

ArevaEPRDCPEm Resource

From: RYAN Tom (AREVA) [Tom.Ryan@areva.com]
Sent: Friday, October 19, 2012 12:32 PM
To: Snyder, Amy
Cc: BENNETT Kathy (AREVA); DELANO Karen (AREVA); LEIGHLITER John (AREVA); ROMINE Judy (AREVA); WELLS Russell (AREVA); KOWALSKI David (AREVA); WILLIFORD Dennis (AREVA)
Subject: Response to U.S. EPR Design Certification Application RAI No. 558 (6720), FSAR Ch. 9
Attachments: RAI 558 Response US EPR DC.pdf

Amy,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 558 Response US EPR DC," provides a schedule since a technically correct and complete response to Question 09.04.05-5 is not provided.

The following table indicates the respective pages in the response document, "RAI 558 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 558 — 09.04.05-5	2	2

The schedule for a technically correct and complete response to Question 09.04.05-5 is provided below.

Question #	Response Date
RAI 558 — 09.04.05-5	February 12, 2013

Sincerely,

**Tom Ryan for
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
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From: Tesfaye, Getachew [<mailto:Getachew.Tesfaye@nrc.gov>]
Sent: Wednesday, September 19, 2012 8:39 AM
To: ZZ-DL-A-USEPR-DL
Cc: ODriscoll, James; McKirgan, John; Hearn, Peter; Segala, John; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 558 (6720), FSAR Ch. 9

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on August 31, 2012, and discussed with your staff on September 17, 2012. No change is made to the draft RAI as a result of that discussion. 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/LB1
(301) 415-3361

Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 4075

Mail Envelope Properties (68A588D0DDE96547855C97AF83A8CAFDB869B6)

Subject: Response to U.S. EPR Design Certification Application RAI No. 558 (6720),
FSAR Ch. 9
Sent Date: 10/19/2012 12:31:33 PM
Received Date: 10/19/2012 12:31:40 PM
From: RYAN Tom (AREVA)

Created By: Tom.Ryan@areva.com

Recipients:

"BENNETT Kathy (AREVA)" <Kathy.Bennett@areva.com>
Tracking Status: None
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Tracking Status: None
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Tracking Status: None
"KOWALSKI David (AREVA)" <David.Kowalski@areva.com>
Tracking Status: None
"WILLIFORD Dennis (AREVA)" <Dennis.Williford@areva.com>
Tracking Status: None
"Snyder, Amy" <Amy.Snyder@nrc.gov>
Tracking Status: None

Post Office: auscharm02.adom.ad.corp

Files	Size	Date & Time
MESSAGE	2100	10/19/2012 12:31:40 PM
RAI 558 Response US EPR DC.pdf		67527

Options

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

Response to

Request for Additional Information 558(6720), Revision 0

Issue Date: 9/19/2012

Application Title: U. S. EPR Standard Design Certification - Docket Number 52-020

AREVA NP Inc.

Review Section: 09.04.05 - Engineered Safety Feature Ventilation System

Application Section: 9.4.7

Question 09.04.05-5:**Open Item****Follow-up to RAI 509, Question 09.04.01-7**

In your February 8, 2012 response to RAI 509, Question 09.04.01-7, you clarified the accident response and function of the Containment Low-flow Purge Exhaust Subsystem (CLFPS) for the rod ejection accident. In your response you proposed to revise the FSAR to clarify that the CLFPS is credited for post accident fission product removal. Based on review of Tier 2, Table 15.0-40, the staff understands that you have credited 10 seconds of post-accident fission product removal by an ESF filtration train in the CLFPS. The staff has reviewed your RAI response in which you have stated that this time is necessary to allow the associated containment isolation valves to close. However, the staff needs additional information to be included in Tier 2 of the FSAR describing the CLFPS and associated ESF filtration trains in order to determine whether the low flow purge exhaust subsystem will be capable of performing its intended safety functions in the event of a rod ejection accident, as described in the FSAR. Specifically the staff needs the following information.

The staff notes that the CLFPS is an ESF system that is listed in generic technical specification (GTS) 5.5.10, "Ventilation Filter Testing Program." The staff considers that including the CLFPS in GTS 5.5.10 implies an implicit operability requirement for it in the GTS; however, TS should not contain "implicit" operability requirements for a front-line accident-consequence-mitigation system that is credited in the design's safety analyses. Therefore, since the rod ejection accident safety analysis credits operation of this system for post-accident fission product removal, the applicant is requested to justify the omission in the GTS of a TS limiting condition for operation (LCO), with associated action and surveillance requirements, for the Containment Building Ventilation System (CBVS) low-flow purge exhaust filtration system in accordance with 10 CFR 50.36 (c)(2)(ii) or revise GTS Section 3.6 to include an LCO, with associated action and surveillance requirements, and bases for the CLFPS.

Response to Question 09.04.05-5:

A response to this question will be provided by February 12, 2013.