

REQUEST FOR ADDITIONAL INFORMATION 862-6165 REVISION 3

11/7/2011

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 10.04.08 - Steam Generator Blowdown System

Application Section: 10.4.8

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

10.04.08-9

The staff requests that the applicant explain the basis for deleting the containment isolation signals of high water level and high pressure in the steam generator blowdown flash tank in Revision 3 of the DCD. According to the DCD Revision 3 change list, these containment isolation signals were deleted based on "engineering progress." Specifically, the staff requests the following: (a) describe the process and criteria for determining the need for SGBDS containment isolation signals, and (b) describe the "engineering progress" and how it resulted in deletion of these isolation signals.

10.04.08-10

The staff requests that the applicant clarify the basis for the changes to the Steam Generator Blowdown System parameters listed in Table 10.4.8-1. According to the DCD Revision 3 change list, "safety evaluation" parameter values were changed to "design parameters" based on "engineering progress." The meaning of these terms and the significance of the changes are not clear to the staff. For example, the flash tank capacity was increased from 300 to 370 cubic feet, and the demineralizer flow rate was decreased from 320 to 316 gallons per minute.

10.04.08-11

The staff requests that the applicant address a possible discrepancy between the equipment classifications for the Steam Generator Blowdown System (SGBDS) listed in Tables 1.9.2-10 and 3.2-2. According to Table 1.9.2-10, the "portion [sic] of outer containment valve excluding itself is designed as class 4," but Table 3.2-2 states the portions of the system outside the first containment isolation valves are equipment class 3 or 6. Please clarify these equipment classifications and describe any plans for revising the DCD.