



Luminant

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Ref. # 10 CFR 52

January 13, 2010

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555
ATTN: David B. Matthews, Director
Division of New Reactor Licensing

**SUBJECT: COMANCHE PEAK NUCLEAR POWER PLANT, UNITS 3 AND 4
DOCKET NUMBERS 52-034 AND 52-035
COL APPLICATION PARTS 2, 4, AND 10 UPDATE TRACKING REPORTS**

REFERENCES: 1. Letter, R. Flores to D. B. Matthews, "Responses to Requests for Additional Information No. 2736, 2840, 2996, 3293, 3366, and 3532," dated November 13, 2009 (ML093210468)
2. Letter, R. Flores to D. B. Matthews, "Responses to Requests for Additional Information No. 2757, 2819, 2836, 2837, and 3592," dated November 5, 2009 (ML093130123)

Dear Sir:

Luminant Generation Company LLC (Luminant) submits herein Update Tracking Reports for the Comanche Peak Nuclear Power Plant Units 3 and 4 Combined License (COL) Application, Part 2, Final Safety Analysis Report; Part 4, Technical Specifications; and Part 10, ITAAC and Proposed License Conditions. The marked-up pages reflect changes made in US-APWR Design Control Document Revision 2.

In Reference 1, Luminant committed to incorporate exceptions to Regulatory Guides 1.8, 1.28, and 1.33 into an update of the Quality Assurance Program Description (QAPD) by January 13, 2010. However, the NRC and the industry are still developing the final version of NEI 06-14A, "Quality Assurance Program Description," which will affect the exceptions taken to the Guides. Therefore, Luminant hereby extends the commitment date until the NRC approves the final version of NEI 06-14A.

In the response to Question 13.04-3 in Reference 2, Luminant inadvertently included an incorrect revision of page 13.4-3 and failed to include page 13.4-5. The correct pages are included in Attachment 1.

Should you have any questions regarding this report, please contact Don Woodlan (254-897-6887, Donald.Woodlan@luminant.com) or me.

The only commitment in this letter is stated above regarding the QAPD update.

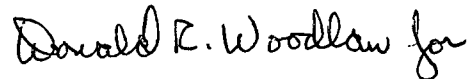
DO90
NRD

I state under penalty of perjury that the foregoing is true and correct.

Executed on January 13, 2010.

Sincerely,

Luminant Generation Company LLC



Rafael Flores

- Attachments:
1. COL Application Part 2, Final Safety Analysis Report Revision 1, Update Tracking Report Revision 0
 2. COL Application Part 4, Technical Specifications Revision 1, Update Tracking Report Revision 0
 3. COL Application Part 10, ITAAC and Proposed License Conditions Revision 1, Update Tracking Report Revision 1

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Attachment 1

COL Application Part 2, Final Safety Analysis Report Revision 1, Update Tracking Report Revision 0

(This attachment includes marked-up Final Safety Analysis Report (FSAR) pages. Because of text additions and deletions, the page numbers on the marked-up pages may not coincide with the page numbers in FSAR Revision 1.)

January 8, 2010

**Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application**

Part 2

FSAR Revision1

Update Tracking Report

Revision 0

Revision History

Revision	Date	Update Description
-	11/20/2009	COLA Revision 1 Transmittal See Luminant Letter no. TXNB-09074 Date 11/20/2009
-	10/15/2009	Updated Chapters: Ch. 2, 3, 11 See Luminant Letter no. TXNB-09054 Date 10/15/2009 Incorporated responses to following RAIs: No. 30, 31, 33, 35, 36
-	10/19/2009	Updated Chapters: Ch. 2, 3, 5, 11, 13 See Luminant Letter no. TXNB-09055 Date 10/19/2009 Incorporated responses to following RAIs: No. 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50,
-	10/21/2009	Updated Chapters: Ch. 2, 9 See Luminant Letter no. TXNB-09057 Date 10/21/2009 Incorporated responses to following RAIs: No. 51, 52, 53
-	10/26/2009	Updated Chapters: Ch. 3, 5 See Luminant Letter no. TXNB-09058 Date 10/26/2009 Incorporated responses to following RAIs: No. 54, 55, 56, 57, 58, 59
-	10/28/2009	Updated Chapters: Ch. 2 See Luminant Letter no. TXNB-09059 Date 10/28/2009 Incorporated responses to following RAIs: No. 19

-	10/30/2009	<p>Updated Chapters: Ch. 2, 3, 5, 9 See Luminant Letter no. TXNB-09060 Date 10/30/2009</p> <p>Incorporated responses to following RAIs: No. 61, 62, 63, 64, 65</p>
-	11/5/2009	<p>Updated Chapters: Ch. 3, 13</p> <p>See Luminant Letter no. TXNB-09061 Date 11/5/2009</p> <p>Incorporated responses to following RAIs: No. 66, 67, 68, 69, 71</p>
-	11/5/2009	<p>Updated Chapters: Ch. 5, 12, 14</p> <p>See Luminant Letter no. TXNB-09062 Date 11/5/2009</p> <p>Incorporated responses to following RAIs: No. 85, 86, 87, 89</p>
-	11/11/2009	<p>Updated Chapters: Ch. 2, 3, 14</p> <p>See Luminant Letter no. TXNB-09063 Date 11/11/2009</p> <p>Incorporated responses to following RAIs: No. 72, 73, 74, 75</p>
-	11/11/2009	<p>Updated Chapters: Ch. 1, 2, 3, 9, 12, 14</p> <p>See Luminant Letter no. TXNB-09064 Date 11/11/2009</p> <p>Incorporated responses to following RAIs: No. 90, 91, 93, 94, 95, 96, 97, 98, 99, 100, 120</p>
-	11/12/2009	<p>Updated Chapters: Ch. 6, 13</p> <p>See Luminant Letter no. TXNB-09066 Date 11/12/2009</p> <p>Incorporated responses to following RAIs: No. 76, 77, 78</p>

-	11/13/2009	<p>Updated Chapters: Ch. 3, 17</p> <p>See Luminant Letter no. TXNB-09065 Date 11/13/2009</p> <p>Incorporated responses to following RAIs: No. 79, 80, 84</p>
-	11/13/2009	<p>Updated Chapters: Ch. 2, 3</p> <p>See Luminant Letter no. TXNB-09067 Date 11/13/2009</p> <p>Incorporated responses to following RAIs: No. 101, 102, 103, 104, 105, 106, 107, 110, 111, 112, 113, 114, 115,</p>
-	11/16/2009	<p>Updated Chapters: Ch. 1, 11, 12</p> <p>See Luminant Letter no. TXNB-09068 Date 11/16/2009</p> <p>Incorporated responses to following RAIs: No. 116, 117, 118, 119</p>
-	11/18/2009	<p>Updated Chapters: Ch. 2</p> <p>See Luminant Letter no. TXNB-09072 Date 11/18/2009</p> <p>Incorporated responses to following RAIs: No. 32</p>
-	11/20/2009	<p>Updated Chapters: Ch. 9</p> <p>See Luminant Letter no. TXNB-09071 Date 11/20/2009</p> <p>Incorporated responses to following RAIs: No. 109,124</p>
-	11/24/2009	<p>Updated Chapters: Ch. 2, 3</p> <p>See Luminant Letter no. TXNB-09073 Date 11/24/2009</p> <p>Incorporated responses to following RAIs:</p>

		No. 60
-	12/9/2009	Updated Chapters: Ch. 17 See Luminant Letter no. TXNB-09077 Date 12/9/2009 Incorporated responses to following RAIs: No. 92
-	12/10/2009	Updated Chapters: Ch. 3 See Luminant Letter no. TXNB-09078 Date 12/10/2009 Incorporated responses to following RAIs: No. 108
-	12/14/2009	Updated Chapters: Ch. 2, 3 See Luminant Letter no. TXNB-09085 Date 12/14/2009 Incorporated responses to following RAIs: No. 122
-	12/16/2009	Updated Chapters: Ch. 3, 9 See Luminant Letter no. TXNB-09081 Date 12/16/2009 Incorporated responses to following RAIs: No. 121, 123
0	1/8/2010	Updated Chapters: Ch 2, 3, 8, 9, 10, 11

Chapter 1

Chapter 1 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_12.03-12.04-1 RCOL2_12.01-4 RCOL2_12.03-12.04-7	Table 1.6-201	1.6-2	Response to RAI No.99. Luminant Letter No.TXNB-09064 Date 11/11/2009 Response to RAI No.118 and 119. Luminant Letter No.TXNB-09068 Date 11/16/2009	Add NEI 08-08"Generic FSAR Template Guidance for Life-Cycle Minimization of Contamination", Rev.3 to Table1.6-201.	-
RCOL2_16-16	Table 1.8-201	1.8-64 1.8-65	Response to RAI No. 91 Luminant Letter no.TXNB-09064 Date 11/11/2009	Deleted COL 16.1_3.3.1(1), COL 16.1_3.3.2(1), and COL 16.1_3.3.6(1). Corrected the description and Resolution Category for COL 16.1_3.3.5(1). Added COL 16.1_5.5.21 (1).	-
RCOL2_12.03-12.04-1	Table 1.9-202	1.9-16	Response to RAI No.99 Luminant Letter No.TXNB-09064 Date 11/11/2009	Add RG 4.21 "Minimization of Contamination and Radioactive Waste Generation: Life Cycle Planning" to Table 1.9-202.	-
RCOL2_09.02.01-4	Table 1.8-201 (Sheet 33 of 62)	1.8-42	Response to RAI No.109 Luminant Letter No.TXNB-09071 Date 11/20/2009	COL 9.2(6) added Subsection 9.4.5.1.1.6. COL 9.2(7) Deleted subsection 9.2.1.5.4.	-

Chapter 2

Chapter 2 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_02.02.01-02.02.02-1	2.2.1	2.2-1	Response to RAI No.30 Luminant Letter No. TXNB-09054 Date 10/15//2009	Removed bullet for DeCordova Steam Electric Station (SES).	-
RCOL2_02.02.01-02.02.02-1	2.2.2.1	2.2-3	Response to RAI No.30 Luminant Letter No. TXNB-09054 Date 10/15//2009	Added clarification for the location of the DeCordova	-
RCOL2_02.02.01-02.02.02-1	2.2.3.1.1.2	2.2-12	Response to RAI No.30 Luminant Letter No. TXNB-09054 Date 10/15//2009	Removed "the DeCordova SES"	-
RCOL2_02.02.01-02.02.02-2	2.2.2.2.10	2.2-5	Response to RAI No.30 Luminant Letter No. TXNB-09054 Date 10/15//2009	Added hypochlorite and percent	-
RCOL2_02.02.03-1	Table 2.2-214	2.2-43	Response to RAI No.31 Luminant Letter No. TXNB-09054 Date 10/15//2009	Revised table to show hypochlorite and dimethylamine.	-
RCOL2_02.03.02-1	Table 2.3-284	2.3-162	Response to RAI No.45 Luminant Letter No. TXNB-09055 Date 10/19/2009	Corrected headers by changing the "Upper Level" to "Lower Level" at each location.	-
RCOL2_02.03.02-2 RCOL2_02.03.02-3	Table 2.3-327	2.3-220 through 2.3-222	Response to RAI No.45 Luminant Letter No. TXNB-09055 Date 10/19/2009	Replaced table with updated data and removed "Annual" from the title.	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_02.03.02-2	Table 2.3-328	2.3-223 through 2.3-225	Response to RAI No.45 Luminant Letter No. TXNB-09055 Date 10/19/2009	Replaced table with updated data and removed "Annual" from the title.	-
RCOL2_02.03.02-2 and RCOL2_02.03.02-3	Table 2.3-329	2.3-226 through 2.3-228	Response to RAI No.45 Luminant Letter No. TXNB-09055 Date 10/19/2009	Replaced table with updated data and removed "Annual" from the title.	-
RCOL2_02.03.02-2	Table 2.3-330	2.3-229 through 2.3-231	Response to RAI No.45 Luminant Letter No. TXNB-09055 Date 10/19/2009	Replaced table with updated data and removed "Annual" from the title.	-
RCOL2_02.03.02-2	Figure 2.3-373	-	Response to RAI No.45 Luminant Letter No. TXNB-09055 Date 10/19/2009	Revised graph based on updated data and removed the word "Annual" from the title.	-
RCOL2_02.03.02-2	Figure 2.3-374	-	Response to RAI No.45 Luminant Letter No. TXNB-09055 Date 10/19/2009	Revised graph based on updated data and removed the word "Annual" from the title.	-
RCOL2_02.03.02-2	Figure 2.3-375	-	Response to RAI No.45 Luminant Letter No. TXNB-09055 Date 10/19/2009	Revised graph based on updated data and removed the word "Annual" from the title.	-
RCOL2_02.03.02-2	Figure 2.3-376	-	Response to RAI No.45 Luminant Letter No. TXNB-09055 Date 10/19/2009	Revised graph based on updated data and removed the word "Annual" from the title.	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_02.03.03-3 RCOL2_02.03.03-5 RCOL2_02.03.03-7	2.3.3.1	2.3-36	Response to RAI No. 46 Luminant Letter no.TXNB-09055 Date 10/19/2009	Expanded explanation of instrumentation.	-
RCOL2_02.03.03-3 RCOL2_02.03.03-5 RCOL2_02.03.03-7	2.3.3.3	2.3-37	Response to RAI No. 46 Luminant Letter no.TXNB-09055 Date 10/19/2009	Expanded explanation of calibration and surveillance.	-
RCOL2_02.03.03-6	2.3.3.3	2.3-37	Response to RAI No. 46 Luminant Letter no.TXNB-09055 Date 10/19/2009	Added a sentence to state how often the guy wires are inspected.	-
RCOL2_02.03.01-1	Acronyms and Abbreviations	2liv 2lviii	Response to RAI No. 51 Luminant Letter no.TXNB-09057 Date 10/21/2009	Added acronym ASHRAE and NOAA to support new text added to subsection 2.3.1.2.10.	-
RCOL2_02.03.01-1	2.3.1.2.10	2.3-21	Response to RAI No. 51 Luminant Letter no.TXNB-09057 Date 10/21/2009	Added text after sentence to describe the temperature values.	-
RCOL2_02.03.01-2	2.3.1.2.3	2.3-12	Response to RAI No. 51 Luminant Letter no.TXNB-09057 Date 10/21/2009	Changed the number of tornados from 148 to 246.	-
RCOL2_02.03.01-2	2.3.1.2.3	2.3-13	Response to RAI No. 51 Luminant Letter no.TXNB-09057 Date 10/21/2009	Updated values to reflect 95 percent upper limit.	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_02.03.01-2	2.3.7	2.3-49	Response to RAI No. 51 Luminant Letter no.TXNB-09057 Date 10/21/2009	Updated reference citation information for Reference number 2.3-210.	-
RCOL2_02.03.01-3	2.3.1.2.6	2.3-15	Response to RAI No. 51 Luminant Letter no.TXNB-09057 Date 10/21/2009	Revised last paragraph to support the response.	-
RCOL2_02.03.01-5	2.3.1.2.8	2.3-20	Response to RAI No. 51 Luminant Letter no.TXNB-09057 Date 10/21/2009	Added a sentence to discuss assumption made to enough safety in the most extreme winter condition.	-
RCOL2_02.05.05-1	Accronyms and Abreviation	2-liv	Response to RAI No. 19 Luminant Letter no. TXNB-09059 Date 10/28/2009	Removed and added text. a _y yield acceleration from the "Acronyms and Abreviation" list	-
RCOL2_02.05.05-1	2.5.5.2.4 2.5.5.2.5 2.5.5.2.6 2.5.5.2.7	2.5-225 through 2.5-227	Response to RAI No. 19 Luminant Letter no. TXNB-09059 Date 10/28/2009	Revised Subsection for RAI response	-
RCOL2_02.05.05-1	Table 2.5.5-203	2.5-440	Response to RAI No. 19 Luminant Letter no. TXNB-09059 Date 10/28/2009	Revised entire last column of the table	-
RCOL2_02.05.05-1	2.5.7	2.5-451	Response to RAI No. 19 Luminant Letter no.TXNB- TXNB-09059 Date 10/28/2009	Removed references 2.5-425 and 2.5-427	-
RCOL2_02.05.05-1	Figures 2.5.5-213	-	Response to RAI No. 19	Removed references 2.5-425 and 2.5-427	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
	Through 2.5.5-216		Luminant Letter no. TXNB- TXNB-09059 Date 10/28/2009		
RCOL2_02.03.04-1	2.3.4.2	2.3-42	Response to RAI No. 72 Luminant Letter No. TXNB-09063 Date 11/11/2009	Revised to provide updated text, including a reference to the US-APWR DCD parameters justifying the conservative assumptions.	-
RCOL2_02.03.04-2	2.3.4.2	2.3-43	Response to RAI No. 72 Luminant Letter No. TXNB-09063 Date 11/11/2009	Revised to indicate the x/Q values include a 10 % margin.	-
RCOL2_02.03.04-3	2.3.4.1	2.3-39	Response to RAI No. 72 Luminant Letter No. TXNB-09063 Date 11/11/2009	Revised to clarify the years of data used in the accident x/Q	-
RCOL2_02.04-1	2.4.1 2.4.2 2.4.3 2.4.4 2.4.5 2.4.6 2.4.7 2.4.8	2.4-2 2.4-14 2.4-20 2.4-26 2.4-32 2.3-34 2.4-35 2.4-37	Response to RAI No.95 Luminant Letter No. TXNB-09064 Date 11/11/2009	Revised the introductory sentence to remove "Replace the content" with "Add the following at the end" and deleted the last portion of the sentence "with the following."	-
RCOL2_02.03.04-4	Table 2.0-1R Table 2.3-338 Table 2.3-339	2.0-4 Through 2.0-7 2.3-240 Through 2.3-245 2.3-246 Through 2.3-245	Response to RAI No. 72 Luminant Letter No. TXNB-09063 Date 11/11/2009	Revised to reflect a more precise location for the main control room receptors.	-
RCOL2_02.04.07-2	2.4.7	2.4-36	Response to RAI No.104 Luminant Letter	Reference numbers 2.4-269 and 2.4-270 were changed to 2.4-	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
			No. TXNB-09067 Date 11/13/2009	271 and 2.4-272.	
RCOL2_02.04.07-2	2.4.7	2.4-36	Response to RAI No.104 Luminant Letter No. TXNB-09067 Date 11/13/2009	Revised to clarify coincident wind wave and to be consistent with FSAR Subsection 2.4.3.6.	-
RCOL2_02.04.04-4	2.4.4.1	2.4-27	Response to RAI No. 111 Luminant Letter no.TXNB-09067 Date 11/13/2009	Added text to clarify assumption that reservoirs are at normal water surface elevations with no turbine discharges.	-
RCOL2_02.02.03-7	2.2.3.1	2.2-11	Response to RAI No.32 Luminant Letter No. TXNB-09072 Date 11/18/2009	Added "and radionuclide releases at adjacent units."	-
RCOL2_02.02.03-7	2.2.3.1.7	2.2-20 2.2-11	Response to RAI No.32 Luminant Letter No. TXNB-09072 Date 11/18/2009	Added subsection to provide information on radiological releases.	-
CTS-00916	Table 2.0-1R (Sheet 11 of 12)	2.0-12	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Revised typographical error	-
CTS-00916	2.5.2.5 2.5.2.5.1	2.5-114 2.5-115 2.5-116	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Revised typographical error	-
RCOL2_03.07.02-1	2.5.2.5.2.1	2.5-116	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Changed "new EPRI" to "2004 EPRI" in the first paragraph.	-
RCOL2_03.07.02-1	2.5.2.5.2.1	2.5-117	Response to RAI No. 60 Luminant Letter	Changed "Vs ± Variability values" to "Vs ±1 sigma"	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
			no.TXNB-09073 Date 11/24/2009	Variability values" in the third paragraph.	
CTS-00916	2.5.2.5.2.1	2.5-117	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Revised typographical error	-
RCOL2_03.07.02-5	2.5.2.5.2.1	2.5-117	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added "(strain-independent)" after "linearly" in the fourth paragraph. Correct typo in fourth paragraph. Add sensitivity study for strain-dependent modulus in the fourth paragraph.	-
RCOL2_03.07.02-1	2.5.2.5.2.1	2.5-119	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Changed description for the peak strain in the soil column in the 6 through 8 paragraphs.	-
CTS-00916	2.5.2.5.2.1	2.5-120	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Revised typographical error	-
CTS-00916	2.5.2.6.1	2.5-120	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Revised typographical error	-
RCOL2_03.07.02-1	2.5.2.6.1.1	2.5.121	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Changed description for horizontal GMRS spectrum in the 1 and 7 through 11 paragraphs.	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-00916	2.5.2.6.1.1 2.5.2.6.1.2	2.5-122 2.5-123 2.5-123 2.5-124	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Revised typographical error	-
RCOL2_03.07.02-1	2.5.2.6.2	2.5-126	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added description for Foundation Input Response Spectrum in the 8 and 9 paragraphs.	-
CTS-00916	2.5.2.6.2	2.5-126	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Revised typographical error	-
RCOL2_03.07.02-1	Figure 2.5.2-253	-	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added Figures for maximum strain for the 4 cases. 1. 500 ft of GMRS/FIRS1 profiles 1×10^{-5} 2. 500 ft of GMRS/FIRS1 profiles 1×10^{-6} 3. 50 ft of FIRS4 profiles 1×10^{-5} 4. 50 ft of FIRS4 profiles 1×10^{-6}	-
RCOL2-03.08.04-43	2.5.4.5.4	2.5-190	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the description for the fill.	-
RCOL2_02.05.02-16 S01	2.5.2.4.4 2.5.2.5	2.5-112 2.5-113 2.5-115	Response to RAI No. 11 Luminant Letter no.TXNB-09084 Date 12/14/2009	Removed text after words "CAV filter."and Added Meers Fault to discussion	-
CTS-01098	2.5.2.5.1	2.5-115 2.5-116	Response to RAI No. 11 Luminant Letter no.TXNB-09084 Date 12/14/2009	Word "Uncertainty was corrected to "Uncertainty"	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_02.05.02-16 S01	2.5.2.5.2.1	2.5-116	Response to RAI No. 11 Luminant Letter no.TXNB-09084 Date 12/14/2009	Removed multiple of before "60 synthetic profiles"	-
RCOL2_02.05.02-16 S01	2.5.2.6.1.1	2.5-121	Response to RAI No. 11 Luminant Letter no.TXNB-09084 Date 12/14/2009	Removed words "the NRC standard"	-
RCOL2_02.05.02-16 S01	2.5.2.6.1.1	2.5-123	Response to RAI No. 11 Luminant Letter no.TXNB-09084 Date 12/14/2009	Word "inside was corrected to "in site" Last 3 paragraphs of the section were revised, second to last paragraph was removed	-
CTS-01098	2.5.2.6.1.1	2.5-123	Response to RAI No. 11 Luminant Letter no.TXNB-09084 Date 12/14/2009	Word "was" was corrected to "is"	-
RCOL2_02.05.02-16 S01	2.5.2.6.1.2	2.5-124	Response to RAI No. 11 Luminant Letter no.TXNB-09084 Date 12/14/2009	Figure number was updated from 233 to 234	-
RCOL2_02.05.02-16 S01	2.5.2.6.2	2.5-126	Response to RAI No. 11 Luminant Letter no.TXNB-09084 Date 12/14/2009	Removed text on FIRS spectra	-
CTS-01098	Table 2.5.2-230 Through Table 2.5.2-237	2.5-343 Through 2.5-351	Response to RAI No. 11 Luminant Letter no.TXNB-09084 Date 12/14/2009	Tables were updated due to calculation revision.	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_02.05.02-16 S01	Figures 2.5.2-215 through 2.5.2-226 Figures 2.5.2-229 through 2.5.2-231 Figures 2.5.2-233 through 2.5.2-239 Figures 2.5.2-246 through 2.5.2-251 Figure 3.7-201	-	Response to RAI No. 11 Luminant Letter no.TXNB-09084 Date 12/14/2009	Figures were updated due to calculation revision	
CTS-01092	2.2.2.7.1	2.2-9	Correction	Corrected reference notation from (Reference 2.2-229) to (Reference 2.2-233) in the sentence that reads: "As of 2007, the airport had approximately 32,850 aircraft..." and corrected reference notation from (Reference 2.2-230) to (Reference 2.2-235) in the sentence that reads: "As of 2006, the airport had approximately 58,400 aircraft..."	0.

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-01092	2.2.5	2.2-24	Correction	Added reference citations to account for the reference notations in Subsection 2.2.2.7.1 and revised current reference numbers: 2.2-229 to 2.2-233; 2.2-230 to 2.2-235 and 2.2-231 to 2.2-337. Reference citations added include: 2.2-229 through 2.2-232; 2.2-234; and 2.2-236	0
CTS-01093	2.4.12.2.4 2.4.13.3	2.4-52 2.4-67	Correction	Corrected years from "August 2007 to February 2007" to "August 2007 to February 2008."	0

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(Reference 2.2-204). There have been no fatal aircraft accidents in the 5-mi radius of CPNPP in the last 20 yr. There have been four nonfatal accidents associated with Granbury in the last 10 years. (Reference 2.2-205)

Granbury Municipal Airport is the only public airport within 10 mi of the site. The reported average operations of 73 per day is well below the conservative threshold of $500D^2$ operations per year, where the variable D represents the distance in miles from the sites. There are no airports within the region that exceed the $1000D^2$ criterion.

