
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

03/22/2013

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

RAI NO.: NO. 766-5819 REVISION 3
SRP SECTION: 03.07.02 – Seismic System Analysis
APPLICATION SECTION: 3.7.2
DATE OF RAI ISSUE: 06/09/2011

QUESTION NO. RAI 03.07.02-66:

In MUAP-11002 (R0) Subsection 7.1.2, "Results of Maximum Relative Displacements," the second paragraph (page 24) states, "Figures 7-2 through 7-21 show the acceleration transfer function amplitudes for 10 of the 24 selected nodes for subsurface profiles 270-200 and 2032-100."

The staff reviewed the information presented in Figures 7-2 through 7-21 regarding acceleration transfer function and relative displacement with respect to free field input motion at various nodes and noted that such information for Node 1440 was not provided. Node 1440 is the node used in Subsection 7.1.3 to evaluate the 4 inch gap.

The applicant is requested to include Node 1440 in the presentation of Figures 7-2 through 7-21. Also, the applicant is requested to provide the corresponding transfer functions under the fixed base condition so that the staff can evaluate the validity of the interpolated transfer functions.

ANSWER:

This answer revises and replaces the previous MHI answer that was transmitted by letter UAP-HF-11392, dated November 16, 2011 (ML11326A129).

Due to revision of Turbine Building (T/B) complex SSI analysis, node 1440 is no longer used to evaluate the gap between the Turbine Building complex and the Reactor Building complex. Section 3.1.4 and 4.3.2 of MUAP-11002, Rev. 2, has been updated to include the transfer functions of the nodes used to evaluate the gap between the T/B complex and the R/B complex.

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 a Technical/Topical Report.

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