

**REQUEST FOR ADDITIONAL INFORMATION 422-2823 REVISION 0**

7/7/2009

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 06.02.02 - Containment Heat Removal Systems

Application Section: 6.2 and 6.3

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

06.02.02-52

A test plan was included as Enclosure 2 to MHI letter UAP-HF-09204 dated April 24, 2009. The test plan was reviewed by the NRC and it appears similar to test plans/protocols that the NRC has significant questions on for the operating fleet and could impact the acceptability of this testing. For example: flow modeling debris approach to the strainer, debris suspension in the flume (dependent on turbulence), and how flow entering the containment pool is modeled in the test flume. Therefore the NRC has the following information request:

Compare and contrast the Test Plan described in Enclosure 2 with similar plans/protocols implemented by PCI for operating reactor strainer qualification. Provide a detailed description of the technical issues/concerns associated with these PCI test plans/protocols. For those issues that are applicable to the US-APWR strainer design, how have they been resolved or are being addressed to support the MHI US-APWR strainer design qualification testing.