

ArevaEPRDCPEm Resource

From: Getachew Tesfaye
Sent: Wednesday, December 10, 2008 4:02 PM
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Subject: Draft - U.S. EPR Design Certification Application RAI No. 153 (1706), FSAR Ch. 7
Attachments: Draft RAI_153_SRSB_1706.doc

Attached please find draft RAI No. 153 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,
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Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 23

Mail Envelope Properties (C56E360E9D804F4B95BC673F886381E717F91D0290)

Subject: Draft - U.S. EPR Design Certification Application RAI No. 153 (1706), FSAR Ch.
7
Sent Date: 12/10/2008 4:01:38 PM
Received Date: 12/10/2008 4:01:40 PM
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Files	Size	Date & Time
MESSAGE	742	12/10/2008 4:01:40 PM
Draft RAI_153_SRSB_1706.doc		28154

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Priority: Standard
Return Notification: No
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Sensitivity: Normal
Expiration Date:
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Draft

Request for Additional Information No. 153 (1706), Revision 0

12/10/2008

U. S. EPR Standard Design Certification
AREVA NP Inc.
Docket No. 52-020
SRP Section: 07.02 - Reactor Trip System
Application Section: 7.2

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

07.02-29

The Compliance to the Single Failure Criterion of the Reactor Trip system is discussed in Section 7.2.2.3.1 of the FSAR and in the Table 7.2.2 FMEA Summary for Reactor Trip, which conclude that the protection system maintains the ability to perform the reactor trip function in the presence of any credible single failure of an input sensor, functional unit of the protection system or reactor trip device. Table 7.2.2 includes as one failure type single failure of sensor-RCCA position measurement. However, it is unclear, if the failure of the safety-related analog position measurement or the non-safety related digital position measurement failure has been considered.

Has the failure of the safety-related analog position measurement or the non-safety related digital position measurement failure been considered as the failure type? This information is needed to assess that the single failure criteria requirements of GDC 25 are met.