


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

June 10, 2010

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-10165

Subject: MHI's Responses to US-APWR DCD RAI 586-4690 Revision 2

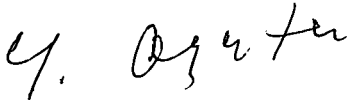
Reference: 1) "REQUEST FOR ADDITIONAL INFORMATION 586-4690 REVISION 2, SRP Section: 09.04.04 – Turbine Area Ventilation System, Application Section: 9.4.4, dated May 10, 2010.

With this letter, Mitsubishi Heavy Industries, Ltd. ("MHI") transmits to the U.S. Nuclear Regulatory Commission ("NRC") a document entitled "Responses to Request for Additional Information 586-4690 Revision 2."

Enclosed are the responses to a RAI contained within Reference 1.

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

Sincerely,



Yoshiaki Ogata,
General Manager- APWR Promoting Department
Mitsubishi Heavy Industries, LTD.

Enclosure:

1. Responses to Request for Additional Information 586-4690 Revision 2

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

Contact Information

C. Keith Paulson, Senior Technical Manager
Mitsubishi Nuclear Energy Systems, Inc.
300 Oxford Drive, Suite 301
Monroeville, PA 15146
E-mail: ck_paulson@mnes-us.com
Telephone: (412) 373-6466

POB 1
NLO

Docket No. 52-021
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Enclosure 1

UAP-HF-10165
Docket No. 52-021

Responses to Request for Additional Information No. 586-4690
Revision 2

June 2010

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

6/10/2010

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

RAI NO.: NO. 586-4690 REVISION 2
SRP SECTION: 09.04.04 TURBINE AREA VENTILATION SYSTEM
APPLICATION SECTION: 9.4.4
DATE OF RAI ISSUE: 5/10/2010

QUESTION NO.: 09.04.04-6

OPEN ITEM -- New RAI

The staff notes that General Design Criterion (GDC) 2, "Design Bases for Protection Against Natural Phenomena," of Appendix A, "General Design Criteria for Nuclear Power Plants," to Title 10, Part 50, of the *Code of Federal Regulations* (10 CFR Part 50), "Domestic Licensing of Production and Utilization Facilities" (Ref. 1), requires that "nuclear power plant structures, systems, and components (SSCs) important to safety must be designed to withstand the effects of earthquakes without loss of capability to perform their safety functions" (emphasis added). The staff notes that important to safety is a more broad category than safety-related. The DCD includes the design commitment that "Safety-related equipment is not located in this area."

Based on this design commitment, the staff can not conclude that GDC 2 is met because the scope of important to safety is larger than safety-related. The commitment must be expanded to include the adverse effects on SSCs important to safety or the system must be designed to meet GDC 2. Please revise the DCD to address GDC 2 and components that are important to safety.

ANSWER:

Based on the information regarding important to safety SSCs provided in STANDARD REVIEW PLAN 3.2.2 "SYSTEM QUALITY GROUP CLASSIFICATION", there are no important to safety SSCs located in the turbine building area.

Impact on DCD

There is no impact on DCD.

Impact on COLA

There is no impact on COLA.

Impact on PRA

There is no impact on PRA.