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February 27, 1998

C. Lance Terry Senior Vice President & Principal Nuclear Officer

U. S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, DC 20555

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES)-UNITS 1 AND 2 DOCKET NOS. 50-445 AND 50-446 ANNUAL OPERATING REPORT FOR 1997

Gentlemen:

Attached is the CPSES Annual Operating Report for 1997 prepared and submitted pursuant to Technical Specification 6.9.1.2 contained in Appendix A to the Comanche Peak Steam Electric Station Unit 1 Operating License NPF-87 and Unit 2 Operating License NPF-89. This attachment also complies with the ennual operating report guidance provided in position C.1.p of U.S. NRC Regulatory Guide 1.16 Revision 4.

If you have any questions, please contact Mr. Douglas W. Snow at (254) 897-8448.

Sincerely,

C. L. Terry

By: Roger 5.90 lkg

Roger D. Walker Regulatory Affairs Manager

DWS/dws Attachment

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COMANCHE PEAK STEAM ELECTRIC STATION P.O. E.:x 1002 Glen Rose, Texas 76043-1002 Ð

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COMANCHE PEAK STEAM ELECTRIC STATION

ANNUAL OPERATING REPORT 1997

TEXAS UTILITIES ELECTRIC COMPANY

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- 5.0 Irradiated Fuel Inspection Results
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1.0 SUMMARY OF OPERATING EXPERIENCE

The Comanche Peak Steam Electric Station (CPSES) is a dual unit pressurized water reactor power plant, each unit licensed at 3411 Megawatt thermal (MWt). It is located in Somervell County in North Central Texas approximately 65 miles southwest of the Dallas-Fort Worth Metropolitan ar a. The nuclear steam supply system was purchased from Westinghouse Electric Corporation and is rated for a 3425 MWt output per each unit.

1.1 CPSES UNIT 1

CPSES Unit 1 achieved initial criticality on April 3, 1990. Initial power generation occurred on April 24, 1990, and the plant was declared commercial on August 13, 1990. Since being declared commercial, CPSES Unit 1 has generated 56,402,312 net Megawatt-hours (MWH) of electricity as of December 31, 1997, with a net unit capacity factor of 75.8% (using MDC). The unit and reactor availability factors were 98.8% and 99.3%, respectively, for the year 1997.

During this reporting period there were no failures or challenges to the Power Operated Relief Valves or Safety Valves.

Figure 1.1-1 provides the generation profile of the average daily net electrical output of Unit 1 for 1997. Table 1.1-1 is a compilation of the monthly summaries of the operating data and Table 1.1-2 contains the yearly and total summaries of the operating data.

1.2 CPSES UNIT 2

CPSES Unit 2 achieved initial criticality on March 24, 1993. Initial power generation occurred on April 9, 1993, and the plant was declared commercial on August 3, 1993. Since being declared commercial. CPSES Unit 2 has generated 33,290,781 net Megawatt-hours (MWH) of electricity as of December 31, 1997, with a net unit capacity factor of 74.8% (using MDC). The unit and reactor availability factors were 86.2% and 88.0%, respectively, for the year 1997.

On January 4, the unit entered a planned maintenance outage to repair an oil leak to the capacitance coupled voltage transformer (CCVT). The repairs of the CCVT were completed ind the unit returned to 100% power on January 10. The following work was also completed successfully in this maintenance outage:

Replaced the #2 oil cooler to the Main Transformer 2MT2 Rod Drop Testing Inspection & Replacement of the Heater Drain Pump 2-02 shaft Solenoid replacement for the main feedwater (FW) isolation valve hydraulic pumps Main FW pump 2-A bearing inspections and alignment

On October 22, 1997 the unit began the end-of-cycle power ramp down for its third refueling outage. The unit entered the refueling outage on October 25 when a manual reactor trip was initiated after four control rods unexpectedly inserted during ramp down. Additionally, the Power Relief Valves opened after the unit was cooled down to the Low Temperature Overpressure Protection (LTOP) arming temperature (350) with pressure above LTOP setpoint.

During the refueling outage, 76 new fuel assemblies were loaded for Cycle 4. The

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Overpressure Protection (LTOP) arming temperature (350) with pressure above LTOP setpoint.

