



MITSUBISHI HEAVY INDUSTRIES, LTD.

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TOKYO, JAPAN

January 5, 2012

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Attention: Mr. Jeffrey A. Ciocco

Docket No. 52-021
MHI Ref: UAP-HF-12001

Subject: Plan to Update the Completion Plan for US-APWR Seismic and Structural Analyses (Update to ML11269A048)

References: (1) Letter (ML11249A091 / MHI Ref: UAP-HF-11290) from Y. Ogata (MHI) to U.S. NRC, "Updated Completion Plan for US-APWR Seismic and Structural Analyses" dated September 1, 2011
(2) Letter (ML11269A048 / MHI Ref: UAP-HF-11319) from Y. Ogata (MHI) to U.S. NRC, "Updated Completion Plan for US-APWR Seismic and Structural Analyses" dated September 22, 2011
(3) Letter (ML11255A224 / MHI Ref: UAP-HF-11265) from Y. Ogata (MHI) to U.S. NRC, "Clarification to Previously Submitted Information Regarding the US-APWR Containment Internal Structure (CIS)" dated August 12, 2011

With this letter Mitsubishi Heavy Industries, Ltd. (MHI) is providing the plan to update the completion plan for US-APWR seismic and structural analyses.

As stated in Reference 1, preliminary SSI results using conservative inputs have identified certain assumptions that require refinement. Progress towards completing the seismic and structural analyses based on these refinements was reported at the November 7th public meeting with NRC. Since that time, additional refinements are being evaluated to provide the final seismic inputs and layout of standard plant structures of the US-APWR design. As a result, several changes to the completion plan in Reference 2 are anticipated.

This Letter informs NRC that the following materials including the final closure plan for US-APWR seismic and structural analyses will be provided by the end of March 2012.

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- (1) Final closure plan for seismic and structure analysis
- (1-1) Summary of changes to seismic inputs
- (1-2) Schedule of final design basis seismic SSI analysis data (for NRC's confirmatory analysis)
- (2) Outline of design changes due to the above plan (such as layout and structure modification)
- (3) List of impacted DCD chapters due to the above (1) and (2) and schedule of DCD markups
- (4) List and schedule of impacted Technical Reports due to the above (1) and (2)
- (5) List and schedule of impacted calculations for seismic and structural analyses
- (6) RAIs
- (6-1) List and schedule of responses to open RAIs
- (6-2) List and schedule of updated responses to historical (previously-responded) RAIs

With Reference 3, MHI submitted Technical Report for the US-APWR Containment Internal Structure (CIS).” The markups enclosed in the letter were derived from SC structure and should be reviewed by the NRC. Therefore, separately from the above (3), MHI plans to submit the applicable DCD markups by the end of February 2012 as follows:

DCD Affected Chapter	Summary of Potential Changes
Tier 1	Tier 1 Table 2.2-2 Update table notes
Tier 2 Chapter 3	3.5, 3.7, 3.8, 3.9, 3.12 (General) Update for latest ACI 349 revision including any criteria updates
	3.8.3 Updated the design criteria and methodology of SC discussion
	3.8.7 Update references related to SC and ACI 349
	3.8 Tables and Figures Revise tables and drawings related to SC and ACI 349

As noted by items (6-1) and (6-2) above, MHI will complete the responses to current (open) RAIs and update the responses to historical RAIs as appropriate to incorporate the final design basis seismic SSI analysis. As part of the impact review of RAIs, the subjects of the RAI questions are evaluated such that the final design basis seismic analysis is consistent with the final response to the RAI.

MHI, together with the support of the Design Centered Working Group members Dominion and Luminant, will continue to work closely with the NRC in order to maintain our schedule while ensuring the quality of the submittals.

Please contact Dr. C. Keith Paulson, Senior Technical Manager, Mitsubishi Nuclear Energy Systems, Inc. if the NRC has questions concerning any aspect of this letter. His contact information is provided below.

Sincerely,

A handwritten signature in black ink, appearing to read "Y. Ogata". The signature is fluid and cursive, with a large initial "Y" and a long horizontal stroke extending to the right.

Yoshiki Ogata,
Director – APWR Promoting Department
Mitsubishi Heavy Industries, LTD.

CC: J. A. Ciocco
C. K. Paulson

Contact Information

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