

**June 30 2009**

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

**Part 2, FSAR  
Update Tracking Report**

**Revision 3**

## Revision History

Revision	Date	Update Description
0	3/31/2009	Original Issue  Updated Chapters: Ch.1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 14, 17 and 19  Incorporated responses to following RAIs: No.1
1	4/24/2009	Updated Chapters: Ch. 2, 6
-	5/1/2009	Updated Chapters: Ch. 1, 5,14  See Luminant Letter no. TXNB-09010 Date 5/1/2009  Incorporated responses to following RAIs: No. 1, 2
2	5/08/2009	Updated Chapters: Ch 1, 2
-	5/26/2009	Updated Chapters: Ch. 7  See Luminant Letter no. TXNB-09020 Date 5/26/2009  Incorporated responses to following RAIs: No. 4, 5
-	6/17/2009	Updated Chapters: Ch. 1,10  See Luminant Letter no. TXNB-09023 Date 6/17/2009  Incorporated responses to following RAIs: No. 6
3	6/30/2009	Updated Chapters: Ch 3 , 9,10,12,14,19

# **Chapter 1**

## Chapter 1 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-00586	1.2	1.2-3 1.2-4	Consistent with Subsection 9.4.5.2.6	Add "UHS" before "ESW pump".	0
CTS-00586	1.2	1.2-4	Erratum	Change the number of pumps.	0
CTS-00534	1.8	1.8-13	Consistent with DCD Rev.1	Correct COL 3.2(4) and 3.2(5) to reflect wording changes in DCD Rev1.	0
CTS-00535	1.8	1.8-16	Consistent with DCD Rev.1	Correct COL3.5(2) to reflect wording changes in DCD Rev1.	0
CTS-00536	1.8	1.8-23	Editorial correction	Change "AD/V2" to "AD/V <sup>2</sup> ".	0
CTS-00537	1.8	1.8-28	Consistent with DCD Rev.1	Correct COL3.8(19) to reflect wording changes in DCD Rev1.	0
CTS-00527	1.8	1.8-30	Consistent with DCD Rev.1	Correct COL3.9(2) to reflect wording changes in DCD Rev1.	0
CTS-00538	1.8	1.8-33	Consistent with DCD Rev.1	Correct COL3.10(9) to reflect wording changes in DCD Rev1.	0
CTS-00550	1.8	1.8-41	Editorial correction	Delete "these" from COL 6.2(1).	0
CTS-00539	1.8	1.8-43	Editorial correction	Add "and" in COL 6.4(5).	0
CTS-00540	1.8	1.8-55	Editorial correction	Change "an" to "a" in COL10.3(1).	0
CTS-00541	1.8	1.8-56	Editorial correction	Change "deta" to "data" in COL11.2(3).	0
CTS-00542	1.8	1.8-61	Consistent with DCD Rev.1	Correct COL12.1(1) to reflect wording changes in DCD Rev1.	0
DCD_12.01-2	1.8	1.8-61	Delete Outdated RG	Delete reference to RG8.20, 8.26, and 8.32 from COL12.1(3).	0
CTS-00543	1.8	1.8-64	Consistent with DCD Rev.1	Correct COL13.1(5), 13.2(2) and 13.2(3) to reflect wording changes in DCD Rev1.	0
CTS-00610	13.5.2	1.8-66	Update	Add Subsection "13.5.2.1" in Table 1.8-201.	0
CTS-00544	1.8	1.8-67	Consistent with DCD Rev.1	Correct COL13.6(1)and 13.7(1) to reflect wording changes in DCD Rev1.	0
CTS-00545	1.8	1.8-70	Consistent with DCD Rev.1	Delete COL16.1_3(1).	0
CTS-00546	1.8	1.8-71	Editorial correction	Delete "and" from COL16.1_3.3.2(1).	0

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-00526	1.8	1.8-74	Consistent with DCD Rev.1	Correct COL17.5(1) to reflect wording changes in DCD Rev1.	0
CTS-00530	1.9	1.9-7	Correct Corresponding Section	Delete reference to 5.2.1.2 from RG1.84.	0
CTS-00529	1.9	1.9-16	Correct COLA/FSAR Status	Add "with exceptions" to "Conformance" in RG 4.15.	0
DCD_12.01-2	1.9	1.9-18 1.9-19	Delete Outdated RG	Delete reference to RG8.20, 8.26, and 8.32 from Table1.9-203.	0
RCOL2_14.03-1	Table 1.8-201	1.8-69	Responses to RAI No. 1 Luminant Letter TXNB-09010 Dated 5/1/2009	Add FSAR location "14.2.12.1.90.C8" as resolution of COL 14.2(10).	-
CTS-00703	Table 1.9-201	1.9-4	To Reflect CPNPP Units 3 and 4 compliance with RG 1.23.	Added "Second Prepared Revision, April 1986" in the Revision/Date category and "revision of record CPNPP Units 1 and 2" to the COLA FSAR Status category.	2
RCOL2_10.02.03-01	Table 1.8-201	1.8-54	Response to RAI No. 6 Luminant Letter no.TXNB-09023 Date 06/17/2009	For COL 10.2(1), replace the word "develop" with "establish a" and delete "and then to implement" in the first sentence. Delete the entire second sentence. Insert "A" under the column "COL Applicant Item"; delete "H" and delete "b" from columns labeled "COL Holder Item" and "Rationale".	-

## **Chapter 2**

## Chapter 2 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-00636	Table 2.0-1R	2.0-3 2.0-13	Editorial correction	Change "X/Q" to " $\chi$ /Q". ( $\chi$ is a Greek letter.)	0
CTS-00637	Table 2.2-203 Table 2.2-206	2.2-28 2.2-33	Editorial correction	Change "CPNPP Units 1 & 2" to "CPNPP Units 1 and 2".	0
CTS-00587	Table 2.3-206	2.3-71	Erratum	Change "5" to "3".	0
CTS-00636	Table 2.3-342	2.3-252 2.3-253	Editorial correction	Change "X/Q" to " $\chi$ /Q". ( $\chi$ is a Greek letter.)	0
CTS-00590	2.4.1.1	2.4-2	Editorial correction	Change "grade" to "floor elevation".	0
CTS-00591	2.4.1.1	2.4-3	Editorial correction	Change "Category I seismic requirement" to "seismic category I requirement".	0
CTS-00661	2.4.1.2.1	2.4-5	Editorial correction	Add "(Figure 2.4.1-207)" after Morris-Sheppard Dam.	0
CTS-00662	2.4.1.2.1	2.4-6	Editorial correction	Add reference numbers according to CTS-00666.	0
CTS-00592	2.4.1.2.3.2	2.4-7	Editorial correction	Change "intake pumping station" to "makeup water intake structure" and "cooling tower makeup pumps" to "makeup water pumps, makeup water jockey pump".	0
CTS-00663	2.4.1.2.3.3	2.4-8	Editorial correction	Add reference numbers as appropriate according to CTS-00666.	0
CTS-00664	2.4.1.2.3.3	2.4-8	Editorial correction	Delete "contributing".	0
CTS-00665	2.4.1.2.3.3	2.4-8	Update	Change "16,113 sq mi" to "25,679 sq mi".	0
CTS-00593	2.4.11.5	2.4-38	Editorial correction	Remove "to the cooling water system flow".	0
CTS-00655	2.4.12.2.4	2.4-46	Editorial correction	Change "X" to "XX".	0
CTS-00513 RCOL2_2.4.13-1 through RCOL2_2.4.13-7	2.4.12.2.4 2.4.12.2.5 2.4.12.3.1 2.4.12.5 2.4.13	2.4-46 through 2.4-64	To reflect information provided during acceptance review	Re-write section reflecting RAI #1.	0

