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TOKYO, JAPAN

January 31, 2013

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC20555-0001

Attention: Mr. Jeffrey A. Ciocco

Docket No. 52-021
MHI Ref: UAP-HF-13017

Subject: Revised RAI Responses to Historical RAI and Outstanding RAIs for US-APWR DCD Sections 3.7 and 3.8

Reference:
1) Letter MHI Ref. UAP-HF-12280 from Y. Ogata ("MHI") to U.S. NRC, "Updated Closure Plan for US-APWR Seismic and Structural Analyses-Schedule Improvement", dated October 12, 2012

2) Letter MHI Ref. UAP-HF-12310 from Y. Ogata ("MHI") to U.S. NRC, "Transmittal of Technical Report "Soil-Structure Interaction Analyses and Results for the US-APWR Standard Plant" (MUAP-10006, Revision 3)", dated November 30, 2012

3) Letter MHI Ref. UAP-HF-12311 from Y. Ogata ("MHI") to U.S. NRC, "Transmittal of Technical Report "Ground Water Effects on SSI" (MUAP-11007, Revision 2)", dated November 30, 2012

With this letter, Mitsubishi Heavy Industries, Ltd. (MHI) transmits to the U.S. Nuclear Regulatory Commission (NRC) document entitled "Revised RAI Responses to Historical RAI and Outstanding RAIs for US-APWR DCD Sections 3.7 and 3.8", scheduled for submittal in reference 1. Two version of these RAI responses are being submitted, a proprietary (non-public)version and a non-proprietary (public) version.

Each version of enclosed documents is included on a separate compact disc. As indicated in the enclosed materials, this document contains information that MHI considers proprietary, and therefore should be withheld from public disclosure pursuant to the 10 CFR§ 2.390 (a)(4) as trade secrets and commercial or financial information which is privileged or confidential. The non-proprietary version of the document is also being submitted with the information identified as proprietary redacted and replaced by the designation " [ ] ".

Reference 1 has lists of Historical RAIs and Outstanding RAIs as Table 4-1 to 4-3. In Table 4-1, Historical RAIs are listed and each RAI is assigned to one of three categories; A, B, and C, which respectively correspond to unaffected responses, editorially affected responses, and materially affected responses. Submitted RAI responses in this letter include category C responses indicated in Table 4-1 of Reference 1, these are revised consisting with submitted Technical Reports MUAP-10006 Revision 3 (Reference 2) and MUAP-11007 Revision 2 (Reference 3). Therefore, listed RAI questions in Table 4-2 and 4-3 of Reference 1 are submitted, these are holding on RAI responses and outstanding RAI responses.

This letter includes a copy of the proprietary (non-public) version of RAI responses (Enclosure 2), a copy of the non-proprietary (public) version of those (Enclosure 3) and the Affidavit of Yoshiki Ogata (Enclosure 1) which identifies the reasons MHI respectfully requests that all materials designated as "Proprietary" in Enclosure 2 be withheld from public disclosure pursuant to 10 CFR § 2.390 (a)(4).

Attachment 1 is a listing of the files contained in Enclosure 2 and Enclosure 3. Attachment 2 is a listing of the submitted RAI responses.

Please note that the letter of "Updated Seismic Closure Plan" (Reference 1) is going to be updated at some point in near future.

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 letter, his contact information is provided below.

Sincerely,

Y. Ogata

Yoshiki Ogata,
Director, APWR Promoting Department
Mitsubishi Heavy Industries, LTD.

Enclosures:

1. Affidavit of Yoshiki Ogata
2. Revised RAI Responses to Historical RAI and Outstanding RAIs for US-APWR DCD Sections 3.7 and 3.8 (Proprietary)
3. Revised RAI Responses to Historical RAI and Outstanding RAIs for US-APWR DCD Sections 3.7 and 3.8 (Non-Proprietary)

CC: J. A. Ciocco
J. Tapia

Contact Information
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Mitsubishi Nuclear Energy Systems, Inc.
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Arlington, VA22209
E-mail: joseph_tapia@mnes-us.com
Telephone: (703) 908-8055

ATTACHMENT – 1

FILES CONTAINED IN CDs

CD 1: RAI responses, Version Containing Proprietary Information

Contents of CD1
This CD includes RAI responses containing proprietary information.

