



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

April 28, 2010

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-11126

**Subject: Revision 6 of the Technical Report MUAP-07004-P "US-APWR Safety I&C System Design Process & Description", Revision 2 of the Technical Report MUAP-09021-P "US-APWR Response Time of Safety I&C System" and Revision 7 of the Technical Report MUAP-07005-P "US-APWR Safety System Digital Platform -MELTAC-"**

**References:** 1. MHI's Response to US-APWR DCD RAI No.593-4565 Revision 1, dated June 8 2010.

With this letter, Mitsubishi Heavy Industries, Ltd. ("MHI") transmits to the U.S. Nuclear Regulatory Commission ("NRC") revision 6 of the technical report entitled "US-APWR Safety I&C System Design Process and Description", which was previously submitted in October 2010, as revision 5 and revision 1 of the technical report "US-APWR Response Time of Safety I&C System" which was previously submitted in April 2010, as revision 1. In addition MHI transmits to the NRC revision 7 of the technical report entitled "Safety System Digital Platform -MELTAC-", which was previously submitted in October 2010 as revision 6. These documents have been revised to reflect agreements reached with the NRC at the public meeting held from January 2011 to March 2011. Also, the Response Time Report has been revised to reflect the RAI responses (References 1).

As indicated in the enclosed materials, these documents 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 each document is also being submitted in this package. In the non-proprietary version, the proprietary information, bracketed in the proprietary version, is replaced by the designation "[ ]".

This letter includes a copy of the proprietary versions (Enclosure 2), a copy of the non-proprietary versions (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).

Please contact Dr. C. Keith Paulson, Senior Technical Manager, Mitsubishi Nuclear Energy Systems, Inc. if the NRC has questions concerning any aspect of the submittal. His contact information is below.

DOB  
MRO

Sincerely,



Yoshiaki Ogata,  
General Manager- APWR Promoting Department  
Mitsubishi Heavy Industries, LTD.

Enclosures:

1. Affidavit of Yoshiaki Ogata
2. CD 1: "MUAP-07004-P(R6) US-APWR Safety I&C System Design Process and Description", "MUAP-09021-P(R2) US-APWR Response Time of Safety I&C System" and "MUAP-07005-P(R7) US-APWR Safety System Digital Platform -MELTAC-"  
  
– Version containing Proprietary information
3. CD 2: "MUAP-07004-NP(R6) US-APWR Safety I&C System Design Process and Description" and "MUAP-09021-NP(R2) US-APWR Response Time of Safety I&C System" and "MUAP-07005-NP(R7) US-APWR Safety System Digital Platform -MELTAC-"  
  
– Version not containing Proprietary information

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

CC: J A. Ciocco  
C. K. Paulson

Contact Information

C. Keith Paulson, Senior Technical Manager  
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## ENCLOSURE 1

Docket No. 52-021

### MITSUBISHI HEAVY INDUSTRIES, LTD.

#### AFFIDAVIT

I, Yoshiki Ogata, state as follows:

1. I am General Manager, APWR Promoting Department, of Mitsubishi Heavy Industries, LTD ("MHI"), and have been delegated the function of reviewing MHI's 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 Safety I&C System Design Process and Description Revision 6" dated April 2011, "US-APWR Response Time of Safety I&C System Revision 2" dated April 2011 and "Safety System Digital Platform -MELTAC- Revision 7" dated April 2011 have determined that portions of 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 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 design of the safety I&C system design, developed by MHI and not used in the exact form by any of MHI's competitors. This information was developed at significant cost to MHI, since it required the performance of Research and Development and detailed design for its software and hardware extending over several years.
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 28th day of April, 2011.

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 tail.

Yoshiaki Ogata,  
General Manager- APWR Promoting Department  
Mitsubishi Heavy Industries, LTD.

**ATTACHMENT 1**

**FILES CONTAINED IN CD 1**

**CD 1: “MUAP-07004-P(R6) US-APWR Safety I&C System Design Process and Description”, “MUAP-09021-P(R2) US-APWR Response Time of Safety I&C System” and “MUAP-07005-P(R7) US-APWR Safety Digital Platform –MELTAC-”  
– Version containing proprietary information**

**Contents of CD**

<u>File Name</u>	<u>Size</u>	<u>Sensitivity Level</u>
MUAP-07004-P(R6).pdf	4.7MB	Proprietary
MUAP-09021-P(R2).pdf	0.5MB	Proprietary
MUAP-07005-P(R7).pdf	7.5MB	Proprietary

**ATTACHMENT 2**

**FILES CONTAINED IN CD 2**

**CD 2: “MUAP-07004-NP(R6) US-APWR Safety I&C System Design Process and Description”, “MUAP-09021-NP(R2) US-APWR Response Time of Safety I&C System” and “MUAP-07005-NP(R7) US-APWR Safety Digital Platform –MELTAC-”  
– Version not containing proprietary information**

**Contents of CD**

<u>File Name</u>	<u>Size</u>	<u>Sensitivity Level</u>
MUAP-07004-NP(R6).pdf	3.7MB	Non-Proprietary
MUAP-09021-NP(R2).pdf	0.2MB	Non-Proprietary
MUAP-07005-NP(R7).pdf	6.5MB	Non-Proprietary