


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

March 26, 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-09104

Subject: MHI's Responses to US-APWR DCD RAI No.225-2029 Revision 1

Reference: 1) "Request for Additional Information No. 225-2029 Revision 1, SRP Section: 05.03.03 - Reactor Vessel Integrity," dated February 26, 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. 225-2029 Revision 1."

Enclosed is the response to Question 05.03.03-1 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. Response to Request for Additional Information No. 225-2029 Revision 1

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

DOSI
MHO

Docket No. 52-021
MHI Ref: UAP-HF-09104

Enclosure 1

UAP-HF-09104
Docket No. 52-021

Response to Request for Additional Information No. 225-2029
Revision 1

March 2009

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

3/26/2009

US-APWR Design Certification
Mitsubishi Heavy Industries
Docket No. 52-021

RAI NO.: NO. 225-2029 REVISION 1
SRP SECTION: 05.03.03 - REACTOR VESSEL INTEGRITY
APPLICATION SECTION: 05.03.03
DATE OF RAI ISSUE: 2/26/2009

QUESTION NO. : 05.03.03-1

Section 5.3.3.5 of the US-APWR DCD, Tier 2, Revision 1 describes methods used to protect the integrity of the reactor vessel (RV) during shipping, arrival on-site, and installation. However, the DCD does not describe measures taken to ensure the proper cleanliness and freedom from contamination of the RV prior to shipment. Please describe the methods used to ensure the proper cleanliness and freedom from contamination of the RV prior to shipment.

ANSWER:

Measures taken to ensure proper cleanliness and freedom from contamination of the reactor vessel prior to shipment are discussed in DCD Subsection 5.3.1.3.4. A reference to this subsection will be added in DCD Subsection 5.3.3.5.

In addition, the outer surfaces of the reactor vessel are protected with temporary coverings prior to shipment. A description of this will also be added to DCD Subsection 5.3.3.5.

Impact on DCD

The third paragraph of DCD Subsection 5.3.3.5, Shipment and Installation, will be revised as follows:

Prior to shipment, the reactor vessel is cleaned and protected from contamination as described in Subsection 5.3.1.3.4. Outer surfaces of the reactor vessel are also normally protected with temporary coverings prior to shipment. Further details concerning the cleanliness and protection against contamination for austenitic stainless steel parts of the reactor vessel are discussed in Subsection 5.2.3.4.

Impact on COLA

There is no impact on the COLA.

Impact on PRA

There is no impact on the PRA.