

REQUEST FOR ADDITIONAL INFORMATION 822-5861 REVISION 3

9/6/2011

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 03.09.03 - ASME Code Class 1, 2, and 3 Components
Application Section: Section 3.9.3

QUESTIONS for Engineering Mechanics Branch 2 (ESBWR/ABWR Projects) (EMB2)

03.09.03-26

In the supplemental question 03.09.03-1, the staff requested that MHI provide a specific list of the ASME design specifications for the risk-significant mechanical components. The purpose of this question in part was to obtain a list of components to be selected from for design specifications audits in conformance with SRP Section 3.9.3. In the supplemental response to question 03.09.03-01 (provided in supplemental response to RAI 209-1803 Revision 1, UAP-HF-11058), MHI states the following:

"MHI have already provided the information on the ASME Section III requirements, design specifications and stress reports for the risk-significant mechanical components by the MHI's letter UAP-HF-10207 "Updated Design Completion Plan for US-APWR Piping Systems and Components" dated on July 21, 2010. This letter described the specific list of components. MHI will prepare these design specifications and stress reports to be available for an NRC audit on June 2011."

UAP-HF-10207 Sections 3.2 and 4.2 state that design specifications for all piping, systems, and components (PSCs) will be available for audit. On May 12, 2011, MHI submitted a revised design completion plan for US-APWR piping systems and components in MHI letter UAP-HF-11135. This letter states in Section 4.2:

"Design specifications of all risk significant ASME Class 1, 2, and 3 components, except valves and orifice, will be modified to incorporate the seismic responses resulting from the FEM, will be available in March 2012 as shown in Table -3."

UAP-HF-10207 and UAP-HF-11135 provide general lists of PSCs and schedules for the availability of design specifications for various PSC groups. These do not provide specific lists of components requested by the staff.

The staff reviewed the lists of PSCs in the US-APWR DCD Tier 2. Table 17.4-1 lists risk significant components but does not identify which components are ASME Division 1, Section III. The staff reviewed DCD Tier 2 Table 3.2-2, that identifies which PSC are ASME Division 1, Section III, but Tables 3.2-2 and 17.4-1 are not directly comparable. (These tables are organized differently since they address different review criteria.) For example, the pressurizer is included as part of the reactor coolant system in Table 3.2-2

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but not in Table 17.4-1. Therefore, the staff cannot readily identify a specific list of risk-significant mechanical components from the DCD.

The staff requests MHI to provide a specific list of risk-significant ASME Division 1, Section III components.