During the refueling outage, 76 new fuel assemblies were loaded for Cycle 4. The refueling outage lasted 46 days and ended on December 10, 1997 and Unit 2 was returned to service.

During the refueling outage, the major work scope completed included:

- Containment Integrated Leak Rate Testing
- Emergency Diesel Generator 18-month Inspection
- Emergency Diesel Generator five (5) year Inspection
- Emergency Diesel Generators Turbo Overhaul
- Low Pressure Turbine 1 and 2 Eddy Current Testing of Last Stage Blades
- 100% Eddy Current Testing on Two Steam Generators
- 40% Eddy Current Testing on the remaining Two Steam Generators
 Installation of Woodward 701 Governor System on Diesel
- Installation of Woodward 701 Governor System on Diesel Generators
- Inspection of Fuel Assemblies
- Reactor Coolant Pump Cartridge Seal Changeout on Pumps 01 & 04
- TDAFW Pump Turbine tear down
- Tear down Inspection on the 2A & 2B Main Feedwater Pumps and turbines.

Figure 1.2-1 provides the generation profile of the average daily net electrical output of Unit 2 for 1997. Table 1.2-1 is a compilation of the monthly summaries of the operating data and Table 1.2-2 contains the __arly and the total summaries of the operating data.

2.0 OUTAGES AND REDUCTIONS IN POWER

2.1 CPSES UNIT 1

Table 2.1 describes unit operating experience including unit shutdowns and provides explanations of significant dips in average power levels for PSES Unit 1.

2.2 CPSES UNIT 2

Table 2.2 describes unit operating experience including unit shutdowns and provides explanations of significant dips in average power levels for CPSES Unit 2.

3.0 PERSONNEL EXPOSURE AND MONITORING REPORT

The personnel exposure and monitoring report for CPSES is provided in Table 3.0.

4.0 <u>REPORT OF RESULTS OF SPECIFIC ACTIVITY ANALYSIS IN WHICH THE PRIMARY COOLANT</u> EXCEEDED THE LIMITS OF TECHNICAL SPECIFICATION 3.4.7

Technical Specification 6.9.1.2.b requires the reporting of results of specific activity analyses in which the primary coolant exceeded the limits of Technical Specification 3.4.7.

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CPSES Units 1 and 2 primary coolant did not exceed the limits of Technical Specification 3.4.7 for the calendar year 1997.

5.0 IRRADIATED FUEL INSPECTION RESULTS

5.1 CPSES UNIT 1

No irradiated fuel inspections were performed since there was no refueling outage for Unit 1 in 1997.

5.2 CPSES UNIT 2

The reactor coolant fission product activity levels were carefully monitored throughout Cycle 3 operation. Analysis of the activity levels indicated no leaking fuel. Nonetheless, visual inspections were performed by inspection personnel from the edge of the spent fuel pool to assess the external condition of the fuel assemblies. Ir addition, selected Cycle 3 assemblies (which indicated varying degrees of the Axial Offset Anomaly (AOA) from flux map results) were also inspected using an underwater camera. All fuel assemblies inspected appeared to be in good condition, including those with indications of AOA.

6.0 OUTAGE RELATED SINGLE RADIOACTIVITY RELEASE OR RADIATION EXPOSURE TO AN INDIVIDUAL THAT ACCOUNTS FOR MORE THAN 10 PERCENT OF ALLOWABLE ANNUAL VALUES

CPSES Units 1 and 2 did not experience any single release of radioactivity scenter shan 10% of an allowable dose limit during an outage or forced reduction in power of over 20% of designed power level during 1997.

During 1997 CPSES Unit 2 conducted a refueling outage (see section 1.2). During the outage activities, one individual received radiation exposure exceeding 10% of an allowable dose limit in a single exposure event. This exposure is tabulated in Table 6.0.

