

**REQUEST FOR ADDITIONAL INFORMATION 736-5644 REVISION 2**

4/20/2011

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 06.02.02 - Containment Heat Removal Systems

Application Section: 6.2

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

06.02.02-63

The staff requests that MHI identify the sources of aluminum surface area and the inspections and controls that will be in place for each source to ensure that no more than 810 square feet of aluminum will be exposed to the post-LOCA sump fluid. Report MUAP-08006-P (R1) identifies 810 square feet as the actual plant aluminum surface area. This area was the basis for the chemical effects testing and modeling used to determine the quantity of chemical debris. The staff's review of the chemical effects portion of the US-APWR design is based, in part, on MHI's identification of 810 square feet as part of the licensing basis of the design. DCD Section 6.1.1.2.1 states that the use of aluminum is "limited as much as practicable," but it does not describe how the quantity will be tracked and limited.