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-00656	2.4.12.3.1	2.4-51	Editorial correction	Delete "(or are) expected to be".	0
CTS-00657	2.4.12.3.1	2.4-52	Editorial correction	Change X to lower-case in mathematical expressions.	0
CTS-00658	2.4.12.5	2.4-53	Editorial correction	Add "aquifer".	0
CTS-00659	2.4.13	2.4-56	Editorial correction	Change "Kd" to $K_d$ .	0
CTS-00666	2.4.16	2.4-63	Editorial correction	Add new references.	0
CTS-00589	Table 2.4.1-203	2.4-68 through 2.4-70	Erratum	Add reference citations.	0
CTS-00654	Table 2.4.1-203	2.4-68 through 2.4-70	Editorial correction	Change header titles and lower case from MSL to msl.	0
CTS-00655	Table 2.4.1-203	2.4-68 through 2.4-70	Erratum	Change values to match reference.	0
CTS-00588	Table 2.4.1-206	2.4-72	Erratum	Change "8186" to "6354" and "0.383" to "0.362". Add reference citations.	0
CTS-00594	2.5.1	2.5-53	Clarification	Add "potable" and "beneath the site".	0
CTS-00599	2.5.2	2.5-61 2.5-62	Editorial correction	Delete the semi-colon in the bullet item list.	0
CTS-00595	2.5.2	2.5-61	Editorial correction	Remove IBR statement.	0
CTS-00515	2.5.2.5.1	2.5-110 through 2.5-113	To reflect information provided during acceptance review	Add three pages to clarify discussion.	0
CTS-00516	2.5.2.6.1.1 2.5.2.6.1.2	2.5-113 2.5-117	To reflect information provided during acceptance review	Revise Subsection reflecting commitment to NRC.	0
CTS-00667	2.5.4.3.3	2.5-166	Editorial correction	Change "The average elevation of the top of engineering Layer C is about 780 ft to 782 ft below the Unit 3 power block, and about 782 ft to 784 ft below the Unit 4 power block (Figure 2.5.4-214)." to "The average elevation of the top of engineering Layer C is approximately 782 ft below the Unit 3 and Unit 4 power block (Figure 2.5.4-214)".	0
CTS-00597	2.5.4	2.5-121	Editorial correction	Remove IBR statement.	0



Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-00514	2.5.4.5.4	2.5-177 2.5-179	To reflect information provided during acceptance review	Revise Subsection reflecting commitment to NRC.	0
CTS-00517	2.5.4.8	2.5-187	To reflect information provided during acceptance review	Revise Subsection reflecting commitment to NRC.	0
CTS-00598	2.5.5	2.5-195	Editorial correction	Remove IBR statement.	0
CTS-00515	2.5.2.5	2.5-224	Editorial correction	Revise Subsection reflecting commitment to NRC.	0
CTS-00515	2.5.7	2.5-227 2.5-228	To reflect information provided during acceptance review	Add references 2.5-432 through 2.5-436	0
CTS-00515	2.5.7	2.5-228	To reflect information provided during acceptance review	Add reference 2.5-432.	0
CTS-00668	Table 2.5.1-201	2.5-229 2.5-230	Editorial correction	Delete "from the Studies of Madole (1988), Crone and Luza (1990), and Swan et al. (1993)" from the title of the table.	0
CTS-00669	Table 2.5.1-201	2.5-230	Editorial correction	Add reference citations.	0
CTS-00672	Table 2.5.1-202	2.5-231	Editorial correction	Delete notes.	0
CTS-00673	Table 2.5.1-203	2.5-232	Editorial correction	Add reference citations.	0
CTS-00673	Table 2.5.1-203	2.5-232	Editorial correction	Delete and rewrite notes.	0
CTS-00670	Table 2.5.1-205	2.5-252	Editorial correction	Add reference citations.	0
CTS-00671	Table 2.5.1-206	2.5-254	Editorial correction	Add reference citations.	0
CTS-00674	Table 2.5.2-227	2.5-312	Editorial correction	Delete references in notes.	0
CTS-00515	List of Tables  List of Figures	2-xxxii 2-xxlviii	Commitment to NRC	Add Tables 2.5.2-230 through 2.5.2-235.  Add Figures 2.5.2-240 through 2.5.2-246.	0

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-00516	List of Tables  List of Figures	2-xxxii 2-xxviii	Commitment to NRC	Add Tables 2.5.2-236 and 2.5.2-237.  Add Figures 2.5.2-247 through 2.5.2-252.	0
CTS-00515	Tables 2.5.2-230 through 2.5.2-237	-	To reflect information provided during acceptance review	Add new Tables.	0
CTS-00516	Figures 2.5.2-240 through 2.5.2-250	-	To reflect information provided during acceptance review	Add new Figures	0
MET-04	List of Tables	2-xxiv, 2-xxv	Erratum	Add "Dallas" in front of "Fort Worth" and "Airport" after "Fort Worth" for table number 2.3-296	1
CTS-00696	2.2.2.2.8	2.2-5	Increase information as discussed with NRC during the 03-23-25-09 Hazards Analysis Audit	Changed distance for DeCordova to 9.35 miles.	1
CTS-00697	2.2.2.6	2.2-8	Increase information as discussed with NRC during the 03-23-25-09 Hazards Analysis Audit	Added clarification that rail transport of hazardous materials is outside the 5 mile radius of CPNPP 3 & 4	1
CTS-00699	2.2.2.7.1	2.2-9	Increase information as discussed with NRC during the 03-23-25-09 Hazards Analysis Audit	Added clarifying statement that the airports listed were predominant airports in the area outside 10 miles that did not exceed the 1000 D <sup>2</sup> criterion.  Added back in the discussion for each predominant airport in the area outside the 10 miles.	1
CTS-00698	2.2.3.1.1.2	2.2-12	Increase information as discussed with NRC during the 03-23-25-09 Hazards Analysis Audit	Added clarifying discussion on how the Wolf Hollow hazardous materials were screened for the hazards analysis since quantities were not made available.	1
CTS-00698	2.2.3.1.3.1	2.2-17	Increase information as discussed with NRC during the 03-23-25-09 Hazards	Added clarifying discussion on how the Wolf Hollow hazardous materials were screened for the control room	1

