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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-09510

Subject: Transmittal of the Updated Chapter 14, Subsection 14.2.12.1.78 of US-APWR DCD

- Reference:**
- 1) "Request for Additional Information No. 3593 (CP RAI#86), SRP Section: 14.02 - Initial Plant Test Program - Design Certification and New License Applicants" dated September 26, 2009.
 - 2) Letter MHI Ref: UAP-HF-09490 from Y. Ogata (MHI) to U.S. NRC, "Submittal of US-APWR Design Control Document Revision 2 in Support of Mitsubishi Heavy Industries, Ltd.'s Application for Design Certification of the US-APWR Standard Plant Design" dated on October 27, 2009.

Mitsubishi Heavy Industries, Ltd. ("MHI") and Luminant have been working to resolve a Request for Additional Information ("RAI") to Combined License ("COL") Application for Comanche Peak Units 3 and 4. COL RAI #86, question 14.02-11 (Reference 1) was issued to request providing the description to demonstrate that the Primary-to-Secondary Leakage monitoring instruments have the required sensitivity. In this activity, MHI concluded that the description would be included in the Design Control Document ("DCD") because this could be applied to the standard plant.

With this letter, MHI transmits to the U.S. Nuclear Regulatory Commission ("NRC") Staff the proposed marked-up to be made to the DCD revision 2 (Reference 2). This update will be incorporated into future DCD revision.

Please contact Dr. C. Keith Paulson, Senior Technical Manager, Mitsubishi Nuclear Energy Systems, Inc. if NRC has questions concerning any aspect of this letter. His contact information is provided below.

Sincerely,



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

DOB
NRC

Enclosure:

1. Update of Chapter 14, Subsection 14.2.12.1.78 of US-APWR DCD

CC: J. A. Ciocco
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Contact Information

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Enclosure 1

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D. Acceptance Criteria

1. Transfer of control from the control room to the remote shutdown console is achieved in accordance with design requirements (Subsection 7.4.1.5).
2. The ability to cool down the plant from hot standby to cold shutdown is demonstrated.

14.2.12.1.77 Miscellaneous Leakage Detection System Preoperational Test

A. Objective

1. To demonstrate the operation of the miscellaneous leakage detection system installed for each ESF equipment room (Subsection 9.3.3.5).

B. Prerequisites

1. Required construction testing is completed.
2. Component testing and instrument calibration is completed.
3. Test instrumentation is available and calibrated.
4. Required support systems are available.

C. Test Method

1. Verify alarms and indications.

D. Acceptance Criterion

1. The miscellaneous leakage detection system operates as described in Subsection 9.3.3.

14.2.12.1.78 Process and Effluent Radiological Monitoring System, Area Radiation Monitoring System and Airborne Radioactivity Monitoring System Preoperational Test

A. Objective

1. To demonstrate operation of the process and effluent radiological monitoring system as shown in Section 11.5, area radiation monitoring system and airborne radioactivity monitoring system as shown in Subsection 12.3.4.

B. Prerequisites

1. Required construction testing is completed.
2. Component testing and instrument calibration is completed.

3. Test instrumentation is available and calibrated. Type testing of the instrumentation used to detect primary-to-secondary leakage in the steam generators (see subsection 5.2.5.3) includes demonstrating that these instruments have the required sensitivity per NEI 97-06.
4. Suitable check sources are available.

C. Test Method

1. The operation of each monitor is verified.
2. Setpoint, control logic, annunciation (e.g. high alarm of SFP area radiation monitor), and power failure alarms of each monitor is verified.
3. The uncertainty and determination of setpoint of each monitor is verified.

D. Acceptance Criterion

1. The process and effluent radiological monitoring system, area radiation monitoring system and airborne radioactivity monitoring system operate as described in Section 11.5 and Subsection 12.3.4.

14.2.12.1.79 High-Efficiency Particulate Air Filters and Charcoal Adsorbers Preoperational Test

A. Objective

1. To demonstrate operation of the high-efficiency particulate air (HEPA) filters and charcoal adsorbers. This includes the MCR HVAC system, technical support center (TSC) HVAC system, annulus emergency exhaust system and containment purge system.

B. Prerequisites

1. Required construction testing is completed.
2. Component testing and instrument calibration is completed.
3. Test instrumentation is available and calibrated.
4. Required support systems are available.
5. The ventilation systems containing HEPA filters and charcoal adsorbers are air balanced and are operational and available to support this test.
6. Replacement of HEPA filters and adsorber material used during system construction is completed.

C. Test Method

1. HEPA filters and charcoal adsorbers are tested in place.