Below are some predominant airports of interest outside 10 miles that do not exceed the $1000 D^2$ criterion:

Cleburne Municipal Airport is a public, noncommercial airport located 29 mi east of the site. As of 2007, the airport had approximately 32,850 aircraft operations per year (Reference ~~2.2-2292~~ 2.2-233). There have been no fatal airplane accidents in the Cleburne area in the last 10 years. However, four nonfatal accidents have been reported during the same time period. (Reference 2.2-230) | CTS-01092

Fort Worth Spinks Airport is a public, noncommercial airport located 33 mi northeast of the site. As of 2006, the airport had approximately 58,400 aircraft operations per year (Reference ~~2.2-2302~~ 2.2-235). There have been no fatal accidents in the Burleson area in the last 10 years. There have been two nonfatal accidents during the same time period (Reference 2.2-231). | CTS-01092

Fort Worth Meacham International Airport is a public airport located 44 mi northeast of the site. As of 2007, the airport reported approximately 98,915 operations per year (Reference 2.2-234). There have been two fatal accidents associated with Fort Worth in the last 10 years. An additional 30 nonfatal accidents took place in the Fort Worth area during the same time frame (Reference 2.2-229).

Arlington Municipal Airport is a public, noncommercial airport located 48 mi northeast of the site. As of 2006, the airport reported approximately 151,475 operations per year (Reference 2.2-236). There have been no fatal accidents associated with the Arlington area in the last 10 years. Three nonfatal accidents took place during the same time frame (Reference 2.2-232).

2.2.2.7.2 Airways

There are no airways that pass within 5 mi of CPNPP as shown in Figure 2.2-203. The centerlines of two low-altitude flight lines pass within 10 mi of CPNPP. These routes, also known as Victor air routes, are primarily flown by general aviation aircraft. The routes generally have a width of 8 nautical mi, and occupy the airspace between 18,000 ft and the floor of controlled airspace (700 ft to 1200 ft). Victor air route V18-94 tracks in an east-west manner and passes 9.7 mi south of

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URL: http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=10023.
(Accessed July 26, 2008).

- 2.2-224 Occupational Safety & Health Administration (OSHA). 2006. U.S. Department of Labor. "Lead – 1910.1025." Available URL: http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=10030. (Accessed July 26, 2008).
- 2.2-225 Seton. 2007. The MSDS/Hazard Communication Library. "Material Safety Data Sheet: B-12 Chemtool Carburetor Choke Cleaner (Aerosol)." Available URL: <http://www.setonresourcecenter.com/msds/docs/wcd00007/wcd007bb.htm>. (Accessed December 19, 2007).
- 2.2-226 Occupational Safety & Health Administration (OSHA). 2006. U.S. Department of Labor. "Chemical Sampling Information: Trimethylbenzene (mixed isomers)." Available URL: http://www.osha.gov/dts/chemicalsampling/data/CH_273880.html. (Accessed July 26, 2008).
- 2.2-227 Occupational Safety & Health Administration (OSHA). 2006. U.S. Department of Labor. "Methylene Chloride – 1910.1052." Available URL: http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=10094. (Accessed July 28, 2008).
- 2.2-228 United States Gypsum Company (USG). 2003. "Material Safety Data Sheet: USG Sheetrock Brand All Purpose Joint Compound." Available URL: <http://www.usg.com/DocsAndMedia.do?cat=MSDS>. (Accessed January 4, 2008).
- 2.2-229 National Transportation Safety Board (NTSB). 2008. "Aviation Accident Database Query. Fort Worth 1990. 2008 Available URL: <http://www.nts.gov/itsb/query.asap> (Accessed July 26, 2008).
- 2.2-230 National Transportation Safety Board (NTSB). 2008. "Aviation Accident Database Query. Cleburne 1990. 2008 Available URL: <http://www.nts.gov/itsb/query.asap> (Accessed July 26, 2008).
- 2.2-231 National Transportation Safety Board (NTSB). 2008. "Aviation Accident Database Query. Burleson 1990. 2008 Available URL: <http://www.nts.gov/itsb/query.asap> (Accessed July 26, 2008).
- 2.2-232 National Transportation Safety Board (NTSB). 2008. "Aviation Accident Database Query. Arlington 1990. 2008 Available URL: <http://www.nts.gov/itsb/query.asap> (Accessed July 26, 2008).

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2.2-233 AirNav. 2008. "Cleburne Municipal Airport." Available URL: <http://www.airnav.com/airport/FWS>. (Accessed February 27, 2008).

2.2-234 AirNav. 2008. "Fort Worth Meacham International Airport."
Available URL: <http://www.airnav.com/airport/FTW>. (Accessed February 27, 2008).

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2.2-235 AirNav. 2008. "Fort Worth Spinks Airport." Available URL: <http://www.airnav.com/airport/FWS>. (Accessed July 27, 2008).

2.2-236 AirNav. 2008. "Arlington Municipal Airport." Available URL: <http://www.airnav.com/airport/GKY>. (Accessed February 27, 2008).

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2.2-237 Somervell County Water District (SCWD). 2008. "Phase I – Wheeler Branch Dam and Paluxy River Channel." Available URL: http://scwd.us/?page_id=9. (Accessed July 25, 2008).

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groundwater and groundwater trends in the Glen Rose Formation was presented in Subsection 2.4.12.2.3.

Water Levels and Potentiometric Elevations in the Regolith (A – Zone)

Groundwater steadily increased from December 2006 to July 2007. Water levels remained constant or decreased slightly from August 2007 to February 2007. Hydrographs from the regolith/fill material wells (A-zone) indicate some slight fluctuations that may be tied to seasonal rainfall. In some of the A-zone wells, there appears to be a slight increase in water levels that may correspond to the spring seasons but there is no significant correlation in the A-zone wells across the site in response to rainfall.

CTS-01093

Monitoring well MW-1211a was installed on the northeast portion of CPNPP Units 3 and 4 in undifferentiated fill material. Water levels in this monitoring well were consistent with the normal pool elevation of SCR (775 ft msl) indicating possible hydraulic communication between the former drainage swale and SCR.

Representative potentiometric surface maps for the four quarters (Figure 2.4.12-210 [Sheets 1 through 4]) show that the general shallow (A-Zone) groundwater movement in the vicinity of CPNPP Units 3 and 4 mimics the surface topography, with an apparent groundwater divide along the long axis of the site peninsula. On the northern portion of the peninsula, a northerly flow toward SCR is observed, and a southerly flow toward the Safe Shutdown Impoundment (SSI) is observed on the south side of the site peninsula.

Water Levels and Potentiometric Elevations in the Shallow Bedrock (B – Zone)

Nine of the 16 wells completed in this zone contained no, or negligible, amounts of water for up to eight months before exhibiting measurable water (greater than 1 ft). The majority of these wells exhibited a slow to steady recharge, with no indication of reliable equilibrium conditions over the monitoring period.

Six monitoring wells screened in shallow bedrock exhibited no, or slight, changes in water level over the monitoring period. One of these wells (MW-1211b) was installed on the northeast portion of CPNPP Units 3 and 4 in the undifferentiated fill material. During installation, an effort was made to install this well in bedrock; however, due to the thickness and nature of the undifferentiated fill material, the boring was terminated at the bedrock surface (approximately 75 ft below ground surface [bgs]). Water level measurements for this well were consistent with those of regolith monitoring well MW-1211a and the normal pool elevation of SCR over the monitoring period.

One monitoring well screened in the shallow bedrock exhibited variable water levels, with no indication of reliable equilibrium conditions when compared to other wells with similar screened zones. Monitoring well MW-1217b, located near the center point of CPNPP Unit 3 exhibited an approximate 15 ft increase in water level from December 2006 to March 2007 followed by a decline of 5 ft through

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suggesting water levels are related to infiltration from the overlying soils and not actual groundwater. Hydrographs from the regolith/fill material wells (A-zone) indicate some slight fluctuations that may be tied to seasonal rainfall. In some of the A-zone wells there appears to be a slight increase in water levels that may correspond to the spring seasons but there is no significant correlation in the A-zone wells across the site in response to rainfall.

The water levels in the regolith/fill material and the upper zone of the Glen Rose Formation (A-zone and B-zone, respectively) were attributed to surface run-off and were not a true measure of permanent groundwater in the formation. Groundwater steadily increased from December 2006 to July 2007. Water levels remained constant or decreased slightly from August 2007 to February 2007~~8~~. | CTS-01093

Nine of the 16 wells completed in Shallow Bedrock (B – Zone) contained no, or negligible, amounts of water for up to eight months before exhibiting measurable water (greater than 1 ft). The majority of these wells exhibited a slow to steady recharge with no indication of reliable equilibrium conditions over the monitoring period.

Of the 13 groundwater monitoring wells screened in Bedrock (C-Zone), eight contained negligible to amounts of water over the monitoring period and six exhibited a slow to steady recharge with no indication of reliable equilibrium conditions.

The Grading and Drainage Plan shown on Figure 2.4-202 was developed based upon the effects of local intense precipitation, as discussed in Subsection 2.4.2.3, and aids in moving precipitation away from structures and buildings considered in the plausible pathways for the liquid effluent release analysis.

Rainfall infiltration is not considered a contributing factor affecting the source term release pathway. No dilution effects of groundwater or rainfall are considered in the liquid effluent release analysis.

2.4.13.4 Vertical Liquid Effluent Release Pathway

Both SCR and the Units 1 and 2 restricted potable water supplies wells were considered as receptors. The Units 1 and 2 potable water supply wells are restricted access potable water supply wells completed in the Twin Mountains Formation aquifer and approximately 1990 feet south of the Unit 3 A/B. The nearest unrestricted potable water supplies completed in the Glen Rose Formation are approximately 4 miles south of the Unit 3 A/B, and the nearest unrestricted potable water supply wells completed in the Twin Mountains Formation is approximately 1 mi west of the Unit 4 A/B (see FSAR Subsection 2.4.12.3.2 and Figures 2.4.12-204 and 2.4.12-206). The restricted potable water supply wells in Units 1 and 2 (see Figure 2.4.1-213) were not considered as possible receptors based upon the following:

Chapter 3

Chapter 3 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2-03.05.01.05-01	3.5.1.5	3.5-2	Response to RAI No. 33 Luminant Letter no.TXNB-09054 Date 10/15/2009	Change paragraph in 3.5.1.5 to clarify no missile hazard from unit 1 and 2.	-
RCOL2_03.02.01-02	Table 3.2-201 (Sheet 1 of 3)	3.2-3	Editorial correction Response to RAI No. 47 Luminant Letter no.TXNB-09055 Date 10/19/2009	Change Valve IDs "ESW-HVC-2000" to "ESW-HCV-2000"	-
RCOL2_03.07.01-2	3.7.1.1	3.7-2	Response to RAI No. 55 Luminant Letter no.TXNB-09058 Date 10/26/2009	Revise description to clarify that the calculation of FIRS and GMRS is outlined in Subsection 2.5.2.5 and 2.5.2.6.	-
RCOL2_03.07.01-4	Table 3LL-2 Table 3LL-3	3LL-6 3LL-7	Response to RAI No. 55 Luminant Letter no.TXNB-09058 Date 10/26/2009	Editorial change: Change "0.4" to "0.04" in damping ratio.	-
RCOL2_03.09.06-6	Table 3.9-203 (Sheet 2 through 6 of 6)	3.9-8 through 3.9-12	Response to RAI No. 57 Luminant Letter no.TXNB-09058 Date 10/26/2009	Clarification of the column "Valve type".	-
RCOL2_03.09.06-7	Table 3.9-203 (Sheet 2 through 6 of 6)	3.9-8 through 3.9-12	Response to RAI No. 57 Luminant Letter no.TXNB-09058 Date 10/26/2009	Clarification of the columns "Inservice Testing Type and Frequency and "IST Note".	-
DCD-3.9.6-13	3.9.6.3.1 3.9.9	3.9-3 3.9-4	Response to DCD RAI No.288 MHI Letter no. UAP-HF-09245 Date 5/25/2009 Response to RAI No. 57 Luminant Letter no.TXNB-09058 Date 10/26/2009	Delete COL item 3.9(9)	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_03.07.03-1	3KK.5	3KK-7	Response to RAI No. 64 Luminant Letter no.TXNB-09060 Date 10/30/2009	Add reference to 3KK-9	-
RCOL2_03.07.03-2	3KK.2	3KK-3 3KK-4 3KK-5	Response to RAI No. 64 Luminant Letter no.TXNB-09060 Date 10/30/2009	Delete the last paragraph and provide further detailed explanation	-
RCOL2_03.07.03-2	Table 3KK-7	3KK-13	Response to RAI No. 64 Luminant Letter no.TXNB-09060 Date 10/30/2009	Add Table 3KK-7	-
RCOL2_03.07.03-2	Figure 3KK-4	3KK-30	Response to RAI No. 64 Luminant Letter no.TXNB-09060 Date 10/30/2009	Add Figure 3KK-4	-
RCOL2_03.03.02-3	3.3.1.2	3.3-1 3.3-2	Response to RAI No. 66 Luminant Letter no.TXNB-09061 Date 11/05/2009	Add description to clarify the applied wind forces for UHSRS	-
RCOL2_03.03.02-6	3.3.2.2.2	3.3-2	Response to RAI No. 66 Luminant Letter no. TXNB-09061 Date 11/05/2009	Add description to clarify the tornado atmospheric forces for UHS basins and cooling tower enclosure.	-
RCOL2_03.03.02-4	3.3.1.2 3.3.2.2.2 3.3.2.2.4	3.3-2 3.3-3	Response to RAI No. 66 Luminant Letter no. TXNB-09061 Date 11/05/2009	Add description to clarify the tornado atmospheric forces for the portions of the duct bank and chases.	-
RCOL2_03.11-4	3.11	3.11-1	Response to RAI No. 73 Luminant Letter no.TXNB-09063 Date 11/11/2009	Added "electrical and mechanical" before EQ records in the first sentence for CP COL 3.11 (1).	-
RCOL2_03.11-5	3.11	3.11-1	Response to RAI No. 73 Luminant Letter no.TXNB-09063 Date 11/11/2009	Added "The features of the US-APWR Equipment Environmental Qualification Program Technical Report MUAP-08015	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
				(Reference 3.11-3) is included in the CPNPP Units 3 and 4 EQ Program." after the last sentence for CP COL 3.11(4).	
RCOL2_03.11-3	3.11.1.1	3.11-2	Response to RAI No. 73 Luminant Letter no.TXNB-09063 Date 11/11/2009	Added "The provision in the US-APWR DCD for environmental qualification (EQ) of mechanical equipment will be applied to the plant-specific systems." after the last sentence for CP COL 3.11(5).	-
RCOL2_03.11-6	3.11.1.2	3.11-2	Response to RAI No. 73 Luminant Letter no.TXNB-09063 Date 11/11/2009	Replaced the 2nd paragraph with "Plant Specific EQ parameters are documented in the corresponding equipment specifications, drawings, procedures, instructions, and qualification packages" for CP COL 3.11(9).	-
RCOL2_03.11-8	3.11.4	3.11-3	Response to RAI No. 73 Luminant Letter no.TXNB-09063 Date 11/11/2009	Added "as described in Technical Report MUAP-08015 (Reference 3.11-3)" in the last sentence for CP COL 3.11(6).	-
RCOL2_03.11-8	3.11.5	3.11-3	Response to RAI No. 73 Luminant Letter no.TXNB-09063 Date 11/11/2009	Added "as described in Technical Report MUAP-08015 (Reference 3.11-3)" in the last sentence for CP COL 3.11(7).	-
RCOL2_03.11-8	3.11.6	3.11-3	Response to RAI No. 73 Luminant Letter no.TXNB-09063 Date 11/11/2009	Added "as described in Technical Report MUAP-08015 (Reference 3.11-3)" in the last sentence for CP COL 3.11(8).	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_03.05.02-1	3.5.2	3.5-4	Response to RAI No. 80 Luminant Letter no. TXNB-09065 Date 11/13/2009	Changed the second paragraph to clarify the basis for externally generated missiles.	-
RCOL2_03.09.03-2	Table 3.9-201	3.9-5	Response to RAI No. 84 Luminant Letter no. TXNB-09065 Date 11/13/2009	Revised Table 3.9-201 to clarify the UHS transfer pump operation and be consistent with the DCD Table 3.9-7.	-
RCOL2_03.11-15	3.11	3.11-1	Response to RAI No. 97 Luminant Letter no. TXNB-09064 Date 11/11/2009	Replaced "Reference 3.11-3" with "the operational EQ program" in the 3rd sentence of 2nd paragraph for CP COL 3.11(4).	-
RCOL2_03.11-16	3.11.1.1	3.11-2	Response to RAI No. 97 Luminant Letter no. TXNB-09064 Date 11/11/2009	Replaced "or" with "and" in the 2nd sentence of 2nd paragraph for CP COL 3.11(5).	-
RCOL2_03.11-13	3.11.3	3.11-2	Response to RAI No. 97 Luminant Letter no. TXNB-09064 Date 11/11/2009	Deleted "site specific" and added "The COL applicant has a responsibility to maintain the project records until issuance of the COL" after the 2nd sentence of 2nd paragraph for CP COL 3.11(2).	-
RCOL2_03.08.01-5	3.8.1.6 3.8.4.7	3.8-1 3.8-10	Response to RAI No. 106 Luminant Letter no. TXNB-09067 Date 11/13/2009	Change paragraph in COL 3.8(7) and 3.8(22) to clarify the monitoring for degradation by aggressive ground water.	-
RCOL2_03.08.01-6	3.8.1.7	3.8-1 3.8-2	Response to RAI No. 106 Luminant Letter no. TXNB-09067 Date 11/13/2009	Add sentences into Subsection 3.8.1.7 to clarify the description of Prestressed Concrete	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
				Containment Vessel ISI and IST.	
RCOL2_03.08-05-1	3.8.5.1.3.1	3.8-11	Response to RAI No. 115 Luminant Letter no. TXNB-09067 Date 11/13/2009	To clarify the usage of steel reinforcement for fill concrete.	-
RCOL2_03.08-05-4	3.8.5.5	3.8-12	Response to RAI No. 115 Luminant Letter no. TXNB-09067 Date 11/13/2009	Clarification of seismic Category I structure.	-
RCOL2_03.08-05-5	3.8.5.5 Table 3.8-202	3.8-12 3.8-16	Response to RAI No. 115 Luminant Letter no. TXNB-09067 Date 11/13/2009	Add description and table for the calculation of bearing capacity.	-
RCOL2_03.08-05-3	3.8.5.5 Table 3.8-203	3.8-12 3.8-17	Response to RAI No. 115 Luminant Letter no. TXNB-09067 Date 11/13/2009	Add description and table for factor of safety for overturning, sliding and flotation.	-
RCOL2_03.07.02-1	3.7.1.1	3.7-2	Response to RAI No. 60 Luminant Letter no. TXNB-09073 Date 11/24/2009	Revised section number to break down the reference section number	-
RCOL2_03.07.02-9	3.7.2.4.1	3.7-10	Response to RAI No. 60 Luminant Letter no. TXNB-09073 Date 11/24/2009	Added description for envelopment of site-specific variation in T/B and A/B in the 15 th paragraph.	-
RCOL2_03.07.02-6	3.7.2.4.1	3.7-10	Response to RAI No. 60 Luminant Letter no. TXNB-09073 Date 11/24/2009	Added description for envelopment of site-specific variation in PS/B in the last paragraph.	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_03.07.02-16	3KK.1 3KK.2	3KK-1 3KK-2 3KK-3	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added description for SSI analysis	-
RCOL2_03.07.02-11	3KK.2	3KK-3 3KK-6	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added description for SSI analysis	-
RCOL2_03.07.02-16	3KK.3	3KK-7 3KK-8	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added description for SSI analysis in third and fifth paragraph.	-
RCOL2_03.07.02-15	3KK.4	3KK-8	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Changed description for ISRS.	-
RCOL2_03.07.02-11	Table 3KK-8	3KK-17	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added Table for the summary of analysis	-
RCOL2_03.07.02-16	Table 3KK-9	3KK-18	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added Table for the comparison of ANSIS and SSI	-
RCOL2_03.07.02-16	3LL.1 3LL.2	3LL-1	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Changed description for SSI analysis	-
RCOL2_03.07.02-11	3LL.2	3LL-2	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Changed description for SSI analysis in sixth paragraph.	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_03.07.02-16	3LL.2	3LL-2 3LL-3	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added description for SSI analysis in seventh through tenth paragraph.	-
RCOL2_03.07.02-11	3LL.2	3LL-3 3LL-4	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Changed description for SSI analysis in eighth through 15 th paragraph.	-
RCOL2_03.07.02-16	3LL.2	3LL-4	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added description for SSI analysis in ninth paragraph.	-
RCOL2_03.07.02-13	3LL.3 3LL.4	3LL-5 3LL-5 3LL-6	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Changed description for SSI analysis	-
RCOL2_03.07.02-15	3LL.4	3LL-6	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Deleted description for peak clipping	-
RCOL2_03.07.02-12	Table 3LL-6 Table 3LL-7 Table 3LL-8	3LL-12 3LL-13 3LL-14	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Changed description for note 1.	-
RCOL2_03.07.02-13	Table 3LL-9 Table 3LL-10 Table 3LL-11	3LL-15 3LL-16 3LL-17	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Changed description for note 1.	-
RCOL2_03.07.02-11	Table 3LL-14	3LL-20	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added Table for the summary of SSI analysis	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_03.07.02-16	Table 3LL-15	3LL-21	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added table for the major structural modes of Tunnel Segment 2 of ESWPT.	-
RCOL2_03.07.02-16	3MM.1 3MM.2	3MM-1 3MM-2	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added description for SSI analysis	-
RCOL2_03.07.02-11	3MM.2	3MM-3	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Changed description for SSI analysis in 8 th paragraph.	-
RCOL2_03.07.02-16	3MM.2	3MM-3	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added description for SSI analysis in 9 th through 15 th paragraphs.	-
RCOL2_03.07.02-11	3MM.2	3MM-4	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Changed description for SSI analysis in 17 th through 20 th paragraphs.	-
RCOL2_03.07.02-11	3MM.3	3MM-5	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Changed description for SSI analysis in 1 and 2 paragraphs.	-
RCOL2_03.07.02-15	3MM.4	3MM-6	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Deleted description for peak clipping	-
RCOL2_03.07.02-14	Table 3MM-6	3MM-12	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Changed description for note 1.	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_03.07.02-11	Table 3MM-8	3MM-14	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added Table for the summary of SSI analysis	-
RCOL2_03.07.02-16	Table 3MM-9	3MM-15	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added table for the major structural modes of PSFSV.	-
RCOL2_03.07.02-5	3NN.2	3NN-2	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Changed the description for subgrade properties.	-
RCOL2_03.07.02-2	3NN.2	3NN-2 3NN-3	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added description for backfill properties	-
RCOL2_03.07.02-8	3NN.4 Table 3NN-12 Table 3NN-13 Table 3NN-14	3NN-6 3NN-17 3NN-18 3NN-19	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added description and tables for maximum acceleration	-
RCOL2_03.07.02-2	Table 3NN-16	3NN-21	Response to RAI No. 60 Luminant Letter no.TXNB-09073 Date 11/24/2009	Added table for backfill properties	-
RCOL2_03.08.04-2	3.8.4.1.3	3.8-3	Response to RAI No. 108 Luminant Letter no.TXNB-09078 Date 12/10/2009	Revised to incorporate a site-specific specification for the expansion/separation joint	-
RCOL2_03.08.04-1	3.8.4.1.3.1	3.8-4 3.8-5	Response to RAI No. 108 Luminant Letter no.TXNB-09078 Date 12/10/2009	Revised to add more discussion concerning the design of the ESWPT	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_03.08.04-2	3.8.4.1.3.2	3.8-5	Response to RAI No. 108 Luminant Letter no.TXNB-09078 Date 12/10/2009	Revised to incorporate a site-specific specification for the expansion/separation joint	-
RCOL2_03.08.04-3	3.8.4.1.3.2	3.8-6	Response to RAI No. 108 Luminant Letter no.TXNB-09078 Date 12/10/2009	Revised to incorporate an appropriate reference to the safety-related components in Table 3.2-201 that are protected from tornado missile impacts and to clarify the statement.	-
RCOL2-03.08.04-43	3NN.2 3NN.3	3NN-3 3NN-5 3NN-6	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the description for the fill.	-
RCOL2-03.08.04-51	3.7.1.3 3NN.2	3.7-6 3NN-2	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Add description for fill concrete.	-
RCOL2_03.08.04-19	3.8.4.4.3.2 3KK.2	3.8-11 3KK-7	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the description for spring model	-
RCOL2_03.08.04-32	3.8.4.4.3.2 3KK.2 3KK.3	3.8-11 3KK-6 3KK-8	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the description for soil spring model for UHSRS	-
RCOL2_03.08.04-20	3KK.1 3MM.1 3NN.1	3KK-1 3MM-1 3NN-1	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added description for input motion	-
RCOL2_03.08.04-18	3KK.2 Table 3KK-9	3KK-1 3KK-2 3KK-4 3KK-19	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added description for mesh model	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_03.08.04-21	3KK.2	3KK-2	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added description for separation joint	-
RCOL2_03.08.04-27	3KK.2	3KK-2 3KK-6	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added explanation not performing analysis including adjacent structure.	-
RCOL2_03.08.04-23	3KK.2	3KK-2	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added reference to Appendix 3NN	-
RCOL2_03.08.04-24	3KK.2	3KK-3	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added description for fill considered in the analysis	-
RCOL2_03.08.04-25	3KK.2	3KK-4	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Add description of modeling for basemat and concrete fill.	-
RCOL2_03.08.04-26	3KK.2 3KK.5	3KK-4 3KK-10	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the technical basis and the reference of equation for the cracked out-of plane flexural stiffness.	-
RCOL2_03.08.04-31	3KK.2 3KK.3	3KK-7 3KK-8	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the design input response spectra	-
RCOL2_03.08.04-28	3KK.3	3KK-7 3KK-8	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the base shear and moment demands on walls.	-
RCOL2_03.08.04-30	3KK.3	3KK-8	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Provided the technical basis for the factor.	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_03.08.04-33	3KK.4 3LL.4 3MM.4	3KK-9 3LL-6 3MM-6	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the effect of out-of-plane wall flexibility	-
RCOL2_03.08.04-35	3LL.1	3LL-1	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added description of wave effect.	-
RCOL2_03.08.04-36	3LL.2	3LL-1	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the separation from the adjacent structure.	-
RCOL2_03.08.04-40	3LL.2	3LL-1 3LL-3	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the soil considered in the SSI analysis.	-
RCOL2_03.08.04-37	3LL.2	3LL-2	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the shell elements connected to brick elements	-
RCOL2_03.08.04-34	3LL.2	3LL-2 through 3LL-5	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the soil model	-
RCOL2_03.08.04-44	3LL.2	3LL-4	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the response spectra analysis	-
RCOL2_03.08.04-41	3LL.2 3LL.3	3LL-5	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the combination of cross-directional contribution	-
RCOL2_03.08.04-42	Table 3LL-1	3LL-8	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added Note 2 in Table 3LL-1.	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_03.08.04-45	Table 3LL-13	3LL-20	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added allowable bearing capacity in Table 3LL-13	-
RCOL2_03.08.04-47	3MM.2	3MM-2	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the modeling of fuel oil tank	-
RCOL2_03.08.04-48	3MM.2	3MM-3	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Provide detail information for the modeling of backfill	-
RCOL2_03.08.04-46	3MM.2	3MM-5	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the soil pressure	-
RCOL2_03.08.04-49	3MM.3 Figure 3MM-2	3MM-6 3MM-19	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the symmetrical load distribution	-
RCOL2_03.08.04-50	3MM.4	3MM-6	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarify the basis of the seismic design	-
RCOL2_03.08.04-60	3NN	3NN-I 3NN-1	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Corrected the typographical error in the title of the appendix	-
RCOL2_03.08.04-52	3NN.2 Table 3NN-1	3NN-2 3NN-10	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added the description for backfill and corrected the abbreviation of Upper Bound	-
RCOL2_03.08.04-22	3NN.2	3NN-3	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added description for backfill properties	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_03.08.04-53	3NN.2 3NN.3	3NN-3 3NN-5 3NN-6	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added description for backfill properties	-
RCOL2_03.08.04-54	3NN.2	3NN-3 3NN-4	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Move the description for time step in SSI analysis and revised the description for the backfill properties in SSI analysis.	-
RCOL2_03.08.04-57	3NN.3	3NN-4 3NN-5	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added description for modeling of rigid link	-
RCOL2_03.08.04-58	3NN.3 Table 3NN-6	3NN-5 3NN-14	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Clarified the description for Table 3NN-6	-
RCOL2_03.08.04-56	3NN.3	3NN-7	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added description for transfer function	-
RCOL2_03.08.04-55	3NN.4	3NN-8	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added the description for the cutoff frequency.	-
CTS- 01090	Table 3NN-2	3NN-10	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Corrected the typographical error in the title of Table 3NN-2	-
RCOL2_03.08.04-59	Table 3NN-12 Table 3NN-13 Table 3NN-14	3NN-19 through 3NN-24	Response to RAI No. 122 Luminant Letter no.TXNB-09085 Date 12/14/2009	Added the enveloped acceleration of COL and DCD	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_09.02.05-02	Table 3.2-201 (Sheet 2 of 3)	3.2-4	Response to RAI No. 121 Luminant Letter no.TXNB-09081 Date 12/16/2009	Added a line item under 2. UHS, "UHS basin makeup piping and valves" and associated information.	-
RCOL2_09.02.05-03	3.8.4.1.3.2	3.8-5	Response to RAI No. 121 Luminant Letter no.TXNB-09081 Date 12/16/2009	Added description to the second paragraph on the cementitious membrane on the basin walls to minimize water seepage.	-
RCOL2_09.02.05-03	3.8.4.1.3.2	3.8-6	Response to RAI No. 121 Luminant Letter no.TXNB-09081 Date 12/16/2009	Added description to the end of the ninth paragraph that tornado differential pressure was considered in the design of fan motors and associated equipment.	-
RCOL2_09.02.05-03	3.8.4.1.3.2	3.8-6	Response to RAI No. 121 Luminant Letter no.TXNB-09081 Date 12/16/2009	Added tenth paragraph to provide description that the exterior parts of the cooling tower enclosure are designed to prevent becoming full penetration tornado missiles.	-
RCOL2_09.02.05-04	Table 3.7.1-3R	3.7-16	Response to RAI No. 121 Luminant Letter no.TXNB-09081 Date 12/16/2009	Revised the fifth note to say, "Each mat foundation supports one UHS basin with one pool."	-
RCOL2_09.04.05-04	3.8.4.1.3.2	3.8-6	Response to RAI No. 123 Luminant Letter no.TXNB-09081 Date 12/16/2009	Added seventh paragraph to provide description that tornado missile shields are provided for air intake and air outlets for the ESWS pump house HVAC.	-
RCOL2_09.04.05-06	3.5.1.1.2	3.5-1	Response to RAI No. 123 Luminant Letter no.TXNB-09081 Date 12/16/2009	Added new Subsection 3.5.1.1.2, "High-Speed Rotating Equipment"	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-01089	3.4.1.4	3.4-2	Clarification	Break down the reference section number	0
CTS-00922	3.7.1.3 3.7.4.3 Table 3.7-201 3KK.2 3KK.3 3MM.2 3LL.2	3.7-6 3.7-16 3.7-21 3KK-2 3KK-9 3MM-3 3LL-2	Clarification	Clarify the sentence to Delete "major" and breakdown the reference section number.	0
MAP-00-201	Table 3.9-202	3.9-6	The change of numbering rule of Tag number	Change Tag numbers	0
MAP-00-201	Table 3.9-203 (Sheet 5, 6 of 6)	3.9-11 3.9-12	The change of numbering rule of Tag number	Change Tag numbers	0
MAP-00-201	Table 3D-201 (Sheet 1 through 10 of 10)	3D-2 through 3D-11	The change of numbering rule of Tag number	Change Tag numbers	0

