

April 6, 2009

APPLICANT: MITSUBISHI HEAVY INDUSTRIES, LTD.

FACILITY: INFORMATION SYSTEM LABORATORIES - NUCLEAR SYSTEMS
ANALYSIS, ROCKVILLE, MD

SUBJECT: SUMMARY OF FEBRUARY 10, 2009, CLOSED MEETING WITH
MITSUBISHI HEAVY INDUSTRIES, LTD. ON THE REVIEW OF THE
US-APWR ACCIDENT ANALYSES COMPUTER CODES

On February 10, 2009, a closed meeting was held between the Nuclear Regulatory Commission's (NRC), its contractor, Information Systems Laboratories (ISL), and representatives of Mitsubishi Heavy Industries, Ltd. (MHI) to discuss the review process of the M-RELAP5 and MARVEL-M computer codes, and the confirmatory analyses for the Non-Loss-of-Coolant Accident (LOCA), Small Break LOCA, and Large Break LOCA Topical Reports. The information discussed was proprietary and the purpose of the meeting was to present the current status of the project as well as any planned future meetings and documentation requests from the NRC and ISL staff. A list of attendees is provided as an enclosure, but may not be all-inclusive.

MHI discussed proprietary information on the history of the M-RELAP5 and MARVEL-M computer codes used for the US-Advanced Pressurized Water Reactor (US-APWR) design and presented their position on the verification and validation process discussed in the Topical Reports. MHI reinforced their position that they are prepared to work with the NRC and ISL to resolve any issues in a timely manner and to continue to have open communications with the parties involved in this process. Dan Prelewicz discussed ISL's position, referencing MHI proprietary information, on the current status of the M-RELAP5 and MARVEL-M code reviews and the specific information needed to aid in the review process. Among the items requested, were the source codes for M-RELAP5, the PC executables and documentation on the M-RELAP5 SBLOCA plant model, and the code manuals and documentation on specific limiting calculations for the SBLOCA, LBLOCA and Non-LOCA cases.

MHI agreed to provide ISL, after receiving the Request for Additional Information (RAI), the specific documentation needed, such as the input files for the validation cases used in the MARVEL-M code. MHI also reinforced its position on the availability of the source codes for the M-RELAP5 and MARVEL-M codes. A follow-up meeting was proposed for the week of February 23, 2009, between NRC, ISL and MHI to continue this discussion.

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This was a closed meeting so no members of the public were in attendance. Please direct any inquiries to me at 301-415-7871, or via e-mail to Michael.Takacs@nrc.gov.

/RA/

Michael Takacs, 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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/RA/

Michael Takacs, Project Manager
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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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NRC-001

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Enclosure
Attendees List
Meeting Summary of the 02/10/09 Meeting
with NRC/MHI/ISL
Dated March 4, 2009

List of Attendees

Meeting with MHI to discuss the review of M-RELAP5 and MARVEL-M Computer Codes and the Confirmatory Analysis of the Non-LOCA, SBLOCA and LBLOCA Topical Reports.

Closed Meeting on February 10, 2009

<u>Name</u>	<u>Affiliation</u>
Dan Prelewicz	ISL
Edward Thom	ISL
Robert Beaton	ISL
Atsushi Kumaki	MHI
Doug Wood	MHI
Hiroshi Fujishiro	MHI
Hisanaga Takahashi	MHI
Junto Ogawa	MHI
Masato Oba	MHI
Michitaka Kikuta	MHI
Shinji Kawanago	MHI
Kazuya Hayashi	MNES
Keith Paulson	MNES
Masanori Onuzuka	MNES
Ruriko Takanashi	MNES
Ryan Sprengal	MNES
Shinji Otani	MNES
Erick Martinez	NRC
Jeff Ciocco	NRC
Jeff Schmidt	NRC
Michael Norato	NRC
Mike Takacs	NRC
Scott Elkins	NRC
Shawn Marshall	NRC

ENCLOSURE

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(Revised 03/25/2009)

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