



MITSUBISHI HEAVY INDUSTRIES, LTD.
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TOKYO, JAPAN

October 28, 2009

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-09491

Subject: Update of Chapter 3 of US-APWR DCD

- Reference:**
- 1) CP-200801264 Log # TXNB-08024 from M. L. Lucas (Luminant) to U.S. NRC, "COMBINED LICENSE APPLICATION FOR COMANCHE PEAK NUCLEAR POWER PLANT, UNITS 3 AND 4 PROJECT NO. 0754" dated on September 19, 2008
 - 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.
 - 3) NRC Request for Additional Information No. 2757 Revision 0, RAI #67, 9/20/2009, Comanche Peak Units 3 and 4, Luminant Generation Company, LLC. Docket No. 52-034 and 52-035, SRP Section: 03.02.02 - System Quality Group Classification, Application Section: 3.2.2

During the review process of the Combined License Application for Comanche Peak Units 3 and 4 (Reference 1, "R-COLA"), which incorporates by reference the Mitsubishi Heavy Industries, Ltd. (MHI) Design Certification Application for the US-APWR Standard Plant Design (Reference 2, "DCD"), the U.S. Nuclear Regulatory Commission ("NRC") Staff has requested additional information about the CWS (Reference 3).

Based on our response to this RAI, updates of Chapter 3 of our US-APWR Design Control Document are required.

With this letter, MHI transmits to the NRC Staff the proposed updates to be made to the DCD based on our response to this RAI. These updates will be incorporated into future DCD revisions.

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

DO81
NRC

Sincerely,

Y. Ogata

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

Enclosure:

1. Update of Chapter 3 of the US-APWR DCD

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

Contact Information

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Enclosure 1

UAP-HF-09491
Docket No. 52-021

Update of Chapter 3 of US-APWR DCD

October 2009

Mitsubishi received an NRC Request for Additional Information No. 2757 Revision 0, RAI #67, dated on 9/20/2009.

In response to the above RAI #67, it became necessary to revise Chapter 3 of our US-APWR Design Control Document.

Table 1 shows the change list of Chapter 3 of the DCD, which gives the positions, the contents and the reasons of changing DCD. Mark-up drafts of the DCD are also attached in this document.

Table 1 Change List of Chapter 3 of DCD

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.2-16	Table 3.2-1 Sheet 2	Add two rows for CWS components "Cooling towers" and "Circulating water pumps" to the table. Reason: The components of the CWS system are required for normal shutdown. The cooling towers and the circulating water pumps were erroneously omitted.

Table 3.2-1 Non-Safety Components Required for Normal Shutdown
(Sheet 1 of 2)

Systems	Components
Reactor Coolant System	Reactor Coolant System and oil lift pump
	Pressurizer heater (Control Group)
	Pressurizer spray valve
Chemical and volume control system	Charging pump
	Boric acid transfer pump
	Volume control tank
	Boric acid tank
	Hold up tank
	Regenerative heat exchanger
	Letdown heat exchanger
	Seal water heat exchanger
	Reactor coolant filter
	Seal water injection filter
	Seal water return strainer
	Charging flow control valve
	Seal water injection flow control valve
	Letdown line 1 st (2 nd) stop valve
	Letdown line inside prestressed concrete containment vessel
	Centrifugal charging pump inlet line volume control tank Side 1 st , 2 nd isolation valves
	Centrifugal charging pump inlet line boric and tank side isolation valve
	Centrifugal charging pump inlet line refueling water storage auxiliary tank side isolation valves
Residual heat removal letdown line pressure control valve	
Seal water return line 1 st , 2 nd isolation valves	
Primary Makeup Water System	Primary make-up water pump
	Primary make-up water storage tank
Residual Heat Removal System	CS/residual heat removal cooler outlet flow control valves
	CS/residual heat removal heat exchanger bypass flow control valves
Main Stream and Feedwater System	Main steam relief valves (Normal)
	Turbine bypass valves
	Main feedwater bypass valves
	Steam generator water filling control valves

**Table 3.2-1 Non-Safety Components Required for Normal Shutdown
(Sheet 2 of 2)**

Instrument Air System	Instrument air compressors
Secondary System	Condenser
	Condensate pump
	Deaerator
	Main feedwater pump
	Cooling towers
	Circulating water pumps
Heating, Ventilation, and Air Conditioning	Containment fan cooler unit fan
	Reactor cavity cooling fan
	Control rod drive mechanism cooling fan
	Non-Class 1E electrical room air handling unit fan
	Non-essential chiller units
	Non-essential chilled water pumps