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

December 16, 2013

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

Attention: Mr. Perry Buckberg

Docket No. 52-021
MHI Ref: UAP-HF-13294

Subject: **Transmittal of Technical Report "US-APWR Equipment Qualification Program" (MUAP-08015, Revision 2)**

References:
1) "MHI's Supplemental Responses to US-APWR DCD RAI No. 511-3739," UAP-HF-10179, dated June 25, 2010, ML101790460.
2) "MHI's Responses to US-APWR DCD RAI 589-4536 Rev.0," UAP-HF-10200, dated July 9, 2010, ML101960295.
3) "MHI's Response to US-APWR DCD RAI No. 650-5093 Revision 0 (SRP 03.11)," UAP-HF-11035, dated February 17, 2011, ML110530414.
4) "MHI's Response to US-APWR DCD RAI No. 880-6142 Revision 0 (SRP 03.11)," UAP-HF-12075, dated March 23, 2012, ML12087A156.
5) "MHI's Response to US-APWR DCD RAI No. 901-6257 Revision 3 (SRP 03.11)," UAP-HF-12089, dated April 10, 2012, ML12102A350.
6) "MHI's Amended Response to US-APWR DCD RAI No. 512-3893 Revision 1 (SRP 03.11)," UAP-HF-12229, dated September 5, 2012, ML12251A212.
7) "MHI's Responses to US-APWR DCD RAI No. 805-5915 Revision 0 and RAI No. 880-6142 Revision 0 (SRP 03.11)," UAP-HF-12254, dated September 10, 2012, ML12255A328.
8) "Supplemental Information to MHI's Response to US-APWR DCD RAI No. 805-5915 Revision 0 (SRP 03.11)," UAP-HF-12287, dated November 1, 2012, ML12310A188.
9) "MHI's Amended Response to US-APWR DCD RAI No. 805-5915 Revision 0 (SRP 03.11)," UAP-HF-13019, dated February 14, 2013, ML13051A051.
10) "MHI's Amended Response to US-APWR DCD RAI No. 880-6142 Revision 0 (SRP 03.11)," UAP-HF-13028, dated February 15, 2013, ML13050A600.
11) "MHI's Revised Response to US-APWR DCD RAI No. 589-4536 Revision 2 (SRP 03.11)," UAP-HF-13082, dated April 12, 2013, ML131200629.
12) "MHI's Response to US-APWR DCD RAI No. 1034-7055 (SRP 03.11)," UAP-HF-13130, dated June 13, 2013, ML13175A012.
13) "MHI's Response to US-APWR DCD RAI No. 1019-7043 (SRP 03.10)," UAP-HF-13145, dated June 18, 2013, ML13172A058.
14) "MHI's Supplemental Response to US-APWR DCD RAI No. 650-5093 (SRP 03.11)," UAP-HF-13283, dated December 6, 2013.
15) "MHI's Supplemental Response to US-APWR DCD RAI No. 880-6142 Revision 0 (SRP 03.11)," UAP-HF-13285, dated December 6, 2013.
16) "MHI's Supplemental Response to US-APWR DCD RAI No. 1034-7055 (SRP 03.11)," dated December 6, 2013.

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With this letter, Mitsubishi Heavy Industries, Ltd. ("MHI") transmits to the U.S. Nuclear Regulatory Commission ("NRC") copies of the technical report entitled "US-APWR Equipment Qualification Program" (MUAP-08015, Revision 2). This report supplements the materials provided in the "Design Control Document for the US-APWR" ("DCD"), and is incorporated by reference in the DCD. This report is being submitted electrically on a compact disc ("CD").

This report is revised to incorporate changes committed to in various RAI responses (References 1 to 16).

Attachment 1 is a list of the file contained in Enclosure 1. Attachment 2 is a matrix which identifies sections of MUAP-08015, where applicable, which contain information requested by the staff in various Requests for Additional Information (RAIs), and is being provided for the staff's convenience.