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FIGURE 1.1-1 COMANCHE FEAK STEAM ELECTRIC STATION - UNIT 1

GENERATION PROFILE

AVERAGE DAILY UNIT POWER LEVEL



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TABLE 1.1.1 (PAGE 1 OF 2)

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COMANCHE PEAK STEAM ELECTRIC STATION - UNIT 1

MONTHLY ELECTRIC POWER GENERATION DATA (1997)

	January	February	March	April	May	June
Hours RX was Critica ¹	744	672	744	719	744	720
RX Reserve Shutdown Hours	0	0	0.0	0.0	0.0	0.0
Hours Generator On-Line	744	672	744	719	744	720
Unit keserve Shutdown Hours	0.0	0.0	0.0	0.0	0.0	0.0
Gross Thermal Energy Generated (MWH)	2,530,063	2,278,471	2,529,482	2,454,782	2,531,275	2,450,993
Gross Electric Energy Generated (MWH)	858,760	774,167	859,801	833,050	857,168	822,932
Net Electric Energy Generated (MWH)	825,342	744,210	825,276	800,088	822,320	788,772
RX Service Factor (%)	100.0	100.0	100.0	100.0	100.0	100.0
RX Availability Factor (%)	100.0	100.0	100.0	100.0	100.0	100.0
Unit Service Factor (%)	100.0	100.0	100.0	100.0	100.0	100.0
Unit Availability Factor (%)	100.0	100.0	100.0	100.0	100.0	100.0
Unit Capacity Factor (%, using MDC net)	96.5	96.3	96.6	96.8	96.1	95.3
Unit Capacity Factor (%, using DER net)	96.5	96.3	96.6	96.8	96.1	95.3
Unit Forced Outage Rate (%)	0.0	0.0	0.0	0.0	0.0	0.0
Hours in Month	744	672	744	719	744	720
Net MDC (MWe) Estimated	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0

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TABLE 1.1-1 (PAGE 2 OF 2)

COMANCHE PEAK STEAM ELECTRIC STATION - UNIT 1 MONTHLY ELECTRIC POWER GENERATION DATA (1997)

July	August	September	October	November	December
744	744	/20	669	720	727
0.0	0.0	0.0	28	0.0	0.0
744	744	720	661	720	724
0.0	0.0	0.0	0.0	0.0	0.0
2,536,073	2,531,964	2,449,639	2,195,888	2,452,982	2,387,719
844,106	841,527	817,512	737,744	830,714	805,949
808,774	806,219	783,498	702,946	797.808	772,630
100.0	100.0	100.0	89.7	100.0	97.8
100.0	100.0	100.0	93.5	100.0	97.8
100.0	100.0	100.0	88.8	100.0	\$7.3
100.0	100.0	100.0	88.8	100.0	97.3
94.5	94.2	94.6	82.0	96.4	90.3
94.5	94.2	94.6	82.0	96.4	90.3
0.0	0.0	0.0	11.2	0.0	2.7
744	744	720	745	720	744
1150.0	1150.0	1150.0	1150.0	1150.0	1150.0
	July 744 0.0 744 0.0 2,536,073 844,106 808,774 100.0 100.0 100.0 100.0 94.5 94.5 94.5 0.0 744 1150.0	JulyAugust7447440.00.07447440.00.07447440.00.02.536.0732.531.964844.106841.527808.774806.219100.0100.0100.0100.0100.0100.094.594.294.594.20.00.07447441150.01150.0	JulyAugustSeptember7447447200.00.00.07447447200.00.00.02,536,0732,531,9642,449,639844,106841,527817,512808,774806,219783,498100.0100.0100.3100.0100.0100.0100.0100.0100.0100.094,594,294,594,294,60.00.00.07447447201150.01150.01150.0	JulyAugustSeptemberOctober7447447206690.00.00.0287447447206610.00.00.00.02,536,0732,531,9642,449,6392,196,888844,106841,527817,512737,744808,774806,219783,498702,946100.0100.0100.389,7100.0100.0100.093,5100.0100.0100.088,894,594,294,682,094,594,294,682,00.00.00.011,27447447207451150.01150.01150.01150.0	JulyAugustSeptemberOctoberNovember7447447206697200.00.00.0280.07447447206617200.00.00.00.00.02,536,0732,531,9642,449,6392,196,8882,452,982844,106841,527817,512737,744830,714808,774806,219783,498702,946797,808100.0100.0100.389,7100.0100.0100.0100.088.8100.0100.0100.0100.088.8100.094,594,294,682.096.494,594,294,682.096.40.00.00.011.20.07447447207457201150.01150.01150.01150.01150.0

