


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

June 8th, 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-09298

Subject: MHI's Responses to US-APWR DCD RAI No. 368-2697 Revision 1

Reference: 1) "Request for Additional Information No. 368-2697 Revision 1, SRP
Section: 18 - Human Factors Engineering, Application Section: 18.2
Operating Experience," dated May 14th, 2009.

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 No. 368-2697 Revision 1."

Enclosed are the responses to 2 RAIs 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 No.368-2697 Revision 1

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

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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

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Enclosure 1

UAP-HF-09298
Docket No. 52-021

Responses to Request for Additional Information No.368-2697
Revision 1

June 2009

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

6/8/2009

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

RAI NO.: NO. 368-2697 REVISION 1
SRP SECTION: 18 - HUMAN FACTORS ENGINEERING
APPLICATION SECTION: 18.2 OPERATING EXPERIENCE REVIEW
DATE OF RAI ISSUE: 5/14/2009

QUESTION NO. 18-45

In section 3.2 of MUAP-08014-P (R0), "Human System Interface Verification and Validation (Phase 1a)," Part 2, Operating Experience Review, MHI states:
"A structured evaluation was conducted to determine the applicability of the operational data to each human factors issue identified in the report."
While the OER report shows methods used to collect and evaluate OE issues, it is unclear if this is the same method used in the "structured evaluation" mentioned in the previous sentence. Please clarify what MHI means by a "structured evaluation" and provide additional information about how the evaluation was conducted.

ANSWER:

The personnel conducting the Operating Experience review were trained on the HFE aspect issues identified in Tables 1 and 2. These people were instructed to capture and evaluate operating experience issues that relate to these HFE aspect issues. While the broad HFE aspect issues identified in Table 1 and 2 established the selection criteria for the issues identified in Tables 6-10, these tables provide a more detailed explanation of each HFE aspect issue.

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

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

6/8/2009

US-APWR Design Certification

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Docket No. 52-021

RAI NO.: NO. 368-2697 REVISION 1
SRP SECTION: 18 - HUMAN FACTORS ENGINEERING
APPLICATION SECTION: 18.2 OPERATING EXPERIENCE REVIEW
DATE OF RAI ISSUE: 5/14/2009

QUESTION NO. 18-46

In Part 2 Operating Experience Review of MUAP-08014-P (R0), "Human System Interface Verification and Validation (phase 1) MHI cites the following references: "Appendix 8.1" which seems to be some a data record form, "Appendix 8.2" which also appears to be a form, "Reference 8-3" and "Reference 7-1, section 18.1." These references were not titled nor are they included with the report for the Staff's review. Please indicate what these references are, and were they can be located.

ANSWER:

All references to Appendix 8.1 will be changed to Table 5 of Section 6. All references to Appendix 8.2 will be changed to Tables 3 and 4 of Section 6. "Reference 8-3" and "Reference 7-1" will be revised to "Reference 9-3" and "Reference 9-1, respectively.

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

This completes MHI's responses to the NRC's questions.