Attachment to TXX-94071 April 15, 1994 Page 1 of 2

PDR ADOCK 05000445

PDR

CPSES - TECHNICAL REQUIREMENTS MANUAL (TRM) AMENDMENT / REVISION 15 DETAILED DESCRIPTION

TR Page (as amended) Group Description 4-1 4 Changes the reference to technical specification section from 3.8.4 to 3/4.8.4. Editorial : This is an editorial change to identify the complete technical specification reference applicable to this part of the TRM. Change Request Number : TR-93-12.5 Commitment Register Number : Related SER : 8,4,1 SSER :22 8.3 SER/SSER Impact : No. 4-5 2 See Sheet No(s) :6,18 and 19 Deletes 51M2 relays associated with the Reactor Coolant Pumps from surveillance requirements for containment electrical penetration conductor overcurrent protective devices. Revision : The primary protection for the containment RCP electrical penetration conductor is provided by relays 50M1-51 and the backup protection by relay 51M3. Although the relay 51M2 provides additional protection for RCP penetration conductor during Modes 1, 2 and 3, the sole purpose of the relay is to provide RCP motor protection during hot loop operation. : TR-93-15.1 Chauge Request Number Commitment Register Number : Related SER : 8.4.1 SSER :22 8.3 SER/SSER Impact : No 4-11 Deletes from surveillance requirements, breakers pertaining to the motor operated valves 1-HV-4782 and 1-8811A. Revision Containment isolation tanks CP1-CTAVT-01 and CP1-RHATVT-01 located outside the containment used to be part of the containment barrier and the associated valves 1-HV-4782 and 1-8811A are installed inside the respective tanks and therefore the electrical protection devices for the valves were considered as containment penetration conductor overcurrent protective devices. However the tanks were later declassified and per FSAR section 6.2.2.2.1 (for CP1-CTAVT-01) and per DBD-ME-260 section 5.1 (for CP1-RHATVT-01), the tanks are no longer part of the containment barrier Therefore the breakers feeding these valves are no longer containment penetration conductor overcu rent 9404190204 940415

Attachment to TXX-94071 April 15, 1994 Page 2 of 2

TR Page (as amended) Group Description protective devices. Change Request Number : TR-93-12.1 Commitment Register Number : Related SER : 8.4.1 SSER :22 8.3 SER/SSER Impact : No 4-12 2 Deletes from surveillance requirements, breakers pertaining to the motor operated valves 1-HV-4783 and 1-8811B. Revision Containment isolation tanks CP1-CTATVT-02 and CP1-RHATVT-2 located outside the containment used to be part of the containment barrier and the associated valves 1-HV-4783 and 1-8811B are installed inside the respective tanks and therefore the electrical protection devices for the valves were considered as containment penetration conductor overcurrent protective devices. However the tanks were later declassified and per FSAR section 6.2.2.2.1 (for CP1-CTATVT-02) and per DBD-ME-260 section 5.1 (for CP1-RHATVT-02), the tanks are no longer containment penetration conductor overcurrent protective devices. Change Request Number : TR-93-12.2 Commitment Register Number : Related SER : 8.4.1 SSER :22 8.3 SER/SSER Impact : No 4-25 2 Deletes from surveillance requirements, breakers pertaining to the motor operated valves 2-HV-4782 and 2-8811A. Revision The electrical penetrations from the tanks are spared and therefore not connected to the THED breakers in the MCC 2EB3-2 compartments 9RF and 9RM. See also TR-93-12.1. Change Request Number : TR-93-12.3 Commitment Register Number : Related SER : 8.4.1 SSER :22 8.3 SER/SSER Impact : No 4-26 2 Deletes from surveillance requirements, breakers pertaining to the motor operated values 2-HV-4783 and 2-8811B. Revision The electrical penetrations from the tanks had been spared and are not connected to the THED breakers in the MCC 2EB4-2 compartments 8RF and 8RM. See also TR-93-12.2. Change Request Number : TR-93-12.4 Commitment Register Number : Related SER : 8.4.1 SSER :22 8.3 SER/SSER Impact : No

ENCLOSURE TO TXX-94071

COMANCHE PEAK STEAM ELECTRIC STATION UNITS 1 & 2 TECHNICAL REQUIREMENTS MANUAL (TRM)

INSTRUCTION SHEET (Page 1 of 1)

The following instructional information and checklist is being furnished to help insert Revision 15 into the Comanche Peak Steam Electric Station TRM. A description of this revision is provided in TXX-94071, dated April 15, 1994.

