

REQUEST FOR ADDITIONAL INFORMATION 825-5999 REVISION 3

9/6/2011

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 09.04.05 - Engineered Safety Feature Ventilation System

Application Section: Tier 1 Section 2.7.5.2 and Tier 2 Section 9.4.5

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

09.04.05-20

OPEN ITEM

This is a follow-up to RAI No. 474-3811, Question No. 09.04.05-10.

Revision 3 of the DCD does not reflect the changes to ITAAC Table 2.7.5.2-3 Item 4.b committed to by the applicant's response to Question 09.04.05-10. Instead, revision 3 of Tier 1 Table 2.7.5.2-3 Item 4.b refers to the rooms described in Tier 1 subsection 2.7.5.2.1.2. Subsection 2.7.5.2.1.2 fails to address: (a) the CRDM Panel Room, (b) the M-G Set and M-G Set Panel Room, (c) the Leak Rate Testing Room, (d) the Reactor Trip Breaker Room, and (e) the AAC Selector Circuit Panel Room and (f) the humidity limits of the Remote Shutdown Console Room.

The staff requests that the applicant revise ITAAC Table 2.7.5.2-3 Item 4.b and/or subsection 2.7.5.2.1.2 to reflect the committed to changes of RAI No. 474-3811, Question No. 09.04.05-10.

09.04.05-21

This is a follow-up RAI of NRC RAI ID 4773, Question 09.04.05-16 based on the staff's review of Revision 3 of the US-APWR DCD. The applicant responded to Question 09.04.05-16 that Technical Report "Safety-Related Air Conditioning, Heating, Cooling, and Ventilation Systems Calculations" (MUAP-10020) submitted to the NRC includes the content of Calculation NO-EE23201 and will be included as a reference in DCD subsection 6.5.7 and 9.4.8.

The staff notes that the applicant failed to amend DCD subsection 6.5.7 with a reference to Technical Report MUAP-10020, Revision 1 dated March, 2011. The staff also notes that the date of reference 9.4.8-30 (i.e. MUAP-10020) should be changed from November, 2010 to March, 2011. The staff requests that the applicant revise the DCD to remove these deficiencies.

09.04.05-22

This is a follow-up RAI No. 64-735, Question No. 09.04.05-01 RAI 9.4.5-18 and RAI No. 582-4456 Question 09.04.01-20 (ML102010040) due to DCD

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Revision 3 Tier 1 changes to Item 12 of ITAAC Table 2.6.5-1. The staff notes that Revision 3 of the US-APWR DCD Tier 1 deleted Item 12 from Table 2.6.5-1.

Please explain why deletion of Item 12 is acceptable.