MITSUBISHI HEAVY INDUSTRIES, LTD.

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TOKYO, JAPAN

January 18, 2011

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-11008

Subject: Transmittal of revised Technical Report "Probability of Missile Generation from Low Pressure Turbines (MUAP-07028, Revision 1)"

- Reference: 1 Letter MHI Ref. UAP-HF-07183 from M. Kaneda ("MHI") to U.S. NRC, "Technical Report on Probability of Missile Generation from Low Pressure Turbine (MUAP-07028) Submitted in Support of US-APWR Design Certification Application," dated on December 31, 2007
 - 2 Letter MHI Ref. UAP-HF-09255, from Y. Ogata ("MHI") to U.S. NRC, " MHI's Responses to US-APWR DCD RAI No.324-1997," dated May 20, 2009

With this letter, Mitsubishi Heavy Industries, Ltd. ("MHI") transmits to the U.S. Nuclear Regulatory Commission ("NRC") the revised technical report "Probability of Missile Generation from Low Pressure Turbines (MUAP-07028)", which was previously submitted in Reference 1. The Report is being submitted electronically in compact disc (CD).

The enclosed versions provide updated information as a follow-up to the Reference 2 RAI responses.

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 "[]]".

Enclosed are a copy of the proprietary version and a copy of the non-proprietary version (Enclosure 2), 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 this submittal. His contact information is provided below.

Sincerely,

Y. Ogerter

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

Enclosures:

- 1. Affidavit of Yoshiki Ogata
- 2. CD1 : "Probability of Missile Generation from Low Pressure Turbines (MUAP-07028, Revision 1)"

The files contained in optical storage medium are listed in Attachment 1 hereto.

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

Contact Information

C. Keith Paulson, Senior Technical Manager Mitsubishi Nuclear Energy Systems, Inc. 300 Oxford Drive, Suite 301 Monroeville, PA 15146 E-mail: ck_paulson@mnes-us.com Telephone: (412) 373 – 6466

ENCLOSURE 1

Docket No.52-021 MHI Ref: UAP-HF-11009

MITSUBISHI HEAVY INDUSTRIES, LTD. AFFIDAVIT

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

- 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 enclosed "Probability of Missile Generation from Low Pressure Turbines (MUAP-07028, Revision 1)", 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 the proprietary information has been bracketed with an open and closed bracket as shown here "[]". The first page of the technical 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 in the report identified as proprietary by MHI 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 methodology developed by MHI for assessing the test interval for turbine valve. That methodology was developed at significant cost to MHI, since they required the performance of detailed calculations, analyses, and testing extending over several years. The referenced information is not available in public sources and could not be gathered readily from other publicly available information. MHI knows of no way the information could be lawfully acquired by organizations or individuals outside of MHI and the Japanese Government.
- 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 MHI's Application for certification of its US-APWR Standard Plant Design.
- 6. Public disclosure of the referenced information would assist competitors of MHI 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 in the U.S. nuclear plant market.

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 18th day of January, 2011.

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

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ATTACHMENT 1

FILES CONTAINED IN CD 1

CD 1: "Probability of Missile Generation from Low Pressure Turbines (MUAP-07028, Revision 1)"

Contents of CD

File Name	<u>Size</u>	Sensitivity Level
MUAP_07028-P_(R1)_Missile_Generation.pdf	16.9 MB	Proprietary
MUAP_07028-NP_(R1)_ Missile_Generation.pdf	0.6MB	Non-Proprietary