REQUEST FOR ADDITIONAL INFORMATION 885-6242 REVISION 0

1/9/2012

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 06.02.02 - Containment Heat Removal Systems
Application Section: 6.2.2

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

06.02.02-87

This is a follow-up to RAI No. 857-6110 Question 06.02.02-86

The staff extracted information from MUAP-08001-P for this followup RAI that has been designated as PROPRIETARY. No Proprietary information is to be included in the eRAI system.

Staff guidance, quoted by MHI on the bottom of page 6.2.2-5 of RAI 857-6110 Question 06.02.02-86 response, recommends a flow sweep to verify that the strainer head loss varies relatively linearly with flow in order to support a temperature scaling approach using a ratio of water viscosities.

MHIs response to RAI 857-6110 Question 06.02.02-86, did not discuss the flow sweep data. Given that the flow sweep data was not addressed, this follow-up RAI was written.

The staff request MHI to provide justification for temperature scaling the US-APWR plant specific debris head loss using a ratio of the water viscosities. As part of the discussion the staff would like to know how the US-APWR test data, e.g., flow sweep and CSHL measured data, are being applied by MHI to support the selected scaling approach.