


MITSUBISHI HEAVY INDUSTRIES, LTD.
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TOKYO, JAPAN

May 20, 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-09253

Subject: MHI's Responses to US-APWR DCD RAI No.330-2532 Revision 0

Reference: 1) "REQUEST FOR ADDITIONAL INFORMATION NO. 330-2532 REVISION 0, SRP Section: 06.02.02 – Containment Heat Removal Systems Application Section: 6.2.2, QUESTIONS for Containment and Ventilation Branch 1 (AP1000/EPR Projects) (SPCV)" dated April 8, 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.330-2532 Revision 0."

Enclosed is the response to Questions 06.02.02-17 that is 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.330 Revision 0

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

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UKO

Contact Information

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Enclosure 1

UAP-HF-09253
Docket No. 52-021

Response to Request for Additional Information No.330-2532
Revision 0

May 2009

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

5/18/2009

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

RAI NO.: NO. 330-2532 REVISION 0
SRP SECTION: 06.02.02 – CONTAINMENT HEAT REMOVAL SYSTEMS
APPLICATION SECTION: 6.2.2
DATE OF RAI ISSUE: 4/8/2009

QUESTION NO.: 06.02.02-17

DCD 6.2.2: GDC 38 requires " Suitable redundancy in components and features, and suitable interconnections, leak detection, isolation, and containment capabilities shall be provided to assure that for onsite electric power system operation (assuming offsite power is not available) and for offsite electric power system operation (assuming onsite power is not available) the system safety function can be accomplished, assuming a single failure."

Please, explain how the containment spray system provides "suitable" leak detection.

ANSWER:

The leakage from the containment spray system outside of the containment following an accident is detected by leakage detection system included in the Equipment and Floor Drainage Systems described in Chapter 9, Subsection 9.3.3. For detail, please see Subsection 9.3.3.1.1 "Safety Design Bases", Subsection 9.3.3.2.2 "Component Description", Subsection 9.3.3.3 "Safety Evaluation", and Subsection 9.3.3.5 "Instrumentation Requirements".

Impact on DCD

There is no impact on the DCD.

Impact on COLA

There are no impacts on the COLA.

Impact on PRA

There is no impact on the PRA.