EPR Projects) (CIB1)**

Question 05.03.02-11:

OPEN ITEM

Follow-up to RAI 278, Question 05.03.02-10

To address PTLR Criterion 4 (GL96-03), the applicant needs to clearly identify both the limiting adjusted reference temperature (ART) values and limiting materials at the 1/4t and 3/4t locations (t=vessel thickness) used in the development of the P-T limits. In response to RAI 278-3506 Question 05.03.02-10, the applicant stated that the limiting materials were the circumferential seam weld and the upper and lower shell forgings and provided the corresponding adjusted reference temperature values for each material. The staff found this response to be acceptable; however, based on the information provided in the U.S. EPR PTLR, it is unclear how both the limiting circumferential seam weld and the limiting forging material will be used to develop the P-T limit curve that represents the reactor vessel. Therefore, the staff requests that the applicant explain, in detail, specifically the use of both materials to develop the bounding P-T limit curves provided in the U.S. EPR PTLR. Please include all assumptions made and calculations performed.

Response to Question 05.03.02-11:

A response to this question will be provided by April 13, 2012.