ArevaEPRDCPEm Resource

From: Tesfaye, Getachew
Sent: Tuesday, June 08, 2010 12:11 PM
To: 'usepr@areva.com'
Cc: Wheeler, Larry; Lee, Samuel; Segala, John; Miernicki, Michael; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: Draft - U.S. EPR Design Certification Application RAI No. 418 (4742), FSAR Ch. 14
Attachments: Draft RAI_418_SBPA_4742.doc

Attached please find draft RAI No. 418 regarding your application for standard design certification of the U.S. EPR. If you have any question or need clarifications regarding this RAI, please let me know as soon as possible, I will have our technical Staff available to discuss them with you.

Please also review the RAI to ensure that we have not inadvertently included proprietary information. If there are any proprietary information, please let me know within the next ten days. If I do not hear from you within the next ten days, I will assume there are none and will make the draft RAI publicly available.

Thanks,
Getachew Tesfaye
Sr. Project Manager
NRO/DNRL/NARP
(301) 415-3361

Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 1508

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Created By: Getachew.Tesfaye@nrc.gov

Recipients:
"Wheeler, Larry" <Larry.Wheeler@nrc.gov>
Tracking Status: None
"Lee, Samuel" <Samuel.Lee@nrc.gov>
Tracking Status: None
"Segala, John" <John.Segala@nrc.gov>
Tracking Status: None
"Miernicki, Michael" <Michael.Miernicki@nrc.gov>
Tracking Status: None
"Colaccino, Joseph" <Joseph.Colaccino@nrc.gov>
Tracking Status: None
"ArevaEPRDCPEm Resource" <ArevaEPRDCPEm.Resource@nrc.gov>
Tracking Status: None
"'usepr@areva.com'" <usepr@areva.com>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

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

6/8/2010

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)

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'.