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			Analysis Audit	habitability analysis since quantities were not made available.	
CTS-00696	2.2.3.1.3.2.2	2.2-18	Increase information as discussed with NRC during the 03-23-25-09 Hazards Analysis Audit	Clarified discussion regarding DeCordova was analyzed for Hazards and Control Room Habitability analyses even though the distance is outside the 5 mile radius of Units 3 & 4.	1
CTS-00698	Table 2.2-205	2.2-32	Increase information as discussed with NRC during the 03-23-25-09 Hazards Analysis Audit	Added footnote that the quantities of chemicals were not made available for Wolf Hollow and a pointer added to indicate what sections have the screening criteria utilized for Wolf Hollow.	1
CTS-00696	Table 2.2-214	2.2-43	Increase information as discussed with NRC during the 03-23-25-09 Hazards Analysis Audit	Added IDLH and Max concentration in Control Room and footnote (b) indicating that DeCordova was conservatively analyzed even though it is outside the 5 mile radius of U3/4. Distance to nearest Units 3 and 4 MCR Inlet for DeCordova SES has been revised from 3.6 to 3.7.	1
CTS-00696	Figure 2.2-201		Erratum	Corrected the figure since the location of DeCordova, which is outside the 5 mile radius of CPNPP Units 3 & 4, showed DeCordova inside the 5 mile radius	1
MET-03	2.3.1.2.4	2.3-14	Increase information as discussed with the NRC.	Add "16" to number of days each year; remove "monthly and regional" and add "by county" to wind events to reconcile thunderstorm information.	1
MET-04	2.3.1.2.8	2.3-20	Erratum	Add "the" in front of Dallas Fort Worth Airport	1
MET-13	2.3.2.1.2	2.3-22	Erratum	Replace "2001 through 2006" with "2001 – 2004 and 2006" to describe which data years were used.	1
MET-13	2.3..2.1.3	2.3-27	Erratum	Replace "2001- 2006" with "2001 – 2004 and 2006" to	1

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
				describe which data years were used.	
MET-04	2.3.2.1.4	2.3-27	Erratum	Add "Dallas" in front of "Fort Worth"	1
MET-13	2.3.2.2.4	2.3-32	Erratum	Add "Fort" for the years "2001 – 2006"	1
MET-3 MET-13	Table 2.3-211	2.3-83	Erratum	Replace numbers in column "Average per Yr (#/yr) and Replace "2006 and (-24 yr) with "7/31/2006"	1
MET-13	Table 2.3-285	2.3-164	Errata	Replace "2001 – 2006" with "2001 – 2004 and 2006" to describe which data years were used.	1
MET-04	Table 2.3-286	2.3-165	Erratum	Add "Dallas" in front of "Fort Worth" for the title.	1
MET-04	Table 2.3-296	2.3-177	Erratum	Add "Dallas" in front of Fort Worth and "Airport" after Worth in the title	1
MET-04	Table 2.3-299	2.3-180 2.3-181	Erratum	Add "Dallas" in front of "Fort Worth" in the title	1
CTS-00554	List of Tables	2-xxxiii	Increase information as discussed with the NRC to summarize the reports provided in Luminant's letter TXNB-08027 to NRC dated November 4, 2008.	Added Tables 2.5.4-228 through 2.5.4-231	2
CTS-00554	List of Figures	2-I	Increase information as discussed with the NRC to summarize the reports provided in Luminant's letter TXNB-08027 to NRC dated November 4, 2008.	Added Figure 2.5.4-245	2
CTS-00703	Table 2.3-332	2.3-233 2.3-234	To reflect CPNPP Units 3 and 4 compliance with RG 1.23	Added "Second Proposed Revision, April 1986" to the footnotes	2
CTS-00554	2.5.4.10.1	2.5-189	Increase information as discussed with the NRC to summarize the reports provided in	Additional discussion and equations to reflect what calculations and analyses were performed to demonstrate bearing	2

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
			Luminant's letter TXNB-08027 to NRC dated November 4, 2008.	capacity.	
CTS-00554	2.5.4.10.2	2.5-190	Increase information as discussed with the NRC to summarize the reports provided in Luminant's letter TXNB-08027 to NRC dated November 4, 2008.	Additional discussion on settlement, including calculations, equations and discussion of laboratory test results, layered versus unlayered method.	2
CTS-00554	2.5.4.10.3	2.5-191	Increase information as discussed with the NRC to summarize the reports provided in Luminant's letter TXNB-08027 to NRC dated November 4, 2008.	Additional information added to excavation rebound potential.	2
CTS-00554	2.5.7	2.5-228	Increase information as discussed with the NRC to summarize the reports provided in Luminant's letter TXNB-08027 to NRC dated November 4, 2008.	Added references 2.5-432 through 2.5-434 to reflect additional discussion on bearing capacity and settlement subsection discussed.	2
CTS-00554	Tables 2.5-4-228 through 2.5.4-231	-	Increase information as discussed with the NRC to summarize the reports provided in Luminant's letter TXNB-08027 to NRC dated November 4, 2008.	Added new tables to reflect bearing capacity discussion and settlement discussion within subsections.	2
CTS-00554	Figure 2.5.4-245		Increase information as discussed with the NRC to summarize the reports provided in Luminant's letter TXNB-08027 to NRC dated November 4, 2008.	Added Figure 2.5.4-245.	2

## **Chapter 3**

### Chapter 3 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-00638	3.3.1.2	3.3-1	Clarification	Add "CPNPP Units 3 and 4 do not have site-specific seismic category II buildings and structures".	0
CTS-00600	3.7.1	3.7-3	Editorial correction	Change "is" to "has been".	0
MAP-03-001	3.7.4.2 3.7.5	3.7-12 3.7-14	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 3.7(15)	0
MAP-03-002	3.7.4.5 3.7.5	3.7-12 3.7-13 3.7-14	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 3.7(18)	0
CTS-00532	Table 3.7.2-1R	3.7-17 3.7-18	Editorial correction	Revise LMN to highlight changes.	0
MAP-03-003	3.8.1.4.1.3 3.8.6	3.8-1 3.8-13 3.8-14	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 3.8(1)	0
MAP-03-004	3.8.1.5.1.2 3.8.1.5.2.2 3.8.6	3.8-1 3.8-1 3.8-14	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 3.8(2)	0
CTS-00602	3.8.1	3.8-2	Clarification	Change "Chapter 2" to "Subsection 2.5.4".	0
MAP-03-005	3.8.1.6 3.8.6	3.8-2 3.8-14	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 3.8(4)	0
MAP-03-006	3.8.1.6 3.8.6	3.8-2 3.8-14	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 3.8(5)	0
MAP-03-007	3.8.1.6 3.8.6	3.8-2 3.8-14	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 3.8(6)	0
MAP-03-008	3.8.1.6 3.8.6	3.8-3 3.8-14	Deletion of COL item.	Delete COL 3.8(8)	0

