
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

1/31/2013

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

RAI NO.: NO. 852-6003 REVISION 3
SRP SECTION: 03.07.02 – Seismic System Analysis
APPLICATION SECTION: 3.7.2
DATE OF RAI ISSUE: 10/24/11

QUESTION NO. RAI 03.07.02-121:

In Table 4.5.4-1 of MUAP-10001(R3), "Material Properties of Models used for Seismic Response Analyses," (Page 4-47) there are four blank cells under the column heading of "SSE Load" for the full (uncracked) stiffness level.

The applicant is requested to provide the technical rationale for not considering these four cases.

ANSWER:

Technical Report MUAP-10001, Rev. 3 has been superseded and its relevant information has been incorporated into Technical Report MUAP-10006, Rev. 3. Table 02.4.1.1.3-1 in Technical Report MUAP-10006 corresponds to the previous Table 4.5.4-1 in Technical Report MUAP-10001, Rev. 3. This table has been updated and the previous three "Design Basis" columns ("SSE Load," "ISRS," and "Max Displ.") have been removed. The bounding condition, whether reduced (cracked) stiffness with safe-shutdown earthquake (SSE) damping levels or full (uncracked) stiffness with operating-basis earthquake (OBE) damping levels, is used to determine SSE loads, in-structure response spectra (ISRS), and maximum displacements.

Impact on DCD

There is no impact on the DCD.

Impact on R-COLA

There is no impact on the R-COLA.

Impact on S-COLA

There is no impact on the S-COLA.

Impact on PRA

There is no impact on the PRA.

Impact on Technical/Topical Report

There is no impact on the Technical/Topical Report.

This completes MHI's response to the NRC's question.