

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

July 20, 2007

Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Attention: Mr. David B. Matthews

Project No.0751  
MHI Ref: UAP-HF-07086

**Subject: Response to NRC's Questions for Topical Report MUAP-07001-P(R1) "THE ADVANCED ACCUMULATOR (Proprietary)".**

With this letter, Mitsubishi Heavy Industries, LTD. (MHI) transmits to the U.S. Nuclear Regulatory Commission (NRC) the documents entitled "Response to the NRC's questions for Topical Report MUAP-07001-P(R1) THE ADVANCED ACCUMULATOR" in response to the NRC's questions for the topical report. In the enclosed documents, MHI provides our responses following to NRC's comments and questions. If necessary, MHI may revise our topical report.

As indicated in the enclosed materials, these documents contain information that MHI considers proprietary, and therefore should be withheld from disclosure pursuant to 10 C.F.R. § 2.390 (a)(4) and 10 C.F.R § 9.17 (a)(4) as trade secrets and commercial or financial information which is privileged or confidential. Non-proprietary versions of the documents are also being submitted in this package (Enclosure 3). In the non-proprietary versions, the proprietary information, bracketed in the proprietary version, is replaced by the designation "[ ]".

This letter includes copies of the proprietary versions (Enclosure 2), copies of the non-proprietary version (Enclosure 3) and the Affidavit of Masahiko Kaneda (Enclosure 1) which identifies the reasons MHI respectfully requests that all materials designated as "Proprietary" in Enclosure 2 be withheld from disclosure pursuant to 10 C.F.R. § 2.390 (a)(4) and 10 C.F.R. § 9.17(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 submittals. His contact information is below.

Sincerely,

*M. Kaneda*

Masahiko Kaneda,  
General Manager- APWR Promoting Department  
Mitsubishi Heavy Industries, LTD.

DOB1

NRO

**Enclosures:**

**Enclosure1 - Affidavit of Masahiko Kaneda (non-proprietary)**

**Enclosure2 - Response to the NRC's questions for Topical Report MUAP-07001-P(R1) THE  
ADVANCED ACCUMULATOR (UAP-HF-07086-P) (proprietary version)**

**Enclosure3 - Response to the NRC's questions for Topical Report MUAP-07001-P(R1) THE  
ADVANCED ACCUMULATOR (UAP-HF-07086-NP) (non-proprietary version)**

**CC: S. R. Monarque**

**L. J. Burkhart**

**C. K. Paulson**

**Contact Information**

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

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**MITSUBISHI HEAVY INDUSTRIES, LTD.**

**AFFIDAVIT**

I, Masahiko Kaneda, 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) and 10 C.F.R. § 9.17(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 dated July 20 2007, entitled "Response to the NRC's questions for Topical Report MUAP-07001-P(R1) THE ADVANCED ACCUMULATOR" and have determined that portions of the documents 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 proprietary information has been bracketed with an open and closed bracket as shown here "[ ]". The first pages of the documents indicate 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 documents 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 advanced accumulator, developed by MHI and not used in the exact form by any of MHI's competitors. The information was developed at significant cost to MHI, since it required the performance of detailed design calculations, analyses and testing 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's review of the topical report.
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 of the subject systems. Therefore, disclosure of the information contained in the enclosed documents 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 subject system. Providing public access to such information permits competitors to duplicate or mimic the component 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 subject 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 20th day of July, 2007.

*M. Kaneda*

Masahiko Kaneda,  
General Manager- APWR Promoting Department  
Mitsubishi Heavy Industries, LTD.

Enclosure 2

UAP-HF-07086-P, Rev.0

**US-APWR**

**Response to the NRC's questions  
for Topical Report MUAP-07001-P(R1)  
THE ADVANCED ACCUMULATOR**

July 2007  
(Proprietary Version)

**[Important Notice]**

This document contains proprietary information of Mitsubishi Heavy Industries, LTD (MHI). MHI requests that the NRC withhold this information from public disclosure. The first page of this document and those pages containing proprietary information are identified with the label "Proprietary" on the top of the page. The first page of the document also indicates that all information identified as "Proprietary" should be withheld from public disclosure pursuant to 10 C.F.R. § 2.390 (a)(4).

**Enclosure 3**

**UAP-HF-07086-NP, Rev.0**

**US-APWR**

**Response to the NRC's questions  
for Topical Report MUAP-07001-P(R1)  
THE ADVANCED ACCUMULATOR**

**July 2007  
(Non-Proprietary Version)**

This is a non-proprietary version of the MHI document, UAP-HF-07086-P, Rev.0, with all proprietary information removed.

Portions of the document where proprietary information has been removed are identified by the designation "[ ]".