

OPERATING DATA REPORT

DOCKET NO. 050-298
 DATE April 5, 1982
 COMPLETED BY P. L. Ballinger
 TELEPHONE 402-825-3811

OPERATING STATUS

1. Unit Name: Cooper Nuclear Station
2. Reporting Period: March 1982
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): None
10. Reasons For Restrictions, If Any:

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744.0	2,160.0	67,945.0
12. Number Of Hours Reactor Was Critical	686.9	2,102.9	55,989.3
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	679.3	2,095.3	55,052.8
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,510,176.0	4,735,104.0	108,423,582.0
17. Gross Electrical Energy Generated (MWH)	504,283.0	1,577,045.0	34,057,832.0
18. Net Electrical Energy Generated (MWH)	489,325.0	1,528,273.0	32,825,651.0
19. Unit Service Factor	91.3	97.0	81.0
20. Unit Availability Factor	91.3	97.0	81.0
21. Unit Capacity Factor (Using MDC Net)	86.1	92.6	63.2
22. Unit Capacity Factor (Using DER Net)	84.5	90.9	62.1
23. Unit Forced Outage Rate	8.7	3.0	4.0

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

Refueling, May 22, 1982, 4 weeks

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	_____	_____

AVERAGE DAILY UNIT POWER LEVEL

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MONTH March

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>766</u>	17	<u>752</u>
2	<u>774</u>	18	<u>753</u>
3	<u>774</u>	19	<u>739</u>
4	<u>775</u>	20	<u>255</u>
5	<u>776</u>	21	<u>0</u>
6	<u>774</u>	22	<u>0</u>
7	<u>768</u>	23	<u>302</u>
8	<u>771</u>	24	<u>659</u>
9	<u>769</u>	25	<u>716</u>
10	<u>766</u>	26	<u>705</u>
11	<u>758</u>	27	<u>705</u>
12	<u>755</u>	28	<u>609</u>
13	<u>753</u>	29	<u>748</u>
14	<u>558</u>	30	<u>752</u>
15	<u>721</u>	31	<u>745</u>
16	<u>764</u>		

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.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March

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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
82-4	820314	S	0	H	N/A	N/A	N/A	N/A	Power was reduced to adjust the control rod pattern. All rods were withdrawn from the core and the end of cycle coast down started.
82-4	820320	F	64.7	A	3	N/A	N/A	N/A	An intermittent source of spikes and fluctuations in the main generator voltage regulator system in the automatic mode of operation was noticed in January and February 1982. On March 22, 1982, to stop these spikes, the voltage regulator control system was transferred from automatic operation to manual operation and a generator trip resulted. A circuit card in the voltage regulator system was replaced and some adjustments to the circuitry were made to improve the voltage regulator operation. The generator was returned to service and no spikes were observed, however, a continuing effort is underway to analyze this problem.

¹
 F: Forced
 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Elimination
 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

OPERATIONS NARRATIVE
Cooper Nuclear Station
March 1982

A power reduction was taken on March 14 to adjust the control rod pattern. All the control rods were withdrawn from the core at that time and the end of cycle power coastdown started.

On March 20, 1982, voltage spikes in the main generator field voltage regulator system were observed and were similar to spikes observed in January and February 1982. To stop these spikes, the operator transferred the voltage regulator control from automatic operation to manual operation. This action resulted in a generator voltage decrease and loss of excitation. The generator tripped on loss of excitation and the reactor subsequently scrambled.

An examination of the voltage regulator system was made to find the problem. A marginal circuit board was replaced and some adjustments were made to the voltage regulator circuitry to improve its operation but a definitive cause of the problem could not be found. The generator was returned to service on March 23, 1982 and no voltage spikes have been observed. A continuing effort to analyze this problem is under way.

The plant operated the remainder of March with no reductions or outages.