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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 4  
**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 03.07.02-65:**

In MUAP-11002 (R0) Subsection 7.1.1, "Approaches for Developing Maximum Relative Displacement," the sixth bullet of the second paragraph (page 23) states, "Compute the combined relative displacement time histories in a particular direction, X, Y or Z using time domain superposition of the co-directional effects computed for each seismic motion directional input in the X, Y or Z directions."

The applicant is requested to provide details of how the positive and negative displacement response is treated in the procedure for computing the combined relative displacement time histories, since in the second sentence of the Subsection 6.4; the applicant stated that the ACS SASSI analysis only allows one component input motion for each run.

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**ANSWER:**

This answer revises and replaces the previous MHI answer that was transmitted by letter UAP-HF-11249, dated August 1, 2011 (ML11215A104).

This issue is addressed in the response to NRC RAI 909-6315, Question number 03.07.02-211.

**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.