MITSUBISHI HEAVY INDUSTRIES, LTD.

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TOKYO, JAPAN

December 31, 2007

Document Control Desk U.S. Nuclear Regulatory Commission Washington, DC 20555-0001

Attention: Mr. R. William Borchardt Director, Office of New Reactors

> Project No.0751 MHI Ref: UAF-HF-07177

> > MRO

Subject: Technical Report on Validation of Criticality Safety Methodology (MUAP-07020) Submitted in Support of US-APWR Design Certification Application

Pursuant to 10 C.F.R. § 52.47(a), Mitsubishi Heavy Industries, Ltd. ("MHI") is pleased to submit its technical report entitled "Validation of Criticality Safety Methodology". This Report supplements the materials provided in the "Design Control Document for the US-APWR" ("DCD"), submitted concurrently herewith as part of MHI's US-APWR Design Certification Application, and is incorporated by reference in the DCD. The Report is being submitted electronically in the enclosed compact disc (CD).

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,

M. Kaneda Masahiko Kaneda,

General Manager- APWR Promoting Department Mitsubishi Heavy Industries, Ltd. Enclosures:

1. One compact disc (CD)) -- The file contained in the CD is listed in Attachment 1

CC: S. M. Coffin S. R. Monarque

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ATTACHMENT 1

FILES CONTAINED IN CD

CD: "Validation of Criticality Safety Methodology"

Contents of CD

<u>File Name</u> 001_MHI Criticality(Nonproprietary).pdf

<u>Size</u> 2.7MB

Sensitivity Level Non-Proprietary