

February 29, 2008

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

SUBJECT: MITSUBISHI HEAVY INDUSTRIES, LTD. - ACCEPTANCE OF THE  
APPLICATION FOR STANDARD DESIGN CERTIFICATION OF THE US-APWR

Dear Mr. Kaneda:

By letter to the Nuclear Regulatory Commission (NRC) dated December 31, 2007, Mitsubishi Heavy Industries, Ltd. (MHI) submitted an application for a standard design certification of the U.S. – Advanced Pressurized Water Reactor (US-APWR), pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) Part 52, “Licenses, Certifications, and Approvals for Nuclear Power Plants .” The purpose of this letter is to inform you of the results of the NRC staff’s acceptance review of the design certification application.

In accordance with 10 CFR 2.101, 10 CFR 52.46, and 10 CFR 52.47, and as detailed in NRO Office Instruction REG-100, “Acceptance Review Process for Design Certification and Combined License Applications,” the NRC staff performed an acceptance review to determine if the design certification application for the US-APWR is sufficiently complete to allow the staff to begin its detailed technical review and complete it within a predictable timeframe.

The NRC staff finds that your design certification application is sufficiently complete to accept for docketing. Pursuant to 10 CFR 2.815, the docket number established for this application is 52-021. The NRC staff intends to publish a schedule for the detailed technical review of your design certification application within 30 days. During the acceptance review process, the NRC staff has identified several issues that will introduce uncertainty into the review schedule, such as the Subcompartment Containment Analyses and the Sump Strainer Design. The NRC staff expects to interact with you as this schedule is developed.

M. Kaneda

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The enclosed notice of acceptance for docketing has been forwarded to the Office of the *Federal Register*.

Sincerely,

*/RA/*

Jeffrey A. Ciocco, Sr. Project Manager  
US-APWR Projects Branch  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-021

Enclosure:  
*Federal Register* Notice

cc w/encl: US-APWR Service List

M. Kaneda

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The enclosed notice of acceptance for docketing has been forwarded to the Office of the *Federal Register*.

Sincerely,

*/RA/*

Jeffrey A. Ciocco, Sr. Project Manager  
US-APWR Projects Branch  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-021

Enclosure:  
*Federal Register* Notice

cc w/encl: US-APWR Service List

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**Official Record Copy**

UNITED STATES NUCLEAR REGULATORY COMMISSION  
  MITSUBISHI HEAVY INDUSTRIES, LTD.  
ACCEPTANCE FOR DOCKETING OF AN APPLICATION FOR  
STANDARD DESIGN CERTIFICATION OF THE US-APWR  
DOCKET NO. 52-021

On December 31, 2007, the U.S. Nuclear Regulatory Commission (NRC, the Commission) received a design certification application from Mitsubishi Heavy Industries (MHI), Ltd, dated December 31, 2007, filed pursuant to Section 103 of the Atomic Energy Act and Subpart B, "Standard Design Certification," of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 52, *al Regulations* (10 CFR) Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants." A notice of receipt and availability of this application was previously published in the *Federal Register* (73 FR 3495) on January 18, 2008.

The NRC staff has determined that MHI has submitted information in accordance with 10 CFR Part 2, "Rules of Practice for Domestic Licensing Proceedings and Issuance of Orders," and 10 CFR Part 52 that is acceptable for docketing. The docket number established for this application is 52-021.

The NRC staff will perform a detailed technical review of the design certification application. Docketing of the design certification application does not preclude the NRC from requesting additional information from the applicant as the review proceeds, nor does it predict whether the Commission will grant or deny the application. A notice relating to the rulemaking pursuant to 10 CFR 52.51 for design certification, including provisions for participation of the public and other parties, will be published in the future.

The US-APWR design is an approximately 1700 megawatts electric, four loop, advanced pressurized water reactor (APWR). MHI developed the US-APWR based on technologies for a 1,538 megawatts electric APWR planned for use in Japan. The US-APWR is based on the latest technologies to improve plant efficiency, reduce plant building volume, and provide a 24-month fuel cycle. The US-APWR application includes the entire power generation complex, except those elements and features considered site-specific.

Documents may be examined, and/or copied for a fee, at the NRC's Public Document Room (PDR), located at One White Flint North, Public File Area O1 F21, 11555 Rockville Pike (first floor), Rockville, Maryland 20852, and will be accessible electronically through the Agencywide Documents Access and Management System (ADAMS) Public Electronic Reading Room link at the NRC Web site <http://www.nrc.gov/reading-rm/adams.html>.

Persons who do not have access to ADAMS or who encounter problems in accessing documents located in ADAMS should contact the NRC PDR Reference staff by telephone at 1-800-4209, 301-415-4737, or by e-mail to [pdr@nrc.gov](mailto:pdr@nrc.gov). The application is also available at <http://www.nrc.gov/reactors/new-licensing/design-cert.html>.

Dated at Rockville, Maryland this 29<sup>th</sup> day of February 2008.

FOR THE NUCLEAR REGULATORY COMMISSION

*/RA/*

Jeffrey A. Ciocco, Sr. Project Manager  
US-APWR Projects Branch  
Division of New Reactor Licensing  
Office of New Reactors

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(Revised 02/07/2008)

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