

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

August 29, 2008

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-08162

**Subject: Input Manual for the M-RELAP5 Code used in the US-APWR Small Break LOCA Analysis**

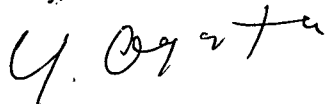
Mitsubishi Heavy Industries, Ltd. ("MHI") is submitting to the U.S. Nuclear Regulatory Commission ("NRC") the Input Manual for the M-RELAP5 code used in the US-APWR analysis (hereby the "Referenced Material") referenced in the "Design Control Document for the US-APWR" ("DCD") and supporting Topical Report "Small Break LOCA Methodology for US-APWR" (MUAP-07013), submitted to the NRC in support of MHI's US-APWR Design Certification Application ("DCA"). This manual is being submitted electronically in the Optical Storage Media ("OSM") enclosure. The file contained on OSM is listed on the associated enclosure cover sheet.

This manual is being furnished to the 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.

This letter includes a copy of the proprietary version (Enclosure 2), and the Affidavit of Yoshiki Ogata (Enclosure 1) which identifies the reasons MHI respectfully requests that the material 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 this submittal. His contact information is provided below.

Sincerely,



Yoshiki Ogata  
General Manager- APWR Promoting Department  
Mitsubishi Heavy Industries, Ltd.

DOB1 1/2 CD-ROMS  
NRD 1 CD forwarder  
to: Jeff Ciocco  
9/2/08

Enclosures:

1. Affidavit of Yoshiki Ogata
2. M-RELAP5 Input Manual
  - Contains proprietary information

CC: J. A. Ciocco  
C. K. Paulson

Contact Information

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

**UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION**

In the Matter of )  
MITSUBISHI HEAVY INDUSTRIES, Ltd. )  
US-APWR )  
Standard Plant Design Certification Application )  
)

AFFIDAVIT OF YOSHIKI OGATA

I, Yoshiki Ogata, being duly sworn according to law, depose and 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 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 contents of the Optical Storage Media ("OSM") provided under MHI Reference UAP-HF-08162 on August 29, 2008, which include Input Manual for the M-RELAP5 code used in the US-APWR Small Break LOCA Analysis (hereby the "Referenced Material") referenced in the "Design Control Document for the US-APWR" ("DCD"), and supporting Topical Report "Small Break LOCA Methodology for US-APWR" (MUAP-07013) and have determined that the Referenced Material contain proprietary information that should be withheld from public disclosure. Accordingly, the label on the OSM has been marked to indicate that the entire contents of the OSM should be withheld from public disclosure pursuant to 10 C.F.R. § 2.390 (a)(4).
3. The bases for holding the Referenced Material confidential are as follows:
  - A. They include the information that is provided to MHI pursuant to licensing agreements with third parties (the "Licensors") for MHI's use and under the obligation to maintain their confidentiality. Furthermore, MHI has an ownership interest in the Referenced Material by having paid significant sums of money to the Licensors for the rights to the intellectual property therein such that public disclosure of the material would adversely affect MHI's competitive position.
  - B. They include the information that was developed at significant cost to MHI.
4. Pursuant to the licensing agreements with the Licensors, the Referenced Material has in the past been, and will continue to be, held in confidence by MHI, and is subject to suitable measures to protect them from unauthorized use or disclosure.
5. The Referenced Material is generally not available in public sources and could not be gathered readily from other publicly available information.
6. Public disclosure of the Referenced Material would assist competitors of MHI and the Licensor in their design of new nuclear power plants without the costs or risks associated with the design of new systems and components. Disclosure of the information identified

as proprietary would therefore have negative impacts on the competitive position of MHI and the Licensors in the U.S. nuclear plant market.

7. The Referenced Material 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.

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 29<sup>th</sup> day of August, 2008.



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Yoshiaki Ogata

## Enclosure 2

### FILE CONTAINED IN CD 1

**CD 1: "M-RELAP5 Input Manual"**  
**-Proprietary information**

#### Contents of CD

<u>File Name</u>	<u>Size</u>	<u>Sensitivity Level</u>
6AS-1E-UAP-080014_mrelap5_inputmanual.pdf	1070KB	Proprietary