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TABLE 1.1-2

COMANCHE PEAK STEAM ELECTRIC STATION - UNIT 1 ANNUAL ELECTRIC POWER GENERATION DATA (1997)

	YEAR	CUMULATIVE
Hours RX was Critical	8,667	54,761
RX Reserve Shutdown Hours	28	2,632
Hours Generator On-Line	8,657	54.110
Unit Reserve S down Hours	0	0
Gross Thermal Energy Generated (MWH)	29,330,333	176,779,784
Gross Electric Energy Generated (MWH)	9,883,430	59,071,960
Net Electric Energy Generated (NWH)	9,4.'8,883	56,402,312
RX Service Factor (%)	98.9	84.6
RX Availability Factor (%)	99.3	88.6
Unit Service Factor (%)	98.8	83 6
Unit Availability Factor (%)	98.8	83.6
Unit Capacity Factor (%,using MDC net)	94.1	75.8
Unit Capacity Factor (%,using DER net)	94.1	75.8
Unit Forced Outage Rate (%)	1.2	4.2
Hours in Reporting Period	8,667	64,652

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> FIGURE 1.2-1 COMANCHE PEAK STEAM ELECTRIC STATION - UNIT 2 GENERATION PROFILS AVERAGE DAILY UNIT POWER LEVEL



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TABLE 1.2-1 (PAGE 1 OF 2)

COMANCHE PEAK STEAM ELECTRIC STATION - UNIT 2

MONTHLY ELECTRIC POWER GENERATION DATA (1997)

	January	February	March	April	May	June
Hours RX was Critical	662	672	744	719	744	720
RX Reserve Shutdown Hours	82	0.0	0.0	0.0	0.0	0.0
Hours Generator On-Line	641	672	744	719	744	720
Unit Reserve Shutdown Hours	0.0	0.0	0.0	0.0	0.0	0.0
Gross Thermal Energy Generated (MWH)	2,118,763	2,281,114	2,536,639	2,450.050	2,144,436	2,368,586
Gross Electric Energy Generated (MWH)	722,129	780,163	868,282	837,235	721,890	798,349
Net Electric Energy Generated (MWH)	690,736	751,577	835,763	805,278	689,326	766,191
RX Service Factor (%)	88.9	100.0	100.0	100.0	100.0	1.10.0
RX Availability Factor (%)	100.0	100.0	100.0	100.0	100.9	100.0
Unit Service Factor (%)	86.2	100.0	100.0	100.0	100.0	100.0
Unit Availability Factor (%)	86.2	100.0	100.0	100.0	100.0	100.0
Unit Capacity Factor (* using MDC net)	80.7	97.3	97.7	97.4	80 6	92.5
Unit Capacity Factor (% using DER net)	80.7	97.3	97.7	97.4	80.6	92.5
Unit Eurood Outage Rate (\$)	0.0	6.0	0.0	0.0	0.0	0.0
Hours in Month	744	672	744	719	744	720
Net MDC (MWe) Estimated	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0

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TABLE 1.2-1 (PAGE 2 OF 2) COMANCHE PEAK STEAM ELEC CLC STATION - UNIT 2 MONTHLY ELECTRIC POWER GENERATION DATA (1997)

	July	August	September	October	November	December
Hours RX was Critical	744	744	720	580	0	574
RX Reserve Shutdown Hours	0.0	0.0	0.0	0.0	0.0	0.0
Hours Generator On-Line	744	744	720	580	0	526
Unit Reserve Shutdown Hours	0.0	0.0	0.0	0.0	0.0	0.0
Gross Thermal Energy Generated (MWH)	2,530,620	2,536,238	2,451,499	1,958,441	0	1,445,873
Gross Electric Energy Generated (MWH)	849.412	850,680	826,109	664,015	0	490,948
Net Electric Energy Generated (MWH)	816,149	817.440	793,814	635,988	0	459,788
RX Service Factor (%)	100.0	100.0	100.0	77.9	0.0	77.2
RX Availability Factor (%)	100.0	100.0	100.0	77.9	0.0	77.2
Unit Service Factor (%)	100.0	100.0	100.0	77.9	0.0	70.7
Availability Factor (%)	100.0	100.0	100.0	77.9	0.0	70.7
Unit Capacity Factor (%, using MDC net)	95.4	95.5	95.9	74.2	0	53.7
Unit Capacity Factor (%, using DER net)	95.4	95.5	95.9	74.2	0	53.7
Unit Forced Outage Rate (%)	0.0	0.0	0.0	0.0	0.0	0.0
Hours in Month	744	744	720	745	720	744
Net MDC (Mwe) Estimated	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0

