

September 7, 2011

APPLICANT: MITSUBISHI HEAVY INDUSTRIES, LTD.

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

SUBJECT: SUMMARY OF THE AUGUST 4, 2011, MEETING WITH MITSUBISHI
HEAVY INDUSTRIES, LTD., TO DISCUSS THE UNITED STATES -
ADVANCED PRESSURIZED WATER REACTOR DESIGN CONTROL
DOCUMENT, SECTION 3.6.2, "PIPE HAZARDS ANALYSES"

On August 4, 2011, a Category 1 closed meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and Mitsubishi Heavy Industries, Ltd. (MHI) at the office of the NRC, Two White Flint North, 11545 Rockville Pike, Rockville, Maryland. The meeting notice was issued on August 1, 2011, and was documented in the Agencywide Documents Access and Management System (ADAMS) under accession number ML112101616. The notice included the meeting agenda. The purpose of the meeting was to discuss MHI's pipe hazards analyses, which is addressed in the United States - Advanced Pressurized Water Reactor Design Control Document, Section 3.6.2, "Pipe Hazards Analyses."

MHI conducted a presentation regarding its revised methodology for determining jet pressure oscillation amplitude, damping ratio methodology, and methodology for determining potential targets. The presentation contains proprietary information and therefore is not available to the public. The NRC staff identified concerns with the methodology for determining jet pressure oscillation amplitude as well as additional details that should be included in the description of the methodology for determining potential targets. The NRC staff did not identify any concerns with the damping ratio methodology. A list of attendees is provided as an enclosure.

Please direct any inquiries to me at 301-415-6256, or via e-mail to Dennis.Galvin@nrc.gov.

/RA/

Dennis Galvin, Project Manager
US-APWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Docket No.: 52-021

Enclosure:
List of Attendees

cc w/encl.: See next page

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OFFICE	DNRL/NMIP: PM	DNRL/NMIP: LA	DNRL/NMIP: PM	DNRL/NMIP: PM (signed)
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DATE	09/6/11	08/29/11	09/7/11	09/7/11

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List of Attendees

Closed Meeting with Mitsubishi Heavy Industries, Ltd. to Discuss the United States - Advanced
Pressurized Water Reactor Design Control Document, Section 3.6.2, "Pipe Hazards Analyses,"
Held on August 4, 2011

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James E. Gibson	Dominion Virginia Power
Fred Moody	Mitsubishi Heavy Industries, Ltd. (Consultant)
Hideki Fujimoto *	Mitsubishi Heavy Industries, Ltd.
Hideyuki Morita *	Mitsubishi Heavy Industries, Ltd.
Hiroyuki Fuyama *	Mitsubishi Heavy Industries, Ltd.
Junya Kono	Mitsubishi Heavy Industries, Ltd.
Kazuya Sasahara	Mitsubishi Heavy Industries, Ltd.
Makoto Kobayashi	Mitsubishi Heavy Industries, Ltd.
Ryo Fugimoto*	Mitsubishi Heavy Industries, Ltd.
Yasushi Nagata *	Mitsubishi Heavy Industries, Ltd.
Yoshiyuki Kondo	Mitsubishi Heavy Industries, Ltd.
Erin Wisler	Mitsubishi Nuclear Energy Systems
Joseph Tapia	Mitsubishi Nuclear Energy Systems
Masanori Onozuka	Mitsubishi Nuclear Energy Systems
Tomoyuki Kitani	Mitsubishi Nuclear Energy Systems
Yosuke Katsura	Mitsubishi Nuclear Energy Systems
Jules W. Lindau	Penn State /ARL
Steve Hambric *	Penn State /ARL
Dennis Galvin	U.S. Nuclear Regulatory Commission
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Enclosure

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(Revised 08/25/2011)

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