

REQUEST FOR ADDITIONAL INFORMATION 586-4690 REVISION 2

5/10/2010

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 09.04.04 - Turbine Area Ventilation System

Application Section: DCD Section 9.4.4

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

09.04.04-6

OPEN ITEM -- New RAI

The staff notes that General Design Criterion (GDC) 2, "Design Bases for Protection Against Natural Phenomena," of Appendix A, "General Design Criteria for Nuclear Power Plants," to Title 10, Part 50, of the *Code of Federal Regulations* (10 CFR Part 50), "Domestic Licensing of Production and Utilization Facilities" (Ref. 1), requires that "nuclear power plant structures, systems, and components (SSCs) important to safety must be designed to withstand the effects of earthquakes without loss of capability to perform their safety functions" (emphasis added). The staff notes that important to safety is a more broad category than safety-related. The DCD includes the design commitment that "Safety-related equipment is not located in this area."

Based on this design commitment, the staff can not conclude that GDC 2 is met because the scope of important to safety is larger than safety-related. The commitment must be expanded to include the adverse effects on SSCs important to safety or the system must be designed to meet GDC 2. Please revise the DCD to address GDC 2 and components that are important to safety.