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CP COL 3.4(3) Replace the last sentence in the ninth paragraph in DCD Subsection 3.4.1.2 with the following.

Site-specific potential sources of external flooding such as the cooling tower, service water piping, or circulating water piping are not located near structures containing safety-related SSCs, with the exception of piping entering plant structures. The CWS enters only within the T/B, and any postulated pipe break is prevented from back-flowing into the safety-related R/B by watertight separation. Postulated pipe breaks near structures are prevented from entering the structures by adequate sloped site grading and drainage.

3.4.1.4 Evaluation of External Flooding

CP COL 3.4(2) Replace the last sentence in the last paragraph of DCD Subsection 3.4.1.4 with the following.

As discussed in ~~Chapter 2~~ Section 2.4, the site-specific DBFL does not exceed the maximum flood level for the standard plant design. Therefore, there are no static and/or dynamic flooding forces beyond those considered in the standard plant design. CTS-01089

3.4.2 Analysis Procedures

CP COL 3.4(6) Replace the last paragraph of DCD Subsection 3.4.2 with the following.

No site-specific physical models are used to predict prototype performance of hydraulic structures and systems, since there are no unusual design or configuration or design or operating bases involving thermal and erosion problems.

3.4.3 Combined License Information

Replace the content of DCD Subsection 3.4.3 with the following.

CP COL 3.4(1) **3.4(1)** *Site-specific design of plant grading and drainage*

This COL item is addressed in Subsection 3.4.1.2.

CP COL 3.4(2) **3.4(2)** *DBFL applicability to site*

This COL item is addressed in Subsection 3.4.1.4.

CP COL 3.4(3) **3.4(3)** *Site-specific flooding hazards from engineered features*

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Table 3.9-202

Site-Specific Pump IST Requirements

CP COL 3.9(11)

Tag No.	Description	Pump Type	ASME IST Category	Required Test				Test Frequency	Acceptance Criteria	
				Outlet Flow	Differential Pressure	Vibration	Speed			
UHS-OPP MPP-001A	A-UHS Water Transfer Pump	Vertical Line Shaft Centrifugal	B	O	-	O	N/A (constant speed induction motor)	(1)Quarterly, Required Test is conducted (2)Biennially, Comprehensive Test is conducted	Table ISTB-5221-1 in ASME OM Code-2004 is applied.	MAP-00-201
UHS-OPP MPP-001B	B-UHS Water Transfer Pump	Vertical Line Shaft Centrifugal	B	O	-	O	N/A (constant speed induction motor)	(1)Quarterly, Required Test is conducted (2)Biennially, Comprehensive Test is conducted	Table ISTB-5221-1 in ASME OM Code-2004 is applied.	MAP-00-201
UHS-OPP MPP-001C	C-UHS Water Transfer Pump	Vertical Line Shaft Centrifugal	B	O	-	O	N/A (constant speed induction motor)	(1)Quarterly, Required Test is conducted (2)Biennially, Comprehensive Test is conducted	Table ISTB-5221-1 in ASME OM Code-2004 is applied.	MAP-00-201
UHS-OPP MPP-001D	D-UHS Water Transfer Pump	Vertical Line Shaft Centrifugal	B	O	-	O	N/A (constant speed induction motor)	(1)Quarterly, Required Test is conducted (2)Biennially, Comprehensive Test is conducted	Table ISTB-5221-1 in ASME OM Code-2004 is applied.	MAP-00-201

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Table 3.9-203 (Sheet 5 of 6)

Site-Specific Valve IST Requirements

CP COL 3.9(12)

Valve Tag Number	Description	Valve Type	Safety-Related Missions	Safety Functions	ASME IST Category	Inservice Testing Type and Frequency	IST Notes
<u>ESW-HVGH</u> <u>CV-2000010</u>	A-UHS Basin Blowdown Control Valve	Remote <u>AO</u> <u>Globe</u>	Maintain Close Transfer Close	Active-to-Fail Remote Position	B	Remote Position Indication, Exercise/2 Years Exercise Full Stroke/ Cold Shutdown <u>Quarterly</u> Operability Test	6
<u>ESW-HVGH</u> <u>CV-2001011</u>	B-UHS Basin Blowdown Control Valve	Remote <u>AO</u> <u>Globe</u>	Maintain Close Transfer Close	Active-to-Fail Remote Position	B	Remote Position Indication, Exercise/2 Years Exercise Full Stroke/ Cold Shutdown <u>Quarterly</u> Operability Test	6
<u>ESW-HVGH</u> <u>CV-2002012</u>	C-UHS Basin Blowdown Control Valve	Remote <u>AO</u> <u>Globe</u>	Maintain Close Transfer Close	Active-to-Fail Remote Position	B	Remote Position Indication, Exercise/2 Years Exercise Full Stroke/ Cold Shutdown <u>Quarterly</u> Operability Test	6

RCOL2_03.0
9.06-6
RCOL2_03.0
9.06-7
MAP-00-201

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Table 3.9-203 (Sheet 6 of 6)

Site-Specific Valve IST Requirements

CP COL 3.9(12)

Valve Tag Number	Description	Valve Type	Safety-Related Missions	Safety Functions	ASME IST Category	Inservice Testing Type and Frequency	IST Notes
ESW-HVGH <u>CV-2003013</u>	D-UHS Basin Blowdown Control Valve	Remote AO <u>Globe</u>	Maintain Close Transfer Close	Active-to-Fail Remote Position	B	Remote Position Indication, Exercise/2 Years Exercise Full Stroke/ Cold Shutdown <u>Quarterly</u> Operability Test	6

RCOL2_03.0
9.06-6
RCOL2_03.0
9.06-7
MAP-00-201

Notes:

- 1) Not used.
- 2) Not used.
- 3) The check valve exercise test is performed during refueling outage. Valves in the inaccessible primary containment can not be tested during power operation. Test of valves in operating systems may cause impact of power operation. Simultaneous testing of valves in the same system group will be considered.
- 4) Not used.
- 5) Not used.
- 6) ~~Exercising these valves would stop necessary line for operation such as utilities etc. Therefore, exercise testing will be performed at cold shutdown to avoid impact on power operation.~~ Not used.
- 7) Not used.
- 8) Not used.
- 9) Not used.
- 10) Not used.
- 11) Not used.
- 12) Not used.

RCOL2_03.0
9.06-7

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CP COL 3.11(5)
CP COL 3.11(7)
CP COL 3.11(8)

Table 3D-201 (Sheet 1 of 10)

Site-Specific Environmental Qualification Equipment List

Item Num	Equipment Tag	Description	Location	Purpose	Operational Duration	Environmental Conditions	Qualification Process	Seismic Category	Comments
			PCCV, R/B, A/B, O/B, T/B, UHSRS, ESWPT	Engineered Safety Feature (ESF), Post Accident Monitoring (PAM), Other		Harsh or Mild	E=Electrical M=Mechanical	I, II, Non	
1	UHS-LT-2070010 A	A - UHS Basin Water Level	UHSRS	PAM, Other	2 wks	Mild	E	I	
2	UHS-LT-2070010 B	A - UHS Basin Water Level	UHSRS	PAM, Other	2 wks	Mild	E	I	
3	UHS-LT-2074011 A	B - UHS Basin Water Level	UHSRS	PAM, Other	2 wks	Mild	E	I	
4	UHS-LT-2074011 B	B - UHS Basin Water Level	UHSRS	PAM, Other	2 wks	Mild	E	I	
5	UHS-LT-2072012 A	C - UHS Basin Water Level	UHSRS	PAM, Other	2 wks	Mild	E	I	
6	UHS-LT-2072012 B	C - UHS Basin Water Level	UHSRS	PAM, Other	2 wks	Mild	E	I	
7	UHS-LT-2073013 A	D - UHS Basin Water Level	UHSRS	PAM, Other	2 wks	Mild	E	I	
8	UHS-LT-2073013 B	D - UHS Basin Water Level	UHSRS	PAM; Other	2 wks	Mild	E	I	
9	UHS-TE-2070010	A - UHS Basin Temperature	UHSRS	PAM, Other	2 wks	Mild	E	I	

MAP-00-201

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CP COL 3.11(5)
CP COL 3.11(7)
CP COL 3.11(8)

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Site-Specific Environmental Qualification Equipment List

Item Num	Equipment Tag	Description	Location	Purpose	Operational Duration	Environmental Conditions	Qualification Process	Seismic Category	Comments
			PCCV, R/B, A/B, O/B, T/B, UHSRS, ESWPT	ESF, PAM, Other		Harsh or Mild	E=Electrical M=Mechanical	I, II, Non	
10	UHS-TE-2074011	B - UHS Basin Temperature	UHSRS	PAM, Other	2 wks	Mild	E	I	
11	UHS-TE-2072012	C - UHS Basin Temperature	UHSRS	PAM, Other	2 wks	Mild	E	I	
12	UHS-TE-2073013	D - UHS Basin Temperature	UHSRS	PAM, Other	2 wks	Mild	E	I	
13	VRS- OFNMFN -601A	A - ESW Pump Room Exhaust Fan	UHSRS	ESF	1 yr	Mild	M	I	
14	VRS- OFNMFN -601B	B - ESW Pump Room Exhaust Fan	UHSRS	ESF	1 yr	Mild	M	I	
15	VRS- OFNMFN -601C	C - ESW Pump Room Exhaust Fan	UHSRS	ESF	1 yr	Mild	M	I	
16	VRS- OFNMFN -601D	D - ESW Pump Room Exhaust Fan	UHSRS	ESF	1 yr	Mild	M	I	
17	VRS- OFNMFN -602A	A - UHS Transfer Pump Room Exhaust Fan	UHSRS	ESF	1 yr	Mild	M	I	
18	VRS- OFNMFN -602B	B - UHS Transfer Pump Room Exhaust Fan	UHSRS	ESF	1 yr	Mild	M	I	

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Site-Specific Environmental Qualification Equipment List

Item Num	Equipment Tag	Description	Location	Purpose	Operational Duration	Environmental Conditions	Qualification Process	Seismic Category	Comments
			PCCV, R/B, A/B, O/B, T/B, UHSRS, ESWPT	ESF, PAM, Other		Harsh or Mild	E=Electrical M=Mechanical	I, II, Non	
19	VRS- OMFN -602C	C - UHS Transfer Pump Room Exhaust Fan	UHSRS	ESF	1 yr	Mild	M	I	
20	VRS- OMFN -602D	D - UHS Transfer Pump Room Exhaust Fan	UHSRS	ESF	1 yr	Mild	M	I	
21	VRS- OEQMEH -601A	A - ESW Pump Room Unit Heater	UHSRS	ESF	1 yr	Mild	M	I	
22	VRS- OEQMEH -601B	B - ESW Pump Room Unit Heater	UHSRS	ESF	1 yr	Mild	M	I	
23	VRS- OEQMEH -601C	C - ESW Pump Room Unit Heater	UHSRS	ESF	1 yr	Mild	M	I	
24	VRS- OEQMEH -601D	D - ESW Pump Room Unit Heater	UHSRS	ESF	1 yr	Mild	M	I	
25	VRS- OEQMEH -602A	A - ESW Pump Room Unit Heater	UHSRS	ESF	1 yr	Mild	M	I	
26	VRS- OEQMEH -602B	B - ESW Pump Room Unit Heater	UHSRS	ESF	1 yr	Mild	M	I	
27	VRS- OEQMEH -602C	C - ESW Pump Room Unit Heater	UHSRS	ESF	1 yr	Mild	M	I	
28	VRS- OEQMEH -602D	D - ESW Pump Room Unit Heater	UHSRS	ESF	1 yr	Mild	M	I	
29	VRS- OEQMEH -603A	A - UHS Transfer Pump Room Unit Heater	UHSRS	ESF	1 yr	Mild	M	I	

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**Table 3D-201 (Sheet 4 of 10)
Site-Specific Environmental Qualification Equipment List**

Item Num	Equipment Tag	Description	Location	Purpose	Operational Duration	Environmental Conditions	Qualification Process	Seismic Category	Comments
			PCCV, R/B, A/B, O/B, T/B, UHSRS, ESWPT	ESF, PAM, Other		Harsh or Mild	E=Electrical M=Mechanical	I, II, Non	
30	VRS-OEQMEH-603B	B - UHS Transfer Pump Room Unit Heater	UHSRS	ESF	1 yr	Mild	M	I	
31	VRS-OEQMEH-603C	C - UHS Transfer Pump Room Unit Heater	UHSRS	ESF	1 yr	Mild	M	I	
32	VRS-OEQMEH-603D	D - UHS Transfer Pump Room Unit Heater	UHSRS	ESF	1 yr	Mild	M	I	
33	VRS-TS-2640C803	A - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
34	VRS-TS-2640D804	A - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
35	VRS-TS-2640E805	A - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
36	VRS-TS-2640F806	A - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
37	VRS-TS-2645C812	A - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
38	VRS-TS-2645D813	A - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	

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Site-Specific Environmental Qualification Equipment List

Item Num	Equipment Tag	Description	Location	Purpose	Operational Duration	Environmental Conditions	Qualification Process	Seismic Category	Comments
			PCCV, R/B, A/B, O/B, T/B, UHSRS, ESWPT	ESF, PAM, Other		Harsh or Mild	E=Electrical M=Mechanical	I, II, Non	
39	VRS-TS-2615E81 4	A - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
40	VRS-TS-2615F81 5	A - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
41	VRS-TS-2620C82 3	B - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
42	VRS-TS-2620D82 4	B - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
43	VRS-TS-2620E82 5	B - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
44	VRS-TS-2620F82 6	B - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
45	VRS-TS-2625C83 2	B - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
46	VRS-TS-2625D83 3	B - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	

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Table 3D-201 (Sheet 6 of 10)

Site-Specific Environmental Qualification Equipment List

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Item Num	Equipment Tag	Description	Location	Purpose	Operational Duration	Environmental Conditions	Qualification Process	Seismic Category	Comments
			PCCV, R/B, A/B, O/B, T/B, UHSRS, ESWPT	ESF, PAM, Other		Harsh or Mild	E=Electrical M=Mechanical	I, II, Non	
47	VRS-TS-2625E83 4	B - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
48	VRS-TS-2625F83 5	B - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
49	VRS-TS-2630G8 43	C - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
50	VRS-TS-2630D8 44	C - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
51	VRS-TS-2630E84 5	C - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
52	VRS-TS-2630F84 6	C - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
53	VRS-TS-2635C8 52	C - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
54	VRS-TS-2635D8 53	C - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	

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Site-Specific Environmental Qualification Equipment List

CP COL 3.11(5)
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Item Num	Equipment Tag	Description	Location	Purpose	Operational Duration	Environmental Conditions	Qualification Process	Seismic Category	Comments
			PCCV, R/B, A/B, O/B, T/B, UHSRS, ESWPT	ESF, PAM, Other		Harsh or Mild	E=Electrical M=Mechanical	I, II, Non	
55	VRS-TS-2635E8 54	C - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
56	VRS-TS-2635F85 5	C - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
57	VRS-TS-2640C8 63	D - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
58	VRS-TS-2640D8 64	D - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
59	VRS-TS-2640E8 65	D - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
60	VRS-TS-2640F86 6	D - ESW Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
61	VRS-TS-2645C8 72	D - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
62	VRS-TS-2645D8 73	D - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	

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Site-Specific Environmental Qualification Equipment List**

Item Num	Equipment Tag	Description	Location	Purpose	Operational Duration	Environmental Conditions	Qualification Process	Seismic Category	Comments
			PCCV, R/B, A/B, O/B, T/B, UHSRS, ESWPT	ESF, PAM, Other		Harsh or Mild	E=Electrical M=Mechanical	I, II, Non	
63	VRS-TS-2645E8 74	D - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
64	VRS-TS-2645E8 75	D - UHS Transfer Pump Room Temperature	UHSRS	Other	2 wks	Mild	E	I	
65	UHS-OPPMPP-0 01A	A - UHS Transfer Pump	UHSRS	ESF	1 yr	Mild	M	I	
66	UHS-OPPMPP-0 01B	B - UHS Transfer Pump	UHSRS	ESF	1 yr	Mild	M	I	
67	UHS-OPPMPP-0 01C	C - UHS Transfer Pump	UHSRS	ESF	1 yr	Mild	M	I	
68	UHS-OPPMPP-0 01D	D - UHS Transfer Pump	UHSRS	ESF	1 yr	Mild	M	I	
69	UHS-OEQMFN-0 01A	A - UHS Cooling Tower Fan No.1	UHSRS	ESF	1 yr	Mild	M	I	
70	UHS-OEQMFN-0 01B	B - UHS Cooling Tower Fan NO.1	UHSRS	ESF	1 yr	Mild	M	I	

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Site-Specific Environmental Qualification Equipment List

Item Num	Equipment Tag	Description	Location	Purpose	Operational Duration	Environmental Conditions	Qualification Process	Seismic Category	Comments
			PCCV, R/B, A/B, O/B, T/B, UHSRS, ESWPT	ESF, PAM, Other		Harsh or Mild	E=Electrical M=Mechanical	I, II, Non	
71	UHS- OEQMFN-0 01C	C - UHS Cooling Tower Fan NO.1	UHSRS	ESF	1 yr	Mild	M	I	
72	UHS- OEQMFN-0 01D	D - UHS Cooling Tower Fan No.1	UHSRS	ESF	1 yr	Mild	M	I	
73	UHS- OEQMFN-0 02A	A - UHS Cooling Tower Fan No.2	UHSRS	ESF	1 yr	Mild	M	I	
74	UHS- OEQMFN-0 02B	B - UHS Cooling Tower Fan NO.2	UHSRS	ESF	1 yr	Mild	M	I	
75	UHS- OEQMFN-0 02C	C - UHS Cooling Tower Fan NO.2	UHSRS	ESF	1 yr	Mild	M	I	
76	UHS- OEQMFN-0 02D	D - UHS Cooling Tower Fan No.2	UHSRS	ESF	1 yr	Mild	M	I	
77	UHS-MOV-503A	A - UHS Transfer Pump Discharge Valve	UHSRS	ESF	1 yr	Mild	M	I	
78	UHS-MOV-503B	B - UHS Transfer Pump Discharge Valve	UHSRS	ESF	1 yr	Mild	M	I	
79	UHS-MOV-503C	C - UHS Transfer Pump Discharge Valve	UHSRS	ESF	1 yr	Mild	M	I	
80	UHS-MOV-503D	D - UHS Transfer Pump Discharge Valve	UHSRS	ESF	1 yr	Mild	M	I	

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Site-Specific Environmental Qualification Equipment List

