
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 03.07.02-49:

On p. 25 of MUAP-11002 (R0) the second bullet in the second paragraph states “The SSI was performed for the T/B as a surface structure; however, the T/B is embedded 27 feet 2 inches into the ground. The soil surrounding the structure will act to restrain the movement of the T/B, thereby reducing the displacements.”

The applicant did not provide any basis on the assumption that the surrounding soil will reduce the displacements. If soil embedment is considered, the unbalanced static and dynamic soil pressure may actually increase the displacement. The applicant is requested to provide numerical data to support their position that ignoring the effects of embedment is conservative.

ANSWER:

This answer revises and replaces the previous MHI answer that was transmitted by letter UAP-HF-11393, dated November 16, 2011 (ML11326A130).

Subsection 1.0 in Technical Report MUAP-11002 Rev. 2, has been revised to indicate that the T/B complex has been modeled as an embedded structure. Please refer to the response to NRC RAI 909-6315 Question number 03.07.02-182 for additional information.

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.