ArevaEPRDCPEm Resource

From: Pederson Ronda M (AREVA NP INC) [Ronda.Pederson@areva.com]
Sent: Tuesday, June 23, 2009 3:32 PM
To: Tesfaye, Getachew
Cc: BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); KOWALSKI David J (AREVA NP INC)
Subject: Response to U.S. EPR Design Certification Application RAI No. 219,FSAR Ch. 9, Supplement 1
Attachments: RAI 219 Supplement 1 Response US EPR DC.pdf

Getachew,

AREVA NP Inc. provided responses to 3 of the 4 questions of RAI No. 219 on June 4, 2009. The attached file, "RAI 219 Supplement 1 Response US EPR DC.pdf" provides a technically correct and complete response to the remaining question, as committed.

The following table indicates the respective pages in the response document, "RAI 219 Supplement 1 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 219 — 09.03.01-7	2	3

This concludes the formal AREVA NP response to RAI 219, and there are no questions from this RAI for which AREVA NP has not provided responses.

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: Pederson Ronda M (AREVA NP INC)
Sent: Thursday, June 04, 2009 2:59 PM
To: 'Getachew Tesfaye'
Cc: BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); KOWALSKI David J (AREVA NP INC); PORTER Thomas (EXT)
Subject: Response to U.S. EPR Design Certification Application RAI No. 219,FSAR Ch. 9

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 219 Response US EPR DC.pdf" provides technically correct and complete responses to 3 of the 4 questions.

Appended to this file is an affected page of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which supports the response to RAI 219 Question 09.03.01-6.

The following table indicates the respective pages in the response document, "RAI 219 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 219 — 09.01.03 -12	2	2
RAI 219 — 09.01.03 -13	3	3
RAI 219 — 09.03.01 - 6	4	4
RAI 219 — 09.03.01 - 7	5	5

A complete answer is not provided for 1 of the 4 questions. The schedule for a technically correct and complete response to these questions is provided below.

Question #	Response Date
RAI 219 — 09.03.01 - 7	June 23, 2009

Sincerely,

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From: Getachew Tesfaye [mailto:Getachew.Tesfaye@nrc.gov]
Sent: Friday, May 08, 2009 4:16 PM
To: ZZ-DL-A-USEPR-DL
Cc: Raul Hernandez; John Segala; Steven Bloom; Peter Hearn; Joseph Colaccino; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 219 (2634, 2591),FSAR Ch. 9

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on April 27, 2009, and on May 6, 2009, 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: 603

Mail Envelope Properties (5CEC4184E98FFE49A383961FAD402D310102D71D)

Subject: Response to U.S. EPR Design Certification Application RAI No. 219,FSAR Ch. 9, Supplement 1
Sent Date: 6/23/2009 3:32:00 PM
Received Date: 6/23/2009 3:32:20 PM
From: Pederson Ronda M (AREVA NP INC)

Created By: Ronda.Pederson@areva.com

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Tracking Status: None
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Tracking Status: None
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Tracking Status: None

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MESSAGE	3806	6/23/2009 3:32:20 PM
RAI 219 Supplement 1 Response US EPR DC.pdf	27593	

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

Response to

Request for Additional Information No. 219, Supplement 1

5/08/2009

U. S. EPR Standard Design Certification
AREVA NP Inc.
Docket No. 52-020
SRP Section: 09.01.03 - Spent Fuel Pool Cooling and Cleanup System
SRP Section: 09.03.01 - Compressed Air System
Application FSAR Ch. 9

QUESTIONS for Balance of Plant Branch 1 (AP1000/EPR Projects) (SBPA)

Question 09.03.01-7:

10 CFR 20.1406(b) requires that applicants for standard design certifications to describe the facility design features for minimizing, to the extent practicable, contamination of the facility and the environment, facilitate eventual decommissioning, and minimize to the extent practicable the generation of radioactive waste.

FSAR Tier 2 Section 9.3.1.1 indicates the instrument air system is used to provide air to components in the radioactive waste, decontamination and fuel handling systems for nonsafety-related functions. A review of the system P&ID (FSAR Tier 2 Figure 9.3-2) shows insufficient detail to determine if the CAS could be contaminated through interfaces with radioactive system or if provisions are provided for detection of activity and isolation of the system to prevent contamination or a release to the environment. SRP 9.3.1.I.5 "Areas of Review," states that the CAS design is reviewed for the following:

> **H. The potential for radiological contamination of the ICAS and, if applicable, provisions for detection of leakage from radioactive systems to the ICAS and preclusion of releases to the environment.**

In accordance with the requirements of 10 CFR 20.1406(b), the staff requests the applicant to provide an evaluation of whether the compressed air system could become contaminated through interfaces with radioactive systems. If the system could become contaminated provide methods for detection, collection and control of system leakage to preclude contamination of other systems and preclude its release to the environment.

Response to Question 09.03.01-7:

Components in the Radioactive Waste (Processing) Building (RWB) receive instrument air from the Compressed Air System (CAS) via temporary hose connections from quick release connectors.

It is highly unlikely that the CAS can become contaminated through interfaces with radioactive systems. The connections to instrument air are temporary in nature involving hose connections and quick release connectors. Immediately upstream of the quick connects are branch isolation valves used to isolate individual connections from the remainder of the instrument air header. Each instrument air sub-header contains an isolation valve that isolates the sub-header from the reminder of the instrument air system. These connections preclude contamination of other systems and components if contamination were detected.

The Spent Fuel Cask Transfer Machine (SFCTM) in the Fuel Building receives instrument air from the CAS through permanent connections.

The connection to this component is permanent hard pipe for pneumatically actuated equipment. There are isolation valves in the compressed air piping to each pneumatically actuated component of the SFCTM, in addition to sub-header isolation valves, that isolate individual portions of the instrument air system from the remainder of the system.

The instrument air system is normally pressurized and does not recycle air. There is no path for contamination to be picked up from interfacing systems and carried back through the instrument air system.

FSAR Impact:

The U.S. EPR FSAR will not be changed as a result of this question.