Discard the old sheets and insert the new sheets, as listed below. Keep all instruction sheets in the front of the Effective Page Listing to service as a record of changes.

Remove

Insert

4-1

4-5 and 4-6 4-11 and 4-12 4-18 and 4-19 4-25 and 4-26

Section 4

4-		und 4	1-6
			4-12
4-	18	and	4-19
4	25	and	4-26

List of Effective Pages

EPL-1 and EPL-4

EPL-1 and EPL-4

TECHNICAL REQUIREMENT 4.1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTION DEVICES

NOTE: This Technical Requirement contains the listing of overcurrent | 15 protection devices subject to the requirements of Technical Specification 3/4.8.4. Although the Specification is repeated here, care must be taken not to overlook Technical Specification Requirements.

Revision 15 April 15, 1994

TECHNICAL REQUIREMENT 4.1

TABLE 4.1.1a

UNIT 1

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUME AND LOCATIO		SYSTEM POWERED
1. 6.9 KV	VAC from Switchgears	
a. Sw	itchgear Bus 1A1	RCP #11
1)	Primary Breaker 1PCPX1	
	a) Relay 50M1-51 b) Relay 86M	
2)	Backup Breakers 1A1-1 or 1A1-2	
	 a) Relay 51M3 b) Relay 51 for 1A1-1 c) Relay 51 for 1A1-2 d) Relay 86/1A1 	
b. Sw	itchgear Bus 1A2	RCP #12
1)	Primary Breaker 1PCPX2	
	a) Relay 50M1-51 b) Relay 86M	
2)	Backup Breakers 1A2-1 or 1A2-2	
	a) Relay 51M3	

- a) Relay 51M3
 b) Relay 51 for 1A2-1
 c) Relay 51 for 1A2-2
 d) Relay 86/1A2

8

8

9 15

COMANCHE PEAK - UNITS 1 AND 2 4-5

Revision 15 April 15, 1994

TECHNICAL REQUIREMENT 4.1 (continued)

TABLE 4.1.1a (continued)

UNIT 1

CONTAINMENT PLNETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER AND LOCATION SYSTEM POWERED

RCP #13

- 1. 6.9 KVAC from Switchgears (continued)
 - c. Switchgear Bus 1A3
 - 1) Primary Breaker 1PCPX3
 - a) Relay 50M1-51 b) Relay 86M
 - 2) Backup Breakers 1A3-1 or 1A3-2
 - a) Relay 51M3
 - b) Relay 51 for 1A3-1
 - c) Relay 51 for 1A3-2
 - d) Relay 86/1A3
 - d. Switchgear Bus 1A4
 - 1) Primary Breaker 1PCPX4
 - a) Relay 50M1-51
 - b) Relay 86M
 - 2) Backup Breaker 1A4-1 or 1A4-2
 - a) Relay 51M3
 b) Relay 51 for 1A4-1
 c) Relay 51 for 1A4-2
 d) Relay 86/1A4
- 2. 480 VAC from Switchgears
 - 2.1 Device Location -480V Switchgears 1EB1, 1EB2, 1EB3 and 1EB4

Containment Recirc, Fans and CRDM Vent Fans

 Primary Breakers - 1FNAV1, 1FNAV2, 1FNAV3, 1FNAV4, 1FNCB1 and 1FNCB2

4-6

Revision 15 April 15, 1994 9 15

8

9

15

8

RCP #14

TABLE 4.1.1a (continued)

UNIT 1

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER AND LOCATION

3. 480VAC from Motor Control Centers (continued)

MCC 1EB3-2 COMPT, NO. B	G.E. KR. TYPE	SYSTEM POWERED
8RF 1G 9G 9M 5M 5G 4G 4M 2G 2M 3G 3M 1M 6F 6M 7M 8M 7F	THED THED THED THED THED THED THED* THED* THED* THED* THED* THED* THED* THED THED THED THED THED THED THED THED	JB-1S-10050, Altern. Feed to Motor Operated Valve 1-8702A Motor Operated Valve 1-8112 Motor Operated Valve 1-8701A Motor Operated Valve 1-8701B Motor Operated Valve 1-8000A Motor Operated Valve 1-HV-6074 Motor Operated Valve 1-HV-6076 Motor Operated Valve 1-HV-6078 Motor Operated Valve 1-HV-4696 Motor Operated Valve 1-HV-4696 Motor Operated Valve 1-HV-5541 Motor Operated Valve 1-HV-5543 Motor Operated Valve 1-HV-5543 Motor Operated Valve 1-HV-6083 Motor Operated Valve 1-8808A Motor Operated Valve 1-8808A Motor Operated Valve 1-8808C Containment Ltg. XFMR-18 (PNL SC1 & SC3) Neutron Detector Well Fan-09 Electric H ₂ Recombiner Power Supply PNL-01
8RM	THED	Motor Operated Valve 1-HV-4075C

Primary protection is provided by Gould Tronic TR5 fusible switch with 3.2A fuse.

