
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

03/22/2013

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

RAI NO.: NO. 909-6315 REVISION 3
SRP SECTION: 03.07.02 - SEISMIC SYSTEM ANALYSIS
APPLICATION SECTION: 3.7.2
DATE OF RAI ISSUE: 03/05/2012

QUESTION NO.: 03.07.02-182

In MUAP-11002(R1), Section 1.0, "Introduction," the last sentence of the 5th paragraph (Page 14) states "The potential effects of ignoring the embedment are not evaluated in this report."

The Applicant is requested to provide the reference report that evaluates the embedment effects or a study that concludes that ignoring the effects of embedment is conservative for the design of the Turbine Building.

ANSWER:

This answer revises and replaces the previous MHI answer that was transmitted by letter UAP-HF-12124 dated June 5, 2012 (ML12158A478).

The Standard Plant Turbine Building (T/B) is analyzed for soil-structure interaction (SSI) effects as an embedded structure to include the embedment effects from subsurface material surrounding the Turbine Building. The Standard Plant T/B SSI analyses results with embedment effects are presented in Technical Report MUAP-11002 Rev. 2. The last sentence of the 5th paragraph Section 1.0 (Page 14) presented in MUAP-11002 Rev. 1, which states "The potential effects of ignoring the embedment are not evaluated in this report." is deleted.

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.