

REQUEST FOR ADDITIONAL INFORMATION 607-4778 REVISION 2

7/20/2010

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 19 - Probabilistic Risk Assessment and Severe Accident Evaluation
Application Section: 19

QUESTIONS for PRA and Severe Accidents Branch (SPRA)

19-438

The staff reviewed the initiating event frequencies for: LOCA (inadvertent transfer of RCS out of the RCS), Loss of RHR caused by other failures (LORHR), and Loss of Component Cooling Water/Essential Service water (LOCS). The staff noted that these initiating event frequencies were calculated using fault tree analysis. Initiating event frequencies should be calculated using operational data such as EPRI TR-1003113, "An Analysis of Loss of Decay Heat Removal Trends and Initiating Event Frequencies (1989-2000)." Please revise the initiating frequencies for LOCA, LORHR, and LOCS to reflect US shutdown operational data.