*

4-11

Revision 15 April 15, 1994 12 12

15 15

TECHNICAL REQUIREMENT 4.1 (continued)

TABLE 4.1.1a (continued)

UNIT 1

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER AND LOCATION

3. 480VAC From Motor Control Centers (continued)

3.4	Device Location	MCC 1EB4-2 Compartment numbers	
		listed below.	

Primary	and	Backup	 Unless noted otherwise, both
			primary and backup breakers have
			identical trip ratings and are
			located in the same MCC compt.
			These breakers are General Electric
			type THED or THFK with thermal-
			magnetic trip elements.

MCC 1EB4-2 COMPT, NO.	G.E. BKR. TYPE	SYSTEM POWERED
1M	THED	JB-1S-1230G, Altern. Feed to Motor Operated Valve 1-87018
8G	THED	Motor Operated Valve 1-8702A
8M	THED	Motor Operated Valve 1-8702B
4M	THED	Motor Operated Valve 1-8000B
4G	THED	Motor Operated Valve 1-HV-6075
3G	THED	Motor Operated Valve 1-HV-6077
3M	THED*	Motor Operated Valve 1-HV-6079
2G	THED	Motor Operated Valve 1-HV-5562
2M	THED*	Motor Operated Valve 1-HV-5563
5F	THED	Motor Operated Valve 1-88088
5M	THED	Motor Operated Valve 1-8808D
6M	THED	Containment Ltg. XFMR-19
7M	THED	(PNL SC2 & SC4) Neutron Detector Well Fan-10
6F	THFK	Elect. H ₂ Recombiner Power Supply PNL-02

15 15

Primary protection is provided by Gould Tronic TR5 fusible switch with 3.2A fuse.

*

4-12

Revision 15 April 15, 1994 8

12

	TECHNICAL REQUIREMENT 4	1.1 (continued)	8
	TABLE 4.1.16	2	8
	UNIT 2		8
	CONTAINMENT PENETRATION OVERCURRENT PROTECTIV		8
DEVICE NUME AND LOCATIO		SYSTEM POWERED	88
1. 6.9 KV	AC from Switchgears		8
a. Swi	tchgear Bus 2A1	RCP #21	8
1)	Primary Breaker 2PCPX1		8
	a) Relay 50M1-51 b) Relay 86M		8 9 15
2)	Backup Breakers 2A1-1 or 2A1-	2	8
	a) Relay 51M3 b) Relay 51 for 2A1-1 c) Relay 51 for 2A1-2 d) Relay 86/2A1		8 12 12 12
b. Swi	tchgear Bus 2A2	RCP #22	8
1)	Primary Breaker 2PCPX2		8
	a) Relay 50M1-51 b) Relay 86M		8 9 15
2)	Backup Breakers 2A2-1 or 2A2-	2	8
	a) Relay 51M3 b) Relay 51 for 2A2-1 c) Relay 51 for 2A2-2 d) Relay 86/2A2		8 12 12 12

	TECHNICAL REQUIRE. ENT 4.1 (cor	ntinued)	8
	TABLE 4.1.1b (continued	1)	8
	UNIT 2	일을 가 많은 것이 같은 것	8
	CONTAINMENT PENETRATION CON OVERCURRENT PROTECTIVE DEV		8 8
DEVICE NUMBER AND LOCATION		SYSTEM POWERED	8
1. 6.9 KVAC	from Switchgears (continued)		8
c. Switc	chgear Bus 2A3	RCP #23	8
1) P	Primary Breaker 2PCPX3		8
	a) Relay 50M1-51 b) Relay 86M		8 9 15
2) B	Backup Breakers 2A3-1 or 2A3-2		8
b	 Relay 51M3 Relay 51 for 2A3-1 Relay 51 for 2A3-2 Relay 86/2A3 		8 12 12 12
d. Świtc	hgear Bus 2A4	RCP #24	8
1) P	Primary Breaker 2PCPX4		8
	a) Relay 50M1-51 b) Relay 86M		8 9 15
2) 0	Backup Breaker 2A4-1 or 2A4-2		8
b	1) Relay 51M3 2) Relay 51 for 2A4-1 2) Relay 51 for 2A4-2 1) Relay 86/2A4		8 12 12
2. 480 VAC	from Switchgears		8
4	Device Location - 180V Switchgears 2EB1, 2EB2, 2EB3 and 2EB4	Containment Recirc. Fans and CRDM Vent Fans	8888
a	. Primary Breakers - 2FNAV1, 2FNAV2, 2FNAV3, 2FNAV4, 2FNCB1 and 2FNCB2		888

