

# REQUEST FOR ADDITIONAL INFORMATION 285-2334 REVISION 0

3/24/2009

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

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

05.03.02-1

Based on the US-APWR Design Center Working Group (DCWG) meeting on March 9, 2009 between Mitsubishi Heavy Industries (MHI), Luminant Power and NRC staff, it is our understanding that MHI plans to submit either a generic pressure-temperature (P-T) limits curve or a pressure and temperature limits report (PTLR) using the bounding material properties and projected fluence as part of Design Certification. Therefore, the NRC staff requests the following additional information:

- Confirm your decision to submit P-T limits or a PTLR (following NRC Generic Letter 96-03)
- Provide an estimated time of submission based on your decision (P-T limits curve or PTLR)
- Provide the detailed methodologies, assumptions, etc. used in the development of P-T limits curve or PTLR
- Revise the FSAR including all related COL Action Items, accordingly

NOTE: If the applicant (MHI) chooses to submit P-T limit curves based on generic, bounding values, then submittal of fluence calculations at the design certification stage is not necessary, but a new COL item should be included in the DCD for the COL applicant to provide fluence calculations based on final fuel design and material properties. However, if the applicant (MHI) chooses to submit a PTLR, then the applicant will need to submit fluence calculations during the design certification stage.