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TOKYO, JAPAN

August 30, 2012

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-12239

Subject: Transmittal of the US-APWR DCD GSI-191 Tracking Report (August 2012 Version)

- References: [1] Letter MHI Ref: UAP-HF-11449 from Y. Ogata (MHI) to the U.S. NRC, "Updated Closure Plan for Issues Associated with GSI-191 for the US-APWR Design Certification", dated December 21, 2011 (ML11362A464).
- [2] Letter MHI Ref: UAP-HF-11247 from Y. Ogata (MHI) to the U.S. NRC, "Transmittal of the US-APWR DCD (Revision 3) GSI-191 Tracking Report, (July 2011 version)", dated July 29, 2011.
- [3] Letter MHI Ref: UAP-HF-12111 from Y. Ogata (MHI) to the U.S. NRC, "Transmittal of the US-APWR DCD and Technical Report GSI-191 Tracking Report, (April 2012 Version)", dated April 27, 2012 (ML12124A353).
- [4] Letter MHI Ref: UAP-HF-12135 from Y. Ogata (MHI) to the U.S. NRC, "Transmittal of the US-APWR DCD GSI-191 Tracking Report (May 2012 Version)", dated June 1, 2012 (ML12157A223).

With this letter, Mitsubishi Heavy Industries, Ltd. ("MHI") transmits to the U.S. Nuclear Regulatory Commission ("NRC") the document entitled "US-APWR DCD GSI-191 Tracking Report (August 2012 Version)".

As the results of the continued work on the GSI-191 closure activities associated with Reference 1, MHI submitted to the NRC the final version of the DCD GSI-191 Tracking Report (TR) associated with GSI-191 in Reference 4.

However, MHI had some minor comments from the NRC on the TR. In addition to the comments, MHI found some further mistakes, omissions, etc. Therefore, MHI decided to revise the GSI-191 tracking report submitted in June as was announced to the NRC in a teleconference on August 8th, 2012.

This TR supersedes previous TRs submitted both in April (Reference 3) and in June (Reference 4). Changes from the May version (Reference 4) were included in Chapters 3 and 6, and the newly changed portions are identified with Change ID "MIC-03-03-00045" for Chapter 3 and "MIC-03-06-00071" for Chapter 6. No additional changes were made from previous TRs on the other Chapters and the current list of figures to be updated as part of the Seismic TR are included in Enclosure 3.

A large number of changes have been made to DCD Sections 6.2 and 6.3 as result of the GSI-191 closure activities since DCD Revision 3 was submitted. In order to aid the NRC staff's

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review regarding GSI-191, MHI is submitting Subsections 6.2 and 6.3 of Chapter 6 in their entirety. Therefore, changes proposed in the Tracking Report submitted in July 2011 (Reference 2) are also incorporated into this tracking report. For other chapters, only the changed portions are provided in this TR.

Enclosure 1 contains certain information, designated pursuant to the Commission as sensitive unclassified non-safeguards information, referred to as security-related information ("SRI"), that is to be withheld from public disclosure under 10 CFR § 2.390. The information that is SRI in Enclosure 2 is identified by brackets. Another version of the document omitting the SRI is included as Enclosure 2. In this public version, the SRI is replaced by the designation "[Security-Related Information – Withheld under 10 CFR 2.390]".

Lastly, this report is independent from the standard DCD TRs submitted periodically to the NRC, which include comprehensive changes to all chapters. The proposed changes included in this report will eventually be consolidated into the standard DCD TRs after closure of all GSI-191 activities.

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,

A handwritten signature in black ink, appearing to read "Y. Ogata". The signature is written in a cursive style with a large initial "Y" and a long, sweeping tail.

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

Enclosures:

1. CD 1: "US-APWR DCD GSI-191 Tracking Report (August 2012 Version)"
– Version Containing SRI
2. CD 2: "US-APWR DCD GSI-191 Tracking Report (August 2012 Version)"
– Version Not Containing SRI
3. List of Figures to be Updated for GSI-191 and Transmitted to the NRC as Part of the Seismic Tracking Report

The file contained in each CD is listed in Attachments 1 and 2 hereto.

CC: J. A. Ciocco
J. Tapia

Contact Information

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ATTACHMENT 1

FILE CONTAINED IN CD 1

**CD 1: "US-APWR DCD GSI-191 Tracking Report (August 2012 Version)"
– Version Containing SRI**

Contents of CD

<u>File Name</u>	<u>Size</u>	<u>Sensitivity Level</u>
001 GSI-191_TRs_August_2012(SRI).pdf	12.8 MB	SRI

ATTACHMENT 2

FILE CONTAINED IN CD 2

**CD 2: "US-APWR DCD GSI-191 Tracking Report (August 2012 Version)"
– Version Not Containing SRI**

Contents of CD

<u>File Name</u>	<u>Size</u>	<u>Sensitivity Level</u>
001 GSI-191_TRs_August_2012(non-SRI).pdf	9.1 MB	Non-SRI

Enclosure 3

List of Figures to be Updated for GSI-191 and Transmitted to the NRC as Part of the Seismic Tracking Report

This is a list of the layout drawings which will be updated for GSI-191 design changes and included in the Seismic Tracking Report. Although these drawings are affected by GSI-191 Closure Activities committed to in MHI Letter UAP-HF-11449 dated December 21, 2011, they are also affected by the seismic design change in the US-APWR DCD. Since the Seismic Tracking Report is planned to be submitted to the NRC as committed in updated seismic closure plan of MHI letter UAP-HF-12238, the drawings are not included in Enclosures 1 and 2 "US-APWR DCD GSI-191 Tracking Report" (with and without SRI, respectively) to avoid redundant or conflicting changes.

