

REQUEST FOR ADDITIONAL INFORMATION 602-4665 REVISION 2

6/25/2010

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 03.07.01 - Seismic Design Parameters

Application Section: 3.7

QUESTIONS for Structural Engineering Branch 1 (AP1000/EPR Projects) (SEB1)

03.07.01-5

RAI 211-1946, question 3.7.1-1 was generated because the response spectra corresponding to the synthetic time histories fell short of the SRP 3.7.1 design ground motion acceptance criteria for Option 1, Approach 2, item (c). Although the applicant has replaced the original synthetic time histories with modified recorded time histories, the corresponding vertical response spectrum still does not meet the aforementioned acceptance criterion that the 5% damped response spectra shall not be allowed to fall below the target spectra at more than nine adjacent frequency points. The revised 5% damped vertical spectrum falls below the target spectrum at ten consecutive frequency points as shown in item (c) on p. 5-7 and in Table 5.1-1 of MUAP-10001 (R0). Provide the technical basis for not complying with the SRP guidelines.

[SEB RAI 3.7.1-11]

Reference: MHI response to US-APWR DCD RAI No. 211-1946; UAP-HF-09112; dated March 25, 2009; ML090890516.