

ArevaEPRDCPEm Resource

From: Buckberg, Perry
Sent: Friday, April 26, 2013 11:47 AM
To: WILLIFORD Dennis (AREVA)
Cc: DELANO Karen (AREVA); LEIGHLITER John (AREVA); ROMINE Judy (AREVA); RYAN Tom (AREVA); WILLS Tiffany (AREVA); HONMA George (EXTERNAL AREVA); LENTZ Tony (EXTERNAL AREVA); Snyder, Amy; Miernicki, Michael
Subject: RE: Response to U.S. EPR Design Certification Application RAI No. 527 (6179, 6205, 6180), FSAR Ch. 14, Supplement 2
Attachments: RE: SUNSI Advanced Response to U.S. EPR Design Certification Application RAI No. 527 (6179, 6205, 6180), FSAR Ch. 14, Questions 14.02-163, 14.03.02-57 through 14.03.02-62, 14.03.07-38

Dennis,

In the attached 3/19/2013 e-mail, staff feedback on the January 25, 2013 Advance Final response to RAI No. 527, Questions 14.03.02-57 through 14.03.02-62 was provided to AREVA. The final AREVA response to RAI No. 527, Questions 14.03.02-57 through 14.03.02-61 were issued on 3/29/2013. The responses to questions 14.03.02-57 and 14.03.02-58 may need further work - please see the comments below.

Note – the comments include **additional clarification in blue** that results from review of the 4/5/2013 Interim ITAAC table

1. Question **14.03.02-57**

- Wording for internal hazards protection for RB ITAAC (Table 2.1.1-8 item 2.7) in the RAI response FSAR markup were technically acceptable. However, the wordings for similar ITAACs for Safeguard Building, Fuel Building, EPGB, and ESWB should be made consistent.

Model B2 and ITAAC 2.1.1-8 item 2.7 in the combined Interim ITAAC Table are not consistent with the corresponding acceptable markup in the RAI 527 Supplement 2 response. Also recommend deleting “as” in the AC of ITAAC 2.7 in Table 2.1.1-8 in the markup in the RAI 527 supplement 2 response.

- Our previous comment regarding the credibility of postulated missiles from a high energy line break, CRDM housing, or control rod ejection was addressed by adding a reference to FSAR Sections 3.5.1.2.2 and 3.5.1.2.3 which is supposed to justify not including these types of missiles. However, Rev 4 FSAR Section 3.5.1.2.3 states that even though potential CRDM missiles are deemed non-credible, a concrete missile shield on top of the refueling canal wall is designed to absorb the impact of a control rod ejection due to the postulated failure of the CRDM nozzle flange or pressure housing. Therefore a separate ITAAC item in Table 2.1.1-8 should be included to address this missile barrier.

The Interim ITAAC Table does not address this issue.

- We noted that the Commitment wording for item 3.3 of EPGB ITAAC Table 2.1.2-3 includes that missile barriers contain the impact of internal hazards within a given EPGB. However FSAR

Figure 2.1.2-4 shows a barrier that appears to provide internal hazards protection within a given EPGB as opposed to providing a barrier between EPGBs. The ITAAC has to verify protection exists between machines (i.e. two DGs exist in 1 EPGB that is internally divided) and between each machine and its Fuel oil storage tank. We understand that AREVA is aware of this issue and will revise FSAR Figure 2.1.2-4 (discussed during the Public Meeting on 4/5/2013).

- Internal/external hazards barrier configuration in Figure 2.1.5-6 and the corresponding ITAAC for the ESWBs (in the RAI response and the Interim ITAAC Table) are not consistent need further clarification. (discussed during the Public Meeting on 4/5/2013)

2. Question **14.03.02-58**

- AREVA has revised the wording of the ITAAC to now include the liner and penetration assemblies. However, ITAAC for Class MC Components should be provided. We made this comment to AREVA at the Public Telephone call of 4/5/2013 and the Interim ITAAC Table does not resolve the concern.

Thanks,

PERRY BUCKBERG

Senior Project Manager

Nuclear Regulatory Commission

Office of New Reactors

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perry.buckberg@nrc.gov

From: WILLIFORD Dennis (AREVA) [mailto:Dennis.Williford@areva.com]

Sent: Friday, March 29, 2013 3:52 PM

To: Snyder, Amy

Cc: Buckberg, Perry; Jaffe, David; DELANO Karen (AREVA); LEIGHLITER John (AREVA); ROMINE Judy (AREVA); RYAN Tom (AREVA); WILLS Tiffany (AREVA); HONMA George (EXTERNAL AREVA); LENTZ Tony (EXTERNAL AREVA)

Subject: Response to U.S. EPR Design Certification Application RAI No. 527 (6179, 6205, 6180), FSAR Ch. 14, Supplement 2

Amy,

AREVA NP provided a schedule for responding to the nine questions in RAI No. 527 on January 25, 2012. Supplement 1 response was sent on February 26, 2012 to provide a revised schedule for responses to these questions.

The attached file, "RAI 527 Supplement 2 Response US EPR DC - Public.pdf," provides technically correct and complete final responses to 5 questions (Questions 14.03-2-57 through -61). 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.

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 527 Questions 14.03.02-57, 14.03.02-58, 14.03.02-59, 14.03.02-60 and 14.03.02-61.

