

March 1, 2012

APPLICANT: MITSUBISHI HEAVY INDUSTRIES, LTD.

APPLICATION: UNITED STATES - ADVANCED PRESSURIZED WATER REACTOR  
DESIGN CERTIFICATION REVIEW

SUBJECT: SUMMARY OF THE JANUARY 30, 2012, PUBLIC TELECONFERENCE  
WITH MITSUBISHI HEAVY INDUSTRIES, LTD. TO DISCUSS  
REMAINING ISSUES IN CHAPTER 19, "PROBABILISTIC RISK  
ASSESSMENT AND SEVERE ACCIDENT EVALUATION"

On January 30, 2012, a Category 1 public teleconference was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of Mitsubishi Heavy Industries, Ltd. (MHI). The meeting notice was issued on January 17, 2012, and was documented in the Agencywide Documents Access and Management System under accession number ML120120178. The purpose of the meeting was to discuss remaining issues in Chapter 19, "Probabilistic Risk Assessment and Severe Accident Evaluation," for the United States - Advanced Pressurized Water Reactor (US-APWR) design certification document (DCD) phase two review.

As part of its review of the US-APWR DCD Chapter 19, "Probabilistic Risk Assessment and Severe Accident Evaluation," and Chapter 6, "Engineered Safety Features," the NRC staff issued Request for Additional Information (RAI) 764-5805, RAI 871-6121 and RAI 873-6168. These RAIs are related to hydrogen accumulation in the Refueling Water Storage Pit (RWSP).

Given the potential for build-up of large hydrogen concentration inside the RWSP, the NRC staff requested MHI, in RAI 871-6121, to address the probabilistic and deterministic containment performance guidelines outlined in Section I.J of SECY-93-087, "Policy, Technical, and Licensing Issues Pertaining to Evolutionary and Advanced Light-Water Reactor Designs." In RAI 764-5805 and RAI 873-6168, the NRC staff requested MHI to demonstrate how the US-APWR design meets the requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 50.44(c)(1), 10 CFR 50.44(c)(2) and 10 CFR 50.44(c)(5).

In mid December 2011, MHI provided to the NRC staff, a draft response to RAI 871-6121, Question 19-560 and RAI 873-6168, Question 06.02.05-46. The draft response to Question 19-560 proposed a design change, which was explained during the call. MHI explained that it will change the hydrogen igniter design from the current alternate current powered configuration to a direct current powered configuration, and dedicated batteries for the igniter system will be available for at least 24 hours after the onset of complete station blackout.

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MHI committed to provide an updated draft response by the end of March 2012, which will include DCD mark-ups.

Please direct any inquiries to me at 301-415-3249, or via e-mail to [Ruth.Reyes@nrc.gov](mailto:Ruth.Reyes@nrc.gov).

**/RA/**

Ruth C. Reyes, Project Manager  
US-APWR Projects Branch (LB2)  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-021

Enclosure:  
List of Attendees

cc w/encl: See next page

MHI committed to provide an updated draft response by the end of March 2012, which will include DCD mark-ups.

Please direct any inquiries to me at 301-415-3249, or via e-mail to [Ruth.Reyes@nrc.gov](mailto:Ruth.Reyes@nrc.gov).

**/RA/**

Ruth C. Reyes, Project Manager  
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Office of New Reactors

Docket No. 52-021

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List of Attendees

cc w/encl: See next page

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**NRC-001**

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DATE	03/1/2012	03/1/2012	03/1/2012	03/1/2012	03/1/2012

**OFFICIAL RECORD COPY**

List of Attendees

Meeting with Mitsubishi Heavy Industries, Ltd. to Discuss Remaining Issues in Chapter 19,  
“Probabilistic Risk Assessment and Severe Accident Evaluation,”  
for the Meeting Held on January 30, 2012

<u>NAME</u>	<u>AGENCY/AFFILIATION</u>
Tom Hicks	Dominion Virginia Power
Keith Miller	Dominion Virginia Power
Roy Karimi	Energy Research, Inc. (NRC Contractor)
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Katsunori Kawai	Mitsubishi Heavy Industries, Ltd.
Katsukya Kuroiwa	Mitsubishi Heavy Industries, Ltd.
Jim Curry	Mitsubishi Nuclear Energy Systems
Jairus Green	Mitsubishi Nuclear Energy Systems
Scott Kiffer	Mitsubishi Nuclear Energy Systems
Futoshi Tanaka	Mitsubishi Nuclear Energy Systems
Ed Fuller	U.S. Nuclear Regulatory Commission
John McKirgan	U.S. Nuclear Regulatory Commission
James O'Driscoll	U.S. Nuclear Regulatory Commission
Ruth. Reyes	U.S. Nuclear Regulatory Commission
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Enclosure

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(Revised 02/17/2012)

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