

ArevaEPRDCPEm Resource

From: Tesfaye, Getachew
Sent: Thursday, September 10, 2009 2:44 PM
To: 'usepr@areva.com'
Cc: Peng, Shie-Jeng; Jackson, Christopher; Snodderly, Michael; Jennings, Jason; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 267 (3234), FSAR Ch. 12
Attachments: RAI_267_SPCV_3234.doc

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on August 3, 2009, and discussed with your staff on August 19, 24, and September 10, 2009. No changes were made to the draft RAI question as a result of that discussion. The question in this RAI is considered potential open items for Phases 2 and 3 reviews. As such, the schedule we have established for your application assumes technically correct and complete responses prior to the start of Phase 4 review. If the RAI question cannot be answered prior to the start of Phase 4 review, it is expected that a date for receipt of this information will be provided 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
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Created By: Getachew.Tesfaye@nrc.gov

Recipients:

"Peng, Shie-Jeng" <Shie-Jeng.Peng@nrc.gov>
Tracking Status: None
"Jackson, Christopher" <Christopher.Jackson@nrc.gov>
Tracking Status: None
"Snodderly, Michael" <Michael.Snodderly@nrc.gov>
Tracking Status: None
"Jennings, Jason" <Jason.Jennings@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. 267 (3234), Revision 1

9/10/2009

U. S. EPR Standard Design Certification
AREVA NP Inc.
Docket No. 52-020
SRP Section: 12.03-12.04 - Radiation Protection Design Features
Application Section: 9.4, 12.3.6

QUESTIONS for Containment and Ventilation Branch 1 (AP1000/EPR Projects) (SPCV)

12.03-12.04-16

POTENTIAL OPEN ITEM

Supplemental RAI for EPR DC FSAR Section 12.3.6

1. Justify the HVAC System SSC as Described in EPR DC FSAR Section 9.4
Applicable to 10 CFR 20.1406.

In DC FSAR Chapter 9, describe the design features provided to prevent or mitigate contamination of the environment; from the HVAC equipment drains for supply, recirculation or discharge air handling units, from the below grade HVAC Systems, Structures or Components (SSC), and due to pressure differentials in the ventilation system associated with normal or expected operation. If design features are not used, provide a description in DC FSAR Chapter 12 of procedures for operations to be used to prevent or mitigate contamination of the environment and provide the associated justification for not incorporating design features.

2. Justify the HVAC System Configuration as Described in EPR DC FSAR Section 9.4
Applicable to 10 CFR 20.1406.

In DC FSAR Chapter 9, describe the design features provided to prevent or mitigate contamination of the environment resulting from equipment configurations such as; 1) the placement of HVAC inlets to prevent contamination by flooding, 2) the provision of moisture or resin traps on tank and vents prior to connection the HVAC system duct, 3) design configuration of system components to minimize the potential for contamination transport resulting from switching ventilation modes, and 4) contamination due to filter element failure. If design features are not used, provide a description in DC FSAR Chapter 12 of procedures for operations to be used to prevent or mitigate contamination of the environment and provide the associated justification for not incorporating design features.