

REQUEST FOR ADDITIONAL INFORMATION 623-4942 REVISION 0

8/30/2010

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 06.02.01 - Containment Functional Design
Application Section: 6.2.1

QUESTIONS for Containment and Ventilation Branch 1 (AP1000/EPR Projects) (SPCV)

06.02.01-18

RAI 06.02.01.05-3 – Supplement: In RAI 06.02.01.05-3 the staff requested justification for the use of 70°F as the minimum containment temperature. In your response you stated that 70°F is the Nil-Ductility Transition Temperature (NDTT) + 60°F, and that the NDTT is 10°F. Please, justify the NDDT value of 10°F.

06.02.01-19

RAI 06.02.01.05-4 – Supplement: In **RAI 06.02.01.05-4** the staff requested a justification of the use of only 2 ASIS to calculate the minimum containment pressure. MHI's response referred to assumptions used in DBA peak pressure analysis. However, the minimum pressure analysis requires different set of conservative assumptions. Since there are 4 ASIS available, all four should be assumed to be activated for removing the energy from the containment atmosphere at the highest possible rate. Please, revise your analysis with the assumption of all 4 ASIS operational and re-do the calculations accordingly.

06.02.01-20

RAI 06.02.02-7 – Supplement: In **RAI 06.02.02-7**, the staff requested evaluation of the HX fouling in the CSS/RHR system and its effect on heat removal capabilities. The applicant responded that HX fouling was considered, but values were not provided. Please, provide the values of the HX fouling used, including justification, as well as comparison of heat removal calculations with and without fouling.