

# WOLF CREEK

NUCLEAR OPERATING CORPORATION

Gary D. Boyer  
Chief Administrative Officer

June 13, 1997

CO 97-0047

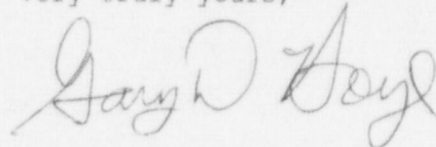
U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Mail Station Pl-137  
Washington, D. C. 20555

Subject: Docket No. 50-482: May, 1997, Monthly  
Operating Report

Gentlemen:

Attached to this letter is the May, 1997, Monthly Operating Report for Wolf Creek Generating Station. This submittal is being made in accordance with the requirements of Technical Specification 6.9.1.8. If you have questions regarding this report, please contact me at (316)364-8831, extension 4000, or Mr. Richard D. Flannigan at extension 4500.

Very truly yours,



Gary D. Boyer

OLM/jed

Attachment

cc: W. D. Johnson (NRC), w/a  
E. W. Merschoff (NRC), w/a  
J. F. Ringwald (NRC), w/a  
J. C. Stone (NRC), w/a

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WOLF CREEK NUCLEAR OPERATING CORPORATION

WOLF CREEK GENERATING STATION

MONTHLY OPERATING REPORT

MONTH: May YEAR: 1997

Docket No.: 50-482

Facility Operating License No.: NPF-42

Report No. 147

## SUMMARY

The following report highlights the operating experience of Wolf Creek Generating Station for the month of May, 1997. This report is being provided pursuant to Technical Specification 6.9.1.8.

### I. SUMMARY OF OPERATING EXPERIENCE

The unit operated at or near 100% power, Mode 1, May 1, 1997, through 0359 on May 3, 1997, when the unit began to reduce power because of a tube leak in the Low Pressure Feedwater Heater 2C. At 2309, May 3, 1997, power was stabilized at 65%. The tube was repaired, and at 0734, May 4, 1997, the unit commenced power increase. At 1328, May 4, 1997, the unit was stabilized at Mode 1, 100% power.

The unit continued at Mode 1, approximately 100% power, until 1417, May 20, 1997, when power reduction was commenced to repair a steam leak on valve AEFV 58C, third stage extraction to feedwater heater 7B. At 1457, May 20, 1997, the Reactor was manually tripped. The unit was stabilized in Mode 3 to allow for repairs to the valve. At 1104, May 23, 1997, the unit entered Mode 2. At 1300, May 23, 1997, the Reactor achieved criticality. The unit continued power increase and entered Mode 1 at 0233, May 24, 1997. At 0000, May 25, 1997, the main generator output breakers were closed. At 1857, May 25, 1997, the unit reached Mode 1, 100% power, and continued operating at that power through May 31, 1997.

### II. MAJOR SAFETY RELATED MAINTENANCE ACTIVITIES

None

### MAJOR NONSAFETY RELATED MAINTENANCE ACTIVITIES:

Plugged tube on Low Pressure Heater 2C  
Replaced gasket on AEFV 58C, third stage extraction to feedwater heater 7B  
Replaced roll pins on AEHV 33, AFLV 58C, and AFLV 45

## OPERATING STATUS

1. Reporting Period: May, 1997 Gross Hours in Reporting Period: 744
2. Currently Authorized Power Level (MWt): 3565 Max. Depend. Capacity (MWe-Net): 1163  
Design Electrical Rating (MWe-Net): 1170
3. Power Level to Which Restricted (If Any) (MWe-Net): N/A
4. Reasons for Restriction (If Any): N/A
- |  | This Month  | Yr. to Date       | Cumulative         |
|--|---|-------------------|--------------------|
| 5. Number of Hours Reactor was Critical  | <u>674.0</u>  | <u>3,553.0</u>    | <u>85,304.9</u>    |
| 6. Reactor Reserve Shutdown Hours  | <u>0.0</u>  | <u>0.0</u>        | <u>339.8</u>       |
| 7. Hours Generator on Line   | <u>639.0</u>  | <u>3,518.0</u>    | <u>84,377.9</u>    |
| 8. Unit Reserve Shutdown Hours   | <u>0.0</u>  | <u>0.0</u>        | <u>0.0</u>         |
| 9. Gross Thermal Energy Generated (MWh)  | <u>2,218,326</u>  | <u>12,475,506</u> | <u>282,702,073</u> |
| 10. Gross Electrical Energy Generated (MWh)                                    | <u>762,387</u>  | <u>4,320,480</u>  | <u>98,169,465</u>  |
| 11. Net Electrical Energy Generated (MWh)                                      | <u>726,357</u>  | <u>4,144,036</u>  | <u>93,785,755</u>  |
| 12. Reactor Service Factor   | <u>90.6%</u>  | <u>98.1%</u>      | <u>82.9%</u>       |
| 13. Reactor Availability Factor  | <u>90.6%</u>  | <u>98.1%</u>      | <u>83.2%</u>       |
| 14. Unit Service Factor  | <u>85.9%</u>  | <u>97.1%</u>      | <u>82.0%</u>       |
| 15. Unit Availability Factor   | <u>85.9%</u>  | <u>97.1%</u>      | <u>82.0%</u>       |
| 16. Unit Capacity Factor (Using MDC)   | <u>83.9%</u>  | <u>98.4%</u>      | <u>79.9%</u>       |
| 17. Unit Capacity Factor (Using Design MWe)                                    | <u>83.4%</u>  | <u>97.8%</u>      | <u>77.9%</u>       |
| 18. Unit Forced Outage Rate  | <u>14.1%</u>  | <u>2.9%</u>       | <u>4.5%</u>        |
| 19. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of each): | <u>Refuel Outage IX is scheduled for September 20 through October 20, 1997.</u> |                   |                    |
| 20. If Shut Down at End of Report Period, Estimate Date of Startup:            | <u>N/A</u>  |                   |                    |



