

# REQUEST FOR ADDITIONAL INFORMATION 298-2367 REVISION 1

4/1/2009

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 15.06.03 - Radiological Consequences of Steam Generator Tube Failure (PWR) 07/1981  
Application Section: 15.6.3

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

15.06.03-1

## **Question 15.6.3-1**

In FSAR Section 15.6.3, "Steam Generator Tube Rupture," provide the results of the analyses that led to the conclusion that the case presented is the limiting case for radiological release. For the limiting single failure assumed in this event, compare the consequences of a stuck open Main Steam Relief Valve (MSRV) in the failed SG or the unaffected SGs with the current assumption of a failure to one of the redundant emergency feedwater trains. A stuck open MSRV in the failed SG will lead to prolonged direct release of contaminated steam to the atmosphere. A stuck open MSRV in the other SG will cause delay in RCS cooldown and depressurization and lead to prolonged leak flow from the RCS to SG.

15.06.03-2

## **Question 15.6.3-2**

Provide the transient curve for DNBR verses time for the SGTR analysis.