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**MITSUBISHI HEAVY INDUSTRIES, LTD.**

16-5, KONAN 2-CHOME, MINATO-KU

TOKYO, JAPAN

January 22, 2010

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

Attention: Mr. Jeffrey A. Ciocco

Docket No. 52-021  
MHI Ref: UAP-HF-10006

**Subject: Submittal of Safeguards Report, US-APWR High Assurance Evaluation  
Assessment, Revision 1**

- References:**
- 1) Letter MHI Ref. UAP-HF-09220 from Y. Ogata (MHI) to U.S. NRC, "Partial Safeguards Information Responses to US-APWR DCD RAI No. 282-1984, Revision 1, and Partial Safeguards Information Responses to US-APWR DCD RAI No. 283-2200 – SRI SUPPLEMENTAL," dated on April 30, 2009
  - 2) Letter MHI Ref. UAP-HF-09221 from Y. Ogata (MHI) to U.S. NRC, "Partial Responses to US-APWR DCD RAI No. 282-1984, Revision 1," dated on April 30, 2009
  - 3) Letter MHI Ref. UAP-HF-09247 from Y. Ogata (MHI) to U.S. NRC, "Partial Safeguards Information Responses to US-APWR DCD RAI No. 282-1984, Revision 1, and Partial Safeguards Information Responses to US-APWR DCD RAI No. 283-2200 – SRI SUPPLEMENTAL," dated on May 15, 2009
  - 4) Letter MHI Ref. UAP-HF-09250 from Y. Ogata (MHI) to U.S. NRC, "Partial Responses to US-APWR DCD RAI No. 282-1984, Revision 1," dated on May 15, 2009
  - 5) Letter MHI Ref. UAP-HF-09279 from Y. Ogata (MHI) to U.S. NRC, "Partial Responses to US-APWR DCD RAI No. 282-1984, Revision 1," dated on May 15, 2009
  - 6) Letter MHI Ref. UAP-HF-09280 from Y. Ogata (MHI) to U.S. NRC, "Partial Safeguards Information Responses to US-APWR DCD RAI No. 282-1984, Revision 1," dated on June 3, 2009

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- 7) Letter MHI Ref. UAP-HF-09314 from Y. Ogata (MHI) to U.S. NRC, "Partial Responses to US-APWR DCD RAI No. 282-1984, Revision 1 and to US-APWR DCD RAI No. 283-2200 – SRI SUPPLEMENTAL," dated on June 19, 2009
- 8) Letter MHI Ref. UAP-HF-09315 from Y. Ogata (MHI) to U.S. NRC, "Partial Safeguards Information Responses to US-APWR DCD RAI No. 282-1984, Revision 1, and Partial Safeguards Information Responses to US-APWR DCD RAI No. 283-2200 – SRI SUPPLEMENTAL," dated on June 19, 2009

With this letter, Mitsubishi Heavy Industries, Ltd. ("MHI") transmits to the U.S. Nuclear Regulatory Commission ("NRC") the revised US-APWR High Assurance Evaluation Assessment report, which is referenced in Chapter 13.6 of Revision 2 of the US-APWR Design Control Document ("DCD"). This revision generally incorporates the Responses to RAIs in References 1 through 8. This report contains Safeguards Information ("SGI"), and the report is marked accordingly.

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 below.

Sincerely,



Yoshiaki Ogata,  
General Manager- APWR Promoting Department  
Mitsubishi Heavy Industries, LTD.

Enclosure: US-APWR High Assurance Evaluation Assessment, Revision 1, January 2010.

CC: J. A. Ciocco  
C. K. Paulson (without enclosure)

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