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 17 into the Comanche Peak Steam Electric Station TRM. A description of this revision is provided in TXX-95062, dated February 28, 1995.

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 serve as a record of changes.

Remove	Insert
-	Record of Changes
Table of Contents	
i	i
Section 2	
-	2-29 through 2-33
List of Effective Pages	
EPL-1 through EPL-4	EPL-1 through EPL-4

NOTE: Please complete the entry for insertion of Revision 17 on the "Record of Changes" form located at the beginning of the TRM.

February 24, 1995

COMANCHE PEAK STEAM ELECTRIC STATION
TECHNICAL REQUIREMENTS MANUAL
RECORD OF CHANGES

TRM Revision No.	Date of Revision	Date Received	Date Entered	Entered by (Print/Type and Signature)
1 through 16	*	*	*	*
17				

* Revisions 1 through 16 have been previously issued. See effective page list for dates of Revisions.

NOTE: The date of the last effective Revision can be confirmed by contacting Docket Licensing at (214) 812-4340. The List of Effective Pages identifies all Revisions.

TABLE OF CONTENTS

17 TECHNICAL REQUIREMENT 2.2 CONTAINMENT SPRAY SYSTEM

NOTE: This Technical Requirement contains performance test requirements for the Containment Spray System pumps to demonstrate operability in accordance with Technical Specification Surveillance Requirement 4.6.2.1b. Although the CPSES Technical Specification and a proposed revision is repeated here, in part, care must be taken not to overlook the Technical Specification requirements.

17

CONTAINMENT SYSTEMS

3/4.6.2 DEPRESSURIZATION AND COOLING SYSTEMS

CONTAINMENT SPRAY SYSTEM

LIMITED CONDITION FOR OPERATION

3.6.2.1 Two independent Containment Spray Systems shall be OPERABLE with each Spray System capable of taking suction from the RWST and manually transferring suction to the containment sump.

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

ACTION:

With one Containment Spray System inoperable, restore the inoperable Containment Spray System to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours; restore the inoperable Containment Spray System to OPERABLE status within the next 48 hours or be in COLD SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

4.6.2.1 Each Containment Spray System shall be demonstrated OPERABLE:

a. At least once per 31 days by verifying that each valve (manual, power-operated, or automatic) in the flow path that is not locked, sealed, or otherwise secured in position, is in its correct position;

b. * Verifying each containment spray pump's developed head at the flow test point is greater than or equal to the required developed head. The surveillance frequency shall be in accordance with the Inservice Testing Program.

c. At least once per 18 months, by:

   1) Verifying that each automatic valve in the flow path actuates to its correct position on a Containment Spray Actuation test signal, and

   2) Verifying that each spray pump starts automatically on a Containment Spray Actuation test signal and on a Safety Injection test signal.

d. At least once per 5 years by performing an air or smoke flow test through each spray header and verifying each spray nozzle is unobstructed.

* PROPOSED TECHNICAL SPECIFICATION CHANGE, SEE TXX-95050

17 CONTAINMENT SYSTEMS

BASES

3/4.6.1.7 CONTAINMENT VENTILATION SYSTEM

The 48-inch and 12-inch containment and hydrogen purge supply and exhaust isolation vavles are required to be locked closed during plant operations since these valves have not been demonstrated capable of closing during a LOCA or steam line break accident. Maintaining these valves locked closed during plant operation ensures that excessive quantities of radioactive materials will not be released via the Containment Ventilation System. To provide assurance that these containment valves cannot be inadvertently opened, the valves are locked closed in accordance with Standard Review Plan 6.2.4 which includes mechanical devices to seal or lock the valve closed, or prevents power from being supplied to the valve operator.

The use of the Containment Ventilation System during operations is restricted to the 18-inch pressure relief discharge isolation valves (with an effective diameter of 3 inches) since, these venting valves are capable of closing during a LOCA or steam line break accident. Therefore, the Exclusion Area dose guideline of 10CFR100 would not be exceeded in the event of an accident during containment venting operation.

Leakage integrity tests with a maximum allowable leakage rate for containment ventilation valves will provide early indication of resilient material seal degradation and will allow opportunity for repair before gross leakage failures could develop. The 0.60 L_a leakage limit of Specification 3.6.1.2b. shall not be exceeded when the leakage rates determined by the leakage integrity tests of these valves are added to the previously determined total for all valves and penetrations subject to Type B and C tests.

3/4.6.2 DEPRESSURIZATION AND COOLING SYSTEMS

3/4.6.2.1 CONTAINMENT SPRAY SYSTEM

The OPERABILITY of the Containment Spray System ensures that containment depressurization and cooling capability will be available in the event of a LOCA or steam line break. The pressure reduction and resultant lower containment leakage rate are consistent with the assumptions used in the safety analyses.

The Containment Spray System which is composed of redundant trains, provides post-acccident cooling of the containment atmosphere. However, the Containment Spray System also provides a mechanism for removing iodine from the containment atmosphere and therefore the time requirements for restoring an inoperable Spray System to OPERABLE status have been maintained consistent with that assigned other inoperable ESF equipment.

17 CONTAINMENT SYSTEMS

BASES

DEPRESSURIZATION AND COOLING SYSTEMS (Continued)

* Verifying each containment spray pump's developed head at the flow test point is greater than or equal to the required developed head as defined in the Technical Requirements Manual (TRM), ensures that the spray pump performance has not degraded during the cycle. Flow and differential pressure are normal tests of centrifugal pump performance required by Section XI of the ASME Code. Since the containment spray pumps cannot be tested with flow through the spray headers, they are tested via a test line. This test confirms one point on the anaytical pump curve and is indicative of overall performance. Such inservice inspections confirm component OPERABILITY, trend performance, and detect incipient failures by abnormal performance. The Frequency of the surveillance is in accordance with the Inservice Testing Program.