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TABLE 1.2-2

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COMANCHE PEAK STEAM ELECTRIC STATION - UNIT 2

ANNUAL ELECTRIC POWER GENERATION DATA (1997)

	YEAR	CUMULATIVE
Hours RX was Critical	7,623	32,104
RX Reserve Shutdown Hours	82	2.311
Hours Generator On-Line	7,554	31,788
Unit Reserve Shutdown Hours	0	0
Gross Thermal Energy Generated (MWH)	24,822,259	103,105,886
Gross Electric Energy Generated (MWH)	8,409,212	34,801,312
Net Electric Energy Generated (MWH)	8,062,050	33,290,781
RX Service Factor (%)	87.0	83.0
RX Availability Factor (%)	88.0	89.0
Unit Service Factor (%)	86.2	82.2
Unit Availability Factor (%)	86.2	82.2
Unit Capacity Factor (%, using MDC net)	80.0	74.8
Unit Capacity Factor (%, using DER net)	80.0	74.8
Unit Forced Outage Rate (%)	0.0	5.8
Hours in Reporting Period	7,623	37,543

TABLE 2.1 (PAGE 1 OF 1) COMANCHE PEAK STEAM ELECTRIC STATION - UNIT 1 UNIT OPERATING EXPERIENCE INCLUDING SHUTDOWNS AND POWER REDUCTIONS

NO	DATE	TYPE F: FORCED S: SCHEDULED	DURATION* (HOURS)	REASON	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER	CORRECTIVE ACTIONS/COMMENTS
1	971027	F	83.6	6	3	Automatic Reactor trip after switchyard breaker tripped and removed the load from the generator. Prior to returning to power a source range detector malfunctioned and was replaced. The Unit was returned to 100% power on October 31, at 2245. (Reference: LER 445/97-009).
2	971213	F	19.8	A	1	Manual reactor shutdown per T.S. 3.3.2. Action 26 due to inoperable Train B Solid State Protection Sequencer. (Reference: LER 445/97-010). Work was completed on sequencer and Unit placed back in service on December 14, at 0610 and returned to 100% power on December 15, at 2359.
1) REASON						2) METHOD
A: EQUIPMENT B: MAINT OR C: REFUELING D: REGULATOR	FAILURE (EXPLAIN) TEST Y RESTRICTION	E: OPERATOR TRAINING F: ADMINISTRATIVE G: OPERATIONAL ERROF H: OTHER (EXPLAIN)	G AND LICENSE EXAMINATION R (EXPLAIN)			1: MANUAL 2: MANUAL SCRAM 3: AUTOMATIC SCRAM 4: OTHER (EXPLAIN)

* INDICATES SHUTDOWN HOURS/OTHERWISE "NA" FOR NOT APPLICABLE

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TABLE 2.2 (PAGE 1 UF 3) COMANCHE PEAK STEAM ELECTRIC STATION - UNIT 2 UNIT CPERATING EXPERIENCE INCLUDING SHUTDOWNS AND FOWER REDUCTIONS

