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August 22, 2012

Mr. Yoshiki Ogata, General Manager  
APWR Promoting Department  
Mitsubishi Heavy Industries, Ltd.  
16-5, Konan 2-Chome, Minato-Ku  
Tokyo, 108-8215 JAPAN

SUBJECT: UNITED STATES - ADVANCED PRESSURIZED WATER REACTOR DESIGN  
CERTIFICATION APPLICATION - SAFETY EVALUATION WITH OPEN ITEMS  
FOR CHAPTER 4, "REACTOR"

Dear Mr. Ogata:

The U.S. Nuclear Regulatory Commission (NRC) staff is preparing a safety evaluation (SE) with open items (OIs) for each chapter of the United States - Advanced Pressurized Water Reactor standard Design Certification submitted by Mitsubishi Heavy Industries, Ltd. (MHI) on December 31, 2007, as supplemented by letters dated March 27, 2008, and April 16, 2008.

The NRC staff's SE with OIs for Chapter 4, "Reactor," is being provided to the Advisory Committee on Reactor Safeguards (ACRS) subcommittee to support upcoming meetings of the ACRS subcommittee, scheduled to be held on September 20 - 21, 2012.

The enclosed SE with OIs is being provided only to MHI for review of proprietary information pursuant to Title 10 of the *Code of Federal Regulations* Part 2.390 "Public Inspections, Exemptions, Requests for Withholding." The NRC staff concludes that the enclosed SE does not contain any information for which exemption from public disclosure has been sought or approved, or any factual errors. However, the NRC will withhold the enclosed SE from public disclosure for ten business days from the date of this letter to allow you the opportunity to verify the NRC staff's conclusion that the SE contains no such exempt information or any factual errors. If within that ten day period, you do not request that all or portions of the SE be withheld from public disclosure, the enclosed SE will be made available for public inspection through the NRC Public Document Room and the Publicly Available Records component of NRC's Agencywide Documents Access and Management System and placed on the NRC's public web page for this application.

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Y. Ogata

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If you have any questions or comments regarding this matter, I can be reached at (301) 415-6391 or via e-mail address at [Jeff.Ciocco@nrc.gov](mailto:Jeff.Ciocco@nrc.gov).

Sincerely,

***/RA/***

Jeffrey Ciocco, Senior Project Manager  
Licensing Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

Docket No.: 52-021

Enclosure:  
Chapter 4 Safety Evaluation

cc w/o encl: See next page

Y. Ogata

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If you have any questions or comments regarding this matter, I can be reached at (301) 415-6391 or via e-mail address at [Jeff.Ciocco@nrc.gov](mailto:Jeff.Ciocco@nrc.gov).

Sincerely,

**/RA/**

Jeffrey Ciocco, Senior Project Manager  
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Division of New Reactor Licensing  
Office of New Reactors

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Chapter 4 Safety Evaluation

cc w/o encl: See next page

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