Item Num	Equipment Tag	Description	Location	Purpose	Operational Duration	Environmental Conditions	Qualification Process	Seismic Category	Comments
			PCCV, R/B, A/B, O/B, T/B, UHSRS, ESWPT	ESF, PAM, Other		Harsh or Mild	E=Electrical M=Mechanical	I, II, Non	
81	UHS-MOV-506A	A - UHS Transfer Line Basin Inlet Valve	UHSRS	ESF	1 yr	Mild	M	I	
82	UHS-MOV-506B	B - UHS Transfer Line Basin Inlet Valve	UHSRS	ESF	1 yr	Mild	M	I	
83	UHS-MOV-506C	C - UHS Transfer Line Basin Inlet Valve	UHSRS	ESF	1 yr	Mild	M	I	
84	UHS-MOV-506D	D - UHS Transfer Line Basin Inlet Valve	UHSRS	ESF	1 yr	Mild	M	I	
85	UHS-HCV-20000 <u>10</u>	A - UHS Basin Blowdown Control Valve	UHSRS	ESF	1 yr	Mild	M	I	
86	UHS-HCV-20040 <u>11</u>	B - UHS Basin Blowdown Control Valve	UHSRS	ESF	1 yr	Mild	M	I	
87	UHS-HCV-20020 <u>12</u>	C - UHS Basin Blowdown Control Valve	UHSRS	ESF	1 yr	Mild	M	I	
88	UHS-HCV-20030 <u>13</u>	D - UHS Basin Blowdown Control Valve	UHSRS	ESF	1 yr	Mild	M	I	

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Chapter 4

Chapter 4 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R

Chapter 5

Chapter 5 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_05.02.01.01-1	5.2.1.1	5.2-1	Responses to RAI No. 40, Luminant Letter TXNB-09055 Dated 10/19/2009	Replaced sentence in DCD Section 5.2.1.1 and applied the same ASME Code editions in DCD Table 5.2.1-1 and section 3.9.10	-
RCOL2_05.02.05-1	5.2.5.9	5.2-2 5.2-3	Responses to RAI No. 58, Luminant Letter no. TXNB-09058 Dated 10/26/2009	Added operational procedures regarding conversion of the referenced leak detection instruments and procedures for operator response to prolonged low-level leakage description.	-
RCOL2_05.02.05-1	Table 1.8-208 (Sheet 29 of 68)	1.8-38	Responses to RAI No. 58, Luminant Letter no. TXNB-09058 Dated 10/26/2009	Added procedures for conversion into common leakage rate and procedures for determining the existence of and operator response to prolonged low-level leakage conditions.	-
RCOL2_05.03.01-2	5.3.1.6.1	5.3-1	Responses to RAI No. 65, Luminant Letter no. TXNB - 09060 Dated 10/30/2009	Added test specimen and capsules description under section 5.3.1.6.1.	-
RCOL2_05.02.04-1	5.2.4.1	5.2-2	Responses to RAI No. 87, Luminant Letter no. TXNB-09062 Dated 11/5/2009	Added Boric Acid Corrosion Control Program (BACCP) for CPNPP Units 3 and 4 procedures for determining pressure boundary locations by boric acid corrosion and description for performing visual inspection of accessible and observable components during system walkdowns and during plant outages.	-

Chapter 6

Chapter 6 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-00915	6.2.2.3	6.2-1	Response to RAI No. 76 Luminant Letter no.TXNB-09066 Date 11/12/2009	Revised the location of the replaced sentence and paragraph.	-
RCOL2_06.02.02-3	6.2.2.3	6.2-1	Response to RAI No. 76 Luminant Letter no.TXNB-09066 Date 11/12/2009	Add the cleanliness program items.	-
RCOL2_06.04-1	6.4.4.2	6.4-3	Response to RAI No. 77 Luminant Letter no.TXNB-09066 Date 11/12/2009	Add the description of the periodic surveys.	-
RCOL2_06.04-5	6.4.4.2	6.4-3	Response to RAI No. 77 Luminant Letter no.TXNB-09066 Date 11/12/2009	Add the description of operator actions in the event of a toxic gas release.	-

Chapter 7

Chapter 7 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R

Chapter 8

Chapter 8 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
MAP-08-201	Figure 8.1-1R	8.1-3	Consistency with DCD Revision 2	Deleted one feeder line between Class 1E LC and MCC, since two feeder lines were incorrectly depicted between Class 1E LC and MCC (editorial change). Added feeder lines from Class 1E MCC to MOV inverter. Changed the inputs to N21 and N22 UPS Units.	0

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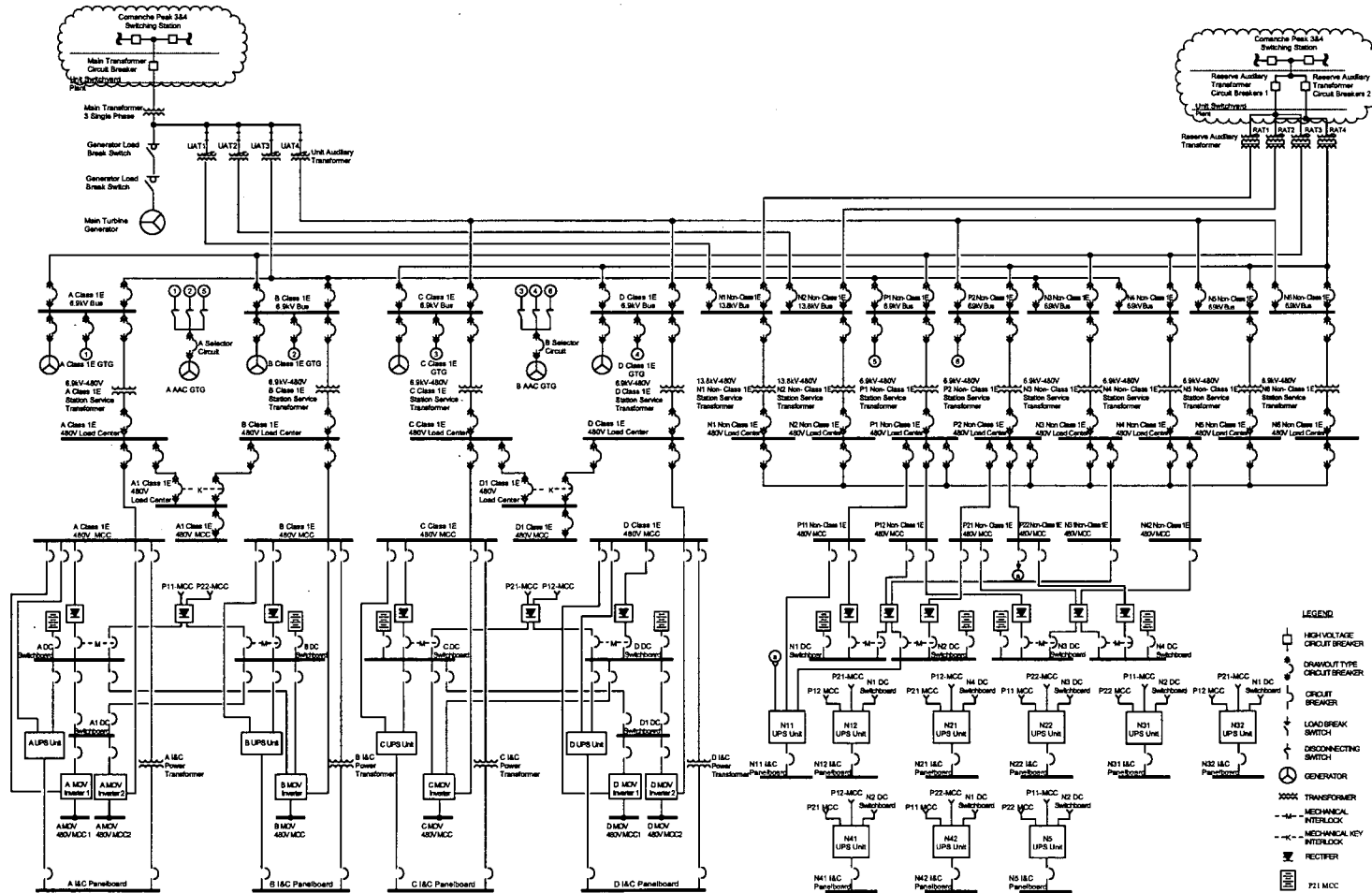


Figure 8.1-1R Simplified One Line Diagram Electric Power System

CP COL 8.2(3)

Chapter 9

Chapter 9 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_09.01.05-1	9.1.5	9.1-1	Responses to RAI No. 52 Luminant Letter no. TXNB-09057 Dated 10/21/2009	Added Subsection 9.1.5, Overhead Heavy Load Handling System	-
RCOL2_09.01.05-1	9.1.6	9.1-2	Responses to RAI No. 52 Luminant Letter no. TXNB-09057 Dated 10/21/2009	Added COL Item CP COL 9.1(6), The establishment of a Heavy Load Handling Program.	-
RCOL2_09.04.01-1	9.4.1.2	9.4-1	Responses to RAI No. 63 Luminant Letter no. TXNB-09060 Dated 10/30/2009	Provided clarification on the design basis MCR temperature that the heating coils are designed to.	-
RCOL4_16-6	9.2.5.2.2	9.2-9	Responses to RAI No. 90 Luminant Letter no. TXNB-09064 Dated 11/11/2009	Each cooling tower fan starts automatically on an actual or simulated actuation signal.	-
RCOL2_09.02.01-1	9.2.1.2.2.1	9.2-2	Responses to RAI No. 109 Luminant Letter no. TXNB-09071 Dated 11/20/2009	Added System head losses and basis for available NPSH.	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_09.02.01-2	9.2.1.3	9.2-3	Responses to RAI No. 109 Luminant Letter no. TXNB-09071 Dated 11/20/2009	Described plant procedures in the second bullet. Describe that heat tracing is activated upon low ambient temperature. Describe heat exchanger backflush operation.	-
RCOL2_09.02.01-5	9.2.1.3	9.2-3	Responses to RAI No. 109 Luminant Letter no. TXNB-09071 Dated 11/20/2009	Except for a design basis seismic event, the ESWS is not required to supply water to the FSS during any other design basis event including a LOCA.	-
RCOL2_09.02.01-4	9.2.1.5.4	9.2-4	Responses to RAI No. 109 Luminant Letter no. TXNB-09071 Dated 11/20/2009	Deleted CP COL 9.2(7)	-
RCOL2_09.02.01-1	9.2.5.3	9.2-11	Responses to RAI No. 109 Luminant Letter no. TXNB-09071 Dated 11/20/2009	Provided clarification of the volume for a cooling tower basin.	-
RCOL2_09.02.02-4	9.2.10	9.2-13	Responses to RAI No. 109 Luminant Letter no. TXNB-09071 Dated 11/20/2009	Revised CP Col 9.2(6) to add "and the mode of cooling the pump motor." Added reference to Subsection 9.4.5.1.1.6.	-
RCOL2_09.02.02-4	9.2.10	9.2-14	Responses to RAI No. 109 Luminant Letter no. TXNB-09071 Dated 11/20/2009	Deleted reference to Subsection 9.2.1.5.4 In CP COL 9.2(7).	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_09.02.02-4	9.4.5.1.1.6	9.4-2	Responses to RAI No. 109 Luminant Letter no. TXNB-09071 Dated 11/20/2009	Added statement that the ESWP is installed at a location in the pump house where air is adequately circulated to cool the motor.	-
RCOL2_09.02.05-01	9.2.5.1	9.2-8	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Replaced the last bullet of Subsection 9.2.5.1 with a bullet to explain that the UHS components and structures are designed to seismic cat. I and equipment class 3. Also see Change ID RCOL2_09.02.05-04.	-
RCOL2_09.02.05-01	9.2.5.2.1	9.2-8	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added description to the second paragraph that the cooling tower components are designed per equipment class 3 and quality group C requirements.	-
RCOL2_09.02.05-01	9.2.5.2.1	9.2-9	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added seventh paragraph to describe the ESW intake basin.	-
RCOL2_09.02.05-02	9.2.5.3	9.2-14	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added third paragraph to explain that the UHS seismic Cat. I SSC's and Non-seismic SSC's are separated and that failure of the non-seismic SSC's will not affect the seismic Cat. I SSC's.	-
RCOL2_09.02.05-04	9.2.5.1	9.2-8	Responses to RAI No. 121 Luminant Letter no. TXNB-09081	Replaced the last bullet of Subsection 9.2.5.1 with a bullet to explain that the UHS components and	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
			Dated 12/16/2009	structures are designed to seismic cat. I and equipment class 3. Also see Change ID RCOL2_09.02.05-01.	
RCOL2_09.02.05-04	9.2.5.2.1	9.2-9	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added ninth paragraph to provide description on the normal maintained water level of the UHS basin.	-
RCOL2_09.02.05-04	9.2.5.2.2	9.2-11	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added eighth paragraph to provide description that all transfer pumps discharge into a common header. This change worked in conjunction with Change ID RCOL2_09.02.05-06.	-
RCOL2_09.02.05-04	9.2.5.2.2	9.2-11	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added description to the end of the tenth paragraph regarding the power supply for the transfer pumps.	-
RCOL2_09.02.05-04	Figure 9.2.5-201 (sheets 1 and 2)	9.2-24 9.2-25	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added notes to Figure 9.2.5-201, Sheets 1 and 2.	-
RCOL2_09.02.05-05	9.2.5.2.1	9.2-8	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added fourth and fifth paragraphs to provide description for the cooling towers design conditions	-
RCOL2_09.02.05-05	9.2.5.2.3	9.2-12	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Revised the last sentence of third paragraph to say recirculation penalty instead of margin.	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_09.02.05-05	9.2.5.2.3	9.2-12	Response to RAI Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added the fourth paragraph to provide description that the 83 degrees F wet bulb temperature from Table 2.0-1R corresponds with the 0% exceedance value and is used to establish the cooling tower basin water temperature surveillance requirements.	-
RCOL2_09.02.05-05	9.2.5.2.3	9.2-13	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Revised the sixth paragraph to add "...using industry standard methodology..."	-
RCOL2_09.02.05-05	9.2.5.2.3	9.2-13	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Revised the eighth and ninth paragraphs to provide clarification on the operational peak heat loads during shutdown with LOOP is used for cooling tower design.	-
RCOL2_09.02.05-05	9.2.5.3	9.2-14	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Revised sixth paragraph to provide clarification on the 30 day cooling water capacity as 8.40 million gallons or approx. 2.80 million gallons for each basin.	-
RCOL2_09.02.05-05	9.2.5.3	9.2-14 9.2-15	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added the seventh paragraph to provide description on UHS basin water temperature.	-
RCOL2_09.02.05-05	Table 9.2.5-201	9.2-23	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added the following to Table 9.2.5-201 for UHS system design data: Design air flow, fan speed, cooling tower design life and design approach. Also added a	7

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
				note at the bottom of the table.	
RCOL2_09.02.05-06	9.2.5.2.2	9.2-11	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added seventh paragraph to provide clarification that there are four 100% capacity UHS transfer pumps.	-
RCOL2_09.02.05-06	9.2.5.2.2	9.2-11	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added eighth paragraph to provide description that all transfer pumps discharge into a common header. This change worked in conjunction with Change ID RCOL2_09.02.05-04	-
RCOL2_09.02.05-07	9.2.5.2.2	9.2-11	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added ninth paragraph to provide description for the UHS transfer pump design features such as TDH and NPSH.	-
RCOL2_09.02.05-09	9.2.5.2.2	9.2-10	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added fourth, fifth and sixth paragraphs to provide description of how the ESWS and the UHS together minimize the effects of water hammer.	-
RCOL2_09.02.05-10	9.2.5.2.1	9.2-9	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added the twelfth paragraph in conjunction with Change ID RCOL2_09.02.05-11 to provide description of the intake structure design minimizes debris, algae and grass into the makeup water.	-
RCOL2_09.02.05-11	9.2.5.2.1	9.2-9	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added the twelfth paragraph in conjunction with Change ID RCOL2_09.02.05-11 to provide description of the intake structure design minimizes debris,	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
				algae and grass into the makeup water.	
RCOL2_09.02.05-12	9.2.5.2.1	9.2-9	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added the tenth paragraph to provide description for the chemical injection system for the UHS and ESWS.	-
RCOL2_09.02.05-12	9.2.5.4	9.2-15 9.2-16	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Revised the third paragraph to clarify industry operating experience was used for periodic inspections and testing of cooling tower components. Also, added the fourth through the eleventh paragraphs in conjunction with Change ID's RCOL2_09.02.05-13 and 14 to provide description of inspection and testing requirements.	-
RCOL2_09.02.05-13	9.2.5.4	9.2-15 9.2-16	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added the fourth through the eleventh paragraphs in conjunction with Change ID's RCOL2_09.02.05-12 and 14 to provide description of inspection and testing requirements.	-
RCOL2_09.02.05-14	9.2.5.4	9.2-15	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added the fourth paragraph to provide description of inspection and testing requirements in accordance with Tech. Specs..	-
RCOL2_09.02.05-16	9.2.5.1	9.2-7	Responses to RAI No. 121 Luminant Letter no. TXNB-09081	Revised the bullet to add description that the performance of the UHS is based on 30 years of site specific wet bulb	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
			Dated 12/16/2009	temperature conditions.	
RCOL2_09.02.05-16	9.2.5.2	9.2-8	Responses to RAI No. 121 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added to the end of the third paragraph a reference to Subsection 10.4.5.2.2.2.11.	-
RCOL2_09.04.05-03	9.4.5.2.6	9.4-5	Responses to RAI No. 123 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added sixth paragraph to clarify that the UHS ESW pump house ventilation contains no ductwork.	-
RCOL2_09.04.05-03	9.4.5.2.6	9.4-6	Responses to RAI No. 123 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added twelfth paragraph to provide description that the failure of non-safety-related components in the UHS ESW pump house will not damage any of the safety-related components in the pump house.	-
RCOL2_09.04.05-03	Figure 9.4-201	9.4-17	Responses to RAI No. 123 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added four notes to Figure 9.4-201.	-
RCOL2_09.04.05-04	9.4.5.3.6	9.4-6	Responses to RAI No. 123 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added a new bullet to provide clarification that the ESW pump house air intakes and air outlets are protected from tornado missiles.	-
RCOL2_09.04.05-07	9.4.5.1.1.6	9.4-2	Responses to RAI No. 123 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Revised the first paragraph by providing clarification on the ventilation system temperature range.	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_09.04.05-07	9.4.5.2.6	9.4-4	Responses to RAI No. 123 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Revised the first sentence of the ninth paragraph to clarify that the unit heaters maintain room temperatures during normal and emergency plant operations.	-
RCOL2_09.04.05-08	9.4.5.2.6	9.4-4 9.4-5 9.4-6	Responses to RAI No. 123 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Revised Subsection 9.4.5.2.6 in conjunction with Change ID's RCOL2_09.04.05-07, 09, 10 and 12.	-
RCOL2_09.04.05-09	9.4.5.2.6	9.4-5	Responses to RAI No. 123 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Revised seventh paragraph of Subsection 9.4.5.2.6 in conjunction with Change ID's RCOL2_09.04.05-12	-
RCOL2_09.04.05-10	9.4.5.2.6	9.4-5	Responses to RAI No. 123 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added the tenth paragraph regarding backdraft dampers.	-
RCOL2_09.04.05-10	9.4.5.3.6	9.4-6	Responses to RAI No. 123 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Revised last sentence of the third bullet item to read "All ventilation system components..."	-
RCOL2_09.04.05-10	9.4.5.5.6	9.4-7	Responses to RAI No. 123 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added a new bullet item identifying temporary switches.	-

Change ID No.	Section	FSAR Rev. 1 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_09.04.05-10	Table 9.4-203 (sheets 1 thru 5)	9.4-12 Thru 9.4-16	Responses to RAI No. 123 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Added Table 9.4-203 (Sheets 1 thru 5)	-
RCOL2_09.04.05-12	9.4.5.2.6	9.4-5	Responses to RAI No. 123 Luminant Letter no. TXNB-09081 Dated 12/16/2009	Revised seventh paragraph of Subsection 9.4.5.2.6 in conjunction with Change ID's RCOL2_09.04.05-09.	-
DCD_09.04.05-1	9.4.5.3.6 Table 9.4-203 (Sheet 1, 2 of 5)	9.4-4	Consistency with DCD	Change the sentence about the effect analysis of single active failure. And newly add Table 9.4-203 as FMEA.	0
MAP-00-201	Table 9.2.5-202 Figure 9.2.1-1R Figure 9.2.5-201 Figure 9.4-201	9.2-19 through 9.2-22 9.2-24 9.2-25 9.4-10	The change of numbering rule of Tag number	Change Tag numbers.	0

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temperature conditions in these areas. These alarms are an indication of a loss of ventilation or a loss of heating.

RCOL2_09.0
4.05-8

The UHS ESW pump houses each contain a wet-pipe sprinkler system, hose station and smoke detection system. These fire protection components are classified as non -safety-related. With the exception of standpipes supplying manual hose stations, these fire protection components are seismically supported such that their failure during a design basis seismic event will not damage any of the safety-related equipment in the areas. The standpipe systems supplying hose stations are designed to remain functional under safe shutdown earthquake loadings for manual fire suppression in areas containing equipment required for safe-shutdown.

RCOL2_09.0
4.05-3

CP COL 9.4(6) Add the following new subsection after DCD Subsection 9.4.5.3.5

9.4.5.3.6 UHS ESW Pump House Ventilation System

- The ESW pump room exhaust fan and the UHS transfer pump room exhaust fan located in each UHS ESW pump house are powered by the different Class 1E buses.
- The ESW pump room exhaust fan and the UHS transfer pump room exhaust fan are separated by a three-hour fire rated barrier. Therefore, each fan powered by different Class 1E power supplies is protected and remains functional in the event of a fire in either room.
- The safety function of the UHS ESW pump house ventilation system is assured by the physical separation provided by the four separate and independent UHS ESW pump houses. All ventilation system ~~equipment and~~ components are classified as equipment class 3, seismic category I.
- The ESW pump room exhaust fans and the UHS transfer pump room exhaust fans are capable of performing its safety function under all associated design basis accidents coincident with LOOP.
- As shown in Table 9.4-203, Failure of a single active component in one of the UHS ESW pump house ventilation system exhaust fans does not result in a loss of the system's safety function.
- The UHS ESW pump house ventilation system components are protected from tornado generated missiles by their location inside a seismic category I structure.
- Backdraft dampers are capable of withstanding the affects of tornado wind and atmospheric differential pressure loading.
- The ESW pump house air intakes and air outlets are protected from tornado missiles as described in Subsection 3.8.4.1.3.2.

RCOL2_09.0
4.05-10

DCD_09.04.
05-1.

RCOL2_09.0
4.05-4

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**Table 9.4-203 (Sheet 1 of 5)
UHS ESW Pump House Ventilation System Failure Modes and Effects Analysis**

RCOL2_09
.04.05-10
DCD_09.04
.05-1

<u>Description of Component</u>	<u>Safety Function</u>	<u>Plant Operating Mode</u>	<u>Failure Mode(s)</u>	<u>Method of Failure Detection</u>	<u>Failure Effect on System Safety Function Capability</u>	<u>General Remarks</u>
<u>ESW Pump Room Exhaust Fans (VRS-OFN-601A, B, C, D)</u>	<u>Draws outside air through ESW Pump Room to provide cooling</u>	All	<u>Fails to start on t'sat command</u>	<u>Low air flow alarm in MCR</u>	<u>None. Remaining three ESW pump houses are available</u>	<u>One Train out due to maintenance does not affect safety function, because a minimum of two ESW pumps and two transfer pumps are required.</u>
			<u>Fails to stop on t'sat command</u>	<u>Room low temperature alarm in MCR</u>	<u>None. Remaining three ESW pump houses are available</u>	
			<u>Trips for any reason</u>	<u>Low air flow alarm in MCR</u>	<u>None. Remaining three ESW pump houses are available</u>	
<u>ESW Pump Room Air Intake Gravity Type Backdraft Dampers (VRS-BDD-601A, B, C, D)</u>	<u>Opens to provide air flow path</u>	All	<u>Fails to open</u>	<u>Low air flow alarm in MCR</u>	<u>None. Remaining three ESW pump houses are available</u>	
			<u>Fails to close</u>	<u>Room low temperature alarm in MCR</u>	<u>None. Remaining three ESW pump houses are available</u>	

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**Table 9.4-203 (Sheet 2 of 5)
UHS ESW Pump House Ventilation System Failure Modes and Effects Analysis**

RCOL2_09
.04.05-10
DCD_09.04
.05-1

<u>Description of Component</u>	<u>Safety Function</u>	<u>Plant Operating Mode</u>	<u>Failure Mode(s)</u>	<u>Method of Failure Detection</u>	<u>Failure Effect on System Safety Function Capability</u>	<u>General Remarks</u>
<u>ESW Pump Room Air Discharge Gravity Type Backdraft Dampers (VRS-BDD-602A, B, C, D)</u>	<u>Opens to provide air flow path</u>	<u>All</u>	<u>Fails to open</u>	<u>Low air flow alarm in MCR</u>	<u>None. Remaining three ESW pump houses are available</u>	
			<u>Fails to close</u>	<u>Room low temperature alarm in MCR</u>	<u>None. Remaining three ESW pump houses are available</u>	
<u>ESW Pump Room Unit Heaters (VRS-QEQ-601A, B, C, D)</u>	<u>Provides heating to ESW Pump Room</u>	<u>All</u>	<u>Fails to energize on t'sat command</u>	<u>Room low temperature alarm in MCR</u>	<u>None. Remaining three ESW pump houses are available</u>	
			<u>Fails to deenergize on t'sat command</u>	<u>Room high temperature alarm in MCR</u>	<u>None. Remaining three ESW pump houses are available</u>	
			<u>Trips for any reason</u>	<u>Room low temperature alarm in MCR</u>	<u>None. Remaining three ESW pump houses are available</u>	
			<u>Unit heater fan fails</u>	<u>High heating element temperature alarm in MCR</u>	<u>None. Remaining three ESW pump houses are available</u>	

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CP COL 9.2(22)

Table 9.2.5-202 (Sheet 1 of 2)

Ultimate Heat Sink System Failure Modes and Effects Analysis

Description of Component	Safety Function	Plant Operating Mode	Failure Mode(s)	Method of failure Detection	Failure Effect on System Safety Function Capability	General Remarks
UHS Cooling Tower Fan (UHS-OEQ-001A, B, C, D and UHS-OEQ-MFN-002A, B, C, D)	Circulates ambient air through cooling tower to cool ESW	All	Fails to start upon command	Fan status indication light in MCR	None, Remaining three 50 percent capacity cooling towers are available. Minimum two towers are required for safe shutdown.	One Train out due to maintenance does not affect safety function, because minimum of two cooling towers are required. I MAP-00-201
			Trips for any reason	Fan status indication light in MCR	None, Same as the failure mode "Fails to start upon command".	
UHS Transfer Pump (UHS-OPPMP-001A, B, C, D)	Transfers 33-1/3 percent of required 30 days cooling water from inoperable basin to two (2) operating basins	Accident, Safe shutdown, Cooldown – loss of offsite power	Fails to start upon command	Pump status light indication in MCR	None, Even if the single failure is assumed to the transfer pump, the cooling tower located at the same basin as the inoperable transfer pump can use own basin water. It is not necessary to transfer this basin water to other basin.	I MAP-00-201
UHS Transfer Pump Discharge Valve (MOV-503A, B, C, D), fail as is, motor operated valve	Opens to provide flow path	Accident, Safe shutdown, Cooldown – loss of offsite power	Fails to open upon command	Position indication in MCR	None, Even if the single failure is assumed to the valve, the cooling tower located at the same basin as the inoperable valve can use own basin water. It is not necessary to transfer this basin water to other basin.	