The following table indicates the respective pages in the response document, "RAI 527 Supplement 2 Response US EPR DC - Public.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 527 — 14.03.02-57	2	3
RAI 527 — 14.03.02-58	4	5
RAI 527 — 14.03.02-59	6	6
RAI 527 — 14.03.02-60	7	8
RAI 527 — 14.03.02-61	9	9

The schedule for technically correct and complete responses to 3 of the 4 remaining questions has been changed as provided below.

Question #	Response Date
RAI 527 — 14.02-163	June 21, 2013
RAI 527 — 14.03.02-56	August 30, 2013
RAI 527 — 14.03.02-62	May 28, 2013
RAI 527 — 14.03.07-38	June 21, 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

From: WILLIFORD Dennis (RS/NB)
Sent: Sunday, February 26, 2012 7:35 PM
To: Getachew.Tesfaye@nrc.gov
Cc: BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB); LENTZ Tony (External RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 527 (6179, 6205, 6180), FSAR Ch. 14, Supplement 1

AREVA NP provided a schedule for a technically correct and complete response to the 9 questions in RAI 527 on January 25, 2012.

The schedule for a response to these 9 questions has been changed as provided below. This schedule was transmitted to the NRC in AREVA NP letter NRC:12:008 dated February 21, 2012.

Question #	Response Date
RAI 527 — 14.02-163	March 29, 2013
RAI 527 — 14.03.02-56	August 30, 2013
RAI 527 — 14.03.02-57	March 29, 2013
RAI 527 — 14.03.02-58	March 29, 2013
RAI 527 — 14.03.02-59	March 29, 2013
RAI 527 — 14.03.02-60	March 29, 2013
RAI 527 — 14.03.02-61	March 29, 2013
RAI 527 — 14.03.02-62	March 29, 2013
RAI 527 — 14.03.07-38	March 29, 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

From: WILLIFORD Dennis (RS/NB)

Sent: Wednesday, January 25, 2012 8:05 AM

To: Tesfaye, Getachew

Cc: BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB); LENTZ Tony (External RS/NB); Michael.Miernicki@nrc.gov; Jaffe, David

Subject: Response to U.S. EPR Design Certification Application RAI No. 527 (6179, 6205, 6180), FSAR Ch. 14

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 527 Response US EPR DC.pdf" provides a schedule since a technically correct and complete response to these 9 questions cannot be provided at this time.

The following table indicates the respective pages in the response document, "RAI 527 Response US EPR DC.pdf" that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 527 — 14.02-163	2	4
RAI 527 — 14.03.02-56	5	6
RAI 527 — 14.03.02-57	7	7
RAI 527 — 14.03.02-58	8	8
RAI 527 — 14.03.02-59	9	9
RAI 527 — 14.03.02-60	10	10
RAI 527 — 14.03.02-61	11	11
RAI 527 — 14.03.02-62	12	13
RAI 527 — 14.03.07-38	14	16

A preliminary schedule for a technically correct and complete response to these questions is provided below. This schedule is being reevaluated and a new supplement with a revised schedule will be transmitted by February 21, 2012.

Question #	Response Date
RAI 527 — 14.02-163	February 21, 2012
RAI 527 — 14.03.02-56	February 21, 2012
RAI 527 — 14.03.02-57	February 21, 2012
RAI 527 — 14.03.02-58	February 21, 2012
RAI 527 — 14.03.02-59	February 21, 2012
RAI 527 — 14.03.02-60	February 21, 2012
RAI 527 — 14.03.02-61	February 21, 2012
RAI 527 — 14.03.02-62	February 21, 2012
RAI 527 — 14.03.07-38	February 21, 2012

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: Tesfaye, Getachew [<mailto:Getachew.Tesfaye@nrc.gov>]

Sent: Friday, December 16, 2011 8:38 AM

To: ZZ-DL-A-USEPR-DL

Cc: Dehmel, Jean-Claude; Roach, Edward; Chakravorty, Manas; Thomas, Brian; Ford, Tanya; Jaffe, David; Colaccino, Joseph; ArevaEPRDCPEm Resource

Subject: U.S. EPR Design Certification Application RAI No. 527 (6179, 6205, 6180), FSAR Ch. 14

Attached please find the subject request for additional information (RAI). A draft of the RAI was provided to you on November 25, 2011, and on December 12, 2011, 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, 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: 4343

Mail Envelope Properties (44CD2E65B0FF0E499CB32BC30CF781F0D5D7ACBB2A)

Subject: RE: Response to U.S. EPR Design Certification Application RAI No. 527 (6179, 6205, 6180), FSAR Ch. 14, Supplement 2
Sent Date: 4/26/2013 11:47:01 AM
Received Date: 4/26/2013 11:47:02 AM
From: Buckberg, Perry

Created By: Perry.Buckberg@nrc.gov

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Files	Size	Date & Time
MESSAGE	11027	4/26/2013 11:47:02 AM
RE: SUNSI Advanced Response to U.S. EPR Design Certification Application RAI No. 527 (6179, 6205, 6180), FSAR Ch. 14, Questions 14.02-163, 14.03.02-57 through 14.03.02-62, 14.03.07-38 34342		

Options

Priority: Standard
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