

  
**MITSUBISHI HEAVY INDUSTRIES, LTD.**  
16-5, KONAN 2-CHOME, MINATO-KU  
TOKYO, JAPAN

July 25, 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-13189

**Subject: Transmittal of Technical Report "US-APWR Instrument Setpoint Methodology" (MUAP-09022, Revision 3)**

- References:** 1) "MHI's Responses to US-APWR DCD RAI for Chapter 7 and mark up of Tier 1 and Chapter 7 on Revision 3", UAP-HF-11159, dated May 31, 2011, ML11160A098.  
2) "MHI's Amended Responses to RAI on Chapter 16 and mark up of Chapter 16 and 19 on DCD Revision 3", UAP-HF-12015, dated January 30, 2012, ML12041A034.

With this letter, Mitsubishi Heavy Industries, Ltd. (MHI) transmits to the U.S. Nuclear Regulatory Commission (NRC) copies of the technical report entitled "US-APWR Instrument Setpoint Methodology" (MUAP-09022, Revision 3).

This document has been revised to incorporate changes committed to in various RAI responses (References 1 and 2).

Each version of the enclosed document is included on a separate compact disc. As indicated in the enclosed materials, this 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. A non-proprietary version of the document is also being submitted with the information identified as proprietary redacted and replaced by the designation "[ ]."


In accordance with the NRC submittal procedures for technical reports, this letter includes a copy of the proprietary version (Enclosure 2), a copy of the non-proprietary version (Enclosure 3), and the Affidavit of Yoshiki Ogata (Enclosure 1) which identifies the reasons MHI respectfully requests that all material designated as proprietary in Enclosure 2 be withheld from disclosure pursuant to 10 C.F.R. § 2.390 (a)(4).

Attachment 1 is a list of the files contained in enclosures 2 and 3. Attachment 2 is a matrix which identify sections of MUAP-09022, where applicable, which contain information requested by the staff in various Requests for Additional Information (RAIs), and is being provided for the staff's convenience.

Please contact to 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.

D081  
MPO

Sincerely,



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: MUAP-09022-P Revision 3, "US-APWR Instrument Setpoint Methodology"  
- Version containing Proprietary information
3. CD 2: MUAP-09022-NP Revision 3, "US-APWR Instrument Setpoint Methodology"  
- Version not containing Proprietary information

The file contained in each CD is listed in Attachment 1.

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  
Telephone: (703) 908 – 8055

**ENCLOSURE 1**

Docket No. 52-021  
MHI Ref: UAP-HF-13189

**MITSUBISHI HEAVY INDUSTRIES, LTD.**  
**AFFIDAVIT**

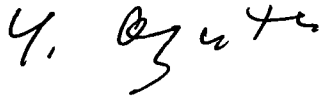
I, Yoshiki Ogata, being duly sworn according to law, depose and state as follows:

1. I am Executive Vice President of Mitsubishi Nuclear Energy Systems, Inc., and have been delegated the function of reviewing Mitsubishi Heavy Industries, Ltd.'s (MHI) US-APWR documentation to determine whether it contains information that 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.
2. In accordance with my responsibilities, I have reviewed the enclosed documents entitled "US-APWR Instrument Setpoint Methodology" (MUAP-09022, Revision 3), and have determined that the document 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 document indicates that 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 design and methodology developed by MHI for performing the I&C design of the US-APWR reactor.
5. The referenced information is being furnished to the Nuclear Regulatory Commission (NRC) in confidence and solely for the purpose of information to the NRC staff.
6. The referenced information is not available in public sources and could not be gathered readily from other publicly available information. Other than through the provisions in paragraph 3 above, MHI knows of no way the information could be lawfully acquired by organizations or individuals outside of MHI.
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 and testing 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 safety I&C system. Providing public access to such information permits competitors to duplicate or mimic the safety I&C system design without incurring the associated costs.

- B. Loss of competitive advantage of the US-APWR created by benefits of enhanced plant safety, and reduced operation and maintenance costs associated with the safety I&C 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 25th day of July, 2013.

A handwritten signature in black ink, appearing to read "Y. Ogata". The signature is written in a cursive style with a large initial "Y" and a long, sweeping underline.

Yoshiaki Ogata,  
Executive Vice President  
Mitsubishi Nuclear Energy Systems, Inc.

**ATTACHMENT 1**

**FILES CONTAINED IN CDs**

**CD 1:**

**MUAP-09022-P Revision 3, "US-APWR Instrument Setpoint Methodology"  
- Version containing Proprietary Information**

Contents of CD

<u>File Name</u>	<u>Size</u>	<u>Sensitivity Level</u>
MUAP-09022-P(R3).pdf	590KB	Proprietary

**CD 2:**

**MUAP-09022-NP Revision 3, "US-APWR Instrument Setpoint Methodology"  
- Version not containing Proprietary Information**

Contents of CD

<u>File Name</u>	<u>Size</u>	<u>Sensitivity Level</u>
MUAP-09022-NP(R3).pdf	442KB	Non-Proprietary

**ATTACHMENT 2**

**REPORT SECTIONS CONTAINING INFORMATION REQUESTED BY NRC REQUESTS  
FOR ADDITIONAL INFORMATION (RAIs)**

<b>DCD Sect</b>	<b>RAI</b>	<b>eRAI</b>	<b>Question #</b>	<b>Question # (sub-number)</b>	<b>Section, paragraph, figure, and/or table where question is answered</b>
7.1	722	5597	07.01-29	—	Entirety of MUAP-09022.
7.1	722	5597	07.01-30	—	Entirety of MUAP-09022.
16	590	4753	16-301	—	Sections 2.0, 5.3.1, 5.3.2, 5.3.2.2 and 5.4.