TABLE 4.1.1b (continued)

UNIT 2

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER AND LOCATION

480VAC from Motor Control Centers (continued) 3.

MCC 2EB3-2 COMPT, ND.	G.E. <u>BKR. TYPE</u>	SYSTEM POWERED
8RF 1G 9G 9M 5M 5G 4G 4M 2G 2M 3G 3M 1M 6F 6M 7M 8M 7F 8RM	THED THED THED THED THED THED THED THED	Altern. Feed to Motor Operated Valve 2-8702A Motor Operated Valve 2-8112 Motor Operated Valve 2-8701A Motor Operated Valve 2-8701B Motor Operated Valve 2-8701B Motor Operated Valve 2-HV-6074 Motor Operated Valve 2-HV-6076 Motor Operated Valve 2-HV-6078 Motor Operated Valve 2-HV-6078 Motor Operated Valve 2-HV-4696 Motor Operated Valve 2-HV-45541 Motor Operated Valve 2-HV-5543 Motor Operated Valve 2-HV-5543 Motor Operated Valve 2-HV-5543 Motor Operated Valve 2-8808A Motor Operated Valve 2-8808C Containment Ltg. XFMR-18 (PNL 2SC1 & 2SC3) Neutron Detector Well Fan-09 Electric H ₂ Recombiner Power Supply PNL-01 Motor Operated Valve 2-HV-4075C

Primary protection is provided by Gould Tronic TR5 fusible switch with 3.2A fuse.

COMANCHE PEAK - UNITS 1 AND 2 4-25

*

Revision 15 April 15, 1994

	TECHNICAL REQU	IREMENT 4.1 (continued)	8
	TABLE 4.	1.1b (continued)	8
		UNIT_2	8
		ENETRATION CONDUCTOR PROTECTIVE DEVICES	8
DEVICE NUMBE AND LOCATION			8
3. 480VAC	From Motor Control (Centers (continued)	8
3.4	Device Location	- MCC 2EB4-2 Compartment numbers listed below.	12
	Primary and Backup	- Unless noted otherwise, both primary and backup breakers have identical trip ratings and are located in the same MCC compt. These breakers are General Electric type THED or THFK with thermal-magnetic trip elements.	888888
MCC 2EB4-2 COMPT. NO.	G.E. <u>BKR. TYPE</u>	SYSTEM POWERED	88
1 M 8G 8M 4M 4G 3G 3M 2G 2M 5F 5M 6M 7M 6F	THED THED THED THED THED THED* THED* THED* THED THED THED THED THED THED	Altern. Feed to Motor Operated Valve 2-8701B Motor Operated Valve 2-8702A Motor Operated Valve 2-8702B Motor Operated Valve 2-8000B Motor Operated Valve 2-HV-6075 Motor Operated Valve 2-HV-6079 Motor Operated Valve 2-HV-5562 Motor Operated Valve 2-HV-5563 Motor Operated Valve 2-8808B Motor Operated Valve 2-8808B Motor Operated Valve 2-8808B Motor Operated Valve 2-8808D Containment Ltg. XFMR-19 (PNL 2SC2 & 2SC4) Neutron Detector Well Fan-10 Elect. H2 Recombiner Power Supply PNL-02	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

Primary protection is provided by Gould Tronic TR5 fusible switch with 3.2A fuse.

