**MITSUBISHI HEAVY INDUSTRIES, LTD.**
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**TOKYO, JAPAN**

November 26, 2008

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-08267

**Subject: Submittal of Updated Technical Report Tracking List for US-APWR Design Control Document Revision 1**

**Reference:** 1) Letter MHI Ref: UAP-HF-07153 from Y. Ogata (MHI) to U.S. NRC, "Submittal of US-APWR Design Control Document Revision 1 in Support of Mitsubishi Heavy Industries, Ltd.'s Application for Design Certification of the US-APWR Standard Plant Design," dated August 29, 2008.

With this letter, Mitsubishi Heavy Industries, Ltd. ("MHI") submits to the U.S. Nuclear Regulatory Commission ("NRC") the Updated Technical Report Tracking List of US-APWR Design Control Document Revision 1 ("DCD Rev.1") as found in Enclosure.

MHI previously submitted the tracking list in August 2008 as Enclosure 4 to Reference 1. The list as attached in Enclosure is the updated version of the original list to present the current status of the MHI's report transmittal plan.

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 provided below.

Sincerely,

Y. Ogata

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

Enclosure:

1. Updated Technical Report Tracking List for US-APWR Design Control Document Revision 1

D081
NRO

CC: J. A. Ciocco
C. K. Paulson

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Enclosure 1

UAP-HF-08267
Docket No. 52-021

# Updated Technical Report Tracking List for US-APWR Design Control Document Revision 1

November 2008

## General description

This enclosure lists the technical reports which have already been submitted or will be submitted in the future. The column named "Referenced in DCD" shows whether the report is referenced in the related Design Control Document ("DCD") section. The column named "Summarized in DCD" shows whether the report is summarized in the related DCD section.

## Updated Information

All updated information is shown in bold and italic font with revision bars.

The following two reports have been added:

- "Investigation of Out-of-Plane Flexibility of Floor Slabs with Respect to Development of ISRS" on Chapter 3
- "US-APWR Test Program Description" on Chapter 14

One report entitled "US-APWR Sump Strainer Stress Report" has been deleted, since it is duplicated in "Sump Strainer: Structural Analysis, Structural Analysis Results (including Stress Results) and Detail Drawings."

Technical Report Tracking List for the US-APWR DCD Revision 1 (1 of 2)

| Report No | Report Name | Supports DCD Section | Rev | Submittal Dates | Referenced in DCD | Summarized in DCD |
|---|---|---|---|---|---|---|
| MUAP-07022-P&NP | US-APWR Reactor Vessel Lower Plenum 1/7 Scale Model Flow Test Report | 1.5.2.1.2 | 0 | 06/30/08 | Y | Y |
| MUAP-07023-P&NP | APWR Reactor Internals 1/5 Scale Model Flow Test Report | 1.5.2.1.1<br>3.9.2.3.3 | 0 | 12/31/07 | Y | Y |
| TBD | Summary of Stress Analysis Results for Components and Piping | 3.9.3<br>5 | 0 | 03/2009 | Y | N |
| TBD | US-APWR Equipment Environmental Qualification Program | 3.10.4.1<br>3.11 | 0 | 12/2008 | Y | Y |
| MUAP-08005-P&NP | Dynamic Analysis of the Coupled RCL-R/B-PCCV-CIS Lumped Mass Stick Model | 3.7.1<br>3.7.2<br>3.7.3 | 0 | 04/25/08 | Y | Y |
| MUAP-08002 | Enhanced Information for PS/B Design | 3.7.2.8.6 | 0 | 02/27/08 | Y | Y |
| TBD | Summary of Seimic and Accident Load Conditions for Primary Components and Piping Design | 3.9.3 | 0 | 01/2009 | Y | N |
| TBD | Summary of Design Transient | 3.9.1.1 | 0 | 01/2009 | Y | N |
| MUAP-07027-P&NP | Comprehensive Vibration Assessment Program for US-APWR Reactor Internals | 3.9.2.3 | 0 | 12/31/07 | Y | Y |
| ***TBD*** | ***Investigation of Out-of-Plane Flexibility of Floor Slabs with Respect to Development of ISRS*** | ***3H<br>3.7.2.5*** | ***0*** | ***03/2009*** | ***Y*** | ***Y*** |
| MUAP-07016-P&NP | US-APWR Fuel System Design Evaluation | 4.2.1<br>4.2.2<br>4.2.3 | 0 | 02/27/08 | Y | Y |
| MUAP-07018-P&NP | US-APWR Fuel System Design Parameters List | 4.2.2 | 0 | 12/31/07 | Y | Y |
| MUAP-08007-P&NP | Evaluation Results of ***US-APWR Fuel System Structural Response to Seismic and LOCA loads*** | 4.2.3.5.2 | 0 | 03/2009 | Y | Y |
| MUAP-07021-P&NP | US-APWR Incore Power Distribution Evaluation Methodology | 4.3.2 | 0 | 12/31/07 | Y | Y |
| MUAP-07019-P&NP | Qualification of Nuclear Design Methodology using PARAGON/ANC | 4.3.2<br>4.3.3 | 0 | 12/31/07 | Y | Y |
| MUAP-07020 | Validation of ***the MHI*** Criticality Safety Methodology | 4.3.3 | 0 | 12/31/07 | Y | Y |
| MUAP-07015 | FMEA of Control Rod Drive Mechanism Control System | 4.6.2 | 0 | 12/31/07 | Y | Y |
| MUAP-07035 | Structural Analysis for US-APWR Coolant Pump Motor Flywheel | 5.4.1.1 | 0 | 12/31/07 | Y | Y |
| MUAP-08001 | US-APWR Sump Strainer Performance | 5.2<br>6.2 | 1 | 09/2008 | Y | Y |
| MUAP-08006-P&NP | US-APWR Sump Debris Chemical Effects Test Plan | 6 | 0 | 06/30/08 | N | N |
| ~~***TBD***~~ | ~~***US-APWR Sump Strainer Stress Report***~~ | ~~***6***~~ | ~~***0***~~ | ~~***11/2008***~~ | ~~***Y***~~ | ~~***N***~~ |
| TBD | Sump Strainer: Structural Analysis, Structural Analysis Results (including Stress Results) and Detail Drawings | 6 | 0 | 11/2008 | ***N*** | N |
| TBD | Sump Strainer: Chemical Effects, Confirmatory Test Results for the Chemical Effects, including the Assessment of Debris Characteristics | 6 | 0 | 11/2008 | ***N*** | N |
| TBD | Sump Strainer: Downstream Effects, Supplemented with Additional Details in Ex-vessel and In-vessel Issues | 6 | 0 | 12/2008 | ***N*** | N |
| MUAP-07031-P&NP | Subcompartment Analyses for US-APWR Design Confirmation | 6.2.1.2 | 0 | 02/27/08 | Y | Y |
| MUAP-07017 | US-APWR Technical Report Software Program Manual | 7.1<br>7.9 | 0 | 12/31/07 | Y | Y |
| MUAP-07014 | US-APWR Defense in Depth and Diversity Coping Analysis | 7.8 | 1 | 06/20/08 | Y | Y |
| MUAP-08003 | US-APWR Cyber Security Program | 7.9 | 0 | 08/29/08 | Y | Y |

