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**RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION**

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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

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**QUESTION NO. RAI 03.07.02-45:**

In MUAP-11002 (R0), Subsection 4.1, "Turbine Building (T/B)," it states that "The T/B is designed to withstand the full SSE loads, i.e., 0.3g, including the load of the overhead traveling crane." The staff noticed that the specific design loads considered in the evaluations are not described in the report except in general terms such as the above quote subjective statement. As a result, the staff is unable to determine if the analyses presented in MUAP-11002 (R0) meet the SRP Acceptance Criteria 3.D of SRP 3.7.2, "Representation of Floor Loads, Live Loads, and Major Equipment in Dynamic Model." The applicant is requested to provide a Subsection which describes the specific values of all of the loads used to assess the structural integrity of the Turbine Building (T/B).

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**ANSWER:**

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

The loads used in the ACS SASSI model for the SSI analyses consist of 100 percent of dead loads (structure self-weight; 50 psf superimposed dead load; equipment, piping, cable tray, and crane dead load), 25 percent of floor area live load and 75 percent of uniform snow roof load. They are described in more detail in Subsection 5.1.5 of Technical Report MUAP-11002 Rev. 2.

Loads (including dynamic lateral soil pressure and accidental torsion of SSE loads) and load combinations used for the structural integrity evaluation are described in Subsection 5.1 of Technical Report MUAP-11002 Rev. 2.

**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.

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