NO	DATE	TYPE F: FORCED S: SCHEDULED	DURATION* (HOURS)	REASON	METHOD OF SHUTTING DUWN THE REACTOR OR REDUCING POWER	CORRECTIVE ACTIONS/COMMENTS
1	970104	S	102.5	В	1	At 1620 on January 4. the Unit entered a planned maintenance outage to repair oil leak to the capacitance coupled voltage transformer (CCVT). Additionally, completed repair work on main feedwater isolation valves and main transformer 2MT2 as well as heater drain pump 2-02 shaft replacement and main feedwater pump bearing inspections. Unit returned to 100% power on January 10 at 1457.
2	970222	S		A	4	On February 22, at 0606 after completion of routine Turbine Stop and Control valve Testing the Unit was held at 72% power to replace the positioner on feedwater heater normal drain level control valve 2-LV-2509. The positioner was replaced and the Unit returned to 100% power on the same day at 1615.
3	970535	F		A	4	On May 5. at 0430 Unit power was reduced to 48% due to a cracked weld on main feedwater pump 2B casing vent valve 2FN-0011. Weld was repaired and the Unit returned to 100% power on May 7. at 1644. Unit was at reduced power for approximately 60 hours.
1) REASON						2) METHOD
A: EQUIPH B: MAINT C: REFUEL D: REGUL	NENT FAILURE (EXPLAIN) OR TEST ING NTORY RESTRICTION) E: OPERATOR TRAINING F: ADMINISTRATIVE G: OPERATIONAL ERROR H: OTHER (EXPLAIN)	AND LICENSE EXAMINATION	•		1: MANUAL 2: MANUAL SCRAM 3: AUTOMATIC SCRAM 4: OTHER (EXPLAIN)

* INDICATES SHUTDOWN HOURS/OTHERWISE "NA" FOR NOT APPLICABLE

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TABLE 2.2 (PAGE 2 OF 3) COMANCHE PEAK STEAM ELECTRIC STATION - UNIT 2 UNIT OPERATING EXPERIENCE INCLUDING SHUTDOWNS AND POWER REDUCTIONS

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NQ	DATE	TYPE F: FORCED S: SCHEDULED	JRATION* (HOURS)	REASON	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER	CORRECTIVE ACTIONS/COMMENTS
4	970523	F		Α	4	On May 23. at 1745the Unit reduced power to 48% to troubleshoot and repair main feedwater pump 2B outboard bearing due to high vibration. The problem was identified as a cracked inboard water seal collar. The collar was replaced and the Unit returned to 100% power on June 3 at 1810. The Unit was at reduced power for a approximately 264 hours.
5 5A 5B	971025 971101 971201	S S	164.9 720.0 218.0	C C	2 2 2	On October 25, at 0404 while down powering to begin the third refueling outage (2RF03) the reactor was manually tripped after 4 control rods inserted (LER 446/97-002-00). At the beginning of the third refueling outage, the Power Operated Relief Valves 2-PCV-0456A and 2-PCV-0455A operad after the unit was cooled down to the Low Temperature Overpressure Protection (LTOP) a ming temperature (350 Degrees) with pressure above the LTOP setpoint. (Special Report 2-SR-97-001-00) Unit was returned to service on December 10 at 0204.
1) REASON						2) METHOD
A: EQUIPMEN B: MAINT OF C: REFUELIN D: REGULATO	IT FAILURE (E. PLAIN) 1 TEST IG IRY RESTRICTION	E: OPERATOR TRAINING F: ADMINISTRATIVE G: OPERATIONAL ERROR H: OTHER (EXPLAIN)	AND LICENSE EXAMINATION (EXPLAIN)			1: MANUAL 2: MANUAL SCRAM 3: AUTOMATIC SCRAM 4: OTHER (EXPLAIN)

* INDICATES SHUTDOWN HOURS/OTHERWISE "NA" FOR NOT APPLICABLE

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TABLE 2.2 (PAGE 3 OF 3) COMANCHE PEAK STEAM ELECTRIC STATION - UNIT 2 UNIT OPERATING EXPERIENCE INCLUDING SHUTDOWNS AND POWER REDUCTIONS

