# OPERATING DATA REPORT

DOCKET NO. 050-0298
DATE 3-7-86
COMPLETED BY K. E. Sutton
TELEPHONE (402)825-3811

## OPERATING STATUS

1. Unit Name: Cooper Nuclear Station
2. Reporting Period: February 1986
3. Licensed Thermal Power (MWt): 2381
4. Nameplate Rating (Gross MWe): 836
5. Design Electrical Rating (Net MWe): 778
6. Maximum Dependable Capacity (Gross MWe): 787
7. Maximum Dependable Capacity (Net MWe): 764

Notes

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

9. Power Level To Which Restricted, If Any (Net MWe):
10. Reasons For Restrictions, If Any:

| | This Month | Yr.-to-Date | Cumulative |
|---|---|---|---|
| 11. Hours In Reporting Period | 672.0 | 1,416.0 | 102,265.0 |
| 12. Number Of Hours Reactor Was Critical | 644.0 | 1,388.0 | 76,401.1 |
| 13. Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. Hours Generator On-Line | 632.0 | 1,376.0 | 75,081.8 |
| 15. Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. Gross Thermal Energy Generated (MWH) | 1,471,661.0 | 3,209,093.0 | 148,071,759.0 |
| 17. Gross Electrical Energy Generated (MWH) | 496,004.0 | 1,084,497.0 | 47,224,470.0 |
| 18. Net Electrical Energy Generated (MWH) | 477,426.0 | 1,043,791.0 | 45,498,151.0 |
| 19. Unit Service Factor | 94.0 | 97.2 | 73.4 |
| 20. Unit Availability Factor | 94.0 | 97.2 | 73.4 |
| 21. Unit Capacity Factor (Using MDC Net) | 93.0 | 96.5 | 58.2 |
| 22. Unit Capacity Factor (Using DER Net) | 91.3 | 94.7 | 57.2 |
| 23. Unit Forced Outage Rate | 5.9 | 2.8 | 4.9 |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

25. If Shut Down At End Of Report Period, Estimated Date of Startup:
26. Units In Test Status (Prior to Commercial Operation):

| | Forecast | Achieved |
|---|---|---|
| INITIAL CRITICALITY | | |
| INITIAL ELECTRICITY | | |
| COMMERCIAL OPERATION | | |



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(9/77)

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0298
UNIT CNS
DATE 3-7-86
COMPLETED BY K. E. Sutton
TELEPHONE (402)825-3811

MONTH February, 1986

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|---|---|---|---|
| 1 | 780 | 17 | 774 |
| 2 | 752 | 18 | 775 |
| 3 | 754 | 19 | 775 |
| 4 | 780 | 20 | 778 |
| 5 | 779 | 21 | 777 |
| 6 | 778 | 22 | 770 |
| 7 | 777 | 23 | 778 |
| 8 | 774 | 24 | 775 |
| 9 | 754 | 25 | 763 |
| 10 | 770 | 26 | 775 |
| 11 | 770 | 27 | 131.3 |
| 12 | 773 | 28 | 21.3 |
| 13 | 752 | 29 | - |
| 14 | 771 | 30 | - |
| 15 | 655 | 31 | - |
| 16 | 776 | | |

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

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## UNIT SHUTDOWNS AND POWER REDUCTIONS

**REPORT MONTH** February 1986

**DOCKET NO.** 050-0298
**UNIT NAME** CNS
**DATE** 3-7-86
**COMPLETED BY** K. E. Sutton
**TELEPHONE** (402)825-3811

| No. | Date | Type[1] | Duration (Hours) | Reason[2] | Method of Shutting Down Reactor[3] | Licensee Event Report # | System Code[4] | Component Code[5] | Cause & Corrective Action to Prevent Recurrence |
|---|---|---|---|---|---|---|---|---|---|
| 86-01 | 860227 | F | 40 | C | 3 | * | * | * | During the performance of a Special Procedure to transfer operation from two RF pumps to a single RF pump, an error in the procedure allowed a mismatch of feed pump flow and steam flow. This resulted in a decreasing reactor water level and caused a low water level scram. The Special Procedure for single Reactor Feed Pump (RFP) operation overestimated available single RFP flow at reduced power (approx. 72% power).<br><br>A Special Order has been issued which has placed more restrictive guidance on single RFP operation. |

* Not available at the time of this report.

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

3
Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Other (Explain)

4
Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

5
Exhibit I - Same Source

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Operations Narrative
Cooper Nuclear Station
February, 1986

The plant operated the month of February with no scheduled shutdowns, one (1) unscheduled shutdown on February 27 and no other unscheduled power changes.

The unscheduled shutdown on February 27 was caused by operating at too high of a power level for single Reactor Feed Pump (RFP) operation. The reactor scram followed a switch from two pump to single pump operation. A special procedure was being implemented to take RFP-1A off-line for repairs. Power was to remain constant by simultaneously increasing flow from RFP-1B while decreasing flow from RFP-1A and removing it from service. During the transfer RFP-1B engaged an upper speed stop prior to reaching its desired flow resulting in a declining reactor water level and subsequent scram on low water level. Investigation revealed problems with the single RFP special procedure. Repairs to RFP-1A were completed during cold shutdown. On February 28 procedures were implemented to bring the plant back into service (two pump operation). The plant was placed on-line February 28.

A capacity factor of 93.0 was achieved for the month of February.

Nebraska Public Power District

COOPER NUCLEAR STATION
P.O. BOX 98, BROWNVILLE, NEBRASKA 68321
TELEPHONE (402) 825-3811

CNSS860190

March 7, 1986

Director, Office of Management Information
and Program Control
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Monthly Operation Status Report for February 1986
Docket No. 50-298

Gentlemen:

Enclosed for your information and use is the Cooper Nuclear Station Monthly Operating Status Report for February 1986. The report includes Operating Status, Average Daily Unit Power Level, Unit Shutdown Data, and a Narrative Summary of Operating Experience.

Should you have any comments or require additional information regarding this report, please contact me.

Sincerely,

G. R. Horn
Division Manager of
Nuclear Operations

GRH:lb
Enclosure
cc: G. D. Watson w/enc.
A. C. Gehr w/enc.
R. D. Martin w/enc.

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