File Name	Size	Sensitivity Level
1. Include proprietary information		
RAI 496-3735 Q03.08.05-27(Proprietary).pdf	0.99 MB	Proprietary
RAI 852-6003 Q03.07.02-125(Proprietary).pdf	68.4 KB	Proprietary
RAI 852-6003 Q03.07.02-133(Proprietary).pdf	428 KB	Proprietary

2. Others (No relating proprietary information).pdf

File Name	Size	Sensitivity Level
RAI 211-1946 Q03.07.01-01 (05).pdf	57.4 KB	None
RAI 212-1950 Q03.07.02-01 (01).pdf	68.4 KB	None
RAI 212-1950 Q03.07.02-01 (02).pdf	59.4 KB	None
RAI 212-1950 Q03.07.02-01 (05).pdf	57.7 KB	None
RAI 212-1950 Q03.07.02-01 (06).pdf	61.0 KB	None
RAI 212-1950 Q03.07.02-01 (07).pdf	52.9 KB	None
RAI 212-1950 Q03.07.02-01 (09).pdf	55.4 KB	None
RAI 212-1950 Q03.07.02-01 (15).pdf	53.0 KB	None
RAI 212-1950 Q03.07.02-01 (16).pdf	60.3 KB	None
RAI 212-1950 Q03.07.02-01 (17).pdf	53.1 KB	None
RAI 212-1950 Q03.07.02-01 (20).pdf	53.3 KB	None
RAI 212-1950 Q03.07.02-01 (21).pdf	55.2 KB	None
RAI 212-1950 Q03.07.02-01 (27).pdf	54.9 KB	None
RAI 213-1951 Q03.07.03-01 (05).pdf	57.9 KB	None
RAI 223-1996 Q03.08.01-01 (08).pdf	54.1 KB	None
RAI 342-2000 Q03.08.04-01.pdf	56.3 KB	None
RAI 490-3732 Q03.08.01-08.pdf	56.9 KB	None
RAI 495-3980 Q03.07.02-02.pdf	55.9 KB	None
RAI 495-3980 Q03.07.02-04.pdf	62.7 KB	None
RAI 542-4262 Q03.07.02-08 (35).pdf	59.7 KB	None
RAI 625-4924 Q03.07.02-20.pdf	57.6 KB	None
RAI 625-4924 Q03.07.02-23.pdf	55.4 KB	None
RAI 625-4924 Q03.07.02-24.pdf	63.7 KB	None
RAI 643-4967 Q03.07.01-07 (13).pdf	56.3 KB	None
RAI 643-4967 Q03.07.01-09 (15).pdf	57.6 KB	None
RAI 657-5135 Q03.08.05-36.pdf	60.0 KB	None
RAI 657-5135 Q03.08.05-38.pdf	54.6 KB	None
RAI 659-5133 Q03.07.01-11 (17).pdf	71.9 KB	None
RAI 659-5133 Q03.07.01-12 (18).pdf	63.3 KB	None
RAI 660-5134 Q03.07.02-25 (52).pdf	61.6 KB	None

