

ArevaEPRDCPEm Resource

From: Snyder, Amy
Sent: Tuesday, February 05, 2013 4:16 PM
To: usepr@areva.com
Cc: Segala, John; Peng, Shie-Jeng; McKirgan, John; Gleaves, Bill
Subject: U.S. EPR Design Certification Application ADVANCED RAI No. 575, FSAR Ch. 6
Attachments: ADVANCED RAI_575_SPCV_7014.doc

Attached please find Advanced RAI No. 575 regarding your application for standard design certification of the U.S. EPR. If you have any questions or need clarification regarding this advanced 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 advanced 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 advanced RAI publicly available.

Thank You,
Amy

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Advanced Request for Additional Information 575

Issue Date: 2/5/2013

Application Title: U. S. EPR Standard Design Certification - Docket Number 52-020

Operating Company: AREVA NP Inc.

Docket No. 52-020

Review Section: 06.02.01 - Containment Functional Design

Application Section:

QUESTIONS

06.02.01-105

This is a follow-up to RAI82

Based on GDC 16, 38 and 50, the purpose of this RAI is to ensure that the components important to safety be designed to accommodate the effects of postulated accidents. The following is a request for the information on the methodology used to develop the heat sink data, e.g. thickness and total surface area as described in FSAR Table 6.2.1-4.

Clarity of Information for Tier 2 FSAR (Rev. 4) Table 6.2.1-4.

The methodology used to develop the heat sink data, e.g. thickness and total surface area as presented in the Tier 2 FSAR (Rev. 4) Table 6.2.1-4 is not provided. This information is required for the staff to understand and assure the consistency between FSAR information and GOTHIC analysis input data which was previously provided. It is noted that, in the FSAR, the total heat sink surface area for internal heat structure may be the total area exposed to the atmosphere, i.e. two-sided. However, the GOTHIC model assumes one side of the thermal conductor to be insulated. If the same data set is used in FSAR and GOTHIC, then the thickness data for the GOTHIC model should be half of the FSAR's thickness if FSAR's total surface area is for two-sided. A description of the methodology should be provided in FSAR, and the FSAR should be updated to ensure the interpretation of the surface area's and the thickness data provided in the table is clear and consistent with previous RAI response. Consideration should also be given to the clarity and consistency of the ITAAC on surface area for these heat sinks.