

April 27, 2011

APPLICANT: MITSUBISHI HEAVY INDUSTRIES, LTD.

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

SUBJECT: SUMMARY OF THE MARCH 29, 2011, PUBLIC AND CLOSED  
MEETING WITH MITSUBISHI HEAVY INDUSTRIES, LTD. TO DISCUSS  
THE REMAINING ISSUES ASSOCIATED WITH THE CONTAINMENT  
SUMP STRAINER DESIGN

On March 29, 2011, a Category 2 public and closed meeting was held between the U.S. Nuclear Regulatory Commission (NRC), representatives of Mitsubishi Heavy Industries, Ltd. (MHI), Luminant Generation Company (Luminant) and Dominion Virginia Power (Dominion), at the office of the NRC, Two White Flint North, 11545 Rockville Pike, Rockville, Maryland. The meeting notice was issued on March 17, 2011, and was documented in the Agencywide Documents Access and Management System (ADAMS) under accession number ML110750483. The meeting notice included the meeting agenda, which was also available as a handout during the meeting. The purpose of the meeting was to discuss remaining issues associated with the containment sump strainer design and Generic Safety Issue 191 (GSI-191), "Assessment of Debris Accumulation on PWR Sump Performance."

During the meeting, MHI stated that a sump strainer task force was formed to address standard plant issues related to GSI-191. The task force includes personnel from MHI, Luminant and Dominion. Areas of review and issues discussed in the meeting were floating debris, debris allocation, erosion factor, gap issue associated with the core inlet blockage (CIB) test, air ingestion, etc. Also, MHI stated that they will perform additional strainer head loss and CIB tests; and will submit amended technical reports and design control document tracking reports providing additional information to resolve the NRC's concerns. At the end of the open session of the meeting, MHI presented their closure plan and schedule. At the end of the meeting it was agreed that MHI will submit a letter that will contain their closure plan, schedule and changes to the current design. A list of attendees is provided as Enclosure 1. MHI's presentation, "US-APWR GSI-191 Closure Plan," dated March 29, 2011, is provided as Enclosure 2 in ADAMS and can be found under accession number ML111100599. MHI's presentation regarding Upstream (Enclosure 3) and MHI's presentation regarding Downstream (Enclosure 4) contain proprietary information and therefore are not available to the public.

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  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-021

Enclosures:

1. List of Attendees
2. MHI Presentation - Overview (Public Session, ML111100599)
3. MHI Presentation - Upstream (Non-Public, Proprietary)
4. MHI Presentation - Downstream (Non-Public, Proprietary)

cc w/encls 1 and 2: See next page

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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Division of New Reactor Licensing  
Office of New Reactors

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cc w/encls 1 and 2: See next page

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**ADAMS Accession No.: ML111100593; Pkg.: ML111101210**

**NRC-001**

<b>OFFICE</b>	DNRL/NMIP: PM	DNRL/NMIP: LA	DNRL/NMIP: PM	DNRL/NMIP: BC	DNRL/NMIP: PM
<b>NAME</b>	RReyes	CSmith	JCiocco	HHamzehee	RReyes (signed)
<b>DATE</b>	04/25/2011	04/25/2011	04/26/2011	04/26/2011	04/27/2011

**OFFICIAL RECORD COPY**

List of Attendees

Meeting with Mitsubishi Heavy Industries, Ltd. to Discuss the Remaining Issues Associated with  
the Containment Sump Strainer Design, for the Meeting Held on March 29, 2011

<b><u>NAME</u></b>	<b><u>AGENCY/AFFILIATION</u></b>
Addison Hall	Dominion Virginia Power
Mark Giles	Dominion Virginia Power
Regina Borsh	Dominion Virginia Power
Edward Throm	Information Systems Laboratories
Vasselin Palazov	Information Systems Laboratories
Bobby Bird	Luminant Generation Company, LLC.
John Conly	Luminant Generation Company, LLC.
Todd Evans	Luminant Generation Company, LLC.
Chikara Kurimura	Mitsubishi Heavy Industries, Ltd.
Shuheii Miyake	Mitsubishi Heavy Industries, Ltd.
C. Keith Paulson	Mitsubishi Nuclear Energy Systems
Hiroshi Hamamoto	Mitsubishi Nuclear Energy Systems
Hiroshi Matsuoka	Mitsubishi Nuclear Energy Systems
Jairus Greene	Mitsubishi Nuclear Energy Systems
Jason Richard	Mitsubishi Nuclear Energy Systems
Kaname Shibato	Mitsubishi Nuclear Energy Systems
Kennedy Boakye	Mitsubishi Nuclear Energy Systems
Kurt Walter	Mitsubishi Nuclear Energy Systems
Mutsumi Ishida	Mitsubishi Nuclear Energy Systems
Ryan Sprengel	Mitsubishi Nuclear Energy Systems
Chris Kudla	Performance Contracting, Inc.
Chandu Patel	U.S. Nuclear Regulatory Commission
Christopher Jackson	U.S. Nuclear Regulatory Commission
Christopher Van Wert	U.S. Nuclear Regulatory Commission
Clint Ashley	U.S. Nuclear Regulatory Commission
Eric Miller	U.S. Nuclear Regulatory Commission
Gregory Makar	U.S. Nuclear Regulatory Commission
Jeffrey Ciocco	U.S. Nuclear Regulatory Commission
Jessica Colon	U.S. Nuclear Regulatory Commission
John McKirgan	U.S. Nuclear Regulatory Commission
Joseph Donoghue	U.S. Nuclear Regulatory Commission
Ruth C. Reyes	U.S. Nuclear Regulatory Commission
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(Revised 04/19/2011)

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