ArevaEPRDCPEm Resource

From: Pederson Ronda M (AREVA NP INC) [Ronda.Pederson@areva.com]
Sent: Monday, February 02, 2009 3:28 PM
To: Getachew Tesfaye
Cc: BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); BEELMAN Ronald J (AREVA NP INC)
Subject: Response to U.S. EPR Design Certification Application RAI No. 157 (1729), FSARCh. 6
Attachments: RAI 157 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 157 Response US EPR DC.pdf" provides a schedule since a technically correct and complete response to the question is not provided.

The following table indicates the respective page in the response document, "RAI 157 Response US EPR DC.pdf," that contains AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 157 — 06.02.02-22	2	2

A complete answer is not provided for the question. The schedule for a technically correct and complete response to the question is provided below.

Question #	Response Date
RAI 157 — 06.02.02-22	July 28, 2009

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: Getachew Tesfaye [mailto:Getachew.Tesfaye@nrc.gov]
Sent: Thursday, December 18, 2008 5:15 PM
To: ZZ-DL-A-USEPR-DL
Cc: Walton Jensen; Christopher Jackson; Michael Miernicki; Joseph Colaccino; John Rycyna; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 157 (1729), FSARCh. 6

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on December 15, 2008, and on December 18, 2008, 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 20, 2008 thru January 1, 2009, to account for the holiday season** as discussed with AREVA NP Inc. For any RAIs that cannot be answered **within 45 days**, it is expected that a date for receipt of this information will be provided to the staff within the 45-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: 192

Mail Envelope Properties (5CEC4184E98FFE49A383961FAD402D31A2C411)

Subject: Response to U.S. EPR Design Certification Application RAI No. 157 (1729), FSARCh. 6
Sent Date: 2/2/2009 3:27:32 PM
Received Date: 2/2/2009 3:27:35 PM
From: Pederson Ronda M (AREVA NP INC)

Created By: Ronda.Pederson@areva.com

Recipients:
"BENNETT Kathy A (OFR) (AREVA NP INC)" <Kathy.Bennett@areva.com>
Tracking Status: None
"DELANO Karen V (AREVA NP INC)" <Karen.Delano@areva.com>
Tracking Status: None
"BEELMAN Ronald J (AREVA NP INC)" <Ronald.Beelman@areva.com>
Tracking Status: None
"Getachew Tesfaye" <Getachew.Tesfaye@nrc.gov>
Tracking Status: None

Post Office: AUSLYNCMX02.adom.ad.corp

Files	**Size**	**Date & Time**
MESSAGE	2366	2/2/2009 3:27:35 PM
RAI 157 Response US EPR DC.pdf	56314	

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

Response to

Request for Additional Information No.157, Revision 0

12/18/2008

U. S. EPR Standard Design Certification
AREVA NP Inc.
Docket No. 52-020
SRP Section: 06.02.02 - Containment Heat Removal Systems
Application FSAR Section: 6.2.2

QUESTIONS for Containment and Ventilation Branch 1 (AP1000/EPR Projects) (SPCV)

Question 06.02.02-22:

Containment Atmospheric Circulation System

1. In the event of a main steam line break that is high in the containment in the region outside of the steam generator compartments, the pressure differentials across the rupture foils and convection dampers will be the reverse of those which would occur for a loss of coolant accident or a main steam line break within a steam generator compartment. The fuses of the convection foils may not be exposed to the heated containment atmosphere and hence may not open.

   Provide analyses of the containment pressures and temperatures that would result from a spectrum of main steam line breaks outside of the steam generator compartments to determine the most severe break size.

   Provide justification that sufficient compartment dampers and doors will open to promote adequate containment circulation following a main steam line break outside of the steam generator compartments. The opening of foils and dampers may depend on the break size so that smaller breaks may produce less containment circulation and result in higher containment temperatures.

   Describe the testing program by which the opening characteristics of the foils and dampers assumed in the safety analysis will be verified for the pressure differentials resulting from a main steam line break outside of the steam generator compartments.

2. The main feedwater lines traverse the annular region between the containment shell and the steam generator compartments. Provide evaluations of postulated main feedwater line breaks in the annular region demonstrating that sufficient foils and dampers will open to provide adequate containment post accident circulation.

Response to Question 06.02.02-22:

A response to this question will be provided by July 28, 2009.