File Name	Size	Sensitivity Level
RAI 660-5134 Q03.07.02-26 (53).pdf	57.5 KB	None
RAI 660-5134 Q03.07.02-27 (54).pdf	60.1 KB	None
RAI 660-5134 Q03.07.02-30 (57).pdf	97.1 KB	None
RAI 660-5134 Q03.07.02-31 (58).pdf	57.4 KB	None
RAI 660-5134 Q03.07.02-32 (59).pdf	91.7 KB	None
RAI 660-5134 Q03.07.02-33 (60).pdf	55.8 KB	None
RAI 660-5134 Q03.07.02-34 (61).pdf	56.2 KB	None
RAI 660-5134 Q03.07.02-36 (63).pdf	54.2 KB	None
RAI 660-5134 Q03.07.02-37 (64).pdf	56.8 KB	None
RAI 660-5134 Q03.07.02-38 (65).pdf	60.8 KB	None
RAI 661-5129 Q03.08.01-13 (26).pdf	57.8 KB	None
RAI 709-5489 Q03.07.01-13 (17).pdf	3.1 MB	None
RAI 776-5851 Q03.07.02-68.pdf	55.1 KB	None
RAI 776-5851 Q03.07.02-69.pdf	60.8 KB	None
RAI 776-5851 Q03.07.02-70.pdf	56.5 KB	None
RAI 776-5851 Q03.07.02-71.pdf	60.9 KB	None
RAI 776-5851 Q03.07.02-72.pdf	55.2 KB	None
RAI 776-5851 Q03.07.02-73.pdf	54.3 KB	None
RAI 776-5851 Q03.07.02-74.pdf	57.4 KB	None
RAI 776-5851 Q03.07.02-75.pdf	56.1 KB	None
RAI 776-5851 Q03.07.02-76.pdf	57.1 KB	None
RAI 776-5851 Q03.07.02-77.pdf	60.0 KB	None
RAI 776-5851 Q03.07.02-78.pdf	57.4 KB	None
RAI 776-5851 Q03.07.02-79.pdf	55.5 KB	None
RAI 776-5851 Q03.07.02-80.pdf	57.4 KB	None
RAI 776-5851 Q03.07.02-81.pdf	63.1 KB	None
RAI 776-5851 Q03.07.02-84.pdf	54.3 KB	None
RAI 791-5864 Q03.07.02-85.pdf	61.9 KB	None
RAI 798-5876 Q03.07.01-14.pdf	57.3 KB	None
RAI 798-5876 Q03.07.01-15.pdf	58.0 KB	None
RAI 798-5876 Q03.07.01-16.pdf	58.6 KB	None
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RAI 810-5874 Q03.07.02-102.pdf	54.6 KB	None
RAI 810-5874 Q03.07.02-103.pdf	57.6 KB	None
RAI 810-5874 Q03.07.02-108.pdf	82.3 KB	None
RAI 810-5874 Q03.07.02-91.pdf	89.2 KB	None
RAI 810-5874 Q03.07.02-92.pdf	54.5 KB	None
RAI 810-5874 Q03.07.02-95.pdf	60.0 KB	None
RAI 821-5984 Q03.07.01-18.pdf	77.1 KB	None
RAI 850-6002 Q03.07.01-19.pdf	3.9 MB	None
RAI 850-6002 Q03.07.01-23.pdf	64.1 KB	None
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RAI 852-6003 Q03.07.02-111.pdf	60.7 KB	None

File Name	Size	Sensitivity Level
RAI 852-6003 Q03.07.02-112.pdf	65.7 KB	None
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RAI 852-6003 Q03.07.02-115.pdf	64.5 KB	None
RAI 852-6003 Q03.07.02-116.pdf	127.2 KB	None
RAI 852-6003 Q03.07.02-117.pdf	70.1 KB	None
RAI 852-6003 Q03.07.02-119.pdf	56.4 KB	None
RAI 852-6003 Q03.07.02-120.pdf	61.2 KB	None
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RAI 852-6003 Q03.07.02-124.pdf	53.4 KB	None
RAI 852-6003 Q03.07.02-126.pdf	56.4 KB	None
RAI 852-6003 Q03.07.02-127.pdf	55.8 KB	None
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RAI 868-6156 Q03.07.02-178.pdf	56.2 KB	None
RAI 868-6156 Q03.07.02-179.pdf	60.6 KB	None

(Finally, proprietary RAI responses will be listed by MHI)

CD 2: RAI responses, Version Not Containing Proprietary Information

Contents of CD2

This CD includes RAI responses withholding Proprietary information and other RAI responses.

File Name	Size	Sensitivity Level
1. Withhold proprietary information		
RAI 496-3735 Q03.08.05-27(Non-Proprietary).pdf	60.0 KB	Non-Proprietary
RAI 852-6003 Q03.07.02-125(Non-Proprietary).pdf	65.6 KB	Non-Proprietary
RAI 852-6003 Q03.07.02-133(Non-Proprietary).pdf	57.9 KB	Non-Proprietary

