

## 16-5, KONAN 2-CHOME, MINATO-KU TOKYO, JAPAN

June 28, 2013

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-13152

Subject: Transmittal of Accepted Version of the Large Break LOCA Topical Report 'Large Break LOCA Code Applicability Bened for U.S. ADW/R. MILAR 07011 Revision 3'

Break LOCA Code Applicability Report for US-APWR, MUAP-07011 Revision 3'

References: 1) United States – Advanced Pressurized Water Reactor Final Safety Evaluation by the Office of New Reactors Topical Report MUAP-07011-P, Revision 3, "Large Break LOCA Code Applicability Report for the US-APWR," dated May 14, 2013 (ML13123A363).

2) MHI Letter No. UAP-HF-11434, "Transmittal of Topical Report 'Large Break LOCA Code Applicability Report for US-APWR' MUAP-07011 Revision 3'," dated December 28, 2011 (ML12012A133).

With this letter, Mitsubishi Heavy Industries, Ltd. ("MHI") transmits to the U.S. Nuclear Regulatory Commission ("NRC") the official document entitled "Accepted Version of the Large Break LOCA Code Applicability Report for US-APWR, MUAP-07011 Revision 3." The accepted versions of the Large Break LOCA topical report that were requested in Reference 1 are being submitted electronically on CD.

As indicated in the enclosed material, the proprietary version of the document contains information that MHI considers proprietary, and therefore should be withheld from public disclosure pursuant to 10 C.F.R. § 2.390 (a)(4) as trade secrets and commercial or financial information which is privileged or confidential. Any proprietary information that is written inside a bracket in the proprietary-version is replaced by the designation "[ ]" without any text, in the non-proprietary-version.

This letter includes a copy of the proprietary version of the approved version of the report on CD 1 (Enclosure 2), a copy of the non-proprietary version of the approved version of the report on CD 2 (Enclosure 3), and the Affidavit of Yoshiki Ogata (Enclosure 1) which identifies the reasons MHI respectfully requests that all materials designated as "Proprietary" in Enclosure 2 be withheld from public disclosure pursuant to 10 C.F.R. § 2.390 (a)(4).

Since Chapters 1 and 15 of the US-APWR Design Control Document (DCD) reference MUAP-07011, MHI will update the revision number and submittal date of MUAP-07011 as part of DCD Revision 4 in August 2013.

Please contact Mr. Joseph Tapia, General Manager of Licensing Department, Mitsubishi Nuclear Energy Systems, Inc., if the NRC has questions concerning any aspect of this submittal. His contact information is provided below.

### Sincerely,

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Yoshiki Ogata, Executive Vice President Mitsubishi Nuclear Energy Systems, Inc. On behalf of Mitsubishi Heavy Industries, LTD

#### Enclosures:

- 1. Affidavit of Yoshiki Ogata
- 2. CD 1: "Accepted Version of the Large Break LOCA Code Applicability Report for US-APWR, MUAP-07011-P-A, Revision 3"
  - Version containing Proprietary information
- 3. CD 2: "Accepted Version of the Large Break LOCA Code Applicability Report for US-APWR, MUAP-07011-NP-A, Revision 3"
  - Version not containing Proprietary information

The files contained in each CD are listed in Attachments 1 and 2 hereto.

CC: J. A. Ciocco J. Tapia

#### **Contact Information**

Joseph Tapia, General Manager of Licensing Department Mitsubishi Nuclear Energy Systems, Inc. 1001 19th Street North, Suite 710 Arlington, VA 22209 E-mail: joseph\_tapia@mnes-us.com

