

**REQUEST FOR ADDITIONAL INFORMATION 882-6237 REVISION 3**

1/3/2012

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 15 - Introduction - Transient and Accident Analyses  
Application Section: 15.0

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

15-37

The NRC is reviewing MUAP-07026, "Mitsubishi Reload Evaluation Methodology," as part of Chapter 15. The staff notes that this report, which prescribes key parameters for accident analysis, has not been revised since it was initially issued in Nov 2007. What are the plans for incorporating into MUAP-07026, the DCD changes proposed in RAI responses regarding Chapter 15 accident analysis?

15-38

Tables 15.0-4, "Reactor Trip and ESF Actuation Analytical Limits and Time Delays Assumed for Transient Analyses," and 15.0-5 "Mitigation System Time Delays" summarize the actuation limits and delay times for functions credited in the Chapter 15 analyses. The staff notes that these tables do not include the following functions: main feedwater isolation on a high-high steam generator water level signal, which is credited in the increase in feedwater flow event (Section 15.1.2), and CVCS isolation on high pressurizer water level, which is credited in the CVCS malfunction event (Section 15.5.2). Please provide the associated actuation analytical limits and time delays as discussed in SRP 15.0, Section 4.

15-39

The response to RAI 399-2992, Question 16-298 proposed changes to the DCD Section 15.5.2 event to credit automatic isolation of CVCS to terminate the event, but the single failure justification provided in response to RAI 297-2287, Question 15.0.0-11 was not updated. Provide the single failure analysis associated with the revised analysis for the event.