REQUEST FOR ADDITIONAL INFORMATION 715-5262 REVISION 2

3/14/2011

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 06.05.02 - Containment Spray as a Fission Product Cleanup System
Application Section: 6.5.2

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

06.05.02-9

The February 25, 2010 response to RAI question 06.05.02-8, referred to three license amendments for currently operating plants as precedents with respect to the design basis LOCA modeling of iodine behavior in the containment and potential for re-evolution from the pool for the time period that the pH of the sump fluid is less than 7. Provide a discussion of the iodine behavior and conditions in the US-APWR containment that justifies that the additional dose from potential re-evolution of iodine from the sump during the first 15 hours of the LOCA is not expected to be substantial and supports application of the cited precedents to the US-APWR design.
ADAMS accession numbers for cited Grand Gulf submittals:
Grand Gulf: ML003679610 (original submittal package), ML003679582 (iodine re-evolution calculation), ML010300358 (response to RAI)