2. Others (No relating proprietary information)

File Name	Size	Sensitivity Level
RAI 211-1946 Q03.07.01-01 (05).pdf	57.4 KB	None
RAI 212-1950 Q03.07.02-01 (01).pdf	68.4 KB	None
RAI 212-1950 Q03.07.02-01 (02).pdf	59.4 KB	None
RAI 212-1950 Q03.07.02-01 (05).pdf	57.7 KB	None
RAI 212-1950 Q03.07.02-01 (06).pdf	61.0 KB	None
RAI 212-1950 Q03.07.02-01 (07).pdf	52.9 KB	None
RAI 212-1950 Q03.07.02-01 (09).pdf	55.4 KB	None
RAI 212-1950 Q03.07.02-01 (15).pdf	53.0 KB	None
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RAI 212-1950 Q03.07.02-01 (17).pdf	53.1 KB	None
RAI 212-1950 Q03.07.02-01 (20).pdf	53.3 KB	None
RAI 212-1950 Q03.07.02-01 (21).pdf	55.2 KB	None
RAI 212-1950 Q03.07.02-01 (27).pdf	54.9 KB	None
RAI 213-1951 Q03.07.03-01 (05).pdf	57.9 KB	None
RAI 223-1996 Q03.08.01-01 (08).pdf	54.1 KB	None
RAI 342-2000 Q03.08.04-01.pdf	56.3 KB	None
RAI 490-3732 Q03.08.01-08.pdf	56.9 KB	None
RAI 495-3980 Q03.07.02-02.pdf	55.9 KB	None
RAI 495-3980 Q03.07.02-04.pdf	62.7 KB	None
RAI 542-4262 Q03.07.02-08 (35).pdf	59.7 KB	None
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RAI 660-5134 Q03.07.02-27 (54).pdf	60.1 KB	None
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RAI 660-5134 Q03.07.02-36 (63).pdf	54.2 KB	None

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RAI 660-5134 Q03.07.02-38 (65).pdf	60.8 KB	None
RAI 661-5129 Q03.08.01-13 (26).pdf	57.8 KB	None
RAI 709-5489 Q03.07.01-13 (17).pdf	3.1 MB	None
RAI 776-5851 Q03.07.02-68.pdf	55.1 KB	None
RAI 776-5851 Q03.07.02-69.pdf	60.8 KB	None
RAI 776-5851 Q03.07.02-70.pdf	56.5 KB	None
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RAI 810-5874 Q03.07.02-103.pdf	57.6 KB	None
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RAI 810-5874 Q03.07.02-91.pdf	89.2 KB	None
RAI 810-5874 Q03.07.02-92.pdf	54.5 KB	None
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RAI 852-6003 Q03.07.02-110.pdf	68.4 KB	None
RAI 852-6003 Q03.07.02-111.pdf	60.7 KB	None
RAI 852-6003 Q03.07.02-112.pdf	65.7 KB	None
RAI 852-6003 Q03.07.02-113.pdf	63.8 KB	None
RAI 852-6003 Q03.07.02-114.pdf	59.6 KB	None
RAI 852-6003 Q03.07.02-115.pdf	64.5 KB	None
RAI 852-6003 Q03.07.02-116.pdf	127.2 KB	None
RAI 852-6003 Q03.07.02-117.pdf	70.1 KB	None
RAI 852-6003 Q03.07.02-119.pdf	56.4 KB	None
RAI 852-6003 Q03.07.02-120.pdf	61.2 KB	None

File Name	Size	Sensitivity Level
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RAI 852-6003 Q03.07.02-124.pdf	53.4 KB	None
RAI 852-6003 Q03.07.02-126.pdf	56.4 KB	None
RAI 852-6003 Q03.07.02-127.pdf	55.8 KB	None
RAI 852-6003 Q03.07.02-129.pdf	56.5 KB	None
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RAI 852-6003 Q03.07.02-132.pdf	55.3 KB	None
RAI 852-6003 Q03.07.02-134.pdf	60.1 KB	None
RAI 852-6003 Q03.07.02-135.pdf	60.7 KB	None
RAI 852-6003 Q03.07.02-138.pdf	92.4 KB	None
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RAI 854-6088 Q03.07.02-153.pdf	54.8 KB	None
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RAI 854-6088 Q03.07.02-157.pdf	52.7 KB	None
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RAI 854-6088 Q03.07.02-159.pdf	56.3 KB	None
RAI 854-6088 Q03.07.02-160.pdf	53.4 KB	None
RAI 854-6088 Q03.07.02-161.pdf	54.2 KB	None
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RAI 856-6094 Q03.07.02-168.pdf	55.3 KB	None
RAI 856-6094 Q03.07.02-169.pdf	55.4 KB	None
RAI 856-6094 Q03.07.02-170.pdf	53.7 KB	None
RAI 856-6094 Q03.07.02-171.pdf	53.6 KB	None
RAI 856-6094 Q03.07.02-172.pdf	83.2 KB	None
RAI 856-6094 Q03.07.02-173.pdf	57.7 KB	None
RAI 856-6094 Q03.07.02-174.pdf	56.3 KB	None
RAI 856-6094 Q03.07.02-175.pdf	55.7 KB	None
RAI 856-6094 Q03.07.02-176.pdf	55.6 KB	None
RAI 856-6094 Q03.07.02-177.pdf	60.5 KB	None
RAI 868-6156 Q03.07.02-178.pdf	56.2 KB	None
RAI 868-6156 Q03.07.02-179.pdf	60.6 KB	None