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
			Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008		
MAP-03-009	3.8.1.6 3.8.6	3.8-3 3.8-14	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 3.8(9)	0
MAP-03-010	3.8.1.6 3.8.6	3.8-3 3.8-14	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 3.8(12)	0
MAP-03-011	3.8.1.6 3.8.6	3.8-3 3.8-14	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 3.8(13)	0
CTS-00607	3.8.4.1.3.2	3.8-6 3.8-7	Editorial correction	Change "the ESW pump houses" to "UHS ESW pump house".	0
MAP-03-012	3.8.4.7	3.8-11	Revision of COL 3.8(22) Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Change "Monitoring of seismic category I structures is required to be performed" to "a site-specific program for monitoring and maintenance of seismic category I structures is performed".	0
CTS-00603	Table 3.9-202	3.8-18	Consistent with DCD Rev.1	Change unit and number in the table.	0
CTS-00604	3.9.3.4.2.5	3.9-2	Editorial correction	Clarify wording.	0
CTS-00531	3.9.3.4.2.5	3.9-2	Editorial correction	Change "are" to "is".	0
CTS-00605	Table 3.9-201	3.9-5	Editorial correction	Change COL item number.	0
MAP-03-014	3.10 3.10.7	3.10-1 3.10-3	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 3.10(10)	0
CTS-00606	3.11	3.11-1	Clarification	Replace EQ program implementation dates with milestones.	0



Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-00639	3.11.5	3.11.3	Editorial correction	Change "Table 3D-201 by completion of [Later]" to "the Equipment EQ Technical Report (Reference 3.11.3)".	0
MAP-03-015	3.13.1.2.3 3.13.3	3.13-1 3.13-2	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 3.13(1)	0
MAP-03-016	3.13.1.2.5 3.13.3	3.13-1 3.13-2	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 3.13(2)	0
DCD_3.5.1.1-04	3.5	3.5-1 3.5-4	Reflect Response to DCD RAI No. 127	Change section number and title	3

**Comanche Peak Nuclear Power Plant, Units 3 & 4  
COL Application  
Part 2, FSAR**

**3.5 MISSILE PROTECTION**

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

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~~3.5.1.1.2.4~~ ~~3.5.1.2.4~~ ~~Missiles Not Considered Credible~~ Gravitational Missiles

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DCD-3.5.1.1-04

CP COL 3.5(1) Replace the last paragraph of ~~DCD Subsection 3.5.1.1.2.4~~ 3.5.1.2.4 with the following.

CPNPP Unit 3 and 4 procedures will be issued prior to fuel load in accordance with Subsection 13.5.2.2 to require equipment for maintenance or undergoing maintenance to be removed from containment prior to operation, moved to a location where it is not a potential hazard to SSCs important to safety, or seismically restrained to prevent it from becoming a missile.

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**3.5.1.3.1 Geometry**

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CP COL 3.5(6) Replace the third paragraph of ~~DCD Subsection 3.5.1.3.1~~.

The CPNPP site plan (Figure 1.2-1R) reflects the placement of CPNPP Units 3 and 4 in relation to existing Units 1 and 2. The location of CPNPP Units 3 and 4 is such that CPNPP Units 1 and 2 are outside the low-trajectory turbine missile strike zone inclined at 25 degrees to the turbine, and therefore no postulated low-trajectory turbine missiles affect CPNPP Units 1 and 2. Similarly, no postulated low trajectory turbine missiles from CPNPP Units 1 and 2 will affect CPNPP Units 3 and 4. The placement of CPNPP Units 3 and 4, however, does generate an unfavorable orientation, as defined in NUREG-0800, Section 3.5.1, of the turbine generator (T/G) in relationship with safety-related SSCs of the adjacent US-APWR Unit. (See Subsection 3.5.1.3.2 for impact to  $P_4$ ).

---

**3.5.1.3.2 Evaluation**

---

CP COL 3.5(2) Replace the third paragraph of ~~DCD Subsection 3.5.1.3.2~~ with the following.

Mathematically,  $P_4 = P_1 \times P_2 \times P_3$ , where RG 1.115 (Reference 3.5-6) considers an acceptable risk rate for  $P_4$  as less than  $10^{-7}$  per year. For unfavorably oriented T/Gs determined in Subsection 3.5.1.3, the product of  $P_2$  and  $P_3$  is estimated as

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**3.5.2 Structures, Systems, and Components to be Protected from Externally Generated Missiles**

---

CP COL 3.5(5) Replace the second sentence in the second paragraph of **DCD Subsection 3.5.2** with the following.

No site-specific hazards for external events are shown to produce missiles more energetic than tornado missiles identified for the US-APWR standard plant design. The design basis for externally generated missiles is therefore bounded by the standard plant design criteria for tornado-generated missiles.

---

**3.5.4 Combined License Information**

Replace the content of **DCD Subsection 3.5.4** with the following.

CP COL 3.5(1) **3.5(1)** *Equipment removed from containment prior to operation*

*This COL item is addressed in Subsection ~~3.5.1.1.2.1~~ 3.5.1.2.4.*

DCD-3.5.1.1-04

CP COL 3.5(2) **3.5(2)** *Maintain  $P_1$  within acceptable limit*

*This COL item is addressed in Subsection 3.5.1.3.2.*

CP COL 3.5(3) **3.5(3)** *Presence of potential hazards and effects in vicinity of site, except aircraft*

*This COL item is addressed in Subsection 3.5.1.5.*

CP COL 3.5(4) **3.5(4)** *Site interface parameters for aircraft crashes and air transportation accidents*

*This COL item is addressed in Subsection 3.5.1.6.*

CP COL 3.5(5) **3.5(5)** *Other potential site-specific missiles*

*This COL item is addressed in Subsection 3.5.2.*

CP COL 3.5(6) **3.5(6)** *Orientation of T/G of other unit(s)*

*This COL item is addressed in Subsection 3.5.1.3.1.*

**3.5.5 References**

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## **Chapter 4**

## Chapter 4 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 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. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-00528	5.2.1.2	5.2-1	Editorial correction	Include words about RG 1.84.	0
CTS-00675	5.2.1.2	5.2-1	Editorial correction	Add "Units 3 and 4" after Comanche Peak Nuclear Power Plant.  Delete a period in LMN	0
RCOL2_05.03-1	5.3.2.3	5.3-3	Responses to RAI No. 2 Luminant Letter TXNB-09010 Dated 5/1/2009	Add clarification about the timing of submitting PTS evaluation using the as-procured reactor vessel material properties.	-

## **Chapter 6**



## Chapter 6 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-00518 CTS-00644	6.4.4	6-i 6.4-1 6.4-3 1.8-43	To reflect resolution of acceptance review issue	Include dose evaluation in the control room due to a post-accident release from the other US-APWR unit or existing CPNPP unit.	0
	6.4.4		Editorial correction	Add Subsection "6.4.4.2" in Table 1.8-201 and Subsection 6.4.7.	0
CTS-00642	6.1	6.1-1	Update	All 6.1 COL Items have been deleted from the DCD. This FSAR section is now IBR with no departures or supplements.	0
MAP-06-001	6.1.1.2.2	6.1-2	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 6.1(1)	0
MAP-06-002	6.1.1.1	6.1-1 6.1-2	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 6.1(2)	0
MAP-06-003	6.1.1.2.1	6.1-1 6.1-2	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 6.1(3)	0
MAP-06-004	6.1.1.2.1	6.1-1 6.1-2	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 6.1(4)	0
MAP-06-005	6.1.2	6.1-2 6.1-3	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 6.1(5)	0
MAP-06-006	6.2.1.1.3.4 6.2.1.5.7	6.2-1 6.2-3	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 6.2(1)	0
MAP-06-007	6.2.2.3 Table 6.2.2-2R	6.2-1 6.2-4 6.2-6	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 6.2(9)	0
MAP-06-008	6.2.4.2	6.2-2 6.2-3	Deletion of COL item. Letter MHI Ref:UAP-	Delete COL 6.2(6)	0

