
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

1/31/2013

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

RAI NO.: NO. 810-5874 REVISION 3
SRP SECTION: 03.07.02 – Seismic System Analysis
APPLICATION SECTION: 3.7.2
DATE OF RAI ISSUE: 08/22/11

QUESTION NO. RAI 03.07.02-102:

In Subsection 3.7.2.3.4 of DCD (R3), "Subsystem Coupling Requirements", the last paragraph (page 3.7-20) states in part, "In addition, the requirements of NOG-1 (Reference 3.7-22) for the design of cranes may require that the crane design analysis be performed by coupling the crane model with the overall building model. If found that is required, the site-specific seismic analysis of the US-APWR standard plant must be performed on models that incorporate the PCCV polar crane and the fuel handling crane, as appropriate."

This is a required COL action item. However this information is not included in Subsection 3.7.5, "Combined License Information". The Applicant is requested to discuss why this item is not included in Subsection 3.7.5. The same topic was addressed in RAI 542-4262, Question 3.7.2-7 (identified as question 3.7.2-34 in the Applicant's response) against DCD (R2), and the staff disagrees with the response that COL Action Items 3.7(4), 3.7(23), and 3.7(25) address the crane question. The staff's position is that COL Action Item (11) should be reinstated in the DCD.

ANSWER:

This answer revises and replaces the previous MHI answer that was transmitted by letter UAP-HF-11324 (ML11269A024).

COL Item 3.7(11) is in the discussion in DCD Subsection 3.7.2.3.2 and is listed in DCD Subsection 3.7.5 and in Table 1.8-2 (Sheet 5). COL Item 3.7(11) requires the COL Applicant to confirm the masses and frequencies of the PCCV polar crane and fuel handling crane and to determine if coupled site-specific analyses are required.

Impact on DCD

There is no impact on the DCD.

Impact on R-COLA

The revised COL Action Item 3.7(11) is required to be addressed in the R-COLA with mark-ups in a future revision to the R-COLA.

Impact on S-COLA

The revised COL Action Item 3.7(11) is required to be addressed in the S-COLA with mark-ups in a future revision to 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.