(Finally, non-proprietary RAI responses will be listed by MHI)

ATTACHMENT – 2

LIST OF RAI RESPONSEs

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)
211	1946	03.07.01-01	03.07.01-05
212	1950	03.07.02-001	03.07.02-01
212	1950	03.07.02-001	03.07.02-02
212	1950	03.07.02-001	03.07.02-05
212	1950	03.07.02-001	03.07.02-06
212	1950	03.07.02-001	03.07.02-07
212	1950	03.07.02-001	03.07.02-09
212	1950	03.07.02-001	03.07.02-15
212	1950	03.07.02-001	03.07.02-16
212	1950	03.07.02-001	03.07.02-17
212	1950	03.07.02-001	03.07.02-20
212	1950	03.07.02-001	03.07.02-21
212	1950	03.07.02-001	03.07.02-27
213	1951	03.07.03-01	03.07.03-05
223	1996	03.08.01-01	03.08.01-08
342	2000	03.08.04-01	
490	3732	03.08.01-08	
495	3980	03.07.02-02	
495	3980	03.07.02-04	
496	3735	03.08.05-27	
542	4262	03.07.02-008 (-35)	
625	4924	03.07.02-020	
625	4924	03.07.02-023	
625	4924	03.07.02-024	
643	4967	03.07.01-07 (-13)	
643	4967	03.07.01-09 (-15)	
657	5135	03.08.05-36	
657	5135	03.08.05-38	
659	5133	03.07.01-11 (-17)	
659	5133	03.07.01-12 (-18)	
660	5134	03.07.02-025 (-52)	
660	5134	03.07.02-026 (-53)	
660	5134	03.07.02-027 (-54)	

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)
660	5134	03.07.02-030 (-57)	
660	5134	03.07.02-031 (-58)	
660	5134	03.07.02-032 (-59)	
660	5134	03.07.02-033 (-60)	
660	5134	03.07.02-034 (-61)	
660	5134	03.07.02-036 (-63)	
660	5134	03.07.02-037 (-64)	
660	5134	03.07.02-038 (-65)	
661	5129	03.08.01-13 (-26)	
709	5489	03.07.01-13 (-17)	
776	5851	03.07.02-068	
776	5851	03.07.02-069	
776	5851	03.07.02-070	
776	5851	03.07.02-071	
776	5851	03.07.02-072	
776	5851	03.07.02-073	
776	5851	03.07.02-074	
776	5851	03.07.02-075	
776	5851	03.07.02-076	
776	5851	03.07.02-077	
776	5851	03.07.02-078	
776	5851	03.07.02-079	
776	5851	03.07.02-080	
776	5851	03.07.02-081	
776	5851	03.07.02-084	
791	5864	03.07.02-085	
798	5876	03.07.01-14	
798	5876	03.07.01-15	
798	5876	03.07.01-16	
798	5876	03.07.01-17	
810	5874	03.07.02-091	
810	5874	03.07.02-092	
810	5874	03.07.02-095	
810	5874	03.07.02-100	
810	5874	03.07.02-102	
810	5874	03.07.02-103	
810	5874	03.07.02-108	
821	5984	03.07.01-18	
850	6002	03.07.01-19	

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)
850	6002	03.07.01-23	
850	6002	03.07.01-24	
850	6002	03.07.01-25	
850	6002	03.07.01-26	
850	6002	03.07.01-27	
850	6002	03.07.01-28	
850	6002	03.07.01-29	
850	6002	03.07.01-30	
850	6002	03.07.01-32	
852	6003	03.07.02-110	
852	6003	03.07.02-111	
852	6003	03.07.02-112	
852	6003	03.07.02-113	
852	6003	03.07.02-114	
852	6003	03.07.02-115	
852	6003	03.07.02-116	
852	6003	03.07.02-117	
852	6003	03.07.02-119	
852	6003	03.07.02-120	
852	6003	03.07.02-121	
852	6003	03.07.02-122	
852	6003	03.07.02-123	
852	6003	03.07.02-124	
852	6003	03.07.02-125	
852	6003	03.07.02-126	
852	6003	03.07.02-127	
852	6003	03.07.02-129	
852	6003	03.07.02-130	
852	6003	03.07.02-131	
852	6003	03.07.02-132	
852	6003	03.07.02-133	
852	6003	03.07.02-134	
852	6003	03.07.02-135	
852	6003	03.07.02-138	
854	6088	03.07.02-151	
854	6088	03.07.02-152	
854	6088	03.07.02-153	
854	6088	03.07.02-154	
854	6088	03.07.02-157	

