

ArevaEPRDCPEm Resource

From: Tesfaye, Getachew
Sent: Wednesday, July 14, 2010 10:00 AM
To: 'usepr@areva.com'
Cc: McCann, Edward; Dreisbach, Jason; Lee, Samuel; Segala, John; Hearn, Peter; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 409(4676), FSAR Ch. 9
Attachments: RAI_409_SBPA_4676.doc

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on May 25, 2010, and discussed with your staff on June 30, 2010. Drat RAI Question 09.05.01-78 was modified as a result of that discussion. The schedule we have established for review of your application assumes technically correct and complete responses within 30 days of receipt of RAIs. For any RAIs that cannot be answered within 30 days, it is expected that a date for receipt of this information will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the published schedule.

Thanks,
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Hearing Identifier: AREVA_EPR_DC_RAIs
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Request for Additional Information No. 409(4676), Revision 1

7/14/2010

U. S. EPR Standard Design Certification
AREVA NP Inc.
Docket No. 52-020
SRP Section: 09.05.01 - Fire Protection Program
Application Section: 9.5.1

QUESTIONS for Balance of Plant Branch 1 (SBPA)

09.05.01-78

Follow-up to RAI 298, Question 09.05.01-72

The applicant's Response to Request for Additional Information No. 298, Supplement 2 for Question 09.05.01-72 stated that "It is not anticipated, with the use of low power portable radios, that the exclusion zones will be wide enough to compromise effective communications within any vital area. The intent of RG 1.189, Regulatory Position 4.1.7(b) guidance will be met in all vital areas. In the event that specific exclusion zones are identified, an alternative means of communications via one of the fixed communication systems is provided. The type and location of the required communication system devices for use in the exclusion zones is determined on an as-needed basis so that these are free of fire effects for any fire area that requires communication." The applicant needs to add the statement below into the U.S. EPR Final Safety Analysis Report Markups for Section 9.5.1.2.1 applicable for FSAR Revision 2-Interim for Question 09.05.01-72, Communications, as shown below in bold and underlined text (Sentences were rearranged from that shown above):

Communications

For the purposes of fire fighting and operational post-fire safe shutdown activities, the U.S. EPR plant relies on the portable wireless communication system described in Section 9.5.2. Section 9.5.2.2.1. The system is multi-channeled and is capable of interfacing with the public address and digital telephone systems. Use of the portable wireless communication system does not interfere with the communications capabilities of the plant security force. Fixed components of the portable wireless communication system are protected as necessary from fire damage to provide seamless effective communication capability in all vital plant areas. **It is not anticipated, with the use of low power portable radios, that the exclusion zones will be wide enough to compromise effective communications within any vital area. In the event that specific exclusion zones are identified, an alternative means of communications via one of the fixed communication systems is provided. The type and location of the required communication system devices for use in the exclusion zones is determined on an as-needed basis so that these are free of fire effects for any fire area that requires communication. The intent of RG 1.189, Regulatory Position 4.1.7(b) guidance will be met in all vital areas.** Section 9.5.2.2.1 addresses

capabilities of the portable wireless communication system and potential EMI/RFI effects.

RG 1.189, Regulatory Position 4.1.7 considers the portable radio communication system to be separate from the fixed emergency communication systems. The public address communication system fulfills the requirement for a fixed emergency communication system per Regulatory Position 4.1.7.a. This regulatory position does not require a fixed emergency communication system to be dedicated to fire protection. The fixed emergency communication system only needs to be independent of the normal plant communication system. Sections 9.5.2.1 and 9.5.2.2 address the public address communication system design and capabilities. The public address communication system is installed at pre-selected locations and is independent of the normal fixed digital communication system. As independent, separate, and not dedicated to fire protection, the public address communication system does not need to meet the electrical separation requirements in RG 1.189, Regulatory Position 5.3, with regard to other communication systems.