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
			HF-08259, dated on Nov.7, 2008		
MAP-06-009	6.2.5.2	6.2-2 6.2-3	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 6.2(7)	0
DCD_06.02.06-2	6.2.6.1	6.2-3	DCD_RAI 06.02.06-2	Change "first sentence " to "first and second sentences".	0
CTS-00643	6.3	6.3-1	Update	All 6.3 COL Items have been deleted from the DCD. This FSAR section is now IBR with no departures or supplements.	0
MAP-06-011	6.3.2.8	6.3-1 6.3-2	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 6.3(3)	0
MAP-06-012	6.3.2.2.4	6.3-1 6.3-2	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 6.3(4)	0
MAP-06-013	6.3.2.4	6.3-1 6.3-2	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 6.3(6)	0
MAP-06-014	6.4.3 6.4.7	6.4-1 6.4-3	Revision of COL 6.4(2)	Revise COL Item to only discuss automatic actions and manual procedures for the MCR HVAC system in the event of postulated toxic gas release.	0
MAP-06-015	6.4.2.2.1	6.4-1 6.4-3	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 6.4(4)	0
CTS-00652	6.4.4.2 6.4.7	6.4-2 6.4-3	Re-evaluation of COL Item	Associate COL 6.4(2) with Subsection 6.4.4.2.	0
CTS-00653	6.4.4.2	6.4-3	Erratum	Change "5.2 ppm " to "5.7 ppm".	0
MAP-06-016	6.5.1.7	6.5-1	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 6.5(4)	0

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
MAP-06-018	6.6.8	6.6-1	Revision of COL 6.6(2)	Revise description to only identify the implementation milestone of the program.	0
CTS-00696	6.4.4.2	6.4-1	NRC Staff Reviewer Comment Incorporation from 03-23-25-09 Hazards Analysis Audit	Added pointer to Table 2.2-214 for toxic chemicals that do not meet RG 1.78 screening criteria.	1

# **Chapter 7**

## Chapter 7 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
RCOL2_7.04_1	7.4.1.6	7.4-1	Response to RAI No.4 Luminant Letter no.TXNB-09020 Date 5/26/2009	Add a description of reference; FSAR subsection 9.2.5.	-
RCOL2_7.05_1	7.5.1.6.2	7.5-1	Response to RAI No.5 Luminant Letter no. TXNB-09020 Date 5/26/2009	Revise the description of EOF capability. EOF has identical information as TSC and MCR, but does not control capability.	-

## **Chapter 8**

## Chapter 8 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-00451	List of Figures, Figure 8.2-201	8-iii 8.2-23	Editorial correction	Add "Relevant Portions of" to the title of the Figure 8.2-201.	0
CTS-00640	8.2.1.2	8.2-3	Editorial correction	Change "Any" to "Both of any".	0
CTS-00686	8.2.1.2.1.1	8.2-5	Editorial correction	Delete "from".	0
CTS-00641	8.2.1.2.1.1	8.2-6	Erratum	Change "is" to "are".	0
CTS-00477	8.2	8.2-6	Clarification	Change description of offsite power system.	0
CTS-00479	8.4	8.4-1	Editorial correction	Change section title in bold font.	0

## **Chapter 9**



## Chapter 9 Tracking Report Revision List

Change ID No.	Section	FSAR Rev. 0 Page	Reason for change	Change Summary	Rev. of FSAR T/R
CTS-00586	9.2.1.2.1	9.2-1 9.2-2	Consistent with Subsection 9.4.5.2.6	Change "ESWP house" to "UHS ESW pump house".	0
CTS-00608	9.4	9.4-7	Erratum	Change heating coil capacity of EFP (M/D) Area Air Handling Unit from "1 kW" to "2 kW".	0
DCD_09.05.01-6	9.5.1.3 9.5.9	9.5-3 9.5-18	DCD_RAI 09.05.01-6	Add Subsection 9.5.1.3.	0
DCD_09.05.01-15	Table 9.5.1-1R	9.5-46	DCD_RAI 09.05.01-15	Add LMNs in Table 9.5.1-1R and Table 9.5.1.2R.	0
DCD_09.05.01-7	Table 9.5.1-1R	9.5-55	DCD_RAI 09.05.01-7	Add "see Subsection 9.5.1.3" to Table 9.5.1.1R.	0
DCD_09.05.01-5	Table 9.5.1-1R	9.5-56	DCD_RAI 09.05.01-5	Fill in Remarks on Table 9.5.1-1R.	0
DCD_09.05.01-15	Table 9.5.1-2R	9.5-112 9.5-113	DCD_RAI 09.05.01-15	Add LMNs in Table 9.5.1-1R and Table 9.5.1.2R.	0
DCD_09.02.04-1	9.2.10	9.2-12	Reflect Response to DCD RAI No. 125	Revised text in CP COL 9.2(10) for clarity.	3
DCD_09.02.04-2	9.2.10	9.2-13	Reflect Response to DCD RAI No. 125	Revised text in CP COL 9.2(16) for clarity.	3

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*This COL item is addressed in Subsection 9.2.1.3.*

CP COL 9.2(3) **9.2(3)** *Source and location of the UHS*

*This COL item is addressed in Subsection 9.2.5.2.*

CP COL 9.2(4) **9.2(4)** *The location and design of the ESW intake structure*

*This COL item is addressed in Subsection 9.2.5.2.*

CP COL 9.2(5) **9.2(5)** *The location and the design of the discharge structure*

*This COL item is addressed in Subsection 9.2.5.2.*

CP COL 9.2(6) **9.2(6)** *The ESWP design details – required total dynamic head, NPSH available*

*This COL item is addressed in Subsection 9.2.1.2.2, 9.2.1.2.2.1 and Table 9.2.1-1R.*

CP COL 9.2(7) **9.2(7)** *The design of ESWS related with the site specific UHS*

*This COL item is addressed in Subsections 9.2.1.2.1, 9.2.1.3, 9.2.1.5.4 and Figure 9.2.1-1R.*

CP COL 9.2(8) **9.2(8)** *The ESW chemistry requirements*

*This COL item is addressed in Subsection 9.2.1.2.1.*

CP COL 9.2(9) **9.2(9)** *The storage capacity and usage of the potable water*

*This COL item is addressed in Subsections 9.2.4.1, 9.2.4.2.2.1, 9.2.4.2.2.2 and 9.2.4.2.2.3.*

CP COL 9.2(10) **9.2(10)** *State and Local Department of Health ~~of Natural Resources~~ and Environmental Protection Standards*

