MITSUBISHI HEAVY INDUSTRIES, LTD.
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TOKYO, JAPAN

September 16, 2009

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-09452

Subject: MHI's Response to US-APWR DCD RAI No. 453-3397 Rev. 0

References: 1) "Request for Additional Information No. 453-3397 Revision 0, SRP Section: 12.03-12.04 – Radiation Protection Design Features, Application Section: 12.3," dated September 1, 2009

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.453-3397 Revision 0".

Enclosed is the response to one 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 submittal. His contact information is below.

Sincerely,

Y. Ogata

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

Enclosure:

1. Response to Request for Additional Information No.453-3397 Revision 0

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

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Enclosure 1

UAP-HF-09452
Docket No. 52-021

Response to Request for Additional Information
No. 453-3397 Revision 0

September, 2009

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

9/16/2009

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

RAI NO.:	**NO. 453-3397 REVISION 0**
SRP SECTION:	**12.03-12.04 – Radiation Protection Design Features**
APPLICATION SECTION:	**12.3**
DATE OF RAI ISSUE:	**9/1/2009**

QUESTION NO.: 12.03-12.04-32

Please address measures taken to limit the use of cobalt-bearing materials in the US-APWR structures, systems, and components exposed to reactor coolant and include any limitations in the US-APWR DCD, Tier 2, Section 12.3.

ANSWER:

In the MHI's response to the RAI No.147-1850 revision 1 (Reference 1), MHI answered that MHI will revise the US-APWR DCD, Tier 2, Section 12.3 to include the design specifications for the material selection employed for the purpose of ALARA. Therefore, please refer to the "impact on DCD" section in the former MHI's response (Reference 1).

Reference: 1) "MHI's response to US-APWR DCD RAI No. 147-1850 Revision 1" by the letter UAP-HF-09048 dated February 6, 2009.

Impact on DCD

There is no impact on the DCD.

Impact on COLA

There is no impact on the COLA.

Impact on PRA

There is no impact on the PRA.