

ArevaEPRDCPEm Resource

From: BRYAN Martin (EXTERNAL AREVA) [Martin.Bryan.ext@areva.com]
Sent: Friday, August 20, 2010 4:11 PM
To: Tesfaye, Getachew
Cc: ROMINE Judy (AREVA); HOLM Jerald (EXTERNAL AREVA); RYAN Tom (AREVA); RANSOM James (AREVA); HOKE Robert (AREVA)
Subject: DRAFT U.S. EPR Design Certification Application RAI No. 415(4599), FSAR Ch. 15 OPEN ITEM
Attachments: RAI 415 Response US EPR DC - DRAFT.pdf

Getachew,

The 30 day response is due August 25. Attached is a draft in advance of that date. I will send a revised schedule unless this can be approved for final in the next couple of days. It is a short response.

Thanks,

Martin (Marty) C. Bryan
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From: Tesfaye, Getachew [mailto:Getachew.Tesfaye@nrc.gov]
Sent: Monday, July 26, 2010 2:54 PM
To: ZZ-DL-A-USEPR-DL
Cc: Liang, Chu-Yu; Lu, Shanlai; Donoghue, Joseph; Carneal, Jason; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 415(4599), FSAR Ch. 15 OPEN ITEM

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 June 29, 2010. Draf RAI Questions 15-9 was modified 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
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Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 1873

Mail Envelope Properties (BC417D9255991046A37DD56CF597DB710748CA79)

Subject: DRAFT U.S. EPR Design Certification Application RAI No. 415(4599), FSAR
Ch. 15 OPEN ITEM
Sent Date: 8/20/2010 4:10:44 PM
Received Date: 8/20/2010 4:10:47 PM
From: BRYAN Martin (EXTERNAL AREVA)

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

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Files	Size	Date & Time
MESSAGE	1541	8/20/2010 4:10:47 PM
RAI 415 Response US EPR DC - DRAFT.pdf		411376

Options

Priority: Standard
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Recipients Received:

Response to

Request for Additional Information No. 415(4599), Revision 0

7/26/2010

U. S. EPR Standard Design Certification

AREVA NP Inc.

Docket No. 52-020

SRP Section: 15 - Introduction - Transient and Accident Analyses

Application Section: FSAR Section 15.0

QUESTIONS for Reactor System, Nuclear Performance and Code Review (SRSB)

DRAFT

Question 15-9:**OPEN ITEM:**

FSAR Tier 2, Section 13.5 indicates that a COL applicant references the U. S. EPR design certification will provide plant specific information for the Emergency Operating Procedures (EOPs). The staff has reviewed FSAR 13.5.2.1 regarding the EOPs and finds that the description provided in FSAR Section 13.5 does not provide guidance to COL applicants to perform the necessary verification and validation of the EOPs that would assure the Plant specific EOPs are consistent with the safety analyses assumptions. The staff requests that AREVA propose a COL information item to require that the COL applicant perform verification and validation of its plant specific EOPs using plant simulators to assure that the operator action time assumed in the safety analyses documented in FSAR Chapter 15 are achievable to assure the safety analyses of record will remain valid.

Response to Question 15-9:

U.S. EPR Human Factors Verification and Validation (V&V) Implementation Plan will be revised to include the validation of operator action times assumed in the U.S. EPR FSAR Tier 2, Chapter 15 safety analyses. This validation will occur during integrated system validation (ISV) on the plant simulator. ISV includes validation of human system interfaces (HSIs), procedures, and training.

U.S. EPR Human Factors V&V Implementation Plan (Section 3.6) will be revised to include the following bullet for ISV:

“Integrated System Validation confirms the following:

- Safety analysis assumptions (documented in U.S. EPR FSAR Tier 2, Chapter 15) for operator action times.”

U.S. EPR FSAR Tier 1, Table 3.4-1, Item 11.0 includes an ITAAC which verifies that human factors engineering (HFE) V&V is performed in accordance with the V&V process described in the U.S. EPR HFE V&V Implementation Plan. This includes a V&V output summary report, which demonstrates that the design allows plant personnel to perform their tasks to achieve plant safety.

FSAR Impact:

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