

REQUEST FOR ADDITIONAL INFORMATION 694-5355 REVISION 1

2/10/2011

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 05.03.02 - Pressure-Temperature Limits, Upper-Shelf Energy, and Pressurized Thermal Shock

Application Section: 05.03.02, MUAP-09016

QUESTIONS for Component Integrity, Performance, and Testing Branch 1 (AP1000/EPR Projects) (CIB1)

05.03.02-11

The US-APWR Pressure and Temperature Limits Report (Technical Report MUAP-09016) describes how the P-T limits for the US-APWR reactor vessel have been developed based on the evaluation of the beltline and closure flange regions. However, MUAP-09016 does not mention any consideration given to the vessel nozzles. Clarify how the analyses performed to develop the P-T limits for the US-APWR design has considered the entire reactor vessel, including the beltline, closure flange, and nozzle regions.