

  
**MITSUBISHI HEAVY INDUSTRIES, LTD.**  
16-5, KONAN 2-CHOME, MINATO-KU  
TOKYO, JAPAN

January 26, 2007

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

Attention: Mr. David B. Matthews

Project No.0751  
MHI Ref: UAP-HF-07002

**Subject:** Quality Assurance Program (QAP) Description for Design Certification of the Mitsubishi Heavy Industries, LTD. US-APWR.

This letter forwards the Mitsubishi Heavy Industries, LTD (MHI) QAP Topical Report for Design Certification of the US-APWR to the U.S. Nuclear Regulatory Commission (NRC) for your review and approval.

As discussed in the pre-application meeting between the MHI and NRC staff on November 28, 2006, this MHI QAP Topical Report is structured similar to the Nuclear Energy Institute QAP Description document with a focus on the Design Certification stage.

This QAP Topical Report is the top-level MHI policy document which presents MHI's overall philosophy regarding achievement and assurance of quality and assigns major functional responsibilities and authorities. The QAP includes administrative controls that meet 10CFR50, Appendix B, and is based on the requirements of the American Society of Mechanical Engineers (ASME) standard NQA-1-1994, "Quality Assurance Requirements for Nuclear Facility Applications".

Certain earlier test activities completed under research and development relied on alternative controls of Japanese Guidelines but not addressed in U.S. requirements. As described in the enclosed Topical Report, these test activities are evaluated in accordance with a procedure to provide reasonable assurance that the completed work satisfies 10CFR50, Appendix B.

The comparison of the Japanese Guidelines to 10CFR50, Appendix B, ASME NQA-1-1994, and the NRC's Standard Review Plan, Section 17.5, is being forwarded to the NRC for information via separate correspondence along with a procedure for evaluation of completed tests.

Sincerely,

*M. Kaneda*

Masahiko Kaneda,  
General Manager- APWR Promoting Department  
Mitsubishi Heavy Industries, LTD.

*D079*  
*Add: Stephen Monargue*

**Enclosures:**

**Quality Assurance Program (QAP) Description For Design Certification of US-APWR  
PQD-HD-19005 Rev.0**

**CC: S. R. Monarque  
L. J. Burkhart  
C. K. Paulson**

**Contact Information**

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Attention: Mr. David B. Matthews

Project No.0751  
MHI Ref: UAP-HF-07003

**Subject:** Comparison of Japanese and U.S. Quality Assurance Program (QAP) Requirements

This letter forwards, for U.S. Nuclear Regulatory Commission (NRC) information,

- 1) The results of a comparison of Japanese and U.S. QAP requirements, and
- 2), a procedure used for re-evaluation of certain test activities.

The Mitsubishi US-APWR design is based on the design of the Japanese-APWR. The Japanese-APWR design was completed in accordance with a prior version of MHI's QA Program, which was based on Japanese QA Guidelines. The requirements of the Japanese QA Guidelines have been compared with requirements of 10CFR50, Appendix B, ASME NQA-1-1994, and the NRC's Standard Review Plan, Section 17.5 and were found to be very similar.

During a pre-application meeting on November 28, 2006, the NRC staff requested that a comparison of the U.S. and Japanese QAP requirements be made and a summary of the differences provided for information. Enclosure (1) to this letter provides the comparison.

In addition, we have provided for your information, a copy of a procedure for evaluating certain completed tests, which relied on alternative controls allowed in Japanese Guideline but not addressed in U.S. requirements. This procedure is provided in Enclosure (2).

Sincerely,

Masahiko Kaneda,  
General Manager- APWR Promoting Department  
Mitsubishi Heavy Industries, Ltd.

**Enclosures:**

- (1) Assessment Document;  
Comparison of 10CFR50 Appendix B, ASME NQA-1-1994, and NUREG-0800 Chapter 17.5 Requirement versus JEAG4101-1993, 2000 (PQD-HD-19004 Rev.0)
- (2) Re-evaluation Procedure of Past Acquired Design Results. (PQF-HD-18041-026 Rev.1)

CC: S. R. Monarque  
L. J. Burkhart  
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