



**MITSUBISHI HEAVY INDUSTRIES, LTD.**

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

July 3, 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-07073

**Subject: Revised version of the Topical Report entitled "HSI System Design Description and HFE Process"**

With this letter, Mitsubishi Heavy Industries, LTD. (MHI) transmits to the U.S. Nuclear Regulatory Commission (NRC) a copy of the revised version of the topical report entitled "HSI System Design Description and HFE Process" which was previously submitted in April 2007 and has been revised in response to comments from the NRC staff in the 7th pre application review meeting on June 12. As indicated in the enclosed materials, the topical report contains information that MHI and Mitsubishi Electric Corporation (MELCO) consider 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. A non-proprietary version of the topical report is also being submitted with the information identified as proprietary redacted and replaced by the designation "[ ]".

In accordance with the NRC submittal procedures for topical reports, this letter includes a copy of the proprietary version (Enclosure 2), 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,

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

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Enclosures:

Enclosure 1 - Affidavit of Masahiko Kaneda (non-proprietary)

Enclosure 2 - HSI System Design Description and HFE Process-(proprietary)  
(MUAP-07007-P, Rev.1)

Enclosure 3 - HSI System Design Description and HFE Process-(non-proprietary)  
(MUAP-07007-NP, Rev.1)

CC: S. R. Monarque

L. J. Burkhart

C. K. Paulson

Contact Information

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**ENCLOSURE 1**

**Project No. 0751**

**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 topical report dated July 3, 2007, entitled "HSI System Design Description and HFE Process" 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 proprietary information has been bracketed with an open and closed bracket as shown here "[ ]". The first page of the topical 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 topical report has in the past been, and will continue to be, held in confidence by MHI and Mitsubishi Electric Corporation (MELCO) 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 topical report confidential is that it describes the unique design of human system interface system ("HSIS"), developed by MHI and MELCO and not used in the exact form by any of MHI's and MELCO's competitors. This information was developed at significant cost to MHI and MELCO, since it required the performance of detailed design calculations, analyses, software and hardware manufacturing 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 supporting 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 and MELCO know of no way the information could be lawfully acquired by organizations or individuals outside of MHI and MELCO.
7. Public disclosure of the referenced information would assist competitors of MHI and MELCO 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 topical report would have the following negative impacts on the competitive position of MHI and MELCO in the U.S. nuclear plant market:

- A. Loss of competitive advantage due to the costs associated with development of the HSIS. Providing public access to such information permits competitors to duplicate or mimic the HSIS 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 HSIS.

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 3rd day of July, 2007.



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

Enclosure 2

MHI Topical Report: MUAP-07007-P, Rev.1

**HSI System Design Description and HFE Process**

July 2007

(Proprietary Version)

**[Important Notice]**

This topical report contains proprietary information of Mitsubishi Heavy Industries, LTD (MHI) and Mitsubishi Electric Corporation (MELCO). MHI requests that the NRC withhold this information from public disclosure.

The first page of this topical report and those pages containing proprietary information are identified with the label "Proprietary" on the top of the page. The first page of the topical report 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**

**MHI Topical Report: MUAP-07007-NP, Rev.1**

**HSI System Design Description and HFE Process**

**July 2007**

**(Non-proprietary Version)**

This is a non-proprietary version of MHI Topical Report, MUAP-07007-NP, Rev.1, with all proprietary information removed.

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