

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

INSTRUCTION SHEET  
(Page 1 of 1)

The following instructional information and checklist is being furnished to help insert Revision 22 into the Comanche Peak Steam Electric Station TRM.

Discard the old sheets and insert the new sheets, as listed below.

Remove

Insert

Section 1

1-2  
1-7

1-2  
1-7

List of Effective Pages

EPL-1 through EPL-4

EPL-1 thru EPL-4

NOTE: Please complete the entry for insertion of Revision 22 on the "Record of Changes" form located at the beginning of the TRM.

TECHNICAL REQUIREMENT 1.1Table 1.1.1REACTOR TRIP SYSTEM INSTRUMENTATION RESPONSE TIMES

<u>FUNCTIONAL UNIT</u>	<u>RESPONSE TIME</u>	
1. Manual Reactor Trip	N.A.	
2. Power Range, Neutron Flux	$\leq 0.5$ second*	
3. Power Range, Neutron Flux High Positive Rate	N.A.	
4. Not Used		19
5. Intermediate Range, Neutron Flux	N.A.	
6. Source Range, Neutron Flux	N.A.	21
7. Overtemperature N-16	$\leq 7$ seconds*# (Unit 1)	22
	$\leq 8$ seconds*# (Unit 2)	22
8. Overpower N-16	$\leq 7$ seconds*#	
9. Pressurizer Pressure-Low	$\leq 2$ seconds	
10. Pressurizer Pressure-High	$\leq 2$ seconds	
11. Pressurizer Water Level-High	N.A.	

\*Neutron/gamma detectors are exempt from response time testing. Response time of the neutron/gamma flux signal portion of the channel shall be measured from detector output or input of first electronic component in a channel.

#Response time includes the thermal well response time.

CPSES/TRM  
TECHNICAL REQUIREMENT 1.2 (continued)

TABLE 1.2.1 (continued)

ENGINEERED SAFETY FEATURES RESPONSE TIMES

<u>INITIATION SIGNAL AND FUNCTION</u>		<u>RESPONSE TIME IN SECONDS</u>	
3. Pressurizer Pressure--Low			
a.	Safety Injection (ECCS)	$\leq 27^{(1.5a,10)} / 27^{(4.5b,10)}$	21
b.	Reactor Trip	$\leq 2^{(11)}$	
c.	Feedwater Isolation	$\leq 7$	
d.	Phase "A" Isolation	$\leq 17^{(2)} / 27^{(1)}$	
e.	Containment Ventilation Isolation	$\leq 5^{(6)}$	9
f.	Motor-Driven Auxiliary Feedwater	$\leq 60^{(1)}$	21
g.	Station Service Water	N.A.	
h.	Component Cooling Water	N.A.	
i.	Essential Ventilation Systems	N.A.	
j.	Emergency Diesel Generator Operation	$\leq 12$	
k.	Turbine Trip	N.A.	
l.	Control Room Emergency Recirculation	N.A.	
m.	Containment Spray Pump	N.A.	9

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	Submitted July 21, 1989
Revision 1	September 15, 1989
Revision 2	January 15, 1990
Revision 3	July 20, 1990
Revision 4	April 24, 1991
Revision 5	September 6, 1991
Revision 6	November 22, 1991
Revision 7	March 18, 1992
Revision 8	June 30, 1992
Revision 9	December 18, 1992
Revision 10	January 22, 1993
Revision 11	February 3, 1993
Revision 12	July 15, 1993
Revision 13	September 14, 1993
Revision 14	November 30, 1993
Revision 15	April 15, 1994
Revision 16	May 11, 1994
Revision 17	February 24, 1995
Revision 18	April 14, 1995
Revision 19	May 15, 1995
Revision 20	June 30, 1995
Revision 21	January 24, 1996
Revision 22	February 24, 1997

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

EFFECTIVE PAGE LISTING

TRM-Tab	Original
Record of Changes	February 24, 1995
TRM-Title Page	June 30, 1992
Table of Contents-Tab	Original
i	February 24, 1995
Administrative Controls-Tab	Original
Administrative Controls-Title Page	June 30, 1995
0-1	Revision 20
0-2	Revision 20
0-3	Revision 20
0-4	Revision 20
Technical Requirements-Tab	Original
Section 1-Tab	Original
1-1	Revision 20
1-2	Revision 22
1-3	Revision 21
1-4	Revision 20
1-5	June 30, 1995
1-6	Revision 21
1-7	February 24, 1997
1-8	Revision 21
1-9	Revision 21
1-10	June 30, 1995
1-11	Revision 21
1-12	June 30, 1995
1-13	June 30, 1995
1-14	June 30, 1995
1-15	June 30, 1995
1-16	June 30, 1995
1-17	June 30, 1995
1-18	June 30, 1995
1-19	June 30, 1995
Sec. 2-Tab	Original
2-1	Revision 20
2-2	June 30, 1995
2-3	Revision 21
2-4	June 30, 1995
2-5	June 30, 1995
2-6	June 30, 1995
2-7	Revision 21
2-8	June 30, 1995
2-9	Revision 21

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

EFFECTIVE PAGE LISTING

2-10	June 30, 1995
2-11	June 30, 1995
2-12	June 30, 1995
2-13	June 30, 1995
2-14	June 30, 1995
2-15	June 30, 1995
2-16	June 30, 1995
2-17	June 30, 1995
2-18	June 30, 1995
2-19	June 30, 1995
2-20	June 30, 1995
2-21	June 30, 1995
2-22	June 30, 1995
2-23	June 30, 1995
2-24	June 30, 1995
2-25	Revision 21
2-26	June 30, 1995
2-27	Revision 20
2-28	June 30, 1995
Sec. 3-Tab	Original
3-1	Revision 20
3-2	June 30, 1995
3-3	June 30, 1995
3-4	June 30, 1995
3-5	June 30, 1995
3-6	June 30, 1995
3-7	June 30, 1995
3-8	June 30, 1995
3-9	June 30, 1995
3-10	June 30, 1995
Sec. 4-Tab	Original
4-1	Revision 20
4-2	June 30, 1995
4-3	June 30, 1995
4-4	June 30, 1995
4-5	June 30, 1995
4-6	June 30, 1995
4-7	June 30, 1995
4-8	June 30, 1995
4-9	June 30, 1995
4-10	June 30, 1995
4-11	June 30, 1995

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

EFFECTIVE PAGE LISTING

4-12	June 30, 1995
4-13	June 30, 1995
4-14	June 30, 1995
4-15	June 30, 1995
4-16	June 30, 1995
4-17	June 30, 1995
4-18	June 30, 1995
4-19	June 30, 1995
4-20	June 30, 1995
4-21	June 30, 1995
4-22	June 30, 1995
4-23	June 30, 1995
4-24	June 30, 1995
4-25	June 30, 1995
4-26	June 30, 1995
4-27	June 30, 1995
4-28	June 30, 1995
4-29	June 30, 1995
EPL-Tab	Original
EPL-1	February 24, 1997
EPL-2	February 24, 1997
EPL-3	February 24, 1997
EPL-4	February 24, 1997