



TU ELECTRIC

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April 12, 1991

William J. Cahill, Jr.
Executive Vice President

Director, Office of Resource Management
U. S. Nuclear Regulatory Commission
Washington, DC 20555

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES) UNIT 1
DOCKET NO. 50-445
MONTHLY OPERATING REPORT FOR MARCH 1991

Gentlemen:

Attached is the Monthly Operating Report for March 1991 prepared and submitted pursuant to Specification 6.9.1.5 of Appendix A (Technical Specifications) to the Comanche Peak Unit 1 Steam Electric Station Operating License, NPF-87.

Sincerely,

William J. Cahill, Jr.

William J. Cahill, Jr.

By: *Roger D. Walker*

Roger D. Walker
Manager of Nuclear Licensing

cc -/arp
Attachment

c - Mr. R. D. Martin, Region IV
Resident Inspectors, CPSES (3)
Mr. J. W. Clifford, NRR

9104260245 910331
PDR ADOCK 05000445
R PDR

400 North Olive Street L.B. 81 Dallas, Texas 75201

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

| | |
|---------------|----------------------|
| DOCKET NO: | <u>50-445</u> |
| UNIT: | <u>CPSES 1</u> |
| DATE: | <u>April 8, 1991</u> |
| COMPLETED BY: | <u>G.W. Thatcher</u> |
| TELEPHONE: | <u>817-897-8223</u> |

OPERATING STATUS

1. Reporting Period: MARCH 1991 Gross hours in reporting period: 744
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. Reasons for restriction (if any):

| | THIS MONTH | YR TO DATE | CUMULATIVE |
|--|---|------------|------------|
| 5. Number of hours reactor was critical | 445.3 | 1908.2 | 4734.6 |
| 6. Reactor reserve shutdown hours | 298.7 | 351.8 | 624.7 |
| 7. Hours generator on line | 437.2 | 1787.7 | 4653.4 |
| 8. Unit reserve shutdown hours | 0 | 0 | 0 |
| 9. Gross thermal energy generated (MWH) | 1,375,315 | 5,689,547 | 13,846,475 |
| 10. Gross electrical energy generated (MWH) | 459,846 | 1,907,386 | 4,572,386 |
| 11. Net electrical energy generated (MWH) | 434,571 | 1,823,178 | 4,336,692 |
| 12. Reactor Service factor | 59.9 | 83.7 | 85.5 |
| 13. Reactor availability factor | 100 | 100 | 96.8 |
| 14. Unit service factor | 58.8 | 82.8 | 84.0 |
| 15. Unit availability factor | 58.8 | 82.8 | 84.0 |
| 16. Unit capacity factor (Using MDC) | 50.8 | 73.4 | 68.1 |
| 17. Unit capacity factor (Using Design MWe) | 50.8 | 73.4 | 68.1 |
| 18. Unit forced outage rate | 14.4 | 7.2 | 7.6 |
| 19. Shutdowns scheduled over next 6 months (Type, Date, and Duration of each): | a) Maintenance/ Surveillance, 910322, 6 weeks. | | |
| 20. If shutdown at end of report period, estimated date of startup: | 910504 | | |
| 21. Units in test status (prior to commercial operation): | ACHIEVED | | |
| Commercial Operation | 900813 | | |

* Estimated

AVERAGE DAILY UNIT POWER LEVEL

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MONTH: MARCH 1991

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|--|-----|--|
| 1 | <u>1044</u> | 17 | <u>492</u> |
| 2 | <u>950</u> | 18 | <u>76</u> |
| 3 | <u>1050</u> | 19 | <u>722</u> |
| 4 | <u>1050</u> | 20 | <u>162</u> |
| 5 | <u>1059</u> | 21 | <u>0</u> |
| 6 | <u>1065</u> | 22 | <u>0</u> |
| 7 | <u>1065</u> | 23 | <u>0</u> |
| 8 | <u>1062</u> | 24 | <u>0</u> |
| 9 | <u>1062</u> | 25 | <u>0</u> |
| 10 | <u>1063</u> | 26 | <u>0</u> |
| 11 | <u>1065</u> | 27 | <u>0</u> |
| 12 | <u>1066</u> | 28 | <u>0</u> |
| 13 | <u>1065</u> | 29 | <u>0</u> |
| 14 | <u>1062</u> | 30 | <u>0</u> |
| 15 | <u>1055</u> | 31 | <u>0</u> |
| 16 | <u>1017</u> | | |

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

| | |
|---------------|----------------------|
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MONTH: MARCH 1991

| | | |
|------|------|--|
| 3/1 | 0000 | Unit started month in MODE 1. |
| 3/17 | 1131 | Reactor Trip, Unit entered MODE 3. Reactor trip caused by operator error during surveillance testing. LER 91-007 to follow. |
| 3/18 | 0541 | Unit entered MODE 2. |
| | 0735 | Unit entered MODE 1. |
| 3/20 | 0140 | Steam generator chemistry at action level 3 due to high sodium, caused by tube failure in the main condenser. Began power reduction/shutdown to correct problem. |
| | 0653 | Unit entered MODE 2. |
| | 0728 | Unit entered MODE 3. |
| | 1948 | Unit entered MODE 4. |
| | 2310 | Unit entered MODE 5. |
| 3/28 | 2253 | Loss of preferred power to safeguards bus caused an auto start of train "A" diesel generator. (Parker breaker tripped) LER 91-012 to follow. |
| 3/29 | 0020 | Loss of preferred power to safeguards bus caused an auto start of train "A" diesel generator. (Parker breaker tripped again) LER 91-012 to follow. |
| 3/31 | 2400 | Unit ended month in MODE 5. |

UNIT SHUTDOWNS AND POWER REDUCTIONS

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UNIT: CPSES 1
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TELEPHONE: 817-897-8223

REPORT MONTH MARCH 1991

| NO. | DATE | TYPE F:FORCED S:SCHEDULED | DURATION (HOURS) | REASON | METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER | CORRECTIVE ACTIONS/COMMENTS |
|-----|--------|---------------------------------|---------------------|--------|--|--|
| 003 | 910317 | F | 25.7 | G | 3 | Reactor Trip caused by personnel error. See previous page. LER 91-0C7 to follow. |
| 004 | 910320 | F | 48.1 | A | 1 | S.G. chemistry at action level 3 caused by condenser tube shear. |
| 005 | 910322 | S | 233 | B/F | 1 | Planned outage. |

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)