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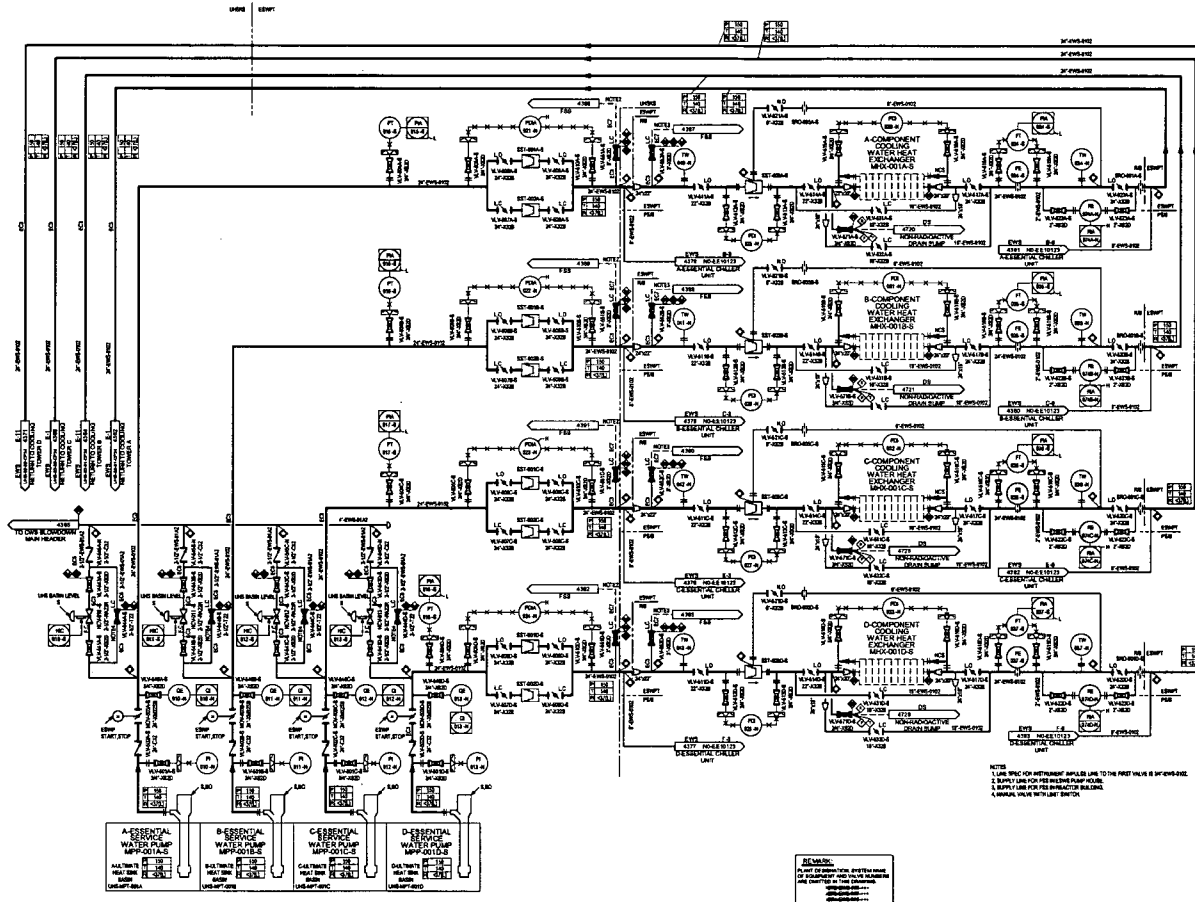
Table 9.2.5-202 (Sheet 2 of 2)

Ultimate Heat Sink System Failure Modes and Effects Analysis

Description of Component	Safety Function	Plant Operating Mode	Failure Mode(s)	Method of failure Detection	Failure Effect on System Safety Function Capability	General Remarks
UHS Transfer Line Basin Inlet valve (MOV-506A, B, C, D), fail as is, motor operated valve	Opens to provide flow path	Accident, Safe shutdown, Cooldown – loss of offsite power	Fails to open upon command	Position indication in MCR	None, This failure effect is bounded by the failure effect of UHS Cooling Tower Fan.	
UHS Basin Blowdown Control Valve (EWS-HCV- 2000010 , 2004011 , 2002012 , 2003013), fail close air operated valve	Closes to isolate blowdown	All	Fails to close upon command	Position indication in MCR	None, Blowdown can be isolated by closing manual valves (VLV-541A,B,C,D, VLV-543A,B,C,D) Effect of uncontrolled blowdown for 30 minutes on basin inventory is insignificant.	MAP-00-201

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MAP-00-201



CP COL 9.2(7)

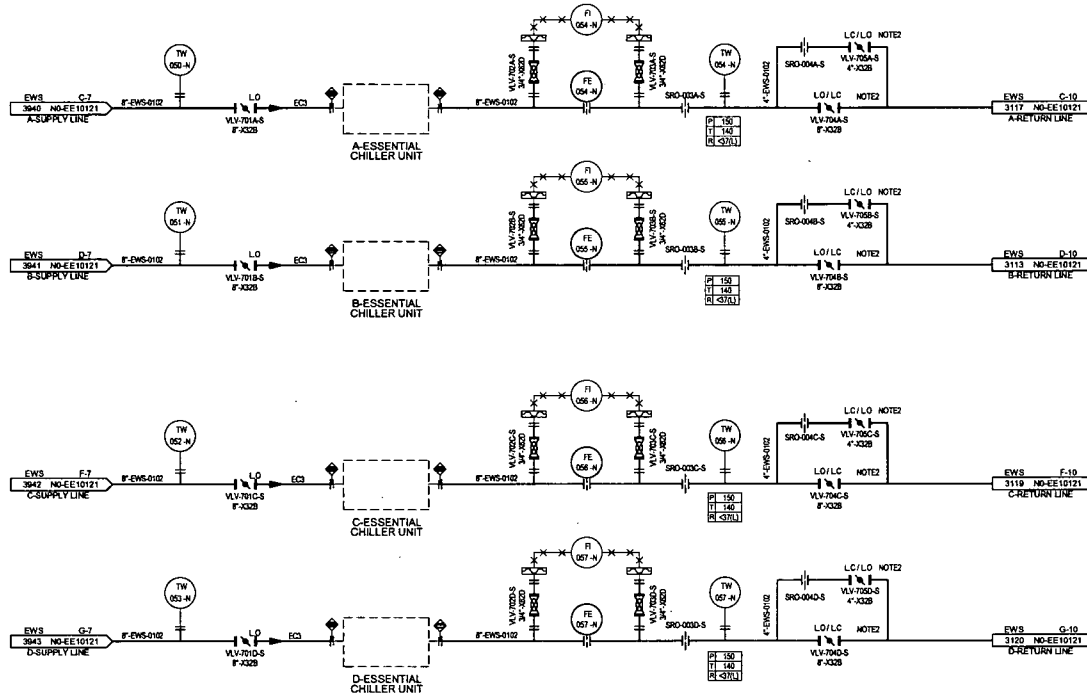
Figure 9.2.1-1R Essential Service Water System Piping and Instrumentation Diagram (Sheet 1 of 2)

9.2-21

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MAP-00-201



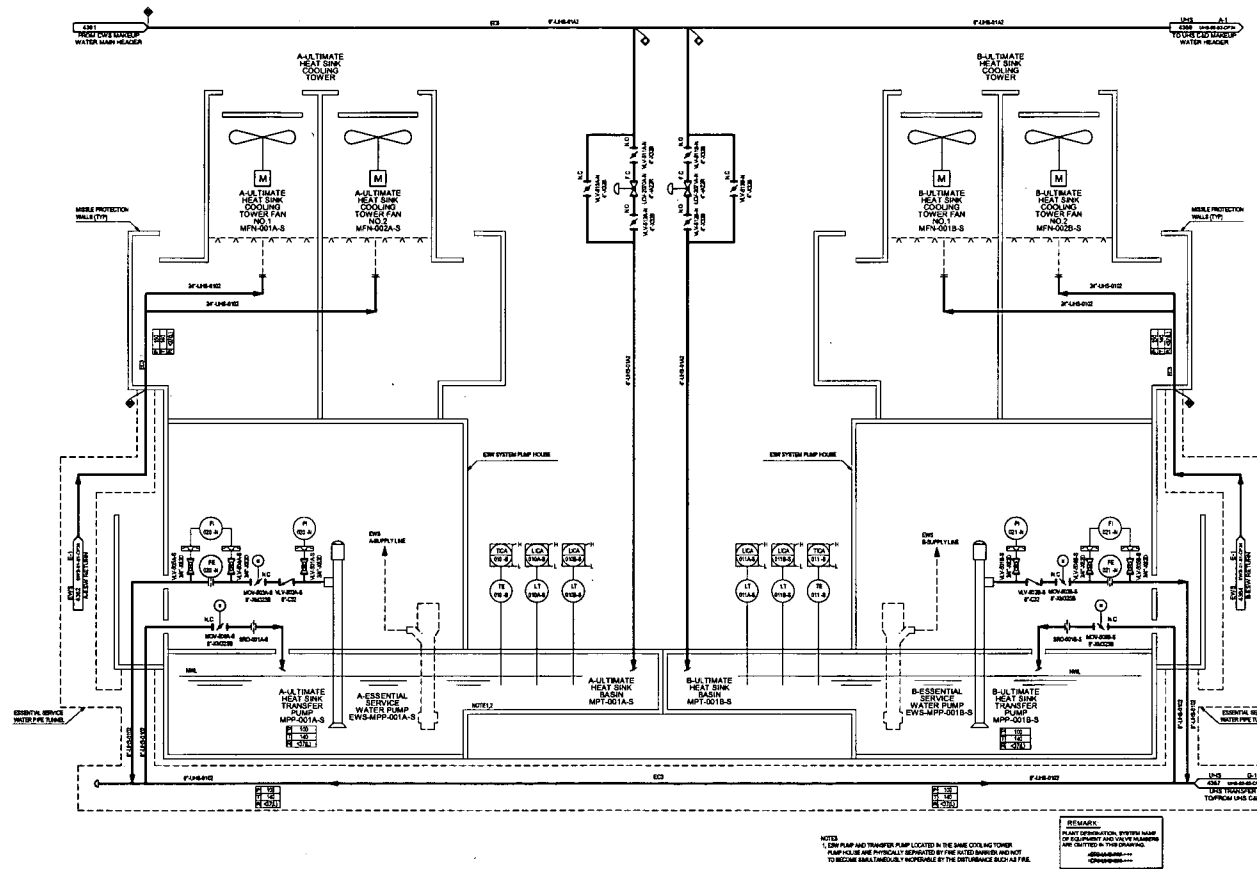
NOTES
 1. LINE SPEC FOR INSTRUMENT IMPLUSE LINE TO THE FIRST VALVE IS 34-ENS-0102.
 2. OPENING THE VALVE AT THE MAIN LINE REQUIRES CLOSING THE VALVE AT THE BYPASS LINE AND VICE VERSA.

REMARK:
 PLANT DESIGNATION, SYSTEM NAME OF EQUIPMENT AND VALVE NUMBERS ARE OMITTED IN THIS DRAWING.
 -670-ENR-003----

Figure 9.2.1-1R Essential Service Water System Piping and Instrumentation Diagram (Sheet 2 of 2)

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MAP-00-201



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2.05-4

CP COL 9.2(20)

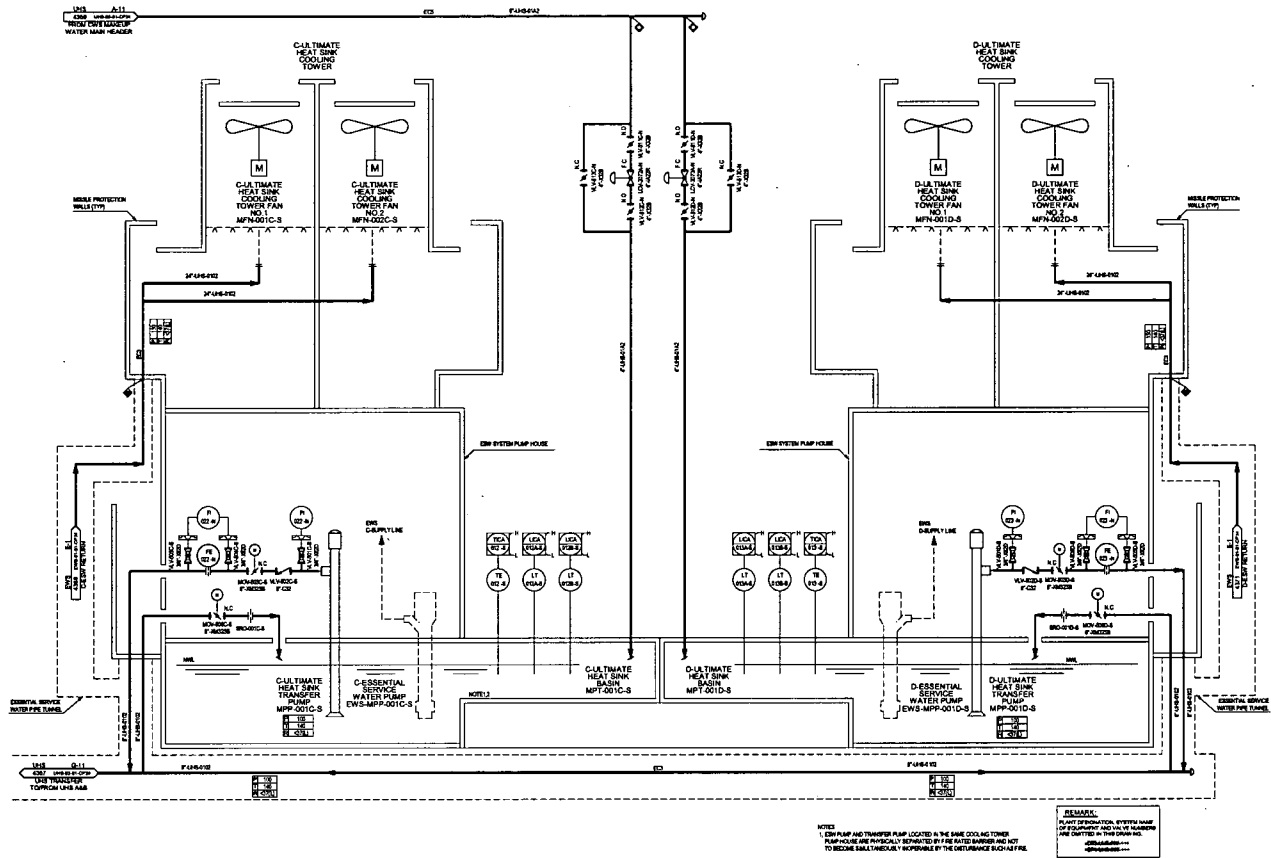
Figure 9.2.5-201 Ultimate Heat Sink System Piping and Instrumentation Diagram (Sheet 1 of 2)

9.2-24

Revision 4

Comanche Peak Nuclear Power Plant, Units 3 & 4
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MAP-00-201

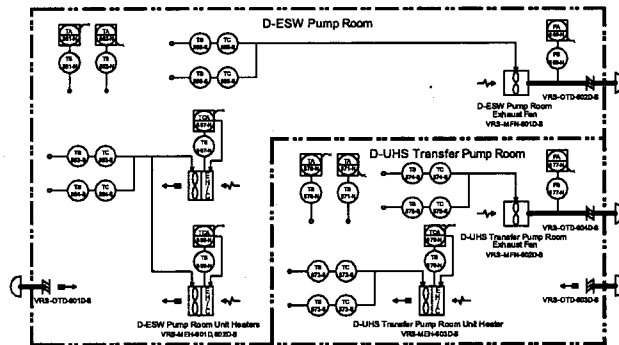
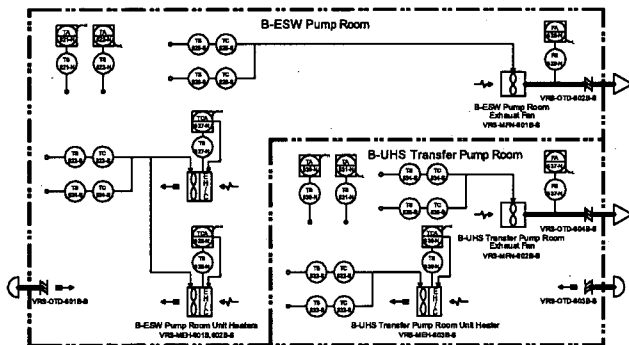
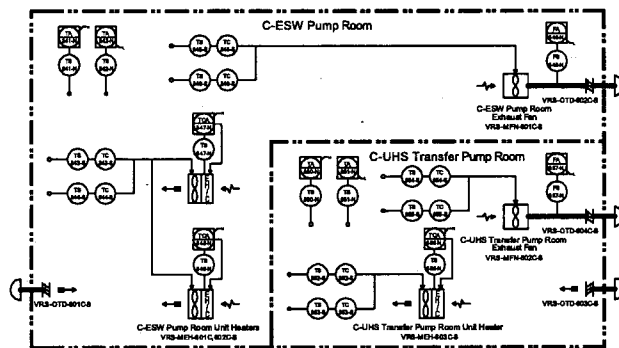
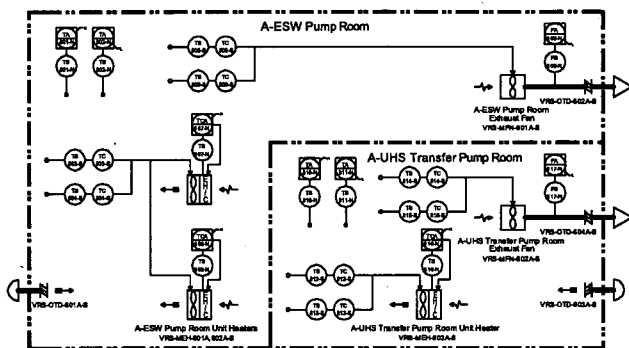


RCOL2_09.0
2.05-4

Figure 9.2.5-20 Ultimate Heat Sink System Piping and Instrumentation Diagram (Sheet 2 of 2)

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MAP-00-201



- NOTE
1. ALL FANS, DAMPERS AND HEATERS IN THIS SHEET ARE DESIGNATED IN ACCORDANCE WITH SEISMIC CATEGORY I.
 2. BACKDRAFT DAMPERS ARE MOUNTED IN THE WALL OPENING.
 3. NO SYSTEM DUCTWORK IS INSTALLED.
 4. EXHAUST FANS ARE WALL-MOUNTED.

REMARK
PLANT DESIGNATION OF EQUIPMENT AND VALVE NUMBERS ARE OMITTED IN THIS DRAWING.
-VRS- 888 - + + +
-VRS- 888 - + + +

RCOL2_09.0
4.05-3

CP COL 9.2(6)

Figure 9.4-201 UHS ESW Pump House Ventilation System Flow Diagram

Chapter 10

Chapter 10 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_11.0 5-2	10.4.8.2.1	10.4-7	Response to RAI No. 50 Luminant Letter no.TXNB-09055 Date 10/19/2009	Revised the sentence about the location and other technical details of the SGBDS radiation monitor as bellow; The location and other technical details of the monitor (RMS-RE-110) is described in Subsection 11.5.2.5.3 and Table 11.5-201.	-
MAP-10-201	10.4.5.2.1	10.4-1	Editorial	Revise from "jockey pumps" to "priming pumps".	0

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10.4 OTHER FEATURES OF STEAM AND POWER CONVERSION SYSTEM

This section of the referenced DCD is incorporated by reference with the following departures and/or supplements.

10.4.5.2.1 General Description

CP COL 10.4(1) Replace the fourth sentence of first paragraph in DCD Subsection 10.4.5.2.1 with the following.

The site-specific circulating water system (CWS) makeup water and blowdown (BD) system is based on the following;

- Makeup water is provided from Lake Granbury through an intake structure and pipelines.
- An installed spare makeup water pump in the intake structure is common to both units.
- CWS blowdown is by gravity drain to Lake Granbury.

Figure 10.4.5-1R and Figure 10.4.5-201 provide the CWS and makeup water and BD Piping and Instrumentation Diagrams. The CWS and cooling tower (CTW) design and selection are subject to environmental conditions as indicated in Table 10.4.5-1R.

CP COL 10.4(1) Replace the sixth paragraph in DCD Subsection 10.4.5.2.1 with the following.

The CWS of each unit is composed of eight, 12.5 percent capacity circulating water pumps, two CTWs, two CTW basins, and two BD line ~~jockey~~priming pumps. There are five makeup water pumps located in the intake structure on Lake Granbury. Two pumps serve each unit and one pump is available as a common spare for either unit. A makeup jockey pump is common to both units.

MAP-10-201

CP COL 10.4(1) Replace the first sentence of the last paragraph in DCD Subsection 10.4.5.2.1 with the following.

Makeup water is provided from Lake Granbury by makeup water pumps to the CTW basins to compensate for the CTW evaporation, drift, and blowdown. A makeup water jockey pump maintains the pressure in the makeup water line header when the makeup water pumps are shut down.

