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. 03.07.02-201:

In Section 6.3 of MUAP-11002(R1), "Overturning Stability Evaluation Methodology," the third paragraph (Page 44) states, in part, "In the calculation of the seismic responses, 25 percent of the floor live load and 75 percent of the snow load are used as inertia mass as discussed in Subsection 5.1.5. Therefore, it is reasonable to include the same amount of live and snow loads in calculating the total resisting moments."

The staff disagrees with the above statement. The load combination for overturning stability evaluation is specified in SRP Acceptance Criteria Item 3 of the SRP 3.8.5 Section II. Only the dead load can be considered in the evaluation. Floor live loads and snow loads are not dead loads; therefore, they should not be included. The Applicant is requested to perform the overturning stability evaluation without including any floor live loads and snow load in the resistant moments.

ANSWER:

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

The overturning analysis has been performed without using the floor live loads and snow loads in the resisting moments. Subsection 6.1, "Overturning Stability Evaluation Methodology," of Technical Report MUAP-11002 Rev. 2 has been revised.

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.