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TOKYO, JAPAN

December 10, 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-12323

Subject: MHI's Response to US-APWR DCD RAI No. 974-6924 (SRP 01.05)

Reference: 1) "Request for Additional Information No. 974-6924, SRP Section 01.05 – Other Regulatory Considerations", dated November 5, 2012.

With this letter, Mitsubishi Heavy Industries, Ltd. ("MHI") transmits to the U.S. Nuclear Regulatory Commission ("NRC") a document entitled "Response to Request for Additional Information No. 974-6924."

Enclosed is the response to the question contained within Reference 1.

Please contact Mr. Joseph Tapia, General Manager of Licensing Department, Mitsubishi Nuclear Energy Systems, Inc. if the NRC has questions concerning any aspect of this submittal. His contact information is provided below.

Sincerely,

Y. Ogata

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

Enclosure:

1. Response to Request for Additional Information No. 974-6924

CC: J. A. Ciocco
J. Tapia

Contact Information

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Docket No. 52-021
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Enclosure 1

UAP-HF-12323
Docket No. 52-021

Response to Request for Additional Information No. 974-6924

December 2012

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

12/10/2012

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

RAI NO.: NO. 974-6924
SRP SECTION: 01.05 – OTHER REGULATORY CONSIDERATIONS
APPLICATION SECTION: VARIOUS DCD SECTIONS
DATE OF RAI ISSUE: 11/5/2012

QUESTION NO.: 01.05-3

The NRC staff has been directed by the Commission to implement the Fukushima Near-Term Task Force Recommendations, as presented in SECY-12-0025, "Proposed Orders and Requests for Information in Response to Lessons Learned from Japan's March 11, 2011, Great Tohoku Earthquake and Tsunami", dated February 12, 2012. This request for additional information specifically addresses Recommendation 4.2 on Mitigating Strategies. The NRC staff requests that you address each of the provisions for mitigating strategies as described in Attachment 2 to Order EA-12-049, including any proposals for changes to your current application. In particular, please also describe the extent to which you intend to follow JLDISG-2012-01, or any alternative approaches to satisfy these provisions.

ANSWER:

MHI will address each of the provisions for mitigating strategies as described in Attachment 2 to Order EA-12-049, including any proposals for changes to US-APWR DCD revision 3 in a new technical report which addresses US-APWR Fukushima-related positions and actions. MHI will submit this technical report to the NRC by February 28, 2013.

MHI's response to the items (1) through (4) identified in Attachment 2 to Order EA-12-049 will be summarized in DCD Chapter 1. Specific design changes to address the provisions discussed in Attachment 2 to Order EA-12-049 and which have impact on chapters in US-APWR DCD revision 3 will be addressed in the relevant DCD sections. Conformance with JLD-ISG-2012-01 and NEI 12-06, "Diverse and Flexible Coping Strategies (FLEX) Implementation Guide," will also be addressed in the technical report.

MHI will add new COL item(s) in the DCD specifying that COL applicants address item (5) of the Attachment 2 to Order EA-12-049, regarding procedures, guidance, training, and acquisition, staging, or installing of equipment for the strategies.

This new technical report will include the results of a qualitative evaluation of the impact of any design changes on the PRA. A quantitative sensitivity study of the Fukushima-related design changes will be incorporated into the PRA Technical Report (US-APWR Probabilistic Risk Assessment, MUAP-07030) by issue of the Design Certificate.

Impact on DCD

The DCD changes described above will be submitted to the NRC with the new technical report by February 28, 2013.

Impact on R-COLA

R-COLA will need to address new COL item(s) described above.

Impact on S-COLA

S-COLA will need to address new COL item(s) described above.

Impact on PRA

A quantitative sensitivity study of the Fukushima-related design changes will be incorporated into the PRA Technical Report (US-APWR Probabilistic Risk Assessment, MUAP-07030) by issue of the Design Certificate.

Impact on Technical / Topical Reports

A new technical report will be developed and submitted to the NRC by February 28, 2013 to address each of the provisions for mitigating strategies as described in Attachment 2 to Order EA-12-049. There is no impact on existing topical reports. Technical reports which will be affected by the Fukushima-related design changes will be identified in the new technical report which addresses US-APWR Fukushima-related positions and amended as appropriate.