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C. Lance Terry  
Group Vice President

December 15, 1994

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

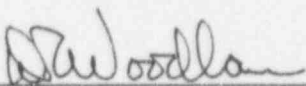
SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES) - UNITS 1 AND 2  
DOCKET NOS. 50-445 AND 50-446  
MONTHLY OPERATING REPORT FOR NOVEMBER 1994

Gentlemen:

Attached is the Monthly Operating Report for November 1994, prepared and submitted pursuant to Technical Specification 6.9.1.5 contained in Appendix A to the Comanche Peak Steam Electric Station Units 1 and 2, Operating License Nos. NPF-87 and NPF-89, respectively.

Sincerely,

C. L. Terry

By:   
D. R. Woodlan  
Docket Licensing Manager

JMK/jmk

Attachment

c - Mr. L. J. Callan, Region IV  
Mr. D. D. Chamberlain, Region IV  
Resident Inspector, CPSES (1)  
Mr. T. J. Polich, NRR

JE24 11

COMANCHE PEAK STEAM ELECTRIC STATION, UNIT 1  
NRC MONTHLY OPERATING REPORT

DOCKET NO.: 50-445  
UNIT: CPSES 1  
DATE: 12/12/1994  
COMPLETED BY: Janet Hughes  
TELEPHONE: 817-897-5331

OPERATING STATUS

1. REPORTING PERIOD: NOVEMBER 1994 GROSS HOURS IN REPORTING PERIOD: 720
  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     | 693        | 7,942      | 30,481     |
| 6. REACTOR RESERVE SHUTDOWN HOURS           | 27         | 74         | 2,427      |
| 7. HOURS GENERATOR ON LINE                  | 693        | 7,938      | 30,031     |
| 8. UNIT RESERVE SHUTDOWN HOURS              | 0          | 0          | 0          |
| 9. GROSS THERMAL ENERGY GENERATED (MWH)     | 2,362,373  | 26,826,881 | 96,576,686 |
| 10. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 794,949    | 8,972,113  | 32,107,370 |
| 11. NET ELECTRICAL ENERGY GENERATED (MWH)   | 761,417    | 8,611,896  | 30,607,747 |
| 12. REACTOR SERVICE FACTOR                  | 96.3       | 99.1       | 80.9       |
| 13. REACTOR AVAILABILITY FACTOR             | 100.0      | 100.0      | 87.3       |
| 14. UNIT SERVICE FACTOR                     | 96.3       | 99.0       | 79.7       |
| 15. UNIT AVAILABILITY FACTOR                | 96.3       | 99.0       | 79.7       |
| 16. UNIT CAPACITY FACTOR (USING MDC)        | 92.0       | 93.4       | 70.6       |
| 17. UNIT CAPACITY FACTOR (USING DESIGN MWe) | 92.0       | 93.4       | 70.6       |
| 18. UNIT FORCED OUTAGE RATE                 | 3.7        | 1.0        | 4.8        |
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH) :  
Refueling Outage scheduled to begin March 2, 1995 with an estimated duration of 63 days.
  20. IF SHUTDOWN AT END OF REPORTING PERIOD, ESTIMATED DATE OF STARTUP:
  21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): ACHIEVED
- COMMERCIAL OPERATION 900813

\* ESTIMATED

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 50-445  
UNIT: CPSES 1  
DATE: 12/12/1994  
COMPLETED BY: Janet Hughes  
TELEPHONE: 817-897-5331

MONTH : NOVEMBER 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1101	17	1100
2	1101	18	1101
3	1101	19	1100
4	1100	20	1101
5	1101	21	1101
6	1101	22	1101
7	1100	23	1100
8	1097	24	1101
9	1098	25	1100
10	1101	26	1086
11	1100	27	1101
12	1100	28	1101
13	1100	29	976
14	1100	30	0
15	1100	31	
16	1100		

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.: 50-445  
UNIT: CPSES 1  
DATE: 12/12/1994  
COMPLETED BY: Janet Hughes  
TELEPHONE: 817-897-5331

MONTH : NOVEMBER 1994

DAY	TIME	REMARK/MODE
11/01	0000	Unit started month in MODE 1.
11/29	2120	Reactor/Turbine trip due to generator primary water stator low flow signal. Unit entered MODE 3. The primary water low flow indication was suspected to be due to gas coming out of solution in the primary water differential pressure sensing lines causing erroneous indications. Instrument tubing was re-sloped to aid in venting and heat trace maintained de-energized with the turbine in operation to minimize the amount of gas coming out of solution.
11/30	2400	Unit ended month in MODE 3 with testing of the generator primary water system in progress.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.: 50-445  
UNIT: CPSES 1  
DATE: 12/12/1994  
COMPLETED BY: Janet Hughes  
TELEPHONE: 817-897-5331

REPORT MONTH : NOVEMBER 1994

NO	DATE	TYPE F:FORCED S:SCHEDULED	DURATION (HOURS)	REASON	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER	CORRECTIVE ACTIONS/COMMENTS
7	941129	F	27.00	A	3	Reactor/Turbine trip due to generator primary water stator low flow signal. See previous page. LER 445/94-006-00 to be submitted.