COMANCHE PEAK - UNITS 1 AND 2

*

4-26

Revision 15 April 15, 1994

COMANCHE PEAK STEAM ELECTRIC STATION UNITS 1 & 2 TECHNICAL REQUIREMENTS MANUAL (TRM)

EFFECTIVE PAGE LISTING

BELOW IS A LEGEND FOR THE EFFECTIVE PAGE LISTING:

Original. **Revision** 1 Revision 2 Revision 3 Revision 4 Revision 5 Revision 6 Revision 7 Revision 8 Revision 9 Revision 10 Revision 11 Revision 12 Revision 13 Revision 14 Revision 15

Submitted July 21, 1989 September 15, 1989 January 15, 1990 July 20, 1990 April 24, 1991 September 6, 1991 November 22, 1991 March 18, 1992 June 30, 1992 December 18, 1992 January 22, 1993 February 3, 1993 July 15, 1993 September 14, 1993 November 30, 1993 April 15, 1994

COMANCHE PEAK STEAM ELECTRIC STATION UNITS 1 & 2 TECHNICAL REQUIREMENTS MANUAL (TRM)

EFFECTIVE PAGE LISTING

3-9	June 30.	1002
3-10		
3-11	Revision	
Sec.	4-Tab Origina	
- 4-1	Revision	
4-2	Revision	
4-3		
	July 15.	
4-4	July 15.	
4-5	Revision	
4-6	Revision	n 15
4-7	Revision	18
4-8	Revision	
4-9	Revision	
4-10		
	Revision	
4-11	Revision	
4-12	Revision	
4-13	Revision	1 13
4-14	Revision	1 13
4-15	Revision	
4-16	Revision	
4-17	Revision	
4-18		
	Revision	
4-19	Revision	
4-20	Revision	
4-21	Revision	1 12
4-22	July 15.	. 1993
4-23	Revision	
4-24	Revision	
4-25	Revision	
4-26		
	Revision	
4-27	Revision	
4-28	Revision	1 10
4-29	Revision	1 12
4-30	Revision	
4-31	July 15.	
EPL-		
EPL-1		
EPL-2		30, 1993
EPL-		30, 1993
EPL-4	4 April 15	, 1994

CORRESPONDENCE INTERNAL DISTRIBUTION

LOG NO. TXX-94071	FILE NO.	10010 10015 916 (TRM)
TO DISTRIBUTION	FROM: LICENSING DATE: 04/15/1994	
SUBJECT.	TECHNICAL REQUIREMENTS MANUAL REVISION 15 - REVISION TO TO SECTION 4.1 AND TABLES 4.1.1A AND 4.1.1B	
LICENSING LEAD:	JMK	
COMMENTS.		

DALLAS DISTRIBUTED

ALL W. M. Taylor 19BT R. D. Walker/ 24ST J. S. Marshall R. A. Wooldridge 32BT F. Johnson (FC) CCS - E06 BY SUBJECT D. R. Woodlan 24ST A. Husain 24SL J. L. Vota (W) (FC) DOCKET RELATED R. M. Fillmore 32BT D. Fiorelli 16BT R. G. Spangler 21BT J. L. French (FC) GENERIC -D- Nace 2887 N. S. Reynolds (FO) CPSES IR ONLY Sundificial and an and find an B-Powell- powelle PART 21 SUBMITTALS G. Bunog-----OTHER TXX File (Corp) 24 ST

CB. CORBIN 24 ST

NOTES: (FC) - First Class Mail

ALL W. J. Cahill, Jr. E22 BY SUBJECT T. A. Hope A08 D. E. Buschbaum A08 E08 D. L. Davis D. McAfee A08 D. E. Armstrong M38 F. L. Powers (NODIL) C07A J. J. Kelley E08 J. J. LaMarca M35 J. W. Muffett N20 C. L. Terry EOI M. R. Blevins E08 R. J. Prince M37 B. T. Lancaster M32 D. R. Moore M32 M. L. Lucas M32 J. F. McMahon T01 CPSES IR & RESPONSES 1 Audan - Conteres 5 L. Barker (IOER) A00-H Amundaon (ORC) E08-VENDOR S. D. Mann C07A

S. D. Mann C07A W. G. Guldemond (All IR) 006 OTHER TXX File (Site) A08

IR - Inspection Reports

SITE DISTRIBUTED

NODIL - Correspondence related to material/component acceptability.
 VENDOR - Vendor documents per STA-206 (Vendor Document Group or VETIP Coordinator).
 IOER - NRCB, GL and IN
 ORC - Part 21 Submittals. Incoming Part 21 notifications, LER, and description letters for changes to licensing basis documents
 PUC - Monthly Operating Report, Notices of Civil Penalty, SALP Reports and LERs

April 8, 1994

If revisions are required to distribution or distribution sheet, contact Gayle Peck (812-8219), Don Woodlan (812-8225) or John Marshall (812-8220).