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)
854	6088	03.07.02-158	
854	6088	03.07.02-159	
854	6088	03.07.02-160	
854	6088	03.07.02-161	
854	6088	03.07.02-162	
854	6088	03.07.02-163	
856	6094	03.07.02-164	
856	6094	03.07.02-165	
856	6094	03.07.02-166	
856	6094	03.07.02-167	
856	6094	03.07.02-168	
856	6094	03.07.02-169	
856	6094	03.07.02-170	
856	6094	03.07.02-171	
856	6094	03.07.02-172	
856	6094	03.07.02-173	
856	6094	03.07.02-174	
856	6094	03.07.02-175	
856	6094	03.07.02-176	
856	6094	03.07.02-177	
868	6156	03.07.02-178	
868	6156	03.07.02-179	

Docket No. 52-021
MHI Ref: UAP-HF-13017

Enclosure1

MITSUBISHI HEAVY INDUSTRIES, LTD.
AFFIDAVIT

I, Yoshiki Ogata, state as follows:

1. I am Director, APWR Promoting Department, of Mitsubishi Heavy Industries, LTD ("MHI"), and have been delegated the function of reviewing MHI's US-APWR documentation to determine whether it contains information that should be withheld from public disclosure pursuant to 10 CFR § 2.390 (a)(4)as trade secrets and commercial or financial information which is privileged or confidential.

2. In accordance with my responsibilities, I have reviewed the enclosed document entitled "Revised RAI Responses to Historical RAI and Outstanding RAIs for US-APWR DCD Sections 3.7 and 3.8"dated January2013, and have determined that portions of the document contain proprietary information that should be withheld from public disclosure. Those pages containing proprietary information are identified with the label "Proprietary" on the top of the page and the proprietary information has been bracketed with an open and closed bracket as shown here "[ ]". The first page of the document indicates that all information identified as "Proprietary" should be withheld from public disclosure pursuant to 10 CFR § 2.390 (a)(4).

3. The information identified as proprietary in the enclosed document has in the past been, and will continue to be, held in confidence by MHI and its disclosure outside the company is limited to regulatory bodies, customers and potential customers, and their agents, suppliers, and licensees, and others with a legitimate need for the information, and is always subject to suitable measures to protect it from unauthorized use or disclosure.

4. The bases for holding the referenced information confidential are as follows;

   A. They include the output of analyses used by mathematical models developed at significant cost to MHI, since it required the performance of detailed design calculations, supporting analyses and testing. The information out of the analyses is not available in public sources and could not be gathered readily from other publicly available information.

   B. They include the information that is provided to MHI pursuant to licensing agreements with third parties (the "Licensors") for MHI's use and under the obligation to maintain their confidentiality. Furthermore, MHI has an ownership interest in the referenced information by having paid significant sums of money to the Licensors for the rights to the intellectual property therein such that public disclosure of the materials would adversely affect MHI's competitive position.

5. The referenced information is being furnished to the Nuclear Regulatory Commission ("NRC") in confidence and solely for the purpose of information to the NRC staff.

6. The referenced information is not available in public sources and could not be gathered readily from other publicly available information. Other than through the provisions in paragraph 3 above, MHI knows of no way the information could be lawfully acquired by organizations or individuals outside of MHI.

7. Public disclosure of the referenced information would assist competitors of MHI in their design of new nuclear power plants without incurring the costs or risks associated with the design of the subject systems. Therefore, disclosure of the information contained in the referenced document would have the following negative impacts on the competitive position of MHI in the U.S. nuclear plant market:

   A. Loss of competitive advantage due to the costs associated with development of the methodology of modeling and analysis for building structure design. Providing public access to such information permits competitors to duplicate or mimic the methodology without incurring the associated costs.

I declare under penalty of perjury that the foregoing affidavit and the matters stated therein are true and correct to the best of my knowledge, information and belief.

Executed on this 31st day of January, 2013.

Y. Ogata

Yoshiki Ogata,
Director, APWR Promoting Department
Mitsubishi Heavy Industries, LTD.