Chapter 11

Chapter 11 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_11.03-1	Figure 11.3-201 (Sheet 3 of 3)	11.3-14	Response to RAI No. 35 Luminant Letter no.TXNB-09054 Date 10/15/2009	Added a note about equipment class.	-
RCOL2_11.0 4-1	11.4.4.5	11.4-4	Response to RAI No. 38 Luminant Letter no.TXNB-09055 Date 10/19/2009	Added following sentences in Subsection 11.4.4.5. "Applicable regulatory requirements and guidance, such as Regulatory Guide 1.143, are addressed by lease or purchase agreements associated with the use of a mobile dewatering subsystem for spent resin dewatering. The lease or purchase agreements include applicable criteria such as testing, inspection, interfacing requirements, operating procedures, and vendor oversight."	-
RCOL2_11.0 2-6	11.2.1.6	11.2-1	Response to RAI No. 49 Luminant Letter no.TXNB-09055 Date 10/19/2009	Added descriptions about design features and approaches for the prevention of spread of contamination of the facility.	-
RCOL2_11.0 2-8	11.2.2	11.2-2	Response to RAI No. 49 Luminant Letter no.TXNB-09055 Date 10/19/2009	Added descriptions that the evaporation pond is not part of the LWMS.	-
RCOL2_11.0 2-8	11.2.3.1	11.2-4	Response to RAI No. 49 Luminant Letter no.TXNB-09055 Date 10/19/2009	Added a following description. "Rainfall is the primary contributing source for dilution of the pond. "	-

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-00902	11.2.3.1	11.2-4	Editorial Response to RAI No. 49 Luminant Letter no.TXNB-09055 Date 10/19/2009	Changed from "The pond design includes a discharge line and transfer pump to keep..." to "The pond design includes a transfer pump and discharge line to keep...".	-
RCOL2_11.0 2-8	11.2.3.4	11.2-6	Response to RAI No. 49 Luminant Letter no.TXNB-09055 Date 10/19/2009	Added a following description; "Texas Administrative Code (TAC), Title 30 on Environmental Quality, Part 1 Texas Commission on Environmental Quality (TCEQ), Chapter 321, Rule 321.255 on Requirements for Containment of Wastes and pond(s)."	-
RCOL2_11.0 2-8	11.2.3.4	11.2-7	Response to RAI No. 49 Luminant Letter no.TXNB-09055 Date 10/19/2009	Added following descriptions as the other applicable guidance and standards; Industry standards such as ANSI / HI -2005 "Pump standard" will be used in designing the pumps Geosynthetic Research Institute Standard GM13 will be utilized for HDPE	-
RCOL2_11.0 2-8	11.2.3.4	11.2-8	Response to RAI No. 49 Luminant Letter no.TXNB-09055 Date 10/19/2009	Changed the volume of evaporation pond from "1.4 million gallon" to "2.1 million gallon". Changed the surface area of evaporation pond from "1 acre" to "1.5 acre".	-
RCOL2_11.0 2-8	11.2.3.4	11.2-8	Response to RAI No. 49 Luminant Letter no.TXNB-09055 Date 10/19/2009	Added descriptions about programs and procedures associated with the pond.	-

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_11.0 2-9	Table 11.2-14R (Sheet 1 of 2)	11.2-18	Response to RAI No. 49 Luminant Letter no.TXNB-09055 Date 10/19/2009	"Goats" was added as the Animals considered for milk pathway.	-
RCOL2_11.0 5-2	11.5.2.5.3 11.5.2.5.4	11.5-1	Response to RAI No. 50 Luminant Letter no.TXNB-09055 Date 10/19/2009	Newly added Subsection 11.5.2.5.3 and 11.5.2.5.4	-
RCOL2_11.0 5-2	11.5.5	11.5-3	Response to RAI No. 50 Luminant Letter no.TXNB-09055 Date 10/19/2009	Combined License Information about CP COL 11.5 (1) was revised from "This COL item is addressed in Subsection 11.5.2.9." to "This COL item is addressed in Subsections 11.5.2.5.3, 11.5.2.5.4 and 11.5.2.9."	-
RCOL2_11.05-2	Table 11.5-201	11.5-3	Response to RAI No. 50 Luminant Letter no.TXNB-09055 Date 10/19/2009	Newly added Table 11.5-201.	-
RCOL2_11.05-2	Figure 11.5-201	11.5-3	Response to RAI No. 50 Luminant Letter no.TXNB-09055 Date 10/19/2009	Newly added Figure 11.5-201.	-
RCOL2_12.03-12.04-4	11.4.2.3	11.4-3	Response to RAI No.119. Luminant Letter No.TXNB-09068 Date 11/16/2009	Add "10 CFR 20.1801, 10 CFR 50 Appendix A, GDC 61 and 63" after "10CFR 20" in the eighth paragraph of Section 11.4.2.3.	-
MAP-11-201	11.2.3.1	11.2-3	Consistency with DCD rev.2	Add a sentence to be consistent with DCD Rev.2	0
MAP-11-201	11.2.3.2	11.2-6	Consistency with DCD rev.2	Add a sentence to be consistent with DCD Rev.2	0
MAP-11-201	11.4.2.3	11.4-2	Consistency with DCD rev.2	Add a sentence to be consistent with DCD Rev.2	0
MAP-11-201	11.5.2.6	11.5-1	Consistency with DCD rev.2	Add a sentence to be consistent with DCD Rev.2	0

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
MAP-11-201	11.5.2.9	11.5-2	Consistency with DCD rev.2	Add a sentence to be consistent with DCD Rev.2	0
MAP-00-201	Figure 11.2-201 (Sheet 9 of 10)	11.2-29	The change of numbering rule of Tag number	Change Tag numbers of waste monitor tank and pump.	0

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CP COL 11.2(2) Replace the last ~~five~~^{six} paragraphs in DCD Subsection 11.2.3.1 with the following. MAP-11-201

CP COL 11.2(4)

The detailed design information of release point is described in Subsection 11.2.2.

The annual average release of radionuclides is estimated by the PWR-GALE Code (Ref.11.2-13) with the reactor coolant activities that is described in Section 11.1. The parameters used by the PWR-GALE Code are provided in Table 11.2-9, and the calculated effluents are provided in Table 11.2-10R. The calculated effluents for the maximum releases are provided in Table 11.2-11R. On this site-specific application, handling of contaminated laundry is contracted to off-site services. Therefore, the detergent waste effluent need not be considered.

The calculated effluent concentrations using annual release rates are then compared against the concentration limits of 10 CFR 20 Appendix B (see Tables 11.2-12R and 11.2-13R.).

Once it is confirmed that the treated effluent meets discharge requirements, the effluent is released into Squaw Creek Reservoir via the CPNPP Units 1 and 2 circulating water return line. The liquid effluent is maintained at ambient temperature, as it is stored inside the auxiliary building (A/B) waste monitoring tanks. Currently, Squaw Creek Reservoir has a tritium concentration limit of 30,000 pCi/L (Reference 11.2-201). Based on an analysis, the tritium concentration in Squaw Creek Reservoir is anticipated to remain within the tritium limit due to the local rainfall, evaporation, and spillover (control release) from Squaw Creek Reservoir to Squaw Creek.

However, during the maximum tritium generation condition (i.e., all four units operating at full power), the tritium concentration could be exceeded. When the tritium concentration in Squaw Creek Reservoir is determined to be close to the offsite dose calculation manual (ODCM) limit, as much as half of the liquid effluent from CPNPP Units 3 and 4 can be diverted to the evaporation pond for temporary staging.

When the tritium concentration in Squaw Creek Reservoir again decreases below the operating target, the effluent in the pond is sampled and analyzed for suitability to discharge back into Squaw Creek Reservoir. In the event that both CPNPP Units 1 and 2 are temporarily not in operation, or when there is no dilution flow, the CPNPP Units 3 and 4 waste holdup tanks (WHTs) and waste monitor tanks (WMTs) have enough capacity to store more than a month of the daily waste input. The evaporation pond can also receive 100 percent of the CPNPP Units 3 and 4 liquid effluent on a temporary basis. The treated effluent release piping is non-safety and does not have any safety function. In addition, the Unit 1 flow receiver and head box, circulating water system and discharge box are not required to perform any safety function or important to safety functions.

The evaporation pond is designed to provide sufficient surface area for natural evaporation based on the local area rainfall, evaporation rate, and receiving half of the CPNPP Units 3 and 4 liquid effluent. The evaporation pond is sized to

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Isotopic concentrations are calculated, assuming 247,500 gpm per unit of circulating water from CPNPP Units 1 and 2 (Reference 11.2-201, ODCM for CPNPP Units 1 and 2). The isotopic ratios between the expected releases and the concentration limits of 10 CFR 20 Appendix B are listed in Tables 11.2-12R. The isotopic ratios between the maximum releases and the concentration limits of 10 CFR 20 Appendix B are listed in Table 11.2-13R. These ratio values are less than the allowable value of 1.0.

The individual doses and population doses are evaluated with the LADTAP II Code (Reference 11.2-14). The site-specific parameters used in the LADTAP II Code are listed in Table 11.2-14R, and the calculated individual doses are listed in Table 11.2-15R. And the calculated population dose from liquid effluents is 2.14 person-rem for whole-body and 2.04 person-rem for thyroid. Based on these parameters, the maximum individual dose to total body is 0.90 mrem/yr (adult) and the maximum individual dose to organ is 1.28 mrem/yr (teenager's liver). These values are less than the 10 CFR 50 Appendix I criteria of 3 mrem/yr and 10 mrem/yr, respectively. Evaluating the dose contribution from the evaporation pond (conservatively assuming 50% evaporation of the diverted flow) amounts to 1.15E-01 mrem/yr (Adult's GI-Tract) described in FSAR Table 11.3-204 and the combined dose from the vent stack gaseous emission and the evaporation pond emission amounts to 2.73E+00 mrem/yr (Adult's GI-Tract) described in FSAR Table 11.3-205, which is well within the 10 CFR Appendix I limit. Based on the above, the evaporation pond meets the acceptance criteria of SRP 11.2. With regards to RG 1.143, RG 1.143 does not provide any guidance on specific design requirements for an evaporation pond. Hence RG 1.143 is not applicable to the design of the evaporation pond. According to NUREG-0543 (Reference 11.2-202), there is reasonable assurance that sites with up to four operating reactors that have releases within Appendix I design objective values are also in conformance with the EPA Uranium Fuel Cycle Standard, 40 CFR 190. Once the proposed CPNPP Units 3 and 4 are constructed, the Comanche Peak site will consist of four operating reactors.

11.2.3.2 Radioactive Effluent Releases Due to Liquid Containing Tank Failures

CP COL 11.2(3) Replace the ninth sentence in the second paragraph in DCD Subsection 11.2.3.2 with the following.

MAP-11-201

The assessment of this model using the site specific parameters to evaluate the conservativeness of this analysis is described below in this subsection.

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11.4.2.1.1 Dry active wastes

CP COL 11.4(1) Replace the last paragraph in DCD Subsection 11.4.2.1.1 with the following.

Descriptions of wastes other than normally accumulated non-radioactive wastes such as wasted activated carbon from GWMS charcoal beds, solid wastes coming from component (Steam generator, Reactor vessel etc.) replacement activities, and other unusual cases will be described in the process control program and will be implemented in accordance with the milestone listed in Table 13.4-201.

11.4.2.2.1 Spent Resin Handling and De-watering Subsystem

STD COL 11.4(8) Replace the least sentence in the second paragraph in DCD Subsection 11.4.2.2.1 with the following.

The P&ID for the SWMS is provided in Figure 11.4-201.

11.4.2.3 Packaging, Storage, and Shipping

Replace the third paragraph in DCD Subsection 11.4.2.3 with the following.

CP COL 11.4(7) Some of the dry active waste is only slightly contaminated and permits contact handling. The SWMS design does not include compaction equipment or drum dryer equipment. These wastes are treated by contract services from specialized facilities.

MAP-11-201

CP COL 11.4(1) Replace the last sentence of the fourth paragraph in DCD Subsection 11.4.2.3 with the following.

A common radwaste interim storage facility is provided between Units 3 and 4 and is designed to store classes A, B, and C wastes from all four CPNPP units for up to 10 years. The common radwaste facility is designed to maintain onsite and offsite radiological doses within the limits in 10 CFR Part 20 and to maintain occupational exposures ALARA. This common radwaste interim storage facility

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Main Control Room and Radwaste Control Room are alarmed automatically. The monitor is not safety-related and does not perform any safety function. | RCOL2_11.0
5-2

11.5.2.6 Reliability and Quality Assurance

CP COL 11.5(4) Replace ~~the first sentence in the third paragraph and the fourth paragraph in DCD~~ | MAP-11-201
CP COL 11.5(5) Subsection 11.5.2.6 with the following.

The procedures for acquiring and evaluating samples of radioactive effluents, as well as procedures for inspection, calibration, and maintenance of the monitoring and sampling equipment are developed in accordance with RG 1.21 and RG 4.15. The procedures for the radioactive waste systems are developed in accordance with RG 1.33. The analytical procedures are developed in accordance with RG 1.21. These procedures, described in Subsection 13.5.2, are prepared and implemented under the quality assurance program referenced in Chapter 17. Inspections are conducted daily on the process and effluent monitoring and sampling system through observance of the system channels. Periodically, the system is further checked during the course of reactor operation through the implementation of a check source. The detector response is compared to the instrument's background count rate to determine functionality. Calibration of monitors is conducted through the use of known radionuclide sources as documented by national standards. Maintenance is conducted routinely on the monitoring and sampling system, which is easily accessible, as is the accompanying power supply. Electronic and sampling components undergo a full servicing, periodically, as detailed in the operational instructions in order to maintain consistent operation.

MAP-11-201

11.5.2.7 Determination of Instrumentation Alarm Setpoints for Effluents

CP COL 11.5(2) Replace the second sentence in DCD Subsection 11.5.2.7 with the following.

The methodology for the calculation of the alarm setpoints is part of the ODCM described in Subsection 11.5.2.9.

11.5.2.8 Compliance with Effluent Release Requirements

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- CP COL 11.5(4) Replace the last sentence in the first paragraph and the second paragraph in DCD
CP COL 11.5(5) Subsection 11.5.2.8 with the following.

Site-specific procedures on equipment inspection, calibration, maintenance, and regulated record keeping, which meet the requirements of 10 CFR 20.1301, 10 CFR 20.1302, and 10 CFR 50 Appendix I, are prepared and implemented under the quality assurance program referenced in Chapter 17.

11.5.2.9 Offsite Dose Calculation Manual

Replace ~~the first sentence in~~ the first paragraph and the second paragraph in DCD Subection 11.5.2.9 with the following.

MAP-11-201

- CP COL 11.5(1) Fulfillment of the 10 CFR 50 Appendix I guidelines requires effluent monitor data.
CP COL 11.5(2) A description of the monitor controls and the calculation of the monitor setpoints are part of the ODCM. The ODCM also provides the rationale for compliance with the radiological effluent Technical Specifications and for the calculation of appropriate setpoints for effluent monitors. The ODCM follows the guidance of NEI 07-09A. The ODCM and radiological effluent Technical Specifications, which reflect the new reactor units, are implemented in accordance with the milestone listed in Table 13.4-201. The ODCM will be re-written to apply to all four CPNPP units and to conform with the NEI template before receipt of radioactive material in Unit 3 in accordance with FSAR Table 13.4-201. The manual will also contain the planned effluent discharge flow rates and addresses the numerical guidelines stated in 10 CFR 50, Appendix I (Ref. 11.5-3). The manual will be produced in accordance with the guidance of NUREG-1301 (Ref. 11.5-21), and NUREG-0133 (Ref. 11.5-18), and with the guidance of RG 1.109 (Ref. 11.5-22), RG 1.111 (Ref. 11.5-23), or RG 1.113 (Ref. 11.5-24). The manual will include a discussion of how the NUREGs, RGs, or alternative methods are implemented.

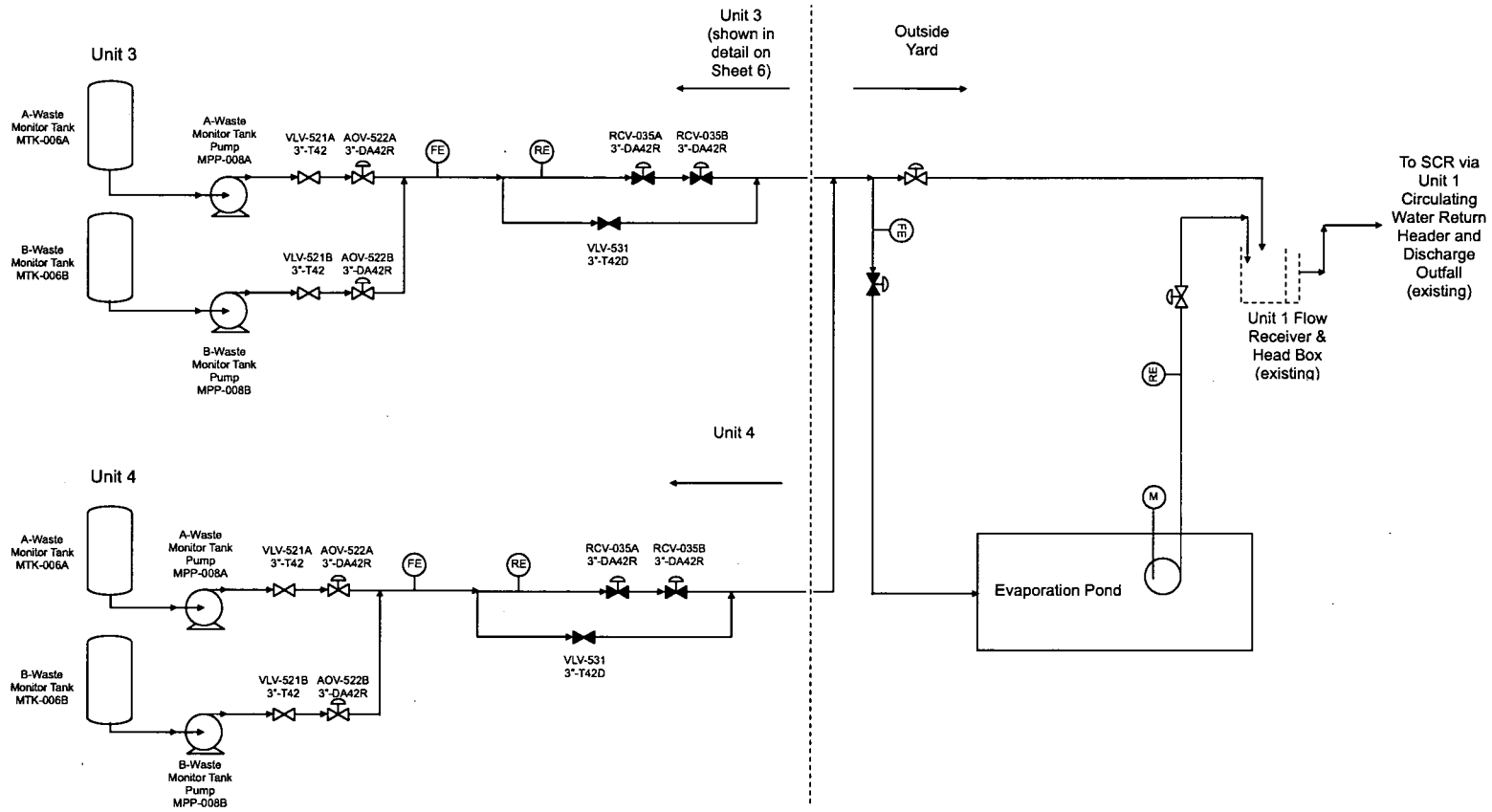
MAP-11-201

11.5.2.10 Radiological Environmental Monitoring Program

- CP COL 11.5(3) Replace the content of DCD Subsection 11.5.2.10 with the following.

The program for CPNPP Units 3 and 4 is going to be described in the plant Technical Specification of CPNPP Units 3 and 4 and the ODCM, which reflect the new reactor units, is implemented in accordance with the milestone listed in Table 13.4-201. This program measures direct radiation using thermoluminescent dosimeters as well as analyses of samples of the air, water, vegetation, and fauna in the surrounding area. The guidance outlined in NUREG-1301 (Reference 11.5-21) and NUREG-0133 (Reference 11.5-18) is to be used when developing the radiological environmental monitoring program. The radiological environmental monitoring program for CPNPP Units 3 and 4 follows the guidance of NEI 07-09A.

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MAP-00-201

Figure 11.2-201 Liquid Waste Management System Piping and Instrumentation Diagram (Sheet 9 of 10)

Chapter 12

Chapter 12 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_12.02-1	12.2.1.1.10	12.2-1	Response to RAI No.85. Luminant Letter No.TXNB-09062 Date 11/5/2009	COL 12.2(1) was revised to assure that the site will be able to track the source type, quantity, form, location, and use such that the facility design will accommodate the activity and types of sources procured and temporarily utilized on site during the construction and operational phase.	-
RCOL2_12.02-2	12.2.1.1.10	12.2-1	Response to RAI No.89. Luminant Letter No.TXNB-09062 Date 11/5/2009	COL 12.2(1) was revised to describe the evaporation pond as a miscellaneous source.	-
RCOL2_12.02-2	Table 12.2-201 (Sheet 1 of 2) (Sheet 2 of 2)	12.2-4	Response to RAI No.89. Luminant Letter No.TXNB-09062 Date 11/5/2009	Table 12.2-201 was added to present the estimated fission and corrosion product activity in the evaporation pond water.	-
RCOL2_12.05-3	12.1.1.3.1 12.1.1.3.2 12.1.1.3.3 12.1.3 12.5	12.1-1 12.1-2 12.5-1	Response to RAI No.117. Luminant Letter No.TXNB-09068 Date 11/16/2009	Delete "in combination with existing or modified CPNPP Units 1 and 2 site program information" after "NEI 07-08 (Reference 12.1-2)" in Section 12.1.1.3.1, 12.1.1.3.2 and 12.1.1.3.2, after "NEI 07-03A (Reference 12.1-25)" in the second paragraph of Section 12.1.3 and after "NEI 07-08, Generic FSAR Template Guidance for Ensuring that Occupational Radiation Exposures are as Low as is Reasonably Achievable (ALARA), Revision 3" in the third paragraph of Section 12.5.	-

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_12.03-12.04-2	12.2.1.1.10	12.2-1	Response to RAI No.119. Luminant Letter No.TXNB-09068 Date 11/16/2009	Change "Title 10, Code of Federal Regulations (CFR) Part 20" to "10 CFR 20, 10 CFR 50, Appendix A, GDC 61 and 63" in the second paragraph of Section 12.2.1.1.10. Add "and Generic Letter 81.38. The Interim Radwaste Storage Building design criteria is described in Subsection 11.4.2.3." at the end of the second paragraph of Section 12.2.1.1.10.	-
RCOL2_12.03-12.04-6	12.4.1.9	12.4-1	Response to RAI No.119. Luminant Letter No.TXNB-09068 Date 11/16/2009	Add following sentences at the end of the second paragraph of Section 12.4.1.9; "Once CPNPP Unit 3 completes 5% power ascension testing and proceeds to commercial operation, the remaining construction workers doses will be maintained ALARA in accordance with 10 CFR 20.1301 as described in Section 12.5, Operational Radiation Protection Program. Subsection 13.4 provides an implementation milestones for the Operational Radiation Protection Program that meets the regulations provided in 10 CFR Parts 20.1101 (a) and (b), 1301 and 1302. Once CPNPP Units 3 and 4 become operational, the estimated dose for remaining construction workers will be maintained ALARA at less than 2 mrem/hr."	-

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_12.05-3	12.5	12.5-1	Response to RAI No.117. Luminant Letter No.TXNB-09068 Date 11/16/2009	Add following paragraphs after the fourth paragraph of Section 12.5; "Add the following information after the first paragraph in Subsection 12.5.3.2 of NEI 07-03A. The selection and calibration of this instrumentation and equipment is based on relevant industry standards such as ANSI N42.17A-1989, as it relates to the accuracy and overall performance of portable survey instrumentation, and ANSI N323A-1997, as it relates to the calibration and maintenance of portable radiation survey instruments."	-
RCOL2_12.03-12.04-8	12.4.1.9.2.1	12.4-2	Response to RAI No.119. Luminant Letter No.TXNB-09068 Date 11/16/2009	Add following paragraph after the fourth paragraph of Section 12.4.1.9.2.1; "The CPNPP site will be continually monitored during the construction period and appropriate actions will be taken as necessary to ensure that the construction workers are protected from radiation exposure. Use of radioactive materials and sources during construction, such as sources used in radiography, will be controlled and monitored to maintain construction worker doses ALARA."	-

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_12.03-12.04-6	12.4.1.9.4.3	12.4-5	Response to RAI No.119. Luminant Letter No.TXNB-09068 Date 11/16/2009	Add following paragraph after the first paragraph of Section 12.4.9.4.3; "The location for the Units 3 and 4 liquid waste management system (LWMS) connection to the Units 1 and 2 is an open pit near the existing Units 1 and 2 waste treatment ponds (Northeast corner of Units 1 and 2 radioactive waste treatment facility). The CPNPP Units 3 and 4 effluent tap will be made into CPNPP Units 1 and 2 at the pipe inside the Unit 1 Turbine Building. In accordance with the Radiation Protection Program established (see FSAR Subsection 13.4 and Table 13.4-201), the construction worker dose for this connection tie-in will be ALARA and meet the limits established in 10 CFR 20.1301. Pre-staging of the connection, health physics surveys and other effective techniques will be utilized to ensure that worker doses are ALARA in accordance with an approved Radiation Work Permit."	-
RCOL2_12.03-12.04-3	12.5	12.5-1	Response to RAI No.119. Luminant Letter No.TXNB-09068 Date 11/16/2009	Add following paragraphs after the fourth paragraph of Section 12.5; "Add the following information after the first paragraph in Subsection 12.5.3.2 of NEI 07-03A. The selection and calibration of this instrumentation and equipment is based on relevant industry standards	-

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
				such as ANSI N42.17A-1989, as it relates to the accuracy and overall performance of portable survey instrumentation, and ANSI N323A-1997, as it relates to the calibration and maintenance of portable radiation survey instruments."	
RCOL2_12.05-4	12.5	12.5-1	Response to RAI No.117. Luminant Letter No.TXNB-09068 Date 11/16/2009	Add following paragraphs after the sixth paragraph of Section 12.5; "Add the following information prior to the last paragraph in Subsection 12.5.4.1 of NEI 07-03A. Calibration of portable and non-portable radiation protection equipment is normally performed onsite by station personnel, although, calibration by a qualified vendor is allowed. Calibration is performed using written procedures and radioactive sources traceable to the National Institute of Standards (NIST) or using transfer instruments, such as electrometers, which have been calibrated using NIST traceable sources."	-
RCOL2_12.03-12.04-2	12.5	12.5-1	Response to RAI No.119. Luminant Letter No.TXNB-09068 Date 11/16/2009	Change the tenth paragraph of Section 12.5 to read as follows; "The locations and radiological controls of the radiation zones on plant layout drawings are located in DCD Subsection 12.3.1.2. Administrative controls for restricting access to Very High Radiation Areas are incorporated into plant	-

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
				<p>procedures which require approval by the Plant Manager (or designee) for each entry. Entry will be controlled through the Radiation Work Permit (RWP) process. Physical access controls for Very High Radiation Areas are provided by physical barriers such as lockable gates or doors which prevent unauthorized access. It's not necessary to enter these areas periodically. DCD Subsection 12.3.1.2 includes detailed drawings of the very high radiation areas and indicates the physical access controls. Table 12.5-201 summarizes the plant areas with the potential to become very high radiation areas. Radiation monitor locations for each area are indicated in DCD Subsection 12.3.4."</p>	
<p>RCOL2_12.03-12.04-1 RCOL2_12.01-4 RCOL2_12.03-12.04-7</p>	12.5	12.5-2	<p>Response to RAI No.99. Luminant Letter No.TXNB-09064 Date 11/11/2009</p> <p>Response to RAI No.118 and 119. Luminant Letter No.TXNB-09068 Date 11/16/2009</p>	<p>Add following paragraphs after the twelfth paragraph of Section 12.5; "Add the following information at the end of Subsection 12.5.4.8 of NEI 07-03A. In addition, NEI Template 08-08 Revision 3, "Generic FSAR Template Guidance for Life-Cycle Minimization of Contamination" is fully adopted. And also, the guidance provided in NEI 08-08 will be used at CPNPP Units 3 and 4 to minimize contamination during construction,</p>	-

