

REQUEST FOR ADDITIONAL INFORMATION 536-4289 REVISION 2

3/2/2010

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 11.04 - Solid Waste Management System

Application Section: 11.4

QUESTIONS for Balance of Plant Branch 2 (ESBWR/ABWR) (SBPB)

11.04-20

RAI US-APWR 11.4-12 Supp 1 (Related to eRAI 2008, Question 7897)

The staff originally asked the applicant in RAI 187-2008, Question 11.4-12 to provide the control set points for the resin filling and dewatering systems as part of a COL information item or provide justification for why it was not part of a COL information item.

The applicant, in its RAI-response, stated that “details regarding the level instrument control ranges setpoints and references for the high-integrity container filling and dewatering operations will be determined in the detailed design.” This is not justification for not including these design details, which the COL applicants are responsible for addressing, in the context of a COL information item. The staff requests that the applicant revise COL information item 11.4(7) in the DCD to include these design details that the COL applicants are responsible for addressing as indicated in Section 11.4.2.4 of the DCD text.

11.04-21

RAI 11.4-6 Supp 1 (Related to eRAI 2008, Question 7891)

The staff asked the applicant in RAI 187-2008, Question 11.4-6 to provide in the DCD additional information to justify how the guidance in Regulatory Guide 1.143, Regulatory Position 5 is met. The applicant replied to Question 11.4-6 in its response to Request for Additional Information (RAI) Number 187-2008, Revision 1, dated March 11, 2009. In its response the applicant stated, “Component classifications for the SWMS are presented in DCD Section 3.2, Table 3.2-2, item 16, and are consistent with Table 1 of Regulatory Guide 1.143.”

The staff has reviewed the applicant's RAI response and recognizes that DCD Section 3.2.2.5, “Other Equipment Classes,” states, “The codes and standards defined in RG 1.143, Table 1, are applied to equipment Class 6 components.” However, RG 1.143, Regulatory Position 5, “Classification of Radwaste Systems for Design Purposes,” states:

“Any systems or components in a RW-IIa facility that store, process, or handle radioactive waste in excess of the A1 quantities given in Appendix A, ‘Determination of A1 and A2,’ to 10 CFR Part 71, ‘Packaging and Transportation

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of Radioactive Material,' are classified as RW-IIa. These systems or components that process radioactive waste in excess of the A2 quantities but less than the A1 quantities given in Appendix A to 10 CFR Part 71 are classified as RW-IIb. All other components are classified as RW-IIc. This classification may be modified for specific radwaste components."

To ensure that RG 1.143, Regulatory Position 5 guidance is met, the applicant is requested to provide a discussion of each of the SWMS components and the quantities of radioactive waste they process. Based on this discussion, provide in the DCD appropriate classifications (RW-IIa, RW-IIb, or RW-IIc) for the systems or components that process radioactive waste similar to the proposed Table 11.2-20 for the LWMS.