

REQUEST FOR ADDITIONAL INFORMATION 829-6059 REVISION 3

9/19/2011

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 07.08 - Diverse Instrumentation and Control Systems

Application Section: 7.8

QUESTIONS for Instrumentation, Controls and Electrical Engineering 2 (ESBWR/ABWR Projects)
(ICE2)

07.08-25

BTP 7-19 Revision 5, Section 3 "Acceptance Criteria," on page 7-19-7 specifically states that *"...the displays and controls should be sufficient for the operator to monitor and control the following critical safety functions: reactivity level, core heat removal, reactor coolant inventory, containment isolation, and containment integrity."*

DCD Chapter 7.8, Table 7.8-2, shows the variables monitored by the DAS. As seen on Table 7.8-2, reactivity control, core heat removal, reactor coolant inventory and containment integrity are monitored as part of the DAS variables on the DHP. But these variables do not specifically address how the DAS monitors the containment isolation function as stated in BTP 7-19. The DAS has various manual conventional actuation switches available in the DHP for operator control of these functions, including a manual containment isolation switch which closes all major containment isolation valves at once, as mentioned on page 3-4 of MUAP-07014 Revision 3. The staff does not find how the DAS specifically monitors containment isolation on the DHP and requests MHI to clarify how the DAS monitors that the containment isolation function has occurred.