

REQUEST FOR ADDITIONAL INFORMATION 608-4776 REVISION 2

7/20/2010

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 19 - Probabilistic Risk Assessment and Severe Accident Evaluation
Application Section: 19

QUESTIONS for PRA and Severe Accidents Branch (SPRA)

19-439

The staff has reviewed MHI's response to RAI 19-412. The staff did not find the core exit thermocouples (CETs) in D-RAP (Table 17.4-1). A total loss of the RHR function will result in a loss of temperature indication in the RCS vessel without the CETs. RCS boiling often results in level indication inconsistencies. Please add the CETs to Table 17.4-1 or justify why their omission is acceptable and is consistent with the staff recommendations outlined in GL 88-17.

19-440

The staff has reviewed MHI's response to RAI 19-416. Please explain why the revised risk insight states, "Adoption of at least **one of the measures** listed below can reduce risk from surge line flooding...". Please update this insight to state that both measures will be adopted, or please justify why both measures would not be taken to mitigate an extended loss of the RHR function.