3/4.6.2.2 SPRAY ADDITIVE SYSTEM

The OPERABILITY of the Spray Additive System ensures that sufficient NaOH is added to the containment spray in the event of a LOCA. The limits on NaOH volume and concentration ensure a long term pH value of between 8.5 and 10.5 for the solution recirculated within containment after a LOCA. This pH band minimizes the evolution of iodine and minimizes the effect of chloride and caustic stress corrosion on mechanical systems and components. The contained solution volume limit includes an allowance for solution not usable because of tank discharge line location or other physical characteristics. These assumptions are consistent with the iodine removal efficiency assumed in the safety analyses.

The required indicated level band of 91% to 94% for the Spray Additive Tank corresponds to an analytical limit band of 4900 gallons to 5314 gallons, respectively, and includes a 3.36% measurement uncertainty.

3/4.6.3 CONTAINMENT ISOLATION VALVES

The OPERABILITY of the containment isolation valves ensures that the containment atmosphere will be isolated from the outside environment in the event of a release of radioactive material to the containment atmosphere or pressurization of the containment and is consistent with the requirements of General Design Criteria 54 through 57 of 10CFR50 Appendix A. Containment isolation within the time limits specified for those isolation valves designed to close automatically ensures that the release of radioactive material to the environment will be consistent with the assumptions used in the analyses for a LOCA.

* PROPOSED TECHNICAL SPECIFICATION CHANGE, SEE TXX-95050

17 TECHNICAL REQUIREMENT 2.2

2.2.1 In the test mode each Containment Spray System train is required to provide a total discharge flow through the test header of greater than or equal to 6600 gpm at 245 psid with the pump eductor line open.

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

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, 1992
0-1	Revision 12
0-2	January 22, 1993
0-3	December 18, 1992
0-4	June 30, 1992
0-5	January 22, 1993
0-6	January 22, 1993
0-7	January 22, 1993
0-8	January 22, 1993
0-9	January 22, 1993
0-10	January 22, 1993
0-11	January 22, 1993
0-12	June 30, 1992
0-13	June 30, 1992
0-14	July 15, 1993
0-15	July 15, 1993
0-16	January 22, 1993
0-17	January 22, 1993
0-18	Revision 12
0-19	Revision 8
0-20	July 15, 1993
0-21	July 15, 1993
0-22	Revision 8
0-23	Revision 8
0-24	Revision 8
0-25	July 15, 1993
0-26	January 22, 1993
Technical Requirements-Tab	Original
Section 1-Tab	Original
1-1	June 30, 1992
1-2	Revision 12
1-3	July 15, 1993
1-4	July 15, 1993
1-5	June 30, 1992
1-6	Revision 12
1-7	July 15, 1993
1-8	July 15, 1993
1-9	July 15, 1993
1-10	July 15, 1993
1-11	July 15, 1993
1-12	July 15, 1993

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

EFFECTIVE PAGE LISTING

1-13	July 15, 1993
1-14	July 15, 1993
1-15	Revision 12
1-16	June 30, 1992
1-17	Revision 12
1-18	July 15, 1993
1-19	July 15, 1993
1-20	July 15, 1993
1-21	July 15, 1993
1-22	Revision 12
Sec. 2-Tab	Original
2-1	June 30, 1992
2-2	Revision 12
2-3	July 15, 1993
2-4	January 22, 1993
2-5	Revision 8
2-6	Revision 8
2-7	Revision 8
2-8	January 22, 1993
2-9	Revision 8
2-10	January 22, 1993
2-11	Revision 8
2-12	Revision 9
2-13	Revision 8
2-14	July 15, 1993
2-15	Revision 8
2-16	July 15, 1993
2-17	Revision 8
2-18	Revision 8
2-19	January 22, 1993
2-20	January 22, 1993
2-21	Revision 8
2-22	Revision 8
2-23	Revision 8
2-24	Revision 8
2-25	Revision 12
2-26	January 22, 1993
2-27	Revision 14
2-28	July 15, 1993
2-29	Revision 17
2-30	Revision 17
2-31	Revision 17
2-32	Revision 17
2-33	Revision 17
Sec. 3-Tab	Original
3-1	June 30, 1992
3-2	Revision 12

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

EFFECTIVE PAGE LISTING

3-3	Revision 12
3-4	July 15, 1993
3-5	July 15, 1993
3-6	July 15, 1993
3-7	June 30, 1992
3-8	July 15, 1993
3-9	June 30, 1992
3-10	Revision 11
3-11	Revision 11
Sec. 4-Tab	Original
4-1	Revision 15
4-2	Revision 12
4-3	July 15, 1993
4-4	July 15, 1993
4-5	Revision 15
4-6	Revision 15
4-7	Revision 8
4-8	Revision 13
4-9	Revision 13
4-10	Revision 13
4-11	Revision 15
4-12	Revision 15
4-13	Revision 13
4-14	Revision 13
4-15	Revision 8
4-16	Revision 12
4-17	Revision 10
4-18	Revision 15
4-19	Revision 15
4-20	Revision 8
4-21	Revision 16
4-22	Revision 16
4-23	Revision 16
4-24	Revision 16
4-25	May 11, 1994
4-26	Revision 15
4-27	Revision 16
4-28	Revision 16
4-29	May 11, 1994
4-30	May 11, 1994
4-31	May 11, 1994
4-32	May 11, 1994
EPL-Tab	Original
EPL-1	February 24, 1995
EPL-2	February 24, 1995
EPL-3	February 24, 1995
EPL-4	February 24, 1995