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
				operation and decommissioning. This will include the use of photographs and video records during construction to facilitate updating the conceptual site model for groundwater movement and aid in revising the groundwater monitoring plan post-construction. Final layout drawings, photographs, global positioning survey information and video records will be used in assessing the proper location for groundwater monitoring wells, foundations, pipes, conduits and other below grade structures."	
RCOL2_12.03-12.04-2	12.5	12.5-2	Response to RAI No.119. Luminant Letter No.TXNB-09068 Date 11/16/2009	Add Table 12.5-201 "Summary of Comanche Peak Units 3 and 4 Very High Radiation Areas (VHRAs)"	-

Chapter 13

Chapter 13 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL_13.05.02.01-1	13.5.2	13.5-3	Response to RAI No.37 Luminant Letter no.TXNB-09055 Date 10/19/2009	Change the subsection number to "DCD subsection 13.5.2"	-
RCOL_13.05.02.01-3, 4, 5, 6	13.5.2.1	13.5-4	Response to RAI No.37 Luminant Letter no.TXNB-09055 Date 10/19/2009	The descriptions have been revised to refer to plant-specific technical guidelines (P-STGs)	-
RCOL_13.05.02.01-6	13.5.2.1	13.5-4 13.5-5	Response to RAI No.37 Luminant Letter no.TXNB-09055 Date 10/19/2009	The descriptions regarding EOP V&V process have been added.	-
RCOL2_13.01.01-2	Appendix 13AA, Subsection 13AA.2	13AA-3	Response to RAI No. 68 Luminant Letter no.TXNB-09061 Date 11/5/2009	Deleted the reference to Appendix 14B which was incorrect.	-
RCOL2_13.01.01-3	13.1.3	13.1-12	Response to RAI No. 68 Luminant Letter no.TXNB-09061 Date 11/5/2009	Change indicates that RO and SRO candidates meet the requirements of ACAD 09-001 Section 6, "RO and SRO Candidate Education, Experience, and Training Requirements for Initial Startup and Operation of New Construction Plants (Cold Licensing)	-
RCOL2_13.01.01-3	13.2	13.2-1	Response to RAI No. 68 Luminant Letter no.TXNB-09061 Date 11/5/2009	Change describes the establishment of CPNPP partnerships in addition to the Industrial Technology Program.	-
RCOL2_13.01.01-3	13.2.1.1	13.2-1 13.2-2	Response to RAI No. 68 Luminant Letter	Change describes the Training Program accreditation time	-

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
			no.TXNB-09061 Date 11/5/2009	frame using the guidance provided by ACAD 08-001.	
RCOL2_13.01.01-3	Figure 13.1-205	13.1-31	Response to RAI No. 68 Luminant Letter no.TXNB-09061 Date 11/5/2009	Change adds Figure to show relative timeline of hiring and training milestones for various types of personnel.	-
RCOL_13.01.02-13.01.03-2	13.1.1.1.1	13.1-2	Response to RAI No. 69 Luminant Letter no.TXNB-09061 Date 11/5/2009	Added responsibilities of Technical Supervisors.	-
RCOL_13.01.02-13.01.03-2	13.1.1.2.2	13.1-5	Response to RAI No. 69 Luminant Letter no.TXNB-09061 Date 11/5/2009	Added reporting line and duties of the System Engineering Supervisors.	-
RCOL_13.01.02-13.01.03-5	13.1.2.1	13.1-8	Response to RAI No. 69 Luminant Letter no.TXNB-09061 Date 11/5/2009	Added statement that Shift Operations Manager position requires meeting ANSI/ANS 3.1-1993 qualification requirements.	-
RCOL_13.01.02-13.01.03-2	13.1.2.2	13.1-10	Response to RAI No. 69 Luminant Letter no.TXNB-09061 Date 11/5/2009	Added reporting line and duties of the Maintenance Team Supervisors.	-
RCOL_13.01.02-13.01.03-2	13.1.2.3	13.1-11	Response to RAI No. 69 Luminant Letter no.TXNB-09061 Date 11/5/2009	Added reporting line and duties of the Radiation Protection Supervisors.	-
RCOL_13.01.02-13.01.03-2	Table 13.1-201 (Sheet 4 of 7)	13.1-18	Response to RAI No. 69 Luminant Letter no.TXNB-09061 Date 11/5/2009	Added the position of technical supervisor as System Engineering Supervisor to the table.	-
RCOL_13.04-2	Table 13.4-201 (Sheet 1 of	13.4-2	Response to RAI No. 71 Luminant Letter	Items 1 and 2 have been revised to reference the FSAR,	-

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
	7)		no.TXNB-09061 Date 11/5/2009	Program Source, and milestones for the Primary- to-Secondary Leakage Monitoring Program.	
RCOL_13.04-3	Table 13.4-201 (Sheets 1 and 2 of 7)	13.4-2 and 13.4-3	Response to RAI No. 71 Luminant Letter no.TXNB-09061 Date 11/5/2009	Items 1, 2, and 6 have been revised to reference 10CFR50.34.f (2) (xxvi) and FSAR Subsections that describe the Highly Radioactive Fluid Systems Outside Containment monitoring program requirements.	-
RCOL_13.04-1	Table 13.4-201 (Sheet 4 of 7)	13.4-5	Response to RAI No. 71 Luminant Letter no.TXNB-09061 Date 11/5/2009	Revised Item 9 to include Ground Water Monitoring Program implementation milestone.	-

Chapter 14

Chapter 14 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_14.02-9	14.2.12.1.112	14.2-6	Response to RAI No. 86 Luminant Letter no. TXNB-09062 Date 11/5/2009	COLA FSAR Subsection 14.2.12.1.112, "Personnel Monitors and Radiation Survey Instruments Preoperational Test", has been revised to specify that calibration be performed in accordance with the radiation protection program	-
RCOL2_14.02-12	14.2	14.2-6	Response to RAI No. 86 Luminant Letter no. TXNB-09062 Date 11/5/2009	FSAR Subsection 14.2.12.1.112 has been revised to include laboratory equipment consistent with RG 1.68 Appendix A, item 1.k(3).	-
RCOL2_14.02-13	14.2	14.2-6	Response to RAI No. 86 Luminant Letter no. TXNB-09062 Date 11/5/2009	FSAR Subsection 14.2.12.1.112 has been revised to specify that calibration be performed in accordance with the radiation protection program.	-
RCOL2_14.02-14	14.2.12.1.112	14.2-6	Response to RAI No. 86 Luminant Letter no. TXNB-09062 Date 11/5/2009	Subsection 14.2.12.1.112 has been revised to include reference to the radiation protection program for calibration requirements.	-
RCOL2_14.02-4	14.2	14.2-2	Response to RAI No. 75 Luminant Letter no. TXNB-09063 Date 11/11/2009	Incorporated ANS-3.1 Requirements for test personnel qualifications in 14.2.2.	-
RCOL2_14.02-4	14.2	14.2-18	Response to RAI No. 75 Luminant Letter no. TXNB-09063 Date 11/11/2009	Added Table 14.2-203 "Comparison with the Qualification Requirements of the Staffing in ANS-3.1"	-

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_14.02-6	14.2.11	14.2-5	Response to RAI No. 75 Luminant Letter no. TXNB-09063 Date 11/11/2009	Added statement the periodic reviews will be done to ensure test program schedules do not affect one another	-
RCOL2_14.02-15	14.2.12.1.113	14.2-7 14.2- 8	Response to RAI No. 98 Luminant Letter no. TXNB-09064 Date 11/11/2009	FSAR Subsection 14.2.12.1.113 has been revised to include testing of the ESWS valves to the FSS at the required flow rates to the hose stations located in the RB and ESWS pump house.	-
RCOL2_14.02-16	14.2.12.1.113	14.2-7 14.2- 8	Response to RAI No. 98 Luminant Letter no. TXNB-09064 Date 11/11/2009	Performance testing of basin water level logic has been specified in item A.4. The phrase mentioning the UHS transfer pump interlocks in C.1 and D.2 has been deleted. Performance testing of the UHS transfer pumps has been added as specified in item C.2 and in the acceptance criteria described in D.1. "Interlocks" in Objective 3 has been deleted.	-

Chapter 15

Chapter 15 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
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Chapter 16

Chapter 16 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
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Chapter 17

Chapter 17 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_17.0 5-3 RCOL2_17.0 5-8	17.3.1	17.3-2	Response to RAI No. 79 Luminant Letter no.TXNB-09065 Date 11/13/2009	17.3-202 NuBuild Quality Assurance Project Plan, Revision 1, Luminant, October 2008. 17.3-203 Comanche Peak Steam Electric Station Final Safety Analysis Report, Chapter 17, Amendment 101, Luminant, 2007. 17.3-204 US-APWR Quality Assurance Program Description, SQ-QD-070001, Revision 3, MNES, October 2008. 17.3-205 Quality Assurance Program Requirements for Nuclear Facilities, N45.2-1971, ANSI/ASME, 1971. 17.3-206 Quality Assurance Requirements for Nuclear Facility Applications, NQA-1-1994, ANSI/ASME, 1994.	-
RCOL2_17.0 5-8	17.5.3	17.5-1	Response to RAI No. 79 Luminant Letter no.TXNB-09065 Date 11/13/2009	Deleted "of this Final Safety Analysis Report (FSAR), for design, construction and operation phases" and "utilize" Added "initially use" and "for the engineering, procurement, and construction (EPC) phase."	-
RCOL2_17.0 4-4	17.4.3	17.4-1	Response to RAI No. 92 Luminant Letter no.TXNB-09077 Date 12/9/2009	Clarifying text to state the O-RAP objectives	-

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_17.0 4-2	17.4.5	17.4-3	Response to RAI No. 92 Luminant Letter no.TXNB-09077 Date 12/9/2009	Added text to list other operational programs	-
RCOL2-17.0 4-3	Table 17.4-201	17.4-5	Response to RAI No. 92 Luminant Letter no.TXNB-09077 Date 12/9/2009	Revised table to list all cooling tower fans.	-
RCOL2-17.0 4-4	17.4.3	17.4-1	Response to RAI No. 92 Luminant Letter no.TXNB-09077 Date 12/9/2009	Revised text to emphasize the continuity of the basic RAP established during the design phase of the project.	-

Chapter 18

Chapter 18 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
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Chapter 19

Chapter 19 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSA R T/R
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Attachment 2

COL Application Part 4, Technical Specifications Revision 1, Update Tracking Report Revision 0

(This attachment includes marked-up Technical Specifications pages. Because of text additions and deletions, the page numbers on the marked-up pages may not coincide with the page numbers in Technical Specifications Revision 1.)

January 8, 2010

**Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application**

Part 4

Technical Specifications Revision 1

Update Tracking Report

Revision 0

Revision History

Revision	Date	Update Description
-	11/20/2009	COLA Revision 1 Transmittal See Luminant Letter no. TXNB-09074 Date 11/20/2009
-	11/11/2009	Updated Chapters: Introduction, Specifications, Bases See Luminant Letter no. TXNB-09064 Date 11/11/2009 Incorporated responses to following RAIs: No. 90, 91
-	12/16/2009	Updated Chapters: Specifications, Bases See Luminant Letter no. TXNB-09081 Date 12/16/2009 Incorporated responses to following RAIs: No. 121
0	1/8/2010	Updated Chapters: Introduction, Specifications, Bases

Introduction

Introduction – Tracking Report Revision List

Change ID No.	Section	TS Rev 1 Page	Reason for change	Change Summary	Rev. of T/R
RCOL2_16-16	Section A	1, 2, 3, 5	Response to RAI No. 91 Luminant Letter no.TXNB-09064 Date 11/11/2009	Deleted COL Items CP COL 16.1_3.3.1 (1), CP COL 16.1_3.3.2(1), CP COL 16.1_3.3.5(1), and CP COL 16.1_3.3.6(1).	-
RCOL2_16-15	Section A	6	Response to RAI No. 91 Luminant Letter no.TXNB-09064 Date 11/11/2009	Added the additional justification for CP COL 16.1_3.3.5 (1).	-
RCOL2_16-16	Section A	14, 15	Response to RAI No. 91 Luminant Letter no.TXNB-09064 Date 11/11/2009	Added CP COL 16.1_5.5.21 (1) "Setpoint Control Program Methodology and Implementation", replaced "CP SUP 16.1_5.5.21 (1)" with "CP SUP 16.1_5.5.22 (1)", and replaced referred section 5.5.21 with 5.5.22.	-
MAP-16-201	Section A	6, 13, 16	Consistency with DCD Rev.2 Incorporate editorial relevant changes from Chapter 16 of DCD Revision 2	Deleted CP COL 16.1_3.4.17(1), CP COL 16.1_5.5.9(1), CP COL 16.1_5.6.7(1),	0

Specifications

Specifications – Tracking Report Revision List

Change ID No.	Section	TS Rev 1 Page	Reason for change	Change Summary	Rev of T/R
RCOL4_16-8	3.7.9	3.7.9-1	Response to RAI No. 90 Luminant Letter no.TXNB-09064 Date 11/11/2009	Revised Completion Time of condition A to 72 hours.	-
RCOL4_16-4	3.7.9	3.7.9-1 3.7.9-2	Response to RAI No. 90 Luminant Letter no.TXNB-09064 Date 11/11/2009	Condition B was divided into Condition B and new Condition C to address basin temperature and water level, respectively. Each Completion Time was revised respectively. In addition, the explanation of Condition B and new Condition C has been changed from "One or more UHS basins with ..." to "One or more required UHS basins with ..." Following Condition IDs were moved up due to new Condition C.	-
RCOL4_16-1	3.7.9	3.7.9-2	Response to RAI No. 90 Luminant Letter no.TXNB-09064 Date 11/11/2009	Surveillance Requirement 3.7.9.5 was changed to verify start on manual actuation of each UHS transfer pump.	-
RCOL4_16-7	3.7.9	3.7.9-2	Response to RAI No. 90 Luminant Letter no.TXNB-09064 Date 11/11/2009	Frequency of SR 3.7.9.5 was revised to "In accordance with the Surveillance Frequency Control Program".	-
RCOL4_16-5	3.7.9	3.7.9-2	Response to RAI No. 90 Luminant Letter no.TXNB-09064 Date 11/11/2009	SR 3.7.9.6 and SR 3.7.9.7 were newly added. The bases were also newly added.	-
RCOL4_16-9	4.1	4.0-1	Response to RAI No. 90 Luminant Letter no.TXNB-09064 Date 11/11/2009	The description of site location was revised to be consistent with FSAR subsection 2.1.1.1.	-
-	-	-	Incorporate the DCD Chapter 16 changes that are relevant to Part 4 changes.	Incorporate changes as describe in MHI Letter "Update of Chapter 16 of US-APWR DCD" # UAP-HF-09493 dated 10/30/2009	-
RCOL2_09.02.05-05	3.7.9	3.7.9-2	Response to RAI No. 121 Luminant Letter No. TXNB-09081 Date 12/16/2009	Revised surveillance requirement SR 3.7.9.1 and description for LCO to change the water level from 2,850,000 gallons to 2,800,000 gallons.	-

RCOL2_09. 02.05-14	3.7.9	3.7.9-2	Response to RAI No. 121 Luminant Letter No. TXNB-09081 Date 12/16/2009	Revised water temperature for Surveillance Requirement SR 3.7.9.2 from 95 to 93 degrees F.	-
-	-	-	Consistency with DCD Rev.2 Incorporate editorial relevant changes from Chapter 16 of DCD Revision 2	Incorporate changes as describe in MHI Letter DCD Revision 2 # UAP-HF-09490 dated 10/27/2009	0

Bases

Bases – Tracking Report Revision List

Change ID No.	Section	TS Rev 1 Page	Reason for change	Change Summary	Rev . of T/R
RCOL4_16-8	B 3.7.9	B3.7.9-2 B3.7.9-3	Response to RAI No. 90 Luminant Letter no.TXNB-09064 Date 11/11/2009	Revised bases for Completion Time of condition A.	-
RCOL4_16-4	B 3.7.9	B3.7.9-3 B3.7.9-4	Response to RAI No. 90 Luminant Letter no.TXNB-09064 Date 11/11/2009	Bases for Condition B was divided into Condition B and new Condition C to address basin temperature and water level, respectively. Each Bases for Completion Time was revised in accordance with the change of specification. Following Condition IDs were moved up due to new Condition C.	-
RCOL4_16-1	B 3.7.9	B3.7.9-5	Response to RAI No. 90 Luminant Letter no.TXNB-09064 Date 11/11/2009	The Bases for Surveillance Requirement 3.7.9.5 was changed in accordance with the change of Surveillance Requirement.	-
RCOL4_16-7	B 3.7.9	B3.7.9-5	Response to RAI No. 90 Luminant Letter no.TXNB-09064 Date 11/11/2009	The Bases for SR 3.7.9.5 was revised in accordance with the change of SR 3.7.9.5 Frequency.	-
RCOL4_16-5	B 3.7.9	B3.7.9-5	Response to RAI No. 90 Luminant Letter no.TXNB-09064 Date 11/11/2009	Bases for SR 3.7.9.6 and SR 3.7.9.7 were newly added.	-
RCOL4_16-2	B 3.7.9	B3.7.9-1	Response to RAI No. 90 Luminant Letter no.TXNB-09064 Date 11/11/2009	Added the following sentence: "The stored water level provides adequate net positive suction head (NPSH) to the ESW pump during a 30-day period of operation following the design basis LOCA without makeup."	-
RCOL4_16-3	B 3.7.9	B3.7.9-4	Response to RAI No. 90 Luminant Letter no.TXNB-09064 Date 11/11/2009	Added justification for the selected Completion Time of 7 days for Required Actions D.1 and D.2.1.	-
RCOL4_16-2	B 3.7.9	B3.7.9-4	Response to RAI No. 90 Luminant Letter no.TXNB-09064 Date 11/11/2009	Added the following sentence to the bases of SR 3.7.9.1: "Plant procedures provide the corresponding water level to be verified to assure a usable volume of 2,850,00 gallons, accounting for unusable volume and measurement uncertainty."	-

RCOL4_16-7	B 3.7.9	B3.7.9-5	Response to RAI No. 90 Luminant Letter no.TXNB-09064 Date 11/11/2009	REFERENCES, first reference: "FSAR Chapter 9" was revised to "FSAR Subsection 9.2.5."	-
-	-	-	Incorporate the DCD Chapter 16 changes that are relevant to Part 4 changes.	Incorporate changes as describe in MHI Letter "Update of Chapter 16 of US-APWR DCD" # UAP-HF-09493 dated 10/30/2009	-
RCOL2_09.02.05-05	3.7.9	B3.7.9-2 B3.7.9-4	Response to RAI No. 121 Luminant Letter No. TXNB-09081 Date 12/16/2009	Revised surveillance requirement SR 3.7.9.1 and description for LCO to change the water level from 2,850,000 gallons to 2,800,000 gallons.	-
RCOL2_09.02.05-14	3.7.9	B3.7.9.2 B3.7.9.5	Response to RAI No. 121 Luminant Letter No. TXNB-09081 Date 12/16/2009	Revised water temperature for Surveillance Requirement SR 3.7.9.2 from 95 to 93 degrees F.	-
RCOL2_09.02.05-14	3.7.9	B3.7.9-2	Response to RAI No. 121 Luminant Letter No. TXNB-09081 Date 12/16/2009	Revised second paragraph of Applicable Safety Analysis to provide description that the operating limits are based on shutdown with LOOP. Revised LCO section to provide clarification that the ESWS will remove heat during a shutdown with LOOP and also revised the temperature from 95 to 93 degrees F.	-
-	-	-	Consistency with DCD Rev.2 Incorporate editorial relevant changes from Chapter 16 of DCD Revision 2	Incorporate changes as describe in MHI Letter DCD Revision 2 # UAP-HF-09490 dated 10/27/2009	0

**Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application
Part 4, Technical Specifications**

The purpose of loss of voltage protection is to protect voltage sensitive loads, such as motors, whenever the bus voltage drops below the acceptable value. For equipment protection, only a short time is allowed to give the grid a chance to recover. Since the transmission system for Units 3 and 4 is provided by the same Transmission Service Provider and associated with the same power pool as Units 1 and 2, the setting of loss of voltage protection of Units 1 and 2 was duplicated.

RCOL2_16-1
5

The purpose of degraded voltage protection is to assure that the plant equipment is not impacted by voltage degradation in the local grid (no faults present). Therefore a longer time is allowed to give the grid a chance to recover. Since all Comanche Peak Units are equipped with similar plant equipment, the setting of degraded voltage protection of Units 1 and 2 was duplicated.

~~CP COL 16.1_3.4.17(1)
Steam Generator (SG) Tube Integrity~~

MAP-16-201

US APWR TS Wording in DCD
~~LCO 3.4.17 and associated Bases discuss steam generator tube repairs in [].~~

PSTS Wording
~~The discussion of steam generator tube repairs specified in [] was deleted from LCO 3.4.17 and associated Bases.~~

Justification
~~Establishes consistency with changes to "5.5.9 Steam Generator (SG) Program".~~

**CP COL 16.1_3.7.9(1)
Ultimate Heat Sink**

US-APWR TS Wording in DCD
The bracketed information in LCO 3.7.9 of the US-APWR TS reads:
3.7.9 Ultimate Heat Sink (UHS)
[Not applicable to US-APWR Design Certification. Site-specific information to be provided by COL Applicant.]

The bracketed information in B 3.7.9 of the US-APWR TS reads:
B 3.7.9 Ultimate Heat Sink (UHS)
[Not applicable to US-APWR Design Certification. Site-specific information to be provided by COL Applicant.]

Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application
Part 4, Technical Specifications

Licensed Senior Reactor Operators (SRO) and licensed Reactor Operators (RO) shall meet or exceed the minimum qualifications of Regulatory Guide 1.8, Revision 3, May 2000.

Justification:

Unit staff members, with the exception of licensed Senior Reactor Operators (SRO) and licensed Reactor Operators (RO), meet the qualification requirements identified in Regulatory Guide 1.8, Revision 2. The licensed Senior Reactor Operators (SRO) and licensed Reactor Operators (RO), meet the qualification requirements identified in Regulatory Guide 1.8, Revision 3. Since each member of the unit staff meets or exceeds the minimum qualifications of Regulatory Guide 1.8, the second sentence is unnecessary.

CP COL 16.1_5.5.1(1)
Offsite Dose Calculation Manual

US-APWR TS Wording in DCD

The bracketed information in Section 5.5.1.b of the US-APWR TS reads:

Shall become effective after the approval of the [plant manager],
and

PSTS Wording

Replace the bracketed information in Section 5.5.1.b of the US-APWR TS with the following:

Shall become effective after the approval of the plant manager, and

Justification:

Generic titles for members of unit staff are used consistent with the organizational description in FSAR Chapter 13.

~~CP COL 16.1_5.5.9(1)~~
~~Steam Generator Program~~

MAP-16-201

~~US APWR TS Wording in DCD~~

~~Section 5.5.9 discusses steam generator tube repairs in [].~~

~~PSTS Wording~~

~~The information in Section 5.5.9 of the US APWR TS addressing steam generator tube repair specified in [] has been deleted.~~

~~Justification:~~

~~The wording was modified consistent with CPNPP Units 1 and 2 Technical Specification Section 5.5.9.2 "Unit 1 Model D76 and Unit 2 Model D5 Steam Generator (SG) Program" where the option to repair steam generator tubes is not included.~~

**Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application
Part 4, Technical Specifications**

table in the Radiological Assessment Branch Technical Position, Revision 1, November 1979].

PSTS Wording

Replace the bracketed information in Section 5.6.1 of the US-APWR TS with the following:

The Annual Radiological Environmental Operating Report shall include the results of analyses of all radiological environmental samples and of all environmental radiation measurements taken during the period pursuant to the locations specified in the table and figures in the ODCM, as well as summarized and tabulated results of these analyses and measurements in a format similar to the table in the Radiological Assessment Branch Technical Position, Revision 1, November 1979.

Justification:

US-APWR TS bracketed information is applicable and adopted with minor revisions.

**CP COL 16.1_5.6.2(1)
Radioactive Effluent Release Report**

US-APWR TS Wording in DCD

In Section 5.6.2, the US-APWR TS does not include any notes.

PSTS Wording

In Section 5.6.2, a Note was added that states:

-----NOTE-----

A single submittal may be made for a multiple unit station. The submittal shall combine sections common to all units at the station; however, for units with separate radwaste systems, the submittal shall specify the releases of radioactive material from each unit.

Justification:

Establishes consistency with CPNPP Units 1 and 2 Technical Specifications and addresses a two-unit site.

~~CP COL 16.1_5.6.7(1)
Steam Generator Tube Inspection Report~~

~~US APWR TS Wording in DCD~~

~~Sections 5.6.7e, f, h, and i discuss steam generator tube repairs.~~

MAP-16-201

**Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application
Part 4, Technical Specifications**

PSTS Wording

~~The discussion of steam generator tube repairs was deleted from Sections 5.6.7e, f, h, and i.~~

MAP-16-201

Justification:

~~Establishes consistency with changes to Section 5.5.9.~~

CP COL 16.1_5.7(1)

High Radiation Areas with Dose Rates Greater than 1.0 rem/hour at 30 Centimeters from the Radiation Source or from any Surface Penetrated by the Radiation, but less than 500 rads/hour at 1 Meter from the Radiation Source or from any Surface Penetrated by the Radiation

US-APWR TS Wording in DCD

Section 5.7.2.a.1 states "shift supervisor".

