ArevaEPRDCPEm Resource

From: BRYAN Martin (EXTERNAL AREVA) [Martin.Bryan.ext@areva.com]
Sent: Thursday, August 05, 2010 3:05 PM
To: Tesfaye, Getachew
Cc: DELANO Karen (AREVA); ROMINE Judy (AREVA); BENNETT Kathy (AREVA); LENTZ Tony (EXTERNAL AREVA)
Subject: Response to U.S. EPR Design Certification Application RAI No. 418, FSAR Ch. 14
Attachments: RAI 418 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 418 Response US EPR DC.pdf" provides technically correct and complete responses to the one question.

The following table indicates the respective pages in the response document, "RAI 418 Response US EPR DC.pdf," that contains AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 14.03.07-35	2	2

This concludes the formal AREVA NP response to RAI 418, and there are no questions from this RAI for which AREVA NP has not provided responses.

Sincerely,
Martin (Marty) C. Bryan
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.
Tel: (434) 832-3016
702 561-3528 cell
Martin.Bryan.ext@areva.com

From: Tesfaye, Getachew [mailto:Getachew.Tesfaye@nrc.gov]
Sent: Tuesday, August 03, 2010 2:18 PM
To: ZZ-DL-A-USEPR-DL
Cc: Wheeler, Larry; Lee, Samuel; Segala, John; Miernicki, Michael; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 418 (4742), FSAR Ch. 14

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on June 8, 2010, and discussed with your staff on July 29, 2010. 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/NARP
(301) 415-3361

Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 1788

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Subject: Response to U.S. EPR Design Certification Application RAI No. 418, FSAR Ch. 14
Sent Date: 8/5/2010 3:04:41 PM
Received Date: 8/5/2010 3:04:44 PM
From: BRYAN Martin (EXTERNAL AREVA)

Created By: Martin.Bryan.ext@areva.com

Recipients:
"DELANO Karen (AREVA)" <Karen.Delano@areva.com>
Tracking Status: None
"ROMINE Judy (AREVA)" <Judy.Romine@areva.com>
Tracking Status: None
"BENNETT Kathy (AREVA)" <Kathy.Bennett@areva.com>
Tracking Status: None
"LENTZ Tony (EXTERNAL AREVA)" <Tony.Lentz.ext@areva.com>
Tracking Status: None
"Tesfaye, Getachew" <Getachew.Tesfaye@nrc.gov>
Tracking Status: None

Post Office: AUSLYNCMX02.adom.ad.corp

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MESSAGE	1976	8/5/2010 3:04:44 PM
RAI 418 Response US EPR DC.pdf	9118	

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

Response to

Request for Additional Information No. 418(4742), Revision 0

8/3/2010

U. S. EPR Standard Design Certification
AREVA NP Inc.
Docket No. 52-020
SRP Section: 14.03.07 - Plant Systems - Inspections, Tests, Analyses, and Acceptance Criteria
Application Section: 14.3.7

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

Question 14.03.07-35:

Follow-up to RAI 182, Question 14.3-10

Based on the staff's review of the applicant's response to RAI 14.3-10, the following issues have been identified.

Discrepancies were noted between the description of various components in Tier 1 and Tier 2. Tier 1 information in Table 2.7.1-2, "Component Cooling Water System Equipment I&C and Electrical Design," indicates that the "MCR/RSS controls" on safety related pumps, valves, etc are "start-stop" or "open-close". Typical main control room controls are pull-to-lock (which means will not start on a control signal), on, off, auto. Also, motor operated valves (MOVs) and air operated valves (AOVs) are auto-manual, or open-close-auto. Based on the details provided by the applicant in Tier 2, Section 9.2.2, Component Cooling Water System," (CCWS) many of the CCWS components operate in automatic and have manuals main control room (MCR) controls. The applicant should clarify Tier 1 Table 2.7.1-2 to address (for example but not limited too):

a. Describe how the CCWS pump automatically starts if the only controls are start-stop.

b. Describe how the CCWS switchover valves automatically operates during a low surge tank level if the controls are only open-close.

c. Describe how the CCWS heat exchanger control valve automatically controls CCWS outlet temperature if the controls are only open-close.

Based on the staff's review of other FSAR Tier 1 tables, this is a generic issue related to all MCR/RSS controls.

Table 2.7.1-3, Component Cooling Water System ITAAC," Item 7.1 was modified and the CCW heat exchanger area and heat transfer coefficient was added to include heat exchanger performance. This markup does not appear to be correct since the heat transfer rates was not identified as 'Acceptance Criteria'.

Response to Question 14.03.07-35:

The features listed in the "MCR/RSS" column of the U.S. EPR FSAR Tier 1 tables are intended to be the minimum required manual controls that must be available to operators in the Main Control Room (MCR) and Remote Shutdown Station (RSS). This information is not intended to negate any of the automatic features designed for a given system.

Refer to the Response to RAI 417, Question 9.2.2-121 for Table 2.7.1-3 ITAAC related to component cooling water system heat transfer rate.

FSAR Impact:

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