

November 20, 2007

Dr. Keith Paulson
Senior Technical Manager
Mitsubishi Nuclear Energy Systems, Inc.
300 Oxford Drive, Suite 301
Monroeville, PA 15146

SUBJECT: ACCEPTANCE LETTER FOR REVIEW OF TOPICAL REPORT MUAP-07012-P,
"LOCA MASS AND ENERGY RELEASE ANALYSIS CODE APPLICABILITY FOR
US-APWR"

Dear Dr. Paulson:

By a letter dated July 20, 2007, Mitsubishi Heavy Industries, Inc. (MHI) submitted for Nuclear Regulatory Commission (NRC) staff review Topical Report MUAP- 07012-P, "LOCA Mass and Energy Release Analysis Code Applicability." MHI requested NRC staff approval to use this Topical Report in support of the US-APWR design certification application. The NRC staff has performed a review of the Topical Report. In a subsequent conference call to clarify the scope of review on October 11, 2007, the following understandings were reached defining the scope of review:

1. The details of the advanced accumulator model will not be reviewed as part of the mass and energy topical report. This model will be reviewed as a part of the Design Certification (DC) review.
2. A brief description of the GOTHIC containment model is presented in the topical report. The staff understands that the details of the GOTHIC containment model will be presented in the Design Control Document (DCD). The staff will therefore defer concluding on the acceptance of this model to the DCD review.
3. The staff understands that Mitsubishi is currently evaluating inputs to the advanced accumulator model in order to provide for conservative containment analyses and that these inputs will be described in the DCD. Review of these inputs will therefore be left as a confirmatory item for the mass and energy topical report.

K. Paulson

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With these understandings the staff finds the Topical Report, MUAP-07012-P, "LOCA Mass and Energy Release Analysis Code Applicability for US-APWR," acceptable for docketing and will therefore begin our comprehensive review. The NRC staff expects to issue a request for additional information by December 25, 2007, and issue the safety evaluation by May 15, 2008. Furthermore, the NRC staff estimates that the review of this topical report will require approximately 300 staff hours, including project management and contractor time, if needed. The review schedule and estimated review costs were discussed and agreed upon in a telephone call between you and the NRC staff on October 31, 2007.

Section 170.21 of the Title 10 of the Code of Federal Regulations requires topical reposts to be subject to fees based on the full cost of the review. You did not request a fee exemption, and therefore, NRC staff hours will be billed accordingly.

Sincerely,

/RA/

Jin W. Chung, Senior Project Manager
USAPWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Project No.: 0751

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K. Paulson

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