

## ArevaEPRDCPEm Resource

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**Sent:** Wednesday, November 06, 2013 8:30 AM  
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**Subject:** US EPR DC DRAFT RAI 616, Chapter 12, Section 12.03-12.04 Radition Protection Design Features  
**Attachments:** Draft RAI 616\_RPAC\_7267.docx

Attached please find Draft RAI No. 616 regarding your application for standard design certification of the U.S. EPR. If you have any questions or need clarification regarding this Draft 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 Draft RAI to ensure that we have not inadvertently included proprietary information. If there is 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.

Thank you,

Mike

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**Hearing Identifier:** AREVA\_EPR\_DC\_RAIs  
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## **Draft Request for Additional Information 616**

Issue Date: 11/06/2013

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

Operating Company: AREVA NP Inc.

Docket No. 52-020

Review Section: 12.03-12.04 - Radiation Protection Design Features

Application Section: 12.3

### QUESTIONS

#### 12.03-35

In reviewing EPR FSAR Revision 5, staff identified several changes to Chapter 12 that were not the result of Chapter 12 RAIs and did not appear to be included in the non-RAI related changes presented to staff. As a result of these changes, staff has the following questions:

1. GDC 61 requires in part that radwaste systems are designed with appropriate filtering systems. In Revision 5, staff noted that the applicant made changes to FSAR Figure 12.3-74, removing filters, valves, and other components from the Radwaste Building ventilation system downstream of radiation monitors R-20 and R-22. However, these filters are credited for filtering Radwaste Building air prior to discharge to the environment in FSAR Table 11.5-1.

In addition, the Radwaste Building ventilation system is also shown in FSAR Figures 9.4.8-1 and 9.4.8-2 and the filters, valves, etc. downstream of monitors R-20 and R-22 were not removed from these figures, in Revision 5 of the FSAR..

Please indicate if the changes to Figure 12.3-74 were intended to represent a design change, and if so, justify the change. In addition, please ensure that Figure 12.3-74 is consistent with the ventilation system figures provided in Chapter 9 or if Figure 12.3-74 is not intended to represent the actual ventilation design, include a statement in Chapter 12 of the FSAR indicating that Figure 12.3-74 is not to be used for design purposes and that the actual ventilation system design is provided in Chapter 9 or remove Figure 12.3-74 and change the FSAR sections referencing this figure to the appropriate Chapter 9 figure.

2. In FSAR Section 12.3.6.5, in the third bullet under, "The following design features have been incorporated into the U.S. EPR to minimize contamination of the environment" the applicant states that, "The three U.S. EPR penetration categories are described in Figure 6.2.3.2.3." However, Figure 6.2.3.2.3 does not exist in the EPR FSAR. I believe the applicant may be referring to Section 6.2.3.2.3. Please correct this error.