

REQUEST FOR ADDITIONAL INFORMATION 647-4651 REVISION 1

10/7/2010

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 09.01.01 - Criticality Safety of Fresh and Spent Fuel Storage and Handling
Application Section: 9.1.1

QUESTIONS for Reactor System, Nuclear Performance and Code Review (SRSB)

09.01.01-22

Standard Review Plan Section 9.1.1 (NUREG-0800) states "accidental or erroneous placement of a fuel assembly outside of, but next to, the fuel storage racks should be considered as an abnormal condition". Section 2.2.1.2 of MUAP-07032-P, Criticality Analysis for US-APWR New and Spent Fuel Storage Racks, Revision 1, states, "The rack structure and the fuel handling equipment are designed to preclude the fuel assembly misplacement and drop as the fuel handling accident." Provide justification or calculation to validate this conclusion.

09.01.01-23

Standard Review Plan 9.1.1 (NUREG-0800) states that abnormal conditions such as dropped load should be considered. Section 2.2.1.2 of MUAP-07032-P, Criticality Analysis for US-APWR New and Spent Fuel Storage Racks, Revision 1, states, "The rack structure and the fuel handling equipment are designed to preclude the fuel assembly misplacement and drop as the fuel handling accident." Provide justification or calculation to validate this conclusion.