

**REQUEST FOR ADDITIONAL INFORMATION 307-2336 REVISION 1**

4/2/2009

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 15.05.01-15.05.02 - Inadvertent Operation of ECCS and Chemical and Volume Control System Malfunction that Increases Reactor Coolant Inventory  
Application Section: 15.5.2

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

15.05.01-15.05.02-1

**Question 15.5.2-1**

In Section 15.5.2, it is indicated that the reactor is tripped at 1064 seconds. Explain why the turbine does not trip at that time and cause a LOOP? Discuss whether the consequences of this AOO would be different if the analysis assumed a LOOP following reactor and turbine trip?

15.05.01-15.05.02-2

**Question 15.5.2-2**

In Section 15.5.2, the applicant indicates that the CVCS charging pump continues to inject into the RCS until the pressurizer fills (1176 seconds). Since the CVCS letdown flow path is assumed to be isolated and no operator actions are assumed to shut down the CVCS pump in the analyses, discuss how the transient is terminated?

15.05.01-15.05.02-3

**Question 15.5.2-3**

Provide the transient curve for DNBR verses time in the Section 15.5.2 analysis.