AVERAGE DAILY UNIT POWER LEVEL  
DOCKET NO. 50-482  
WOLF CREEK GENERATING STATION  
WOLF CREEK NUCLEAR OPERATING CORPORATION  
DATE 6-6-97  
TELEPHONE 316-364-8831

MONTH May, 1997DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	1184
2	1183
3	985
4	981
5	1183
6	1183
7	1183
8	1183
9	1184
10	1184
11	1184
12	1184
13	1181
14	1182
15	1182
16	1184

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	1184
18	1183
19	1183
20	717
21	0
22	0
23	0
24	0
25	578
26	1167
27	1178
28	1180
29	1179
30	1180
31	1180

## UNIT SHUTDOWN AND POWER REDUCTIONS

DOCKET NO. 50-482  
 WOLF CREEK GENERATING STATION  
 WOLF CREEK NUCLEAR OPERATING CORPORATION  
 DATE 6-9-97  
 TELEPHONE 316-364-8831

No	Date	Type F: FORCED S: SCHEDULED	DURATION (Hours)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER(2)	CORRECTIVE ACTIONS/COMMENTS
1	970503	F	0	A	5	Repair tube leak in Low Pressure Heater 2C
2	970520	F	105	A	5; 2	Repair valve AFFV58C on Feedwater Heater 7B

**SUMMARY:** The unit operated at or near 100% power, Mode 1, May 1, 1997, through 0359 on May 3, 1997, when the unit began to reduce power because of a tube leak in the Low Pressure Feedwater Heater 2C. At 2309, May 3, 1997, power was stabilized at 65%. The tube was repaired, and at 0734, May 4, 1997, the unit commenced power increase. At 1328, May 4, 1997, the unit was stabilized at Mode 1, 100% power. The unit continued at Mode 1, approximately 100% power, until 1417, May 20, 1997, when power reduction was commenced to repair a steam leak on valve AEFV 58C, third stage extraction to feedwater heater 7B. At 1457, May 20, 1997, the reactor was manually tripped. The unit was stabilized in Mode 3 to allow for repairs to the valve. At 1104, May 23, 1997, the unit entered Mode 2. At 1300, May 23, 1997, the Reactor achieved criticality. The unit continued power increase and entered Mode 1 at 0233, May 24, 1997. At 0000, May 25, 1997, the main generator output breakers were closed. At 1857, May 25, 1997, the unit reached Mode 1, 100% power, and continued operating at that power through May 31, 1997.

1) REASON: A: EQUIPMENT FAILURE (EXPLAIN) E: OPERATOR TRAINING AND LICENSE EXAMINATION (2) METHOD: 1. MANUAL  
 B: MAINTENANCE OR TEST F: ADMINISTRATIVE 2. MANUAL SCRAM  
 C: REFUELING G: OPERATIONAL ERROR (EXPLAIN) 3. AUTOMATIC SCRAM  
 D: REGULATORY RESTRICTION H: OTHER (EXPLAIN) 4. CONTINUED  
 5. REDUCED LOAD  
 9. OTHER

WOLF CREEK NUCLEAR OPERATING CORPORATION

WOLF CREEK GENERATING STATION

UNIT NO. 1

MONTH May, 1997

SUMMARY OF OPERATING EXPERIENCE

Listed below in chronological sequence is a summary of operating experiences for this month which required load reduction or resulted in significant non-load related incidents.

<u>DATE</u>	<u>TIME</u>	<u>EVENT</u>
5/3/97	1428	Reduced power to repair tube leak on Low Pressure Heater 2C
5/20/97	1457	Reduced power and tripped reactor to repair steam leak on AEFV 058C