Section 5.7.2.e – last two sentences state "These continuously escorted personnel will receive a pre-job briefing prior to entry into such areas. This dose rate determination, knowledge, and pre-job briefing does not require documentation prior to initial entry."

Section 5.7.2.f – "Such individual areas that are within a larger area where no enclosure exists..."

PSTS Wording

Section 5.7.2.a.1 was revised to "shift manager".

Section 5.7.2.e deletes last two sentences.

Section 5.7.2.f adds ", such as PWR containment," as follows "Such individual areas that are within a larger area, such as PWR containment, where no enclosure exists..."

Justification:

All the changes made establish consistency with CPNPP Units 1 and 2 Technical Specifications. The change to Section 5.7.2.a.1 uses generic titles for member of unit staff consistent with the organization description in FSAR Chapter 13. The change to Section 5.7.2.e deletes unnecessary information. The change to Section 5.7.2.f adds an example consistent with CPNPP Units 1 and 2 Technical Specifications.

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
F. More than one block valve inoperable.	F.1 Restore one block valve to OPERABLE status	2 hours
G. Required Action and associated Completion Time of Condition F not met.	G.1 Be in MODE 3.	6 hours
	<u>AND</u> G.2 Be in MODE 4.	12 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.4.11.1</p> <p style="text-align: center;">-----NOTES-----</p> <p>4- Not required to be performed with block valve closed in accordance with the Required Actions of this LCO.</p> <p style="text-align: center;">-----</p> <p>Perform a complete cycle of each block valve.</p>	<p>In accordance with the Surveillance Frequency Control Program</p>
<p>SR 3.4.11.2 Perform a complete cycle of each SDV.</p>	<p>In accordance with the Surveillance Frequency Control Program</p>

3.5 EMERGENCY CORE COOLING SYSTEMS (ECCS)

3.5.4 Refueling Water Storage Pit (RWSP)

LCO 3.5.4 The RWSP shall be OPERABLE.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. RWSP boron concentration not within limits. <u>OR</u> RWSP borated water temperature not within limits.	A.1 Restore RWSP to OPERABLE status. <u>OR</u>	8 hours
	A.2 -----NOTES----- This Required Action is not applicable in MODE 4. ----- Apply the requirements of Specification 5.5.18.	8 hours
B. RWSP inoperable for reasons other than Condition A.	B.1 Restore RWSP to OPERABLE status.	1 hour
C. Required Action and associated Completion Time not met.	C.1 Be in MODE 3.	6 hours
	<u>AND</u> C.2 Be in MODE 5.	36 hours

3.6 CONTAINMENT SYSTEMS

3.6.6 Containment Spray System

LCO 3.6.6 Three containment spray (CS) trains shall be OPERABLE.

-----NOTES-----
 CS train may be considered OPERABLE during alignment and operation for decay heat removal as RHRS if capable of being manually realigned to the CS mode of operation.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One required containment spray train inoperable.	A.1 Restore three containment spray trains to OPERABLE status.	72 hours
	OR A.2 -----NOTES----- This Required Action is not applicable in MODE 4. ----- Apply the requirements of Specification 5.5.18	72 hours
B. Required Action and associated Completion Time of Condition A or B not met.	B.1 Be in MODE 3.	6 hours
	AND B.2 Be in MODE 5.	36 hours

3.7 PLANT SYSTEMS

3.7.7 Component Cooling Water (CCW) System

LCO 3.7.7 Three CCW trains shall be OPERABLE.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One required CCW train inoperable.	A.1 -----NOTE----- Enter applicable Conditions and Required Actions of LCO 3.4.6, "RCS Loops - MODE 4," for residual heat removal loops made inoperable by CCW. ----- Restore three CCW trains to OPERABLE status.	72 hours
	<u>OR</u> A.2 -----NOTES----- This Required Action is not applicable in MODE 4. ----- Apply the requirements of Specification 5.5.18	72 hours
B. Required Action and associated Completion Time of Condition A not met.	B.1 Be in MODE 3.	6 hours
	<u>AND</u> B.2 Be in MODE 5.	36 hours

3.7 PLANT SYSTEMS

3.7.8 Essential Service Water System (ESWS)

LCO 3.7.8 Three ESWS trains shall be OPERABLE.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>A. One required ESWS train inoperable.</p>	<p>A.1 -----NOTES-----</p> <p>2- Enter applicable Conditions and Required Actions of LCO 3.4.6, "RCS Loops - MODE 4," for residual heat removal loops made inoperable by ESWS.</p> <p>-----</p> <p>Restore three ESWS trains to OPERABLE status.</p>	
	<p><u>OR</u></p> <p>A.2 -----NOTES-----</p> <p>This Required Action is not applicable in MODE 4.</p> <p>-----</p> <p>Apply the requirements of Specification 5.5.18.</p>	<p>72 hours</p> <p>72 hours</p>

BASES

REFERENCES

1. FSAR Subsection 8.3.21.
 2. FSAR Chapter 6.
 3. FSAR Chapter 15.
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Attachment 3

COL Application Part 10, ITACC and Proposed License Conditions Revision 1, Update Tracking Report Revision 1

(This attachment includes marked-up Part 10 pages. Because of text additions and deletions, the page numbers on the marked-up pages may not coincide with the page numbers in Part 10 Revision 1.)

January 8, 2010

**Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application**

Part 10

**ITAAC and Proposed License Conditions
Revision1**

Update Tracking Report

Revision 1

Revision History

Revision	Date	Update Description
-	11/20/2009	COLA Revision 1 Transmittal See Luminant Letter no. TXNB-09074 Date 11/20/2009
-	10/19/2009	Updated Section: Appendix A.5 See Luminant Letter no. TXNB-09055 Date 10/19/2009 Incorporated responses to following RAIs: No. 50
-	10/26/2009	Updated Section: Appendix A.1 See Luminant Letter no. TXNB-09058 Date 10/26/2009 Incorporated responses to following RAIs: No. 56
-	11/5/2009	Updated Section: 3 See Luminant Letter no. TXNB-09061 Date 11/5/2009 Incorporated responses to following RAIs: No. 71
-	11/13/2009	Updated Section: Appendix A.1, Appendix A.2, Appendix A.3 See Luminant Letter no. TXNB-09065 Date 11/13/2009 Incorporated responses to following RAIs: No. 81, 82, 83
-	11/18/2009	Updated Section: 2, 3, Appendix B.1 See Luminant Letter no. TXNB-09072 Date 11/18/2009 Incorporated responses to following RAIs: No. 70, 78
0	12/8/2009	Updated Sections: Appendix A.1, A.2, A.3, A.4 Incorporated the response to RAI No.83

1	1/8/2010	Updated Section Appendix A.1, A.2
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Tracking Report Revision List

Change ID No.	Section	ITAAC Rev.1 Page	Reason for change	Change Summary	Rev. of T/R
RCOL2_11.05-2	Appendix A.5	29	Response to RAI No. 50 Luminant Letter no.TXNB-09055 Date 10/19/2009	Newly added Appendix A.5.	-
RCOL2_14.03.03-1	Appendix A.1 Table A1-1 (Sheet 1 of 6)	9	Response to RAI No.56 TXNB-09058 Date 10/26/2009	Revised 2.a and split into two new ITAAC (2.a.i and 2.a.ii)	-
RCOL2_14.03.03-2	Appendix A.1 Table A1-1 (Sheet 2 of 6)	10	Response to RAI No.56 TXNB-09058 Date 10/26/2009	Revised 2.b and split into two new ITAAC (2.b.i and 2.b.ii)	-
RCOL2_14.03.03-3	Appendix A.1 Table A1-1 (Sheet 2, 3 of 6)	10,11	Response to RAI No.56 TXNB-09058 Date 10/26/2009	ITAAC items 3.a and 3.b were revised to state "a report exists"	-
RCOL2_14.03.03-4	Appendix A.1 Table A1-1 (Sheet 4 of 6)	12	Response to RAI No.56 TXNB-09058 Date 10/26/2009	Revised ITAAC item 5.b to include new ITA and AC 5.b.i and 5.b.ii.	-
RCOL2_13.04-1	3	5	Response to RAI No.71 TXNB-09061 Date 11/5/2009	Added the Groundwater Monitoring Program as a Licensing Condition.	-
RCOL2_13.04-2	3	5	Response to RAI No.71 TXNB-09061 Date 11/5/2009	Added the Primary-to-Secondary Leakage Monitoring Program as a License Condition.	-
RCOL2_13.04-3	3	5	Response to RAI No.71 TXNB-09061 Date 11/5/2009	Added the Highly Radioactive Fluid Systems Outside Containment Monitoring Program as a License Condition.	-
RCOL2_13.03-2 RCOL2_13.03-8	2.6	4	Response to RAI No. 78 Luminant Letter no.TXNB-09066 Date 11/12/2009	Added Emergency Planning Action – See RAI# 70	-

Change ID No.	Section	ITAAC Rev.1 Page	Reason for change	Change Summary	Rev. of T/R
RCOL2_14.03.07-1	Appendix A.1 Table A.1-1 (Sheet 1 of 6)	8	Response to RAI No.81 Luminant Letter no. TXNB-09065 on 11/13/2009	ITAAC Item 1.b in Table A.1-1 has been revised to be consistent with the DCD Tier 1 revision	-
RCOL2_14.03.07-3	Appendix A.1 Table A.1-1 (Sheet 3 of 6), Appendix A.2 Table A.2-1 (Sheet 1 of 2)	10, 20	Response to RAI No.81 Luminant Letter no. TXNB-09065 on 11/13/2009	Revised ITAAC items 5.a. ITAAC item 5.b already revised to reflect answer in	-
RCOL2_14.03.07-4	Appendix A.1, Table A.1-1 (Sheet 5 of 6), Appendix A.2 Table A.2-1 (Sheet 2 of 2)	12, 21	Response to RAI No.81 Luminant Letter no. TXNB-09065 on 11/13/2009	ITAAC Item 6.b in Table A.1-1 and Item 3.b in Table A.2-1 have been revised to be consistent with the similar ITAAC in DCD Tier 1.	-
RCOL2_14.03.07-5	Appendix A.1 Table A.1-1 (Sheet 5 of 6)	12	Response to RAI No.81 Luminant Letter no. TXNB-09065 on 11/13/2009	ITAAC Item 7 in Table A.1-1 has been revised to refer to Table A.1-2	-
RCOL2_14.03.07-6	Appendix A.1 Table A.1-1 (Sheet 6 and of 7) Table A.1-2, Appendix A.2 Table A.2-2	13, 15, 16, 21, 23	Response to RAI No.81 Luminant Letter no. TXNB-09065 on 11/13/2009	Table A.1-1 ITAAC Items 9.b, 10.b, and Table A2.1 ITAAC Item 5.b have been revised to be consistent with the DCD template for "PSMS Control." Table A.1-2 and Tables A.2-2 have added a PSMS Control column.	-
RCOL2_14.03.07-7	Appendix A.1, Table A.1-1 (Sheet 7 of 7)	14, 17, 21, 22, 23, 24	Response to RAI No.81 Luminant Letter no. TXNB-09065 on 11/13/2009	Table A.1-3 "MCR/RSC Control" entries Table A.2-1, ITAAC Item 6 Table A.2-1, ITAAC Item	-

Change ID No.	Section	ITAAC Rev.1 Page	Reason for change	Change Summary	Rev. of T/R
	Table A.1-3, Appendix A.2 Table A.2-1 (Sheet 2 of 2) Table A.2-3			7 Table A.2-2 includes the temperature indicators for the UHS pump houses. Table A.2-3 has been revised to be consistent with DCD Table A.2-3 temperature indicators have been deleted	
RCOL2_14.03.07-8	Appendix A.1 Table A.1-1 (Sheet 7 of 7)	14	Response to RAI No.81 Luminant Letter no. TXNB-09065 on 11/13/2009	ITAAC item 13 has been revised to indicate that the basins are part of the UHS system.	-
RCOL2_14.03.07-9	Appendix A.3 Table A.3-1 (Sheet 2 of 3)	27	Response to RAI No.81 Luminant Letter no. TXNB-09065 on 11/13/2009	Language corrections	-
RCOL2_14.03.07-10	Appendix A.3 Table A.3-1 (Sheet 1 of 3)	27	Response to RAI No.81 Luminant Letter no. TXNB-09065 on 11/13/2009	COLA Part 10, Table A.3-1, ITAAC Items 2.a and 2.b have been revised to address the design bases for protection against internal and external flooding.	-
RCOL2_14.03.07-11	Appendix A.3 Table A.3-1 (Sheet 1 of 3)	27	Response to RAI No.81 Luminant Letter no. TXNB-09065 on 11/13/2009	Table A.3-1, ITAAC Item 4 has been revised to specify the wall thickness by reference to the thicknesses indicated in Table A.3-2, thereby providing measurable acceptance criteria.	-
RCOL2_14.03.07-12	Appendix A.3 Table A.3-1 (Sheet 2 of 3)	28	Response to RAI No.81 Luminant Letter no. TXNB-09065 on 11/13/2009	Table A.3-1, ITAAC Items 6, 7, and 8 have been revised Also provides answer to RAI 82-3366, Question No. 14.03.07-19	-
RCOL2_14.03.07-14	Appendix A.1 Table A.1-1 (Sheet 7 of 7)	14	Response to RAI No.82 Luminant Letter no. TXNB-09065 on 11/13/2009	ITAAC Item 14 in ITAAC Table A.1-1 has been revised into two ITAACs (14.a and 14.b)	-

Change ID No.	Section	ITAAC Rev.1 Page	Reason for change	Change Summary	Rev. of T/R
RCOL2_14.03.07-15	Appendix A.2 Table A.2-1 (Sheet 2 Of 2)	21	Response to RAI No.82 Luminant Letter no. TXNB-09065 on 11/13/2009	ITAAC Table A.2-1 ITAAC Item 4 Design Commitment and acceptance criteria has been clarified	-
RCOL2_14.03.07-16	Appendix A.2 Table A.2-1 (Sheet 2 Of 2)	21	Response to RAI No.82 Luminant Letter no. TXNB-09065 on 11/13/2009	ITAAC Table A.2-1 ITAAC Item 5.a acceptance criteria have been clarified	-
RCOL2_14.03.07-17	Appendix A.3 Table A.3-1 (Sheet 2 Of 3)	28	Response to RAI No.82 Luminant Letter no. TXNB-09065 on 11/13/2009	ITAAC Item 5.a in Table A.3-1 has been revised to require documentation to demonstrate consistency	-
RCOL2_14.03.07-18	Appendix A.3 Table A.3-1 (Sheet 2 Of 3)	28	Response to RAI No.82 Luminant Letter no. TXNB-09065 on 11/13/2009	ITAAC Item 5.b in Table A.3-1 has been revised to require documentation to demonstrate consistency	-
RCOL2_14.03.07-19	Appendix A.3 Table A.3-1 (Sheet 2 Of 3)	28	Response to RAI No.82 Luminant Letter no. TXNB-09065 on 11/13/2009	Appendix A.3, Table A.3-1, ITAAC Item 8 acceptance criteria have been clarified	-
RCOL2_14.03.07-20	Appendix A.3 Table A.3-1 (Sheet 3 Of 3)	29	Response to RAI No.82 Luminant Letter no. TXNB-09065 on 11/13/2009	Appendix A.3, Table A.3-1, ITAAC Item 9 Inspections, Tests, Analyses (ITA) has been clarified	-
RCOL2_14.03.07-21	Appendix A.2 Table A.2-2	23	Response to RAI No.83 Luminant Letter no. TXNB-09065 on 11/13/2009	Table A.2-2 has been revised to add the UHS ESW pump house supply and exhaust backdraft dampers.	-
RCOL2_14.03.07-22	Appendix A.1 Table A.1-1 (Sheet 4 of 6), Appendix A.2 Table A.2-1 (Sheet 2 of 2)	11, 20	Response to RAI No.83 Luminant Letter no. TXNB-09065 on 11/13/2009	Table A.1-1 ITAAC Item 6.a, and Table A.2-1 Item 3.a have been revised to be consistent with similar DCD ITAAC	-
RCOL2_14.03.07-27	Appendix A.2 Table A.2-3	24	Response to RAI No.83 Luminant Letter no. TXNB-09065	The temperature switches in the last two columns of Table A.2-3 have been deleted.	-

Change ID No.	Section	ITAAC Rev.1 Page	Reason for change	Change Summary	Rev. of T/R
			on 11/13/2009	The revised ITAAC Table A.2-3 also incorporates the recommended changes for RAI 81-3293, Question No. 14.03.07-6.	
RCOL2_13.03-1	2.6	4	Response to RAI No. 70 Luminant Letter no.TXNB-09072 Date 11/18/2009	Added Section "2.6 Emergency Planning Actions" and revised subsequent section numbers accordingly.	-
RCOL2_13.03-1	3	5	Response to RAI No. 70 Luminant Letter no.TXNB-09072 Date 11/18/2009	Added two proposed licensing conditions to the table in Section 3	-
RCOL2_13.03-15	Appendix B.1	38, 39	Response to RAI No. 78 Luminant Letter no.TXNB-09072 Date 11/18/2009	Removed Table B-1 "EP ITAAC Not Required in CPNPP COLA" and associated text in Appendix B.1 Emergency Planning Section. Renamed Table B-2 to B-1.	-
RCOL2_13.03-15	Appendix B.1 Table B-1 (Sheet 1 of 37 through Sheet 37 of 37)	40-77	Response to RAI No. 78 Luminant Letter no. TXNB-09072 Date 11/18/2009	Incorporated elements of RAI response into Table B-1 "Emergency Plan Inspections, Tests, Analyses, and Acceptance Criteria"	-
RCOL2_14.03.07-28	Appendix A.1	7	Response to RAI No. 83 Luminant Letter no.TXNB- 09065 Date 11/13/2009	Added Section A.1.1 Design Description.	0
RCOL2_14.03.07-28	Appendix A.2	15	Response to RAI No. 83 Luminant Letter no.TXNB- 09065 Date 11/13/2009	Added Section A.2.1 Design Description.	0
RCOL2_14.03.07-28	Appendix A.3	21	Response to RAI No. 83 Luminant Letter no.TXNB- 09065 Date 11/13/2009	Added Section A.3.1 Design Description.	0
RCOL2_14.03.07-28	Appendix A.4	27	Response to RAI No. 83 Luminant Letter no.TXNB- 09065	Added Section A.4.1 Design Description.	0

Change ID No.	Section	ITAAC Rev.1 Page	Reason for change	Change Summary	Rev. of T/R
			Date 11/13/2009		
MAP-00-201	Appendix A.1 Table A.1-2 Table A.1-3 Appendix A.2 Table A.2-2 Table A.2-3 Figure A.2-1	12, 13, 18, 19, 20	The change of numbering rule of Tag number	Change Tag numbers	1

**Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application
Part 10 - ITAAC and Proposed License Conditions**

Appendix A.1

**Table A.1-2
Ultimate Heat Sink System and Essential Service Water System
(Portions Outside the Scope of the Certified Design)
Equipment Characteristics**

Equipment Name	Tag No.	ASME Code Section III Class	Seismic Category I	Remotely Operated Valve	Class 1E/Qual. For Harsh Envir.	Active Safety Function	PSMS Control	Loss of Motive Power Position
Ultimate heat sink transfer pumps	UHS-OMPP-001 A, B, C, D	3	Yes	-	Yes/No	Start Stop	Remote Manual	-
Ultimate heat sink cooling tower fans	UHS-OCMFN-001 A, B, C, D, 002 A, B, C, D	-	Yes	-	Yes/No	Start Stop	ECCS Actuation: LOOP Sequence: Remote Manual	-
Ultimate heat sink transfer pump discharge valves	UHS-MOV-503 A, B, C, D	3	Yes	Yes	Yes/No	Transfer Closed Transfer Open	Remote Manual	As is
Ultimate heat sink transfer line basin inlet valves	UHS-MOV-506 A, B, C, D	3	Yes	Yes	Yes/No	Transfer Closed Transfer Open	Remote Manual	As is
Ultimate heat sink basin blowdown control valves	ESW-HCV-2000,2001, 2002,2003 010, 011, 012, 013	3	Yes	Yes	Yes/No	Transfer Closed	ECCS actuation or UHS basin low water level: Remote manual	Closed
Ultimate heat sink basin water level	UHS-LT-2070010A,B,2071 011A,B,2072012A,B,2073 013A,B	-	Yes	-	Yes/ No	-	=	-
Ultimate heat sink basin temperature	UHS-TE-2070,2071,2072,2 073010, 011, 012, 013	-	Yes	-	Yes/ No	-	=	-

NOTE:

Dash (-) indicates not applicable.

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**Comanche Peak Nuclear Power Plant, Units 3 & 4
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Part 10 - ITAAC and Proposed License Conditions
Appendix A.1**

Table A.1-3

**Ultimate Heat Sink System and Essential Service Water System
(Portions Outside the Scope of the Certified Design)
Equipment Alarms, Displays, and Control Functions**

Equipment/Instrument Name	MCR/RSC Alarm	MCR/RSC Display	MCR/RSC Control Function	RSC Display	
Ultimate heat sink transfer pumps UHS- OMPP -001A, B, C, D	No	Yes	Yes	Yes	RCOL2- 14.03. 07-7 MAP-00- 201
Ultimate heat sink cooling tower fans UHS- EQMFN -001A, B, C, D, 002A, B, C, D	No	Yes	Yes	Yes	
Ultimate heat sink transfer pump discharge valves UHS-MOV-503A, B, C, D	No	Yes	Yes	Yes	
Ultimate heat sink transfer line basin inlet valves UHS-MOV-506A, B, C, D	No	Yes	Yes	Yes	
Ultimate heat sink basin blowdown control valves ESW-HCV- 2000, 2001, 2002, 2003 010, 011, 012, 013	No	Yes	Yes	Yes	MAP-00- 201
Ultimate heat sink basin water level UHS-LT- 2070 010A, B, 2071 -011A, B, 2072 012A, B, 2073 013A, B	Yes	Yes	Yes No	Yes	
Essential Service Water basin water temperature UHS-TE- 2070, 2071, 2072, 2073 010, 011, 012, 013	Yes	Yes	Yes No	Yes	

**Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application
Part 10 - ITAAC and Proposed License Conditions
Appendix A.2**

**Table A.2-2
UHS ESW Pump House Ventilation System Equipment Characteristics**

Equipment Name	Tag No.	ASME Code Section III Class	Seismic Category I	Remotely Operated Valve	Class 1E/Qual. For Harsh Envir.	Active Safety Function	PSMS Control	Loss of Motive Power Position
ESW Pump Room Exhaust Fan	VRS-OMFN-601A,B,C,D	-	Yes	-	Yes/No	Start	High Temperature	-
UHS Transfer Pump Room Exhaust Fan	VRS-OMFN-602A,B,C,D	-	Yes	-	Yes/No	Start	High Temperature	-
ESW Pump Room Unit Heater	VRS-OEQMEH-601A,B,C,D, VRS-OEQMEH-602A,B,C,D	-	Yes	-	Yes/No	Start	Low Temperature	-
UHS Transfer Pump Room Unit Heater	VRS-OEQMEH-603A,B,C,D	-	Yes	-	Yes/No	Start	Low Temperature	-
ESW Pump Room Temperature	VRS-TS-803,804,805,806 VRS-TS-823,824,825,826 VRS-TS-843,844,845,846 VRS-TS-863,864,865,866	=	Yes	=	Yes/No	=	=	=
UHS Transfer Pump Room Temperature	VRS-TS-812,813,814,815 VRS-TS-832,833,834,835 VRS-TS-852,853,854,855 VRS-TS-872,873,874,875	=	Yes	=	Yes/No	=	=	=
UHS Transfer Pump House Supply and Exhaust Back-draft Dampers	VRS-BDD-601 A,B,C,D VRS-BDD-602 A,B,C,D VRS-BDD-603 A,B,C,D VRS-BDD-604 A,B,C,D	=	Yes	=	No/No	=	=	=

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**Comanche Peak Nuclear Power Plant, Units 3 & 4
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Part 10 - ITAAC and Proposed License Conditions
Appendix A.2**

**Table A.2-3
UHS ESW Pump House Ventilation System Equipment
Alarms, Displays, and Control Functions**

Equipment/Instrument Name	MCR Alarm	MCR/RSC Display	MCR/RSC Control Function	RSC Display
ESW Pump Room Exhaust Fan (VRS- OMFN -601A,B,C,D)	No	Yes	Yes	Yes
UHS Transfer Pump Room Exhaust Fan (VRS- OMFN -602A,B,C,D)	No	Yes	Yes	Yes
ESW Pump Room Unit Heater (VRS- OEQMEH -601A,B,C,D, VRS- OEQ -602A,B,C,D)	No	Yes	Yes	Yes
UHS Transfer Pump Room Unit Heater (VRS- OEQMEH -603A,B,C,D)	No	Yes	Yes	Yes
ESW Pump Room Temperature (VRS TS 2610C,D,E,F , VRS TS 2620C,D,E,F , VRS TS 2630C,D,E,F , VRS TS 2640C,D,E,F)	Yes	No	Yes	No
UHS Transfer Pump Room Temperature (VRS TS 2615C,D,E,F , VRS TS 2625C,D,E,F , VRS TS 2635C,D,E,F , VRS TS 2645C,D,E,F)	Yes	No	Yes	No

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**Comanche Peak Nuclear Power Plant, Units 3 & 4
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Part 10 - ITAAC and Proposed License Conditions**

Appendix A.2

Figure A.2-1 UHS ESW Pump House Ventilation System

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