DCD\_09.02.  
04-1

*This COL item is addressed in Subsection 9.2.4.1.*

CP COL 9.2(11) **9.2(11)** *Source of potable water to the site and the necessary required treatment*

*This COL item is addressed in Subsections 9.2.4.1, 9.2.4.2.1 and Figure 9.2.4-1R.*

CP COL 9.2(12) **9.2(12)** *Sanitary waste treatment*

*This COL item is addressed in Subsections 9.2.4.1 and 9.2.4.2.1.*

CP COL 9.2(13) **9.2(13)** *Supply of water (city or on-site wells of another) and the system*

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*operation.*

*This COL item is addressed in Subsections 9.2.4.2.3, 9.2.4.4 and 9.2.4.5.*

CP COL 9.2(14) **9.2(14)** *Potable and sanitary water system components data*

*This action is addressed in Subsections 9.2.4.2.1 and Table 9.2.4-1R.*

CP COL 9.2(15) **9.2(15)** *Total number of people at the site, the usage capacity and sizing of the potable water tank and associated pumps.*

*This COL item is addressed in Subsections 9.2.4.1, 9.2.4.2.2.1, 9.2.4.2.2.2 and 9.2.4.2.2.3.*

CP COL 9.2(16) **9.2(16)** *Values to the component based on calculations*

DCD\_09.02.  
04-2

*This COL item is addressed in Table 9.2.4-1R.*

CP COL 9.2(17) **9.2(17)** *Sanitary lift stations and the sizing the appropriate interfaces*

*This COL item is addressed in Subsections 9.2.4.1 and 9.2.4.2.3.*

CP COL 9.2(18) **9.2(18)** *The type of the UHS based on specific site conditions and meteorological data*

*This COL item is addressed in Subsections 9.2.5.1 and 9.2.5.2.*

CP COL 9.2(19) **9.2(19)** *The design of the electrical power supply to the UHS*

*This COL item is addressed in Subsection 9.2.5.2.*

CP COL 9.2(20) **9.2(20)** *The description and the P&ID of the UHS*

*This COL item is addressed in Subsections 9.2.5.2, Table 9.2.5-201 and Figure 9.2.5-201.*

CP COL 9.2(21) **9.2(21)** *The source of makeup water to the UHS and the blowdown discharge location*

*This COL item is addressed in Subsections 9.2.5.2.*

CP COL 9.2(22) **9.2(22)** *The UHS capability and safety evaluation*

*This COL item is addressed in Subsection 9.2.5.3 and Table 9.2.5-202.*

CP COL 9.2(23) **9.2(23)** *The test and inspection requirements of the UHS*

*This COL item is addressed in Subsection 9.2.5.4.*

CP COL 9.2(24) **9.2(24)** *The required alarms, instrumentation and controls of the UHS system*

# **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_10.02.03-01	10.2	10.2-1	Response to RAI No. 6 Luminant Letter no.TXNB-09023 Date 06/17/2009	For FSAR Subsection 10.2.3.5, delete the entire paragraph and replace with the following: "A turbine maintenance and inspection procedure will be established prior to fuel load."	-
DCD_10.03.06-6	10.3.6.3.1	10.3-1	Reflect Response to DCD RAI No.250	Replace "industry guidelines" with "NSAC-202L-R3". Add new sentence to end of second paragraph.	3

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**10.3 MAIN STEAM SUPPLY SYSTEM**

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

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**10.3.2.3.2 Main Steam Safety Valves**

---

STD COL 10.3(2) Replace the seventh paragraph in **DCD Subsection 10.3.2.3.2** with the following.

The actual throat area for the Main Steam Safety Valves will be determined at the procurement stage.

---

**10.3.6.3 Flow-Accelerated Corrosion (FAC)**

---

STD COL 10.3(1) Replace the fourth paragraph

in **DCD Subsection 10.3.6.3** with the following.

**10.3.6.3.1 Flow-Accelerated Corrosion (FAC) Monitoring Program**

Erosion-corrosion in piping systems is a flow-induced material degradation process. It can affect metallic materials whose corrosion resistance is based on the formation of oxide (protective) surface film. Wear-off destruction of the oxide film by turbulent flow water or steam causes corrosion of the unprotected metal.

The FAC monitoring program analyzes, inspects, monitors, and trends FAC degradation of carbon steel piping and piping components in high-energy systems that carry water or wet steam and are susceptible to erosion-corrosion damage. In addition, the FAC monitoring program considers the information of Generic Letter 89-08 and ~~industry guidelines~~ [NSAC-202L-R3](#). The FAC monitoring program will be established prior to fuel load.

DCD\_10.03.  
06-6

The thrust of the FAC monitoring program is to:

- Conduct appropriate analysis and a limited, but thorough, baseline inspection program.
- Determine the extent of pipe wall thinning, if any, and repair/replace components as necessary.

# **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
CTS-00482	11.2.3.1	11.2-2	Editorial correction	Delete repeated phrase.	0
CTS-00481	Table11.2-14R	11.2-14	Editorial correction	Add "hr" in transit time.	0
MAP-11-001	11.3.3.3	11.3-2, 11.3-3	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 11.3(5)	0



## **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
DCD_12.01-2	12.1.3	12.1-2	Delete Outdated RG	Delete RG8.20, 8.26, and 8.32.	0
DCD_12.02-15	12.2.1.1.10	12.2-1	DCD_RAI 12.02-15	Add "40 CFR 190".	0
CTS-00463	12.5	12.5-1	Clarification	Change description about entry into the interim waste storage building.	0
DCD_12.03-12.04-2	12.1.3	12.1-2	Reflect Response to DCD RAI No. 12.03-12.04-2	Add COL Items	3

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**12.1.3 Operational Considerations**

CP COL 12.1(3) Replace the ~~contents~~first and second paragraphs in DCD Subsection 12.1.3 with the following. DCD\_12.03-12.04-2

The operational radiation protection program for ensuring that operational radiation exposures are as low as reasonably achievable (ALARA) is discussed in Section 12.5, by utilizing of NEI 07-03 (Reference 12.1-26) in combination with existing or modified CPNPP Units 1 and 2 site program information. The program follows the guidance of RG 8.2, 8.4, 8.6, 8.7, 8.9, 8.13, 8.15, ~~8-20~~, 8.25, ~~8-26~~ 8.27, 8.28, 8.29, ~~8-32~~, 8.34, 8.35, 8.36, and 8.38.

DCD\_12.01-2

CP COL 12.1(6) Replace the last sentence of third paragraph in DCD Subsection 12.1.3 with the following. DCD\_12.03-12.04-2  
CP COL 12.1(7)

To achieve this objective, two kinds of operational procedures are developed. First operational procedures are developed to perform periodic review of operational practices to ensure that operating procedures are revised to reflect the installation of new or modified equipment, personnel qualification and training are kept current, and facility personnel are following the operating procedures. The other operational procedures are developed to track implementation of requirements for record retention according to 10 CFR 50.75(g) and 10 CFR 70.25(g) as applicable. This record, containing facility design and construction, facility design changes, site conditions before and after construction, onsite waste disposal and contamination, and results of radiological surveys, is used to facilitate decommissioning. These procedures are related to Plant Radiation Protection Procedures, described in 13.5.2.2.