Please contact Mr. Joseph Tapia, General Manager of Licensing Department, Mitsubishi Nuclear Energy Systems, Inc. if the NRC has questions concerning any aspect of this submittal. His contact information is provided below.

Sincerely,

Y. Ogata

Yoshiki Ogata,
Executive Vice President
Mitsubishi Nuclear Energy Systems, Inc.
On behalf of Mitsubishi Heavy Industries, Ltd.

Enclosures:

1. CD 1:
   MUAP-08015 Revision 2, "US-APWR Equipment Qualification Program"

The file contained in CD is listed in Attachment 1.

CC: P. Buckberg
J. Tapia

Contact Information
Joseph Tapia, General Manager of Licensing Department
Mitsubishi Nuclear Energy Systems, Inc.
11405 North Community House Road, Suite 300
Charlotte, NC 28277
E-mail: joseph_tapia@mnes-us.com
Telephone: (704) 945-2740

ATTACHMENT 1

FILE CONTAINED IN CD 1

CD 1:
MUAP-08015 Revision 2, "US-APWR Equipment Qualification Program"

Contents of CD

File Name	Size	Sensitivity Level
MUAP-08015(R2).pdf	2.23MB	Non-Proprietary

ATTACHMENT 2

REPORT SECTIONS CONTAINING INFORMATION REQUESTED BY NRC REQUESTS FOR ADDITIONAL INFORMATION (RAIs)

DCD Sect	RAI	eRAI	Question #	Question # (sub-number)	Section, paragraph, figure, and/or table where question is answered
3.10	1019	7043	03.10-20	---	Attachment B.7.
3.11	511	3739	03.11-17	---	Section 6.2.2.
3.11	511	3739	03.11-18	---	Section 6.2.1.
3.11	511	3739	03.11-19	---	Section 3.1.1.
3.11	511	3739	03.11-20	---	Section 4.2.1.
3.11	512	3893	03.11-34	---	Tables 5-4 and 5-5.
3.11	589	4536	03.11-36	---	Section 5.5.1.1, Table 5-5 and Attachment E.
3.11	650	5093	03.11-39	---	Sections 3.1.1, 7.7 and Figure 7-1.
3.11	805	5915	03.11-41	---	Entirety of MUAP-08015.
3.11	880	6142	03.11-42	---	Section 9.9 and Attachment D.
3.11	880	6142	03.11-44	---	Table 4-2.
3.11	880	6142	03.11-45	---	Section 4.2, 4.2.10.1, 4.2.14 and 10.3.1.
3.11	880	6142	03.11-46	---	List of Acronyms, Sections 2.0, 2.1, 9.14, 11.0 and Figure 2-1.
3.11	880	6142	03.11-47	---	Attachment C.
3.11	901	6257	03.11-48	---	Sections 3.3, 3.4 and 10.3.2.
3.11	901	6257	03.11-49	---	Sections 4.1.1 and 11.0.
3.11	901	6257	03.11-50	---	Sections 6.2.2.
3.11	901	6257	03.11-51	---	Sections 6.6
3.11	901	6257	03.11-53	---	Sections 10.3.2.
3.11	901	6257	03.11-54	---	Sections 4.1.1 and 11.0.
3.11	901	6257	03.11-57	---	Attachment B.4.
3.11	901	6257	03.11-59	---	Attachment C.
3.11	1034	7055	03.11-63	---	Definitions, Sections 2.0, 3.1.1, 4.0, 4.1.1, 4.2, 4.2.8, 4.2.9.2 and 7.3.
3.11	1034	7055	03.11-64	---	Abstract, Definitions, Sections 1.0, 4.2.13, 4.3, 4.4, 7.1, 10.5 and 12.0.
3.11	1034	7055	03.11-65	---	Section 1.0.
3.11	1034	7055	03.11-68	---	Entirety of MUAP-08015.