

REQUEST FOR ADDITIONAL INFORMATION 389-2919 REVISION 1

6/15/2009

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 09.01.02 - New and Spent Fuel Storage

Application Section: 9.1.2

QUESTIONS for Component Integrity, Performance, and Testing Branch 1 (AP1000/EPR Projects)
(CIB1)

09.01.02-24

Background

RAI 09.01.02-18 (Reference 1) requested that the applicant explain special preparation of surfaces in the spent fuel pit to ensure that (1) corrosion products and fission products do not accumulate, (2) surfaces can easily be decontaminated, and (3) fuel assemblies will not be damaged.

In the applicant's response (Reference 2), information was supplied about the SFP liner material and surfaces. In addition, the New and Spent Fuel racks were assured to be free of burrs, sharp corners, edges, and weld beads or splatter which could damage fuel assembly surfaces. Both of these explanations partially answer the original request, and satisfy provisions of the acceptance criteria (ANSI/ANS-57.2). However, the applicant does not address the surface finish of the racks themselves, which must have a minimum smoothness (ANSI/ANS-57.2, paragraph 6.4.2.11).

Requested Information

1. State the acceptable surface finish requirements for storage rack materials which must come into contact with fuel assemblies.

References

1. "Request for Additional Information No. 248-2178 Revision 1, SRP Section: 09.01.02 – New and Spent Fuel Storage, Application Section: DCD Tier 2, Section 9.1.2" dated December 18, 2008. (ADAMS Accession No. ML090620646)
2. Letter from Yoshiki Ogata, MHI, to NRC dated March 30, 2009; Docket No. 52-021 MHI Ref: UAP-HF-09128; Subject: MHI's Response to US-APWR DCD RAI No. 248-2178 Revision 1 (ADAMS Accession No. ML090910646)