**12.1.4 Combined License Information**

Replace the content of DCD Subsection 12.1.4 with the following.

CP COL 12.1(1) **12.1(1)** *Policy considerations regarding plant operations*

*This Combined License (COL) item is addressed in Subsections 12.1.1.3.1, 12.1.1.3.2 and 12.1.1.3.3.*

**12.1(2)** *Deleted from the DCD.*

CP COL 12.1(3) **12.1(3)** *Following the guidance regarding radiation protection*

*This COL item is addressed in Subsection 12.1.3.*

**12.1(4)** *Deleted from the DCD.*

CP COL 12.1(5) **12.1(5)** *Radiation protection program*

*This COL item is addressed in Section 12.5.*

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CP COL 12.1(6) **12.1(6)** *Periodic review of operational practices*

*This COL item is addressed in Section 12.1.3.*

CP COL 12.1(7) **12.1(7)** *Implementation of requirements for record retention*

*This COL item is addressed in Section 12.1.3.*

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DCD\_12.03-  
12.04-2

# **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
CTS-00484	13.1	13.1-17 13.1-18	Editorial correction	Change location of "Table 13.1-201 (Sheet 5 of 5)".	0
CTS-00486	13.5	13.5-4 13.5-7	Editorial correction	Delete reference 13.5-201.	0
CTS-00488	13AA Table of Contents	13AA-ii	Editorial correction	Modify dot lines in Table of Contents.	0

## **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
CTS-00635	14.2.2	14.2-1	Editorial correction	Change "Replace the last paragraph" to "Replace the last sentence of the second paragraph".  Change "Appendix 14AA provides a description ...." to " A description .... are reconciled in Appendix 14AA".	0
RCOL2_14.03-1	14.2.12 14.2.12.1  14.2.13  Table 14.2-201	14.2-3   14.2-7  14.2-8	Responses to RAI No. 1 Luminant Letter TXNB-09010 Dated 5/1/2009	Add new item to ensure verification that local offsite fire departments utilize hose threads or adapters capable of connecting with onsite hydrants, hose couplings, and standpipe risers.	-
DCD_14.02-114	14.2.3 14.2.8.2.1 14.2.13	14.2-1 14.2-2 14.2-7	Reflect Response to DCD RAI No. 271.	Add description of STD COL 14.2(11) and STD COL 14.2(12) in accordance with DCD RAI No.271.	3
DCD_14.02-23	14.2.8.1 14.2.13	14.2-2 14.2-7	Reflect Response to DCD RAI No. 31.	Add description of STD COL 14.2(11) in accordance with DCD RAI No.31.	3



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**14.2 INITIAL PLANT TEST PROGRAM**

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

**14.2.1 Summary of Test Program and Objectives**

---

STD COL 14.2(1) Replace the last two paragraphs in **DCD Subsection 14.2.1** with the following.

The initial test program (ITP) described in this chapter addresses both US-APWR and site-specific systems and components. The test program includes administrative controls for testing components and systems, which are described in this chapter.

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**14.2.2 Organization and Staffing**

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CP COL 14.2(2) Replace the last sentence of the second paragraph in **DCD Subsection 14.2.2** with the following. | CTS-00635

~~Appendix 14AA provides a~~ description of the organizations responsible for all phases of the ITP, and a description of the administrative controls that assure that experienced and qualified supervisory personnel and other principal participants are responsible for managing, developing, and conducting the ITP are reconciled in Appendix 14AA. | CTS-00635  
| CTS-00635

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**14.2.3 Test Procedures**

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CP COL 14.2(3) Replace the last two paragraphs in **DCD Subsection 14.2.3** with the following.

The process used to develop test specifications and test procedures is described in Appendix 14AA. **Table 13.4-201** provides the milestone for the implementation of the ITP.

STD COL 14.2(12) Add the following sentence at the end of DCD Subsection 14.2.3. | **DCD\_14.02-114**

Approved test procedures for satisfying testing requirements of Section 14.2 are made available to the NRC approximately 60 days prior to their intended use.

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**14.2.4 Conduct of Test Program**

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CP COL 14.2(4) Replace the last paragraph in **DCD Subsection 14.2.4** with the following.

Appendix 14AA provides a description of the administrative controls that govern the conduct of the test program. These controls include requirements that govern the activities of the startup organization and their interface with other organizations.

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**14.2.5 Review, Evaluation, and Approval of Test Results**

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CP COL 14.2(5) Replace the last paragraph in **DCD Subsection 14.2.5** with the following.

Appendix 14AA provides a description of the specific controls for the review, evaluation, and approval of the test results of the test program by appropriate personnel and/or organizations, including the methods and schedules for approval of test data for each major phase.

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**14.2.6 Test Records**

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CP COL 14.2(6) Replace the last paragraph in **DCD Subsection 14.2.6** with the following

Appendix 14AA provides a description of the specific controls for the preparation and retention of test records.

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**14.2.8.1 Preoperational and/or Startup Testing for Unique or First-of-a-Kind Principal Design Features**

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DCD\_14.02-23

STD COL 14.2(11) Replace the last sentence of the second paragraph in DCD Subsection 14.2.8.1 with the following.

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First-plant-only and prototype tests either are performed in accordance with Section 14.2.8 or a justification is provided prior to initial fuel loading that the results of the First-plant-only test and prototype test are applicable to a subsequent plant and are not required to be repeated.

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DCD\_14.02-23

**14.2.8.2.1      Natural Circulation Testing**

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DCD\_14.02-114

STD COL 14.2(11) Add the following text at the end of DCD Subsection 14.2.8.2.1.

Natural circulation test is performed in accordance with Subsection 14.2.12.2.3.9 or a justification is provided based on Subsection 14.2.8.2.1 prior to initial fuel load that the results of the US-APWR prototype test are applicable to a subsequent plant and are not required to be repeated.

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**14.2.9      Trial Testing of Plant Operating and Emergency Procedures**

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CP COL 14.2(7) Replace the last paragraph in **DCD Subsection 14.2.9** with the following.

A schedule for the development of plant procedures required for use during preoperational testing will be provided to the U.S. Nuclear Regulatory Commission (NRC) 12 months prior to the start of the corresponding preoperational tests. A schedule for the development of plant procedures required for use during startup testing is provided to the NRC 12 months prior to the start of fuel loading. The schedules provide sufficient detail to assure that the procedures required to support testing are available for test procedure preparation, review and performance.

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**14.2.11      Test Program Schedule**

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CP COL 14.2(8) Replace the first and second sentences of the last paragraph in **DCD Subsection 14.2.11** with the following.

