

December 5, 2007

Mr. Keith Paulson  
Senior Technical Manager  
Mitsubishi Nuclear Energy Systems, Inc.  
4350 Northern Pike, Suite 301  
Monroeville, PA 15146

SUBJECT: ACCEPTANCE REVIEW OF THE USAPWR TOPICAL REPORT  
MUAP-07009-P, "THERMAL DESIGN METHODOLOGY"

Dear Mr. Paulson;

By letter dated May 25, 2007, Mitsubishi Heavy Industries, LTD (MHI) submitted for NRC staff review Topical Report MUAP-07009-P, "Thermal Design Methodology." MHI requested NRC staff approval to use this topical report in support of the US-APWR design certification application as well as the current operating fleet. The NRC staff has performed an acceptance review of Topical Report MUAP-07009-P and has determined that the material presented in this topical report is sufficient to begin our comprehensive review in support of the US-APWR design certification application. However, the NRC staff finds that this report does not provide any reference to the current operating fleet nor does it provide any information that would support the application of this topical report to the operating fleet. As such, the NRC staff has determined that material presented in this topical report is not sufficient to begin our comprehensive review in support of the current operating fleet.

With regards to the NRC staff's support of the US-APWR design certification application, the NRC staff expects to issue a request for additional information by December 30, 2007, and issue the safety evaluation by September 30, 2008. Furthermore, the NRC staff estimates that the review of this topical report will require approximately 500 staff hours, including project management time.

These issues, described in the previous paragraphs, were discussed with you in a telephone call on December 4, 2007. Section 170.21 of the Title 10 of the *Code of Federal Regulations* requires that Topical Reports are subject to fees based on the full cost of the review. You did not request a fee exemption; therefore, NRC staff hours will be billed accordingly.

K. Paulson

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If you have any questions, please contact Mr. Stephen Raul Monarque, (301)-415-1544.

Sincerely,

**/RA/**

Stephanie M. Coffin, Chief  
USAPWR Projects Branch  
Division of New Reactor Licensing  
Office of New Reactors

Project No. 0751

cc: See next page

K. Paulson

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If you have any questions, please contact Mr. Stephen Raul Monarque, (301)-415-1544.

Sincerely,

**/RA/**

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Division of New Reactor Licensing  
Office of New Reactors

Project No. 0751

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