


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

April 25, 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-12091

Subject: MHI's 2nd Response to US-APWR DCD RAI No.834-6035 Revision 3 (SRP 19)

- References:
- 1) "Request for Additional Information No. 834-6035 Revision 3, SRP Section: 19 – Probabilistic Risk Assessment and Severe Accident Evaluation," dated October 5, 2011.
 - 2) Letter MHI Ref: UAP-HF-11380 from Y. Ogata to U.S. NRC, "MHI's Responses to US-APWR DCD RAI No,834-6035 Revision 3 (SRP 19)", dated November 8, 2011.

With this letter, Mitsubishi Heavy Industries, Ltd. ("MHI") transmits to the U.S. Nuclear Regulatory Commission ("NRC") the document entitled "2nd Response to Request for Additional Information No.834-6035 Revision 3".

Enclosed is the response to Question 19-559 contained within Reference 1. Responses to other questions contained within Reference 1 have previously been submitted to the NRC in Reference 2.

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

Sincerely,

Y. Ogata

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

D081
MRO

Enclosure:

1. 2nd Response to Request for Additional Information No. 834-6035 Revision 3

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

Docket No.52-021
MHI Ref: UAP-HF-12091

Enclosure 1

UAP-HF-12091
Docket Number 52-021

2nd Response to Request for Additional Information No.834-6035
Revision 3

April 2012

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

04/25/2012

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No.52-021

RAI NO.: No. 834-6035 REVISION 3
SRP SECTION: 19 – Probabilistic Risk Assessment and Severe Accident Evaluation
APPLICATION SECTION: 19.1.5
DATE OF RAI ISSUE: 10/05/2011

QUESTION NO. : 19-559

(Follow-up to Question 19-457) In the response to Question 19-457, MHI agrees to include a combined license (COL) action item that ensures the COL applicant that references the US-APWR design certification will conduct a plant walk-down to confirm that the assumptions used in the US-APWR PRA remain valid with respect to the internal fire and flood events. The staff reviewed DCD Revision 3 and could not find this commitment in Section 19.3 "Open, Confirmatory, and COL Action Items Identified as Unresolved." Please revise the DCD to specifically incorporate this commitment as stated.

ANSWER:

The response to Question 19-457 (RAI 639-5028, submitted by MHI Ref. UAP-HF-10295) agreed to revise the DCD and the changes associated with the response to Question 19-457 were incorporated into DCD Revision 3. In DCD Revision 3, Section 19.1.2.4 "PRA Maintenance and Upgrade," the last sentence of the first paragraph of page 19.1-6 describes that "Plant walk-downs to confirm that the assumptions used in the PRA remain valid will also be conducted." This commitment is applied to the extent of US-APWR PRA scope including internal fire and internal flood. Since DCD Section 19.1.2.4 is incorporated by reference by COL applicants referencing the US-APWR DCD, no COL action item is necessary.

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 Topical/Technical Report

There is no impact on Topical and Technical Report.