An event-based schedule for conducting each major phase of the test program for the Comanche Peak Nuclear Power Plant (CPNPP) Units 3 and 4, relative to the start of fuel loading, will be provided to the NRC six months prior to the start of preoperational testing. The schedule will be periodically updated to reflect actual

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CP COL 14.2(3) **14.2(3) Test specifications and test procedures**

*This COL item is addressed in Subsection 14.2.3 and Appendix 14AA.*

CP COL 14.2(4) **14.2(4) Conduct of test program**

*This COL item is addressed in Subsection 14.2.4 and Appendix 14AA.*

CP COL 14.2(5) **14.2(5) Review, evaluation, and approval of test results**

*This COL item is addressed in Subsection 14.2.5 and Appendix 14AA.*

CP COL 14.2(6) **14.2(6) Test records**

*This COL item is addressed in Subsection 14.2.6 and Appendix 14AA.*

CP COL 14.2(7) **14.2(7) Trial testing of plant operating and emergency procedures**

*This COL item is addressed in Subsection 14.2.9*

CP COL 14.2(8) **14.2(8) Test program schedule**

*This COL item is addressed in Subsection 14.2.11.*

CP COL 14.2(9) **14.2(9) Cross-reference between each test and ITAAC requirements**

*This COL item is addressed in Subsection 14.2.11 and Table 14.2-202.*

CP COL 14.2(10) **14.2(10) Site-specific test abstracts**

STD COL 14.2(10)

*This COL item is addressed in Subsections [14.2.12.1.90.C.8](#), 14.2.12.1.112, 14.2.12.1.113, and 14.2.12.1.114, Table 14.2-201, and Appendix 14A.*

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STD COL 14.2(11) **14.2(11) First-plant only test and prototype test**

*This COL item is addressed in Subsections 14.2.8.1 and 14.2.8.2.1.*

DCD\_14.02-  
23

STD COL 14.2(12) **14.2(12) Approved Test procedures**

*This COL item is addressed in Subsection 14.2.3*

DCD\_14.02-  
114

# **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

## **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



## **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
CTS-00490	17.3	17.3-1	Editorial correction	Change description about quality assurance program.	0

## **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

## **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
MAP-19-001	19.1.5.1.1	19.1-8 19.3-1	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 19.3(5)	0
MAP-19-002	19.2.5	19.2-1 19.3-1	Deletion of COL item. Letter MHI Ref:UAP-HF-08259, dated on Nov.7, 2008	Delete COL 19.3(6)	0
CTS-00491	ACRONYMS AND ABBREVIATIONS	19-v	Erratum	Change "Westuinghouse" to "Westinghouse".	0
CTS-00714	19.2.5 19.2.7 19.3.3	19.2-1 19.2-4 19.3-1	Restoration of COL item. Letter MHI Ref: UAP-HF-09305 dated June10,2009	Restoration COL 19.3(6)	3

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**19.2 SEVERE ACCIDENT EVALUATION**

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

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**19.2.5 Accident Management**

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CTS-00714

CP COL 19.3(6) Add the following text after the last paragraph in DCD Subsection 19.2.5.

An accident management program will be developed, in which severe accident management procedures that capture important operator actions described in the severe accident management framework are included. The accident management program will incorporate the instructions provided in NEI 91-04 Revision 1 (Reference 19.2-201). Development of emergency operating procedures is addressed in Subsection 13.5.2.1. Training requirements will also be developed as part of the accident management program addressed in DCD Section 18.9, and training for operators will be completed prior to first fuel load.

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~~**19.2.5 Accident Management**~~

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MAP-19-002

~~CP COL 19.3(6) Add the following text after the last paragraph in DCD Subsection 19.2.5.~~

~~An accident management program will be developed based on such as the severe accident management guidance (SAMG) prepared by Westinghouse Owners Group (WOG). Important operator actions will be included in operating procedures, and training procedures will also be developed as part of the accident management program. Training for operators will be completed prior to the first fuel load.~~

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**19.2.6.1 Introduction**

CP COL 19.3(4) Replace the content of **DCD Subsection 19.2.6.1** with the following

This section is prepared using site-specific PRA information to consider potential design improvements as required under 10 CFR 50.34(f) and follows content guidance provided in NRC Regulatory Guide 1.206. Information for this section is

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**19.2.6.4 Risk Reduction Potential of Design Improvements**

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CP COL 19.3(4) Replace the last sentence in **DCD Subsection 19.2.6.4** with the following.

The maximum averted cost is \$305k.

**19.2.6.5 Cost Impacts of Candidate Design Improvements**

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CP COL 19.3(4) Replace the first sentence in the last paragraph in **DCD Subsection 19.2.6.5** with the following.

SAMA cost evaluation results are described in Table 19.2-9R.

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**19.2.6.6 Cost-Benefit Comparison**

CP COL 19.3(4) Replace the content of **DCD Subsection 19.2.6.6** with the following.

The maximum averted cost-risk of less than \$305k for a single US-APWR unit at the CPNPP Unit 3 and 4 is so low that there are no design changes over those already incorporated into the US-APWR design that could be determined to be cost-effective. Even with a conservative 3 percent discount rate, the valuation of the averted risk is less than \$787k.

Accordingly, further evaluation of design-related SAMAs is not warranted. Evaluation of administrative SAMAs would not be appropriate until the plant design is finalized, and plant administrative processes and procedures are developed. At that time, appropriate administrative controls on plant operations would be incorporated into the plant's management systems as part of its baseline.

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**19.2.7 References**

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CP COL 19.3(6) Add the following reference document after the last document in DCD Subsection 19.2.7.

19.2-201 Severe Accident Issue Closure Guidelines, NEI 91-04 Rev. 1, Nuclear Energy Institute, December 1994

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**19.3 OPEN, CONFIRMATORY, AND COL ACTION ITEMS IDENTIFIED AS UNRESOLVED**

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

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**19.3.3 Resolution of COL Action Items**

Replace the content of **DCD Subsection 19.3.3** with the following.

CP COL 19.3(1) **19.3(1)** *Update of PRA and SA evaluation for input to RMTS*

*This COL item is addressed in Subsection 19.1.7.6.*

**19.3(2)** *Deleted from the DCD.*

STD COL 19.3(3) **19.3(3)** *PRA input to a reactor oversight process*

*This COL item is addressed in Subsection 19.1.7.3.*

CP COL 19.3(4) **19.3(4)** *Update of PRA and SA evaluation based on site-specific information*

*This COL item is addressed in Subsections 19.1.1.2.1, 19.1.4.1.2, 19.1.4.2.2, 19.1.5, 19.1.5.2.2, 19.1.5.3.2, 19.1.6.2, 19.2.6.1, 19.2.6.1.1, 19.2.6.2, 19.2.6.4, 19.2.6.5 and 19.2.6.6, Tables 19.1-201, 19.1-202, 19.1-203 and 19.2-9R, and Figure 19.1-201.*

~~CP COL 19.3(5)~~ **19.3(5)** *Deleted from the DCD.* ~~*SSC fragilities*~~

~~*This COL item is addressed in Subsection 19.1.5.1.1.*~~

CP COL 19.3(6) **19.3(6)** *Accident management program*

*This COL item is addressed in Subsection 19.2.5.*

~~CP COL 19.3(6)~~ **19.3(6)** ~~*Deleted from the DCD.*~~ ~~*Accident management program*~~

~~*This COL item is addressed in Subsection 19.2.5.*~~

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