

COMANCHE PEAK STEAM ELECTRIC STATION, UNIT 1

NRC MONTHLY OPERATING REPORT

DOCKET NO.: 50-445  
UNIT: CPSES 1  
DATE: 11/ 9/97  
COMPLETED BY: Bob Reible  
TELEPHONE: 254-897-0449

OPERATING STATUS

1. REPORTING PERIOD: OCTOBER 1997 GROSS HOURS IN REPORTING PERIOD: 745
2. CURRENTLY AUTHORIZED POWER LEVEL (Mwt): 3411 MAX. DEPEND. CAPACITY (MWe-Net): 1150 \*  
DESIGN ELECTRICAL RATING (MWe-Net): 1150
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): NONE
4. REASON FOR RESTRICTION (IF ANY):  
THIS MONTH YR TO DATE CUMULATIVE
5. NUMBER OF HOURS REACTOR WAS CRITICAL 669 7,220 53,314
6. REACTOR RESERVE SHUTDOWN HOURS 28 28 2,632
7. HOURS GENERATOR ON LINE 661 7,212 52,666
8. UNIT RESERVE SHUTDOWN HOURS 0 0 0
9. GROSS THERMAL ENERGY GENERATED (MWH) 2,196,888 24,489,631 171,939,082
10. GROSS ELECTRICAL ENERGY GENERATED (MWH) 737,744 8,246,767 57,435,297
11. NET ELECTRICAL ENERGY GENERATED (MWH) 702,946 7,908,445 54,831,874
12. REACTOR SERVICE FACTOR 89.7 99.0 84.2
13. REACTOR AVAILABILITY FACTOR 93.5 99.3 88.4
14. UNIT SERVICE FACTOR 88.8 98.9 83.2
15. UNIT AVAILABILITY FACTOR 88.8 98.9 83.2
16. UNIT CAPACITY FACTOR (USING MDC) 82.0 94.3 75.3
17. UNIT CAPACITY FACTOR (USING DESIGN MWe) 82.0 94.3 75.3
18. UNIT FORCED OUTAGE RATE 11.2 1.1 4.3
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):  
Unit sixth refueling outage scheduled to start March 21, 1998 with an approximate duration of 5 weeks.
20. IF SHUTDOWN AT END OF REPORTING PERIOD, ESTIMATED DATE OF STARTUP:
21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): ACHIEVED

9711200284 971114  
PDR ADOCK 05000445  
R PDR

COMMERCIAL OPERATION

900813

\* ESTIMATED

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 50-445  
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TELEPHONE: 254-877-0449

MONTH: OCTOBER 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1095
2	1095
3	1095
4	1095
5	1096
6	1098
7	1097
8	1098
9	1098
10	1098
11	1097
12	1099
13	1100
14	1101
15	1100
16	1101

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	1090
18	853
19	1100
20	1100
21	1100
22	1099
23	1099
24	1101
25	1101
26	1103
27	472
28	0
29	0
30	0
31	596

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.: 50-445  
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DATE: 11/ 9/97  
COMPLETED BY: Bob Reible  
TELEPHONE: 254-897-0449

MONTH: OCTOBER 1997

DAY	TIME	REMARK/MODE
10/01	0000	Unit began the month at 100% power.
10/27	1044	Automatic Turbine and Reactor trip during switchyard testing on the east bus breaker. The east bus breaker failed to close in the specified time; the west bus breaker detected the abnormal condition and tripped removing the generator from the grid. The loss of load automatically tripped the reactor. Unit is in Mode 3.
10/28	0330	Source Range detector (N31) malfunction requires replacement of detector.
10/30	1056	Replacement of NI detector complete begin preparations to return to power.
	1416	Unit entered Mode 2, commencing reactor start up.
	1508	Reactor Critical.
	2113	Unit entered Mode 1.
	2223	Unit synchronized to the grid.
10/31	2245	Unit returned to 100% power.
	2400	Unit ended the month at 100% power.



# UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.: 50-445  
UNIT: CPSES 1  
DATE: 11/ 9/97  
COMPLETED BY: Bob Reible  
TELEPHONE: 254-897-0449

REPORT MONTH: OCTOBER 1997

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	83.60	G	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, 1997. See previous page for additional details. (Reference: LER 445/97-008).