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: 12/12/1994  
COMPLETED BY: Janet Hughes  
TELEPHONE: 817-897-5331

OPERATING STATUS

1. REPORTING PERIOD: NOVEMBER 1994 GROSS HOURS IN REPORTING PERIOD: 720
  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     | 198        | 5,085      | 8,374      |
| 6. REACTOR RESERVE SHUTDOWN HOURS           | 1          | 1,826      | 2,154      |
| 7. HOURS GENERATOR ON LINE                  | 162        | 4,952      | 8,197      |
| 8. UNIT RESERVE SHUTDOWN HOURS              | 0          | 0          | 0          |
| 9. GROSS THERMAL ENERGY GENERATED (MWH)     | 317,364    | 14,147,117 | 24,765,074 |
| 10. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 100,050    | 4,704,410  | 8,291,637  |
| 11. NET ELECTRICAL ENERGY GENERATED (MWH)   | 82,961     | 4,430,317  | 7,862,123  |
| 12. REACTOR SERVICE FACTOR                  | 27.5       | 63.4       | 72.0       |
| 13. REACTOR AVAILABILITY FACTOR             | 27.7       | 86.2       | 90.5       |
| 14. UNIT SERVICE FACTOR                     | 22.5       | 61.8       | 70.5       |
| 15. UNIT AVAILABILITY FACTOR                | 22.5       | 61.8       | 70.5       |
| 16. UNIT CAPACITY FACTOR (USING MDC)        | 10.0       | 48.1       | 58.8       |
| 17. UNIT CAPACITY FACTOR (USING DESIGN MWe) | 10.0       | 48.1       | 58.8       |
| 18. UNIT FORCED OUTAGE RATE                 | 0.8        | 19.1       | 13.0       |
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH) :
  20. IF SHUTDOWN AT END OF REPORTING PERIOD, ESTIMATED DATE OF STARTUP:
  21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): ACHIEVED

COMMERCIAL OPERATION 930803

\* ESTIMATED

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 50-446  
UNIT: CPSES 2  
DATE: 12/12/1994  
COMPLETED BY: Janet Hughes  
TELEPHONE: 817-897-5331

MONTH : NOVEMBER 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	78
9	0	25	201
10	0	26	392
11	0	27	521
12	0	28	849
13	0	29	865
14	0	30	970
15	0	31	
16	0		

# SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.: 50-446  
UNIT: CPSES 2  
DATE: 12/12/1994  
COMPLETED BY: Janet Hughes  
TELEPHONE: 817-897-5331

MONTH : NOVEMBER 1994

DAY	TIME	REMARK/MODE
11/01	0000	Unit started month with core offloaded during Unit 2 first refueling outage.
	2227	Unit entered MODE 6.
11/08	0923	Unit entered MODE 5.
11/19	0805	Unit entered MODE 4.
11/20	2354	Unit entered MODE 3.
11/22	1317	Unit entered MODE 2.
	1801	Reactor is critical.
11/24	0339	Unit entered MODE 1.
	0456	Synchronized to the grid.
	0925	Turbine Trip caused by high generator primary water temperature. Operator failed to adjust cooling water while controlling in manual with increasing turbine load.
	1048	Synchronized to the grid.
11/30	2400	Unit ended month in MODE 1 with 90% RTP.

## FIRST REFUELING OUTAGE MAJOR WORK SCOPE

- Appendix J Local Leak Rate Testing
- ESF/RPS Time Response Testing
- Diesel Generator Train B maintenance inspections and testing
- Train B Integrated Test Sequence
- All Pressurizer Safety Valves Setpoint tested
- All Main Steam Safety Valves Setpoint tested
- Eddy Current Testing and Sludge Lancing on all Steam Generators
- Replaced last stage blade on LP1 and LP2 Turbines
- Mid-Loop Level Instrumentation was added to improve level measurement of the RCS
- Installed new impellers on Containment Spray Pumps 01, 02, 03, and 04



SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.: 50-446  
UNIT: CPSES 2  
DATE: 12/12/1994  
COMPLETED BY: Janet Hughes  
TELEPHONE: 817-897-5331

MONTH : NOVEMBER 1994

DAY	TIME	REMARK/MODE
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FIRST REFUELING OUTAGE MAJOR WORK SCOPE (con't)

- Replaced turning gears on Main Feed Water Pump Turbines 2-01 and 2-02
- Modified RHR Pump 2-02 from uncoupled to coupled design with cartridge mechanical seal
- Rebuilt Station Service Water Pump 2-01
- Snubber Functional Testing
- Replaced circulating water expansion joints
- Performed weld repairs on Containment Recirc Sumps Screen Structure 2-01 & 2-02

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.: 50-446  
UNIT: CPSES 2  
DATE: 12/12/1994  
COMPLETED BY: Janet Hughes  
TELEPHONE: 817-897-5331

REPORT MONTH : NOVEMBER 1994

NO	DATE	TYPE F:FORCED S:SCHEDULED	DURATION (HOURS)	REASON	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER	CORRECTIVE ACTIONS/COMMENTS
19	941101	S	557.00	C	1	Refueling Outage 1.
20	941124	F	1.00	G	4	Turbine Trip caused by high generator primary water temperature. Operator failed to adjust cooling water while controlling in manual.

1) REASON

A: EQUIPMENT FAILURE (EXPLAIN)  
B: MAINT OR TFST  
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)