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#### **ENCLOSURE 1**

Docket No.52-021 MHI Ref: UAP-HF-13152

# MITSUBISHI HEAVY INDUSTRIES, LTD. AFFIDAVIT

- I, Yoshiki Ogata, being duly sworn according to law, depose and state as follows:
- 1. I am Executive Vice President of Mitsubishi Nuclear Energy Systems, and have been delegated the function of reviewing Mitsubishi Heavy Industries, Ltd ("MHI") US-APWR documentation to determine whether it contains information that should be withheld from disclosure pursuant to 10 C.F.R. § 2.390 (a)(4) as trade secrets and commercial or financial information which is privileged or confidential.
- 2. In accordance with my responsibilities, I have reviewed the enclosed document entitled "Accepted Version of the Large Break LOCA Code Applicability Report for US-APWR, MUAP-07011, Revision 3" and have determined that portions of the report contain proprietary information that should be withheld from public disclosure. Those pages containing proprietary information are identified with the label "Proprietary" on the top of the page and the proprietary information has been bracketed with an open and closed bracket as shown here "[ ]". The first page of the technical report indicates that all information identified as "Proprietary" should be withheld from public disclosure pursuant to 10 C.F.R. § 2.390 (a)(4).
- 3. The information identified as proprietary in the enclosed document has in the past been, and will continue to be, held in confidence by MHI and its disclosure outside the company is limited to regulatory bodies, customers and potential customers, and their agents, suppliers, and licensees, and others with a legitimate need for the information, and is always subject to suitable measures to protect it from unauthorized use or disclosure.
- 4. The basis for holding the referenced information confidential is that it describes the unique codes and files for the analysis of Loss-Of-Coolant Accident for the US-APWR, developed by MHI. These codes and files were developed at significant cost to MHI, since they required the performance of detailed calculations, analyses, and testing extending over several years. The referenced information is not available in public sources and could not be gathered readily from other publicly available information. MHI knows of no way the information could be lawfully acquired by organizations or individuals outside of MHI.
- 5. The referenced information is being furnished to the Nuclear Regulatory Commission ("NRC") in confidence and solely for the purpose of supporting the NRC staff's review of MHI's Application for certification of its US-APWR Standard Plant Design.
- 6. Public disclosure of the referenced information would assist competitors of MHI in their design of new nuclear power plants without the costs or risks associated with the design of the subject systems. Disclosure of the information identified as proprietary would therefore have negative impacts on the competitive position of MHI in the U.S. nuclear plant market.

- 7. Public disclosure of the referenced information would assist competitors of MHI in their design of new nuclear power plants without incurring the costs or risks associated with the design of the subject systems. Therefore, disclosure of the information contained in the referenced document would have the following negative impacts on the competitive position of MHI in the U.S. nuclear plant market:
  - A. Loss of competitive advantage due to the costs associated with development of the US-APWR LOCA analysis codes and methodologies. Providing public access to such information permits competitors to duplicate or mimic the LOCA analysis codes and methodologies information without incurring the associated costs.
  - B. Loss of competitive advantage of the US-APWR created by benefits of enhanced US-APWR LOCA analysis codes and methodologies development costs associated with the Emergency Core Coolant System.

I declare under penalty of perjury that the foregoing affidavit and the matters stated therein are true and correct to the best of my knowledge, information and belief.

Executed on this 28th day of June, 2013.

Yoshiki Ogata,

Executive Vice President

Mitsubishi Nuclear Energy Systems, Inc.

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# ATTACHMENT 1

# **FILES CONTAINED ON CD 1**

CD 1: "Accepted Version of the Large Break LOCA Code Applicability Report for US-APWR, MUAP-07011-P-A, Revision 3"

- Version containing Proprietary information

## Contents of CD

File Name	<u>Size</u>	Sensitivity Level
1 MUAP-07011(R3)-P-A.pdf	21.6 MB	Proprietary
2 MUAP-07011(R3)-P-A, App-C 1 of 2.pdf	38.7 MB	Proprietary
3 MUAP-07011(R3)-P-A, App-C 2 of 2.pdf	7.0 MB	Proprietary

## **ATTACHMENT 2**

# **FILES CONTAINED ON CD 2**

CD 2: "Accepted Version of the Large Break LOCA Code Applicability Report for US-APWR, MUAP-07011-NP-A, Revision 3"

- Version not containing Proprietary information

Contents of CD

<u>File Name</u> 1 MUAP-07011(R3)-NP-A.pdf

<u>Size</u> 26.1 MB Sensitivity Level Non-Proprietary