Technical Report Tracking List for the US-APWR DCD Revision 1 (2 of 2)

| Report No | Report Name | Supports DCD Section | Rev | Submittal Dates | Referenced in DCD | Summarized in DCD |
|---|---|---|---|---|---|---|
| MUAP-07024-P&NP | Qualification ***and*** Test Plan of Class 1E Gas Turbine Generator System | 1.5<br>8.3.1<br>9.5.4<br>19.1 | 0 | 12/05/07 | Y | Y |
| MUAP-07033 | Mechanical Analyses for US-APWR New and Spent Fuel Racks | 9.1 | 0 | 03/2009 | Y | N |
| MUAP-07032-P&NP | Criticality Analysis for US-APWR New and Spent Fuel Storage Racks | 9.1 | 0 | 2/28/08 | Y | N |
| MUAP-07028-P&NP | Probability of Missile Generation from Low Pressure Turbine | 3.5.1.3.2<br>10.2.3.5 | 0 | 12/31/07 | Y | Y |
| MUAP-07029-P&NP | Probabilistic Evaluation of Turbine Valve Test Frequency | 10.2.3.5 | 0 | 12/31/07 | Y | Y |
| SGI | High Assurance Evaluation ***Assessment*** | 13.6 | 0 | 09/2008 | Y | N |
| ***MUAP-08010*** | Mitigative Measures Evaluation ***for the US-APWR*** | 13.6 | 0 | ***11/14/08*** | N | N |
| SGI | Physical Security Element Review | 13.6 | 1 | 09/2008 | Y | N |
| ***MUAP-08009*** | ***US-APWR Test Program Description*** | ***14.2*** | ***0*** | ***09/30/08*** | ***Y (next revision)*** | ***N*** |
| MUAP-07025-P&NP | Small Break LOCA Sensitivity Analyses for US-APWR | 15.0<br>15.6.5.3 | 0 | 12/31/07 | Y | Y |
| MUAP-07026-P&NP | Mitsubishi Reload Evaluation Methodology | 16 (5.6.3, B3.1.3, B3.1.8, B3.1.9) | 0 | 12/31/07 | Y | Y |
| MUAP-07036 | Justification for Deviations Between NUREG-1431 Rev 3.1 and US-APWR Technical Specifications | 16 | 1 | 08/29/08 | N | N |
| TBD | HSI Design Technical Report | 18.3<br>18.4<br>18.6<br>18.7 | 0 | 06/2009 | Y | N |
| TBD | U.S. Operator V&V Technical Report | 18.2 | 0 | 12/2008 | Y | N |
| MUAP-07030-P | US-APWR Probabilistic Risk Assessment ~~***MUAP-07030 (Level 1/2)***~~ | 7.1<br>19.0<br>19.2 | 1 | 09/30/08 | Y | Y |
| MUAP-08004 | US-APWR Probabilistic Risk Assessment (Level 3) | 19.2.6.1 Environ-mental Report | 1 | 09/30/08 | Y | Y |
| SGI | Beyond DBT Aircraft Impact Assessment | 19 | 0 | late 2008 /early 2009 | N | N |