

ArevaEPRDCPEm Resource

From: Tesfaye, Getachew
Sent: Thursday, March 11, 2010 9:06 AM
To: 'usepr@areva.com'
Cc: Li, Chang; Lee, Samuel; Hsu, Kaihwa; Dixon-Herrity, Jennifer; Miernicki, Michael; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: Draft - U.S. EPR Design Certification Application RAI No. 377 (4472,4462), FSAR Ch. 3, OPEN ITEMS
Attachments: Draft RAI_377_SBPB_4472_EMB1_4462.doc

Attached please find draft RAI No. 377 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,
Getachew Tesfaye
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Request for Additional Information No. 377 (4472, 4462), Revision 0

3/11/2010

U. S. EPR Standard Design Certification
AREVA NP Inc.
Docket No. 52-020

SRP Section: 03.04.01 - Internal Flood Protection for Onsite Equipment Failures
SRP Section: 03.12 - ASME Code Class 1, 2, and 3 Piping Systems and Piping Components and Their
Associated Supports
Application: FSAR Chapter 3

QUESTIONS for Balance of Plant Branch 2 (SBPB)

03.04.01-13

Open Item

Follow-up to RAI 218, Question 03.04.01-10

In response to Question 03.04.01-10, the applicant stated that implementation of the maintenance program is the responsibility of the combined license (COL) applicant. The staff agrees with the applicant's determination. Based on this determination, U.S. EPR FSAR needs to identify a COL information item so that the COL applicant will be required to address the issue of watertight doors in the COL application.

03.12-23

Open Item

Follow-up to RAI 331, Question 03.12-22

The response to Question 03.12-22 does not provide technical basis to address SRP 3.12. Please provide technical justification to address the following question:

In FSAR Section 3.12.6.11, AREVA referenced Section 6.11 of ANP-10264NP-A to address pipe support gaps and clearances used in the design of pipe supports. AREVA states that the normal design practice for the U.S. EPR will be to use a normal cold condition gap of one-sixteenth inch on each side of the pipe in the restrained direction.

SRP 3.12 states that this gap must account for the diameter expansion of the pipe due to temperature and pressure. The acceptance criteria for the minimum gap (total of opposing sides) between the pipe and the support will be reviewed on a case by case basis.

1. The staff noted that 1/16" cold condition gap on each side of pipe in the restrained direction may not provide sufficient radial expansion of the pipe in the restrained direction for Class 1&2 large bore piping. The staff requests AREVA to demonstrate that 1/16" gap has accounted for radial expansion.

2. The staff also noted that 1/16" cold gap indicates the pipe is not supported vertically during cold condition. The staff requests AREVA to demonstrate that the pipe support design with 1/16" cold gap is adequate during cold condition.