NQ	DATE	TYPE F: FORCED S: SCHEDULED	DURATION* (HOURS)	REASON	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER	CORRECTIVE ACTIONS/COMMENTS
6	971213	F		A	4	On December 13. at 1020 while returning to power after 2RF03. Unit holds at 55% power to repair leak on the main feedwater pump 2B casing drain line weld. The Unit was held at 55% power for approximately 55 hours. Repairs were completed and Unit returned to 100% power December 19 at 1053.
1) REASON	1					2) METHOD
A: EQUIPH B: MAINT C: REFUEL	IENT FAILURE (EXPLAIN) OR TEST ING	E: OPERATOR TRAININ F: ADMINISTRATIVE G: OPERATIONAL ERRO	G AND LICENSE EXAM R (EXPLAIN)	MINATION		1: MANUAL 2: MANUAL SCRAM 3: AUTOMATIC SCRAM 4: OTHER (EXPLAIN)

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D: REGULATORY RESTRICTION H: OTHER (EXPLAIN)

* INDICATES SHUTDOWN HOURS/OTHERWISE "NA" FOR WE APPLICABLE

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TABLE 3.0

COMANCHE PEAK STEAM ELECTRIC STATION . UNITS 1 AND 2

1997 PERSONNEL EXPOSURE AND MONITORING REPORT

	# Person	anel (>1)	00 mrem)	Total Person - rem		
Work & Job Function	Station	Utility	Contract	Station	Utility	Contract
Reactor Operations & Surveillance						
Maintenance & Construction	0	0	8	.061	.000	2.656
Operations	11	0	0	4.279	.000	.149
Health Physics & Lab	9	1	31	2.758	.144	8.010
Supervisory & Office Staff	6	0	0	.096	.000	.000
a gineering Staff	1	0	0	.422	.000	.122
Routine Plant Maintenance						
Maintenance & Construction	11	0	148	5.179	.000	44.734
Operations	3	0	1	1.460	.000	.448
Health Physics & Lab	5	0	3	1.459	.050	1.715
Supervisory & Office Staff	0	0	0	.052	.000	.080
Engineering Staff	0	0	0	.512	.000	.378
In-service Inspection						
Maintenance & Construction	0	0	67	.088	.000	24.679
Operations	2	0	0	.466	.000	.000
Health Physics & Lab	2	0	15	.684	.000	4.302
Supervisory & Office Staff	0	0	0	.000	.000	.000
Engineering Staff	0	0	4	.129	.000	1.063
* Special Plant Maintenance						
Maintenance & Construction	0	0	31	.017	.000	9.103
Operations	0	0	2	.030	.000	.619
Health Physics & Lab	0	0	0	-018	.000	.056
Supervisory & Office Staff	0	0	0	.018	.000	.000
Engineering Staff	0	0	0	.135	.000	.239
Waste Processing						
Maintenance & Construction	0	0	3	.045	.000	1.098
Operations	0	0	1	.401	.000	.234
Health Physics & Lab	1	0	0	.502	C 0.	.180
Supervisory & Office Staff	0	0	0	.007	.000	.000
Engineering Staff	0	0	0	.026	.000	.041
Refueling						
Maintenance & Construction	0	0	50	.161	.000	21.481
Operations	5	0	0	1.271	.000	.059
Health Physics & Lab	5	0	7	1.145	.000	2.220
Supervisory & Office Staff	0	0	0	.006	.000	.005
Engineering Staff	0	0	1	.191	.000	.240
Totals						
Maintenance & Construction	14	0	293	5.551	.000	103.751
Operations	23	0	5	7.907	.000	1.510
Health Physics & Lab	23	1	56	6.566	.265	16.482
Supervisory & Office Staff	0	0	0	.179	.000	.086
Engineering Staff	2	0	9	1.416	.000	2.083
Grand Totals	62	1	363	21.619	.265	123.912

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* Coating repairs in all radiologically controlled areas.

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TABLE 6.0

COMANCHE PEAK STEAM ELECTRIC STATION - UNITS 1 AND 2

OUTAGE RELATED RADIATION EXPOSURE TO AN INDIVIDUAL FOR A SINGLE MAINTENANCE ACTIVITY WHICH EXCEEDS 10 PERCENT OF AN ALLOWABLE ANNUAL DOSE LIMIT*

Maintenance Activity	Department	Individual's Single Event	<u>Individual's</u> Total Annual
		Exposure (mrem)	Exposure (m/em)
Nozzle Dam	Westinghouse	585	640

* Subject annual dose limit is 5 rem deep dose equivalent