REQUEST FOR ADDITIONAL INFORMATION 375-2770 REVISION 0

5/21/2009

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: SRP 3.9.3

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

03.09.03-24

In US-APWR DCD, Revision 1, section 3.9.3.4.2.5,the DC applicant stated that "The COL Applicant is to assure snubber functionality in harsh service conditions, including snubber materials (e.g., lubricants, hydraulic fluids, seals)." Past industry experience with snubber failures has demonstrated that the failure modes of mechanical snubbers are not readily discernable by visual inspection or even physical stroking. The service life of snubbers is effected by environments with elevated temperatures. The staff requests that the DC applicant address the method of evaluating the projected life of snubbers.

According to 10 CFR 52.47(b)(1), a DC application must contain the proposed inspections, tests, analyses, and acceptance criteria (ITAAC) that are necessary and sufficient to provide reasonable assurance that, if the inspections, tests, and analyses are performed and the acceptance criteria met, a plant that incorporates the design certification is built and will operate in accordance with the design certification, the provisions of the Atomic Energy Act, and the NRC's regulations.
The staff understands that COL applicants will address the final resolution of the issue. However, the current setup of a Combined License Information Item alone in the Design Certificate application is not sufficient because the staff cannot perform necessary review or inspection confirming that the inservice testing program and examination of snubbers. Thus, the staff finds that an ITAAC is necessary. The staff requests the applicant to add an appropriate ITAAC in Tier 1 of the DCD to address the issue.

03.09.03-25

In US-APWR DCD, Revision 1,section 3.9.3.4.2.9, the application stated that "Prior to and after plant operation, snubbers are required by Technical Specifications to be examined and tested in accordance with the ASME Code OM, Subsection ISTD (Reference 3.9-13)."

In DCD Section 3.9.6.4, IST Program for Dynamic Restraints, the application stated that "The COL Applicant is to provide the program plan for IST of dynamic restraints in accordance with ASME OM Code (Reference 3.9-14)."

According to 10 CFR 52.47(b)(1), a DC application must contain the proposed inspections, tests, analyses, and acceptance criteria (ITAAC) that are necessary and sufficient to provide reasonable assurance that, if the inspections, tests, and analyses

are performed and the acceptance criteria met, a plant that incorporates the design certification is built and will operate in accordance with the design certification, the provisions of the Atomic Energy Act, and the NRC's regulations.
The staff understands that COL applicants will address the final resolution of the issue. However, the current setup of a Combined License Information Item alone in the Design Certificate application is not sufficient because the staff cannot perform necessary review or inspection confirming that IST program plan of the snubbers is sufficient for safety determination . Thus, the staff finds that an ITAAC is necessary. The staff requests the applicant to add an appropriate ITAAC in Tier 1 of the DCD to address the issue.