MITSUBISHI HEAVY INDUSTRIES, LTD.
16-5, KONAN 2-CHOME, MINATO-KU
TOKYO, JAPAN

July 18, 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-12206

Subject: MHI's Response to US-APWR DCD RAI No. 944-6516 Revision 3 (SRP 01.05)

Reference: 1) "Request for Additional Information No. 944-6516 Revision 3, SRP Section 01.05 – Other Regulatory Considerations - Application Section: Various DCD sections", dated June 19, 2012 (ML12171A228).

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. 944-6516 Revision 3."

Enclosed is the response to the questions 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. 944-6516 Revision 3

D081
NRO

CC: J. A. Ciocco
J. Tapia

Contact Information
Joseph Tapia, General Manager of Licensing Department
Mitsubishi Nuclear Energy Systems, Inc.
1001 19th Street North, Suite 710
Arlington, VA 22209
E-mail: joseph_tapia@mnes-us.com
Telephone: (703) 908 – 8055

Enclosure 1

UAP-HF-12206
Docket No. 52-021

Response to Request for Additional Information No. 944-6516
Revision 3

July 2012

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

07/18/2012

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

RAI NO.: **NO. 944-6516 REVISION 3**

SRP SECTION: **01.05 – OTHER REGULATORY CONSIDERATIONS**

APPLICATION SECTION: **VARIOUS DCD SECTIONS**

DATE OF RAI ISSUE: **6/19/2012**

QUESTION NO.: 01.05-1

By letter dated May 3, 2012, the NRC staff informed you that the NRC staff has been directed by the Commission to implement the Fukushima Near-Term Task Force recommendations contained 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 17, 2012. This request for additional information (RAI) specifically addresses Recommendation 7.1, "Reliable Spent Fuel Pool Instrumentation." The NRC staff requests that you address each of the provisions for monitoring key spent fuel pool parameters as described in Enclosure 6 of SECY-12-0025, including any proposals for changes to your current application.
In the May 3, 2012 letter to you, the NRC staff also informed you that the NRC staff would be sending you specific questions regarding the above recommendation through the established RAI process for your design center. In order to minimize delays to the current licensing schedule, we request that you respond to all Fukushima-related RAIs within 60-days of receipt of the RAIs or provide a schedule for your response within 30-days.

ANSWER:

MHI will incorporate or address each of the provisions for monitoring spent fuel pool levels as described item 1 of Enclosure 6 of SECY-12-0025 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 and is planned to be submitted by February 28, 2013.

MHI's response to the issues identified in SECY-12-0025 will be summarized in a new DCD Section 1.9.6, [Conformance to 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 17, 2012] (tentative).

Specific design changes to address the areas discussed in item 1 of Enclosure 6 of SECY-12-0025 and which have impact on chapters in US-APWR DCD Revision 3 will be addressed in the relevant DCD sections including Section 9.1.3 of the DCD.

MHI will add new COL item(s) to the DCD specifying that COL applicants address item 2 of

Enclosure 6 of SECY-12-0025, procedures (testing, calibration and operation) and training-related requirements.

Impact on DCD

A new DCD Section 1.9.6, [Conformance to 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 17, 2012] (tentative) will be added.

MHI will revise US-APWR DCD Revision 3, as necessary, to incorporate changes in other relevant sections including Section 9.1.3.

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

Impact on R-COLA

Impact on R-COLA will be addressed in the new Section 1.9.6 and other affected DCD sections as COL items.

Impact on S-COLA

Impact on S-COLA will be addressed in the new Section 1.9.6 and other affected DCD sections as COL items.

Impact on PRA

Impact on PRA will be addressed in the new technical report.

Impact on Technical / Topical Reports

A new technical report will be developed and submitted to the NRC by February 28, 2013 to incorporate or address each of the provisions for monitoring spent fuel pool level as described item 1 of Enclosure 6 of SECY-12-0025. There is no impact on existing topical reports. Technical reports which will be affected by the Fukushima-related design changes will be addressed in the new technical report which addresses US-APWR Fukushima-related positions and amended as appropriate.

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

07/18/2012

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

RAI NO.: **NO. 944-6516 REVISION 3**

SRP SECTION: **01.05 – OTHER REGULATORY CONSIDERATIONS**

APPLICATION SECTION: **VARIOUS DCD SECTIONS**

DATE OF RAI ISSUE: **6/19/2012**

QUESTION NO.: 01.05-2

By letter dated May 3, 2012, the NRC staff informed you that the NRC staff has been directed by the Commission to implement the Fukushima Near-Term Task Force recommendations contained 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 17, 2012. This request for additional information (RAI) specifically addresses Recommendation 9.3, "provisions for enhancing emergency preparedness." The NRC staff requests that you address each of the provisions for enhancing emergency preparedness as described in Enclosure 7 of SECY-12-0025, including any proposals for changes to your current application.
In the May 3, 2012 letter to you, the NRC staff also informed you that the NRC staff would be sending you specific questions regarding the above recommendation through the established RAI process for your design center. In order to minimize delays to the current licensing schedule, we request that you respond to all Fukushima-related RAIs within 60-days of receipt of the RAIs or provide a schedule for your response within 30-days.

ANSWER:

MHI will investigate any improvement of station communication systems, which are described in DCD Section 9.5.2, considering the request for additional information (RAI) on Near- Term Task Force (NTTF) Recommendation 9.3, "provisions for enhancing emergency preparedness" depicted in Enclosure 7 to SECY-12-0025 and will compile results of the investigation in a new technical report which addresses US-APWR Fukushima-related positions and actions and is planned to be submitted by February 28, 2013.

MHI's response to the issues identified in SECY-12-0025 will be summarized in a new DCD Section 1.9.6, [Conformance to 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 17, 2012] (tentative).

MHI will revise DCD Revision 3, as necessary, to address any specific design changes with regard to station communication systems identified to address Recommendation 9.3 in Enclosure 7 to SECY-12-0025.

MHI will add new COL item(s) to the DCD specifying that COL applicants address the offsite communications and emergency planning staffing requirements specified in Recommendation 9.3 in Enclosure 7 to SECY-12-0025.

Impact on DCD

A new DCD Section 1.9.6, [Conformance to 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 17, 2012] (tentative) will be added.

MHI will revise DCD Revision 3, as necessary, to incorporate changes in other relevant sections to address Recommendation 9.3 in Enclosure 7 to SECY-12-0025.

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

Impact on R-COLA

Impact on R-COLA will be addressed in the new Section 1.9.6 and other affected sections of DCD as COL items.

Impact on S-COLA

Impact on S-COLA will be addressed in the new Section 1.9.6 and other affected sections of DCD sections as COL items.

Impact on PRA

Impact on PRA will be addressed in the new technical report.

Impact on Technical / Topical Reports

A new technical report will be developed and submitted to the NRC by February 28, 2013 to address Recommendation 9.3 in Enclosure 7 to SECY-12-0025. There is no impact on existing topical reports. Technical reports which are affected by the Fukushima-related design changes will be addressed in the new technical report which addresses US-APWR Fukushima-related positions and amended as appropriate.