
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

1/31/2013

**US-APWR Design Certification
Mitsubishi Heavy Industries
Docket No. 52-021**

RAI NO.: NO. 850-6002 REVISION 3
SRP SECTION: 03.07.01 – Seismic Design Parameters
APPLICATION SECTION: 3.7.1
DATE OF RAI ISSUE: 10/21/11

QUESTION NO. RAI 03.07.01-32:

In Subsection 5.1 of MUAP-10001(R3), "CSDRS Compatible Ground Motion Time Histories," the paragraph under the subtitle of "Duration of Motion" (Page 5-10) states, "The set of three statistically independent components of the artificial time history earthquake which are developed for design of the US-APWR seismic Category I buildings are characterized by the strong duration of motion times, listed in Table 5.1-2 and total duration of motion time of 22.085 seconds."

The staff noticed that the duration of 22.005 seconds is given in item (a) of the paragraph on Page 5-7 of MUAP-10001(R3); whereas it is 22.085 seconds in the above quoted sentence. Also, the US-APWR DCD (R3) states the duration as 22.005 seconds. The applicant is requested to clarify this discrepancy.

ANSWER:

This answer revises and replaces the previous MHI answer that was transmitted by letter UAP-HF-11417 (ML11339A013).

Technical Report MUAP-10001, Rev. 3 has been superseded and its relevant information incorporated into Technical Report MUAP-10006, Rev. 3.

A 22.08 second excerpt from the Northridge Mt. Baldy earthquake seed recorded ground motion time history has been used as input to generate a time history to match the certified seismic design response spectra using Option 1, Approach 1 of SRP 3.7.1, as discussed in Section 01.4.1.3 and presented in Table 01.5.1.2-1 of Technical Report MUAP-10006, Rev. 3. All references to this duration in MUAP-10006, Rev. 3, and the DCD have been confirmed to indicate the correct duration.

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.