## 1) REASON

A: EQUIPMENT FAILURE (EXPLAIN)  
B: MAINT OR TEST  
C: REFUELING  
D: REGULATORY RESTRICTION

E: OPERATOR TRAINING AND LICENSE EXAMINATION:  
F: ADMINISTRATIVE  
G: OPERATIONAL ERROR (EXPLAIN)  
H: OTHER (EXPLAIN)

## 2) METHOD

1: MANUAL  
2: MANUAL SCRAM  
3: AUTOMATIC SCRAM  
4: OTHER (EXPLAIN)

## COMANCHE PEAK STEAM ELECTRIC STATION, UNIT 2

## NRC MONTHLY OPERATING REPORT

DOCKET NO.: 50-446  
 UNIT: CPSES 2  
 DATE: 11/ 9/97  
 COMPLETED BY: Bob Reible  
 TELEPHONE: 254-897-0449

## OPERATING STATUS

1. REPORTING PERIOD:	OCTOBER 1997	GROSS HOURS IN REPORTING PERIOD:	745
2. CURRENTLY AUTHORIZED POWER LEVEL (Mwt):	3411	MAX. DEPEND. CAPACITY (MWe-Net):	1150 *
DESIGN ELECTRICAL RATING (MWe-Net):	1150		
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net):	NONE		
4. REASON FOR RESTRICTION (IF ANY):			
	THIS MONTH	YR TO DATE	CUMULATIVE
5. NUMBER OF HOURS REACTOR WAS CRITICAL	580	7,049	31,530
6. REACTOR RESERVE SHUTDOWN HOURS	0	82	2,311
7. HOURS GENERATOR ON LINE	580	7,029	31,262
8. UNIT RESERVE SHUTDOWN HOURS	0	0	0
9. GROSS THERMAL ENERGY GENERATED (MWH)	1,958,441	23,376,386	101,660,013
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	664,015	7,918,264	34,310,364
11. NET ELECTRICAL ENERGY GENERATED (MWH)	635,903	7,602,262	32,830,993
12. REACTOR SERVICE FACTOR	77.9	96.6	84.7
13. REACTOR AVAILABILITY FACTOR	77.9	97.7	90.9
14. UNIT SERVICE FACTOR	77.9	96.3	84.0
15. UNIT AVAILABILITY FACTOR	77.9	96.3	84.0
16. UNIT CAPACITY FACTOR (USING MDC)	74.2	90.6	76.7
17. UNIT CAPACITY FACTOR (USING DESIGN MWe)	74.2	90.6	76.7
18. UNIT FORCED OUTAGE RATE	0.0	0.0	5.9
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			
Unit entered third refueling outage (2RF03) on October 25, 1997. Expected duration approximately 5 weeks.			
20. IF SHUTDOWN AT END OF REPORTING PERIOD, ESTIMATED DATE OF STARTUP:		11/29/97	
21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):	ACHIEVED		

COMMERCIAL OPERATION

930803

\* ESTIMATED

AVERAGE DAILY UNIT POWER LEVEL

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MONTH: OCTOBER 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1109
2	1109
3	1098
4	1057
5	1106
6	1107
7	1107
8	1108
9	1108
10	1109
11	1109
12	1111
13	1112
14	1113
15	1112
16	1113

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	1115
18	1114
19	1114
20	1114
21	1114
22	1111
23	1102
24	1074
25	29
26	0
27	0
28	0
29	0
30	0
31	0



SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

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MONTH: OCTOBER 1997

DAY	TIME	REMARK/MODE
10/01	0000	Unit began the month at 100% power
10/22	0922	Unit began coastdown at the end of the third operating cycle.
10/24	2210	Unit began to ramp down for the start of the refueling outage (2RF03).
	2340	Unit at 55% power trouble shooting a Rod Control urgent failure alarm.
10/25	0030	Unit resumed ramp down to enter the third refueling outage (2RF03) while continuing to trouble shoot the Rod Control alarm.
	0404	Manual reactor trip after four control rods inserted while ramping down to begin the third refueling outage (2RF03). Unit in Mode 3 (2RF03).
	2101	Power Operated Relief Valves 2-PCV-0456A and 2-PCV-0455A opened after the unit was cooled down to the Low Temperature Overpressure Protection (LTOP) arming temperature (350 Degrees) with pressure above the LTOP setpoint. (Special Report 2-SR-97-001-00)
	2114	Unit entered Mode 4
10/26	1040	Unit entered Mode 5 (2RF03).
10/31	2400	Unit ended the month in Mode 5. Third refueling outage. 2RF03.

# UNIT SHUTDOWNS AND POWER REDUCTIONS

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DATE: 11/ 9/97  
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REPORT MONTH: OCTOBER 1997

NO	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON	METHOD OF	
					SHUTTING DOWN THE REACTOR OR	REDUCING POWER

5	971025	S	164.90	C		2
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## CORRECTIVE ACTIONS/COMMENTS

Manual reactor trip after 4 control rods inserted (LER 446/97-002-00). Begin unit third refueling outage. See previous page for additional details.

## 1) REASON

- A: EQUIPMENT FAILURE (EXPLAIN)
- B: MAINT OR TEST
- C: REFUELING
- D: REGULATORY RESTRICTION

- E: OPERATOR TRAINING AND LICENSE EXAMINATION
- F: ADMINISTRATIVE
- G: OPERATIONAL ERROR (EXPLAIN)
- H: OTHER (EXPLAIN)

## 2) METHOD

- 1: MANUAL
- 2: MANUAL SCRAM
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- 4: OTHER (EXPLAIN)