Note that layout drawings outside containment will be changed as part of the seismic closure plan and no changes will be made inside containment due to the seismic issue. Layout drawings in Subsections 6.2 and 6.3 that affected by the design change regarding GSI-191 are all updated as shown in Enclosure 1 because the layout drawings in these subsections mainly show the layout inside containment and are therefore not considered affected by the seismic design change.

List of Figures to be updated in the Seismic Tracking Report

(1/1)

Chapter	Section	Table / Figure	Living DCD Page	Summary of change
Tier 1		Figure 2.2-5, 2.2-10	2.2-39, 2.2-44	US-APWR Architectural Layout R/B (EL 25'-8" and Section View)
Tier 1		Figure 2.2-17, 2.2-18	2.2-51, 2.2-52	Flood barriers and water tight doors R/B (EL 13'-6", 25'-3")
1	1.2	Figure 1.2-5, 1.2-6, 1.2-12	1.2-55, 1.2-56, 1.2-62	Power Block Plan View (EL. 13'-6", 25'-3" and Section view)
1	1.2	Figure 1.2-17, 1.2-18, 1.2-24	1.2-67, 1.2-68, 1.2-74	Reactor Building Plan View (EL. 13'-6", 25'-3" and Section view)
3	3.8	Figure 3.8.1-9 (Sheet 2 of 4)	3.8-169	Reactor Building Plan View EL. 25'-3" (temperature gradients)
3	3.8	Figure 3.8.3-6 (Sheet 6 of 7, 7 of 7)	3.8-197, 3.8-198	Interior Compartments Wall Layout and Configuration (East West Section View, North-South Section View)
3	3.8	Figure 3.8.3-9 (sheet 1 of 3)	3.8-207	Layout (Containment Internal Structure Pressure Loads)
3	3.8	Figure 3.8.4-3 (sheet 1 of 2)	3.8-223	Layout (R/B Critical Sections)
3	3.8	Figure 3.8.5-2	3.8-243	Layout (Cross Section of a North-South Orientation)
3	3H	Figure 3H-2 (Sheet 1 of 2 and Sheet 2 of 2)	3H-17, 3H-18	Layout (Lumped Mass Stick Model)
3	3K	Figure 3K-4, 3K-5	3K-81, 3K-82	Layout (Location of Watertight Doors and Flood Barrier Walls)
6	6.5	Figure 6.5-5, 6.5-6	6.5-25, 6.5-26	Safeguard Component Area and Penetration Area (EL. 13'-6" and 25'-3")
8	8.3	Figure 8.3.1-4 (sheet 4 of 5)	8.3-135	Class 1E electrical equipment layout (EL. 25'-3")
9	9.4.6	Table 9.4.6-1	9.4-79	Capacity change of reactor cavity cooling fan
9	9A	Figure 9A-4, 9A-5	9A-621, 9A-622	Layout (Fire Zones and Fire Areas EL. 13'-6" and 25'-3")
11	11.5	Figure 11.5-2d, 11.5-2e, 11.5-2k	11.5-38, 11.5-39, 11.5-45	Layout (Location of Radiation Monitors at Plant EL. 13'-6", 25'-3" and section view)
12	12.3	Figure 12.3-1(Sheet 2 of 34, 7 of 34, 8 of 34)	12.3-117, 12.3-122, 12.3-123	Layout (Radiation Zones for Normal Operation/Shutdown section view, EL. 13'-6" and 25'-3")
12	12.3	Figure 12.3-2 (sheet 4 of 10, 5 of 10)	12.3-153, 12.3-154	Layout (General Plant Arrangement with Post Accident Vital Areas EL. 13'-6" and 25'-3")
12	12.3	Figure 12.3-3 (sheet 4 of 10, 5 of 10)	12.3-163, 12.3-164	Layout (Post Accident Radiation Zone MAP: 1 hour After Accident EL. 13'-6" and 25'-3")
12	12.3	Figure 12.3-4 (sheet 4 of 10, 5 of 10)	12.3-173, 12.3-174	Layout (Post Accident Radiation Zone MAP: 1 day After Accident EL. 13'-6" and 25'-3")
12	12.3	Figure 12.3-5 (sheet 4 of 10, 5 of 10)	12.3-183, 12.3-184	Layout (Post Accident Radiation Zone MAP: 1 week After Accident EL. 13'-6" and 25'-3")
12	12.3	Figure 12.3-6 (sheet 4 of 10, 5 of 10)	12.3-193, 12.3-194	Layout (Post Accident Radiation Zone MAP: 1 month After Accident EL. 13'-6" and 25'-3")
12	12.3	Figure 12.3-11 (sheet 4 of 10, 5 of 10)	12.3-207, 12.3-208	Layout (Post Accident Radiation Zone MAP: 1week After Accident EL. 13'-6" and 25'-3")