

OPERATING DATA REPORT

DOCKET NO. 50-316
 DATE 6/8/81
 COMPLETED BY A. J. Tetzlaff
 TELEPHONE 616-165-5901

OPERATING STATUS

1. Unit Name: D. C. Cook Unit 2
2. Reporting Period: May 1981
3. Licensed Thermal Power (MWt): 3301
4. Nameplate Rating (Gross MWe): 1123
5. Design Electrical Rating (Net MWe): 1100
6. Maximum Dependable Capacity (Gross MWe): 1118
7. Maximum Dependable Capacity (Net MWe): 1082
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

Notes

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	744	3623	29,927
12. Number Of Hours Reactor Was Critical	298.4	2026.5	19,768.6
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	216.6	1944.7	18,984.3
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	449,803	6,283,194	59,902,828
17. Gross Electrical Energy Generated (MWH)	139,660	2,037,370	19,129,200
18. Net Electrical Energy Generated (MWH)	131,938	1,965,809	18,424,974
19. Unit Service Factor	29.1	53.7	69.1
20. Unit Availability Factor	29.1	53.7	69.1
21. Unit Capacity Factor (Using MDC Net)	16.4	50.1	64.1
22. Unit Capacity Factor (Using DER Net)	16.1	49.5	63.4
23. Unit Forced Outage Rate	13.9	1.8	14.2
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	_____	_____

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-316

UNIT 2

DATE 6-4-81

COMPLETED BY A. L. Tetzlaff

TELEPHONE 616-465-5901

MONTH May 1981

DAY	AVERAGE DAILY POWER LEVEL (MWE-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWE-Net)
1	---	17	---
2	---	18	---
3	---	19	---
4	---	20	---
5	---	21	15
6	---	22	396
7	---	23	110
8	---	24	443
9	---	25	453
10	---	26	587
11	---	27	676
12	---	28	781
13	---	29	868
14	---	30	393
15	---	31	779
16	---		

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 May, 1981

DOCKET NO. 50-316
 UNIT NAME D.C. Cook - Unit 2
 DATE 6-11-81
 COMPLETED BY B.A. Svensson
 TELEPHONE (616) 465-5901
 PAGE 1 of 2

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
93 Cont'd	810314	S	492.5	B&C	1	N.A.	ZZ	ZZZZZZ	The unit was removed for Cycle II - III refueling outage on 810314. Following completion of the outage work and low power physics testing the unit was returned to service on 810521 at 1230 hours. The total length of the outage was 1643.4 hours.
94	810521	F	10.5	A	3	N.A.	CH	INSTRU	Reactor/Turbine trip due to Low-Low level in No. 3 Steam Generator. Feed-water regulating valve, FRV-230, failed closed due to solenoid valve failure. Solenoid valve was repaired.
95	810523	F	15.8	A	2	N.A.	HA	PIPEXX	Turbine tripped manually due to control oil line break at instrument connection on the east control fluid pump discharge pipe. Piping weld repaired. NDE performed on weld repair and similar welds on all three control fluid pumps.

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-316
 UNIT NAME D.C. Cook - Unit 2
 DATE 6-11-81
 COMPLETED BY B.A. Svensson
 TELEPHONE (616) 465-5901
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REPORT MONTH May, 1981

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
96	810530	F	8.6	H	3	N.A.	HA	XXXXXX	Reactor/Turbine trip. Trip occurred while filling west F.P. Turbine Lube Oil Filter (west side). A drop in lube oil pressure occurred which tripped the W.F.P. Turbine. The Reactor trip was due to Low-Low level in No. 2 Steam Generator caused by the decrease in feedwater flow. The reason for the drop in lube oil pressure could not be determined and is still under investigation.

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Docket No.: 50-316
Unit Name: D. C. Cook Unit 2
Completed By: C. E. Murphy
Telephone: (616) 465-5901
Date: June 10, 1981
Page: 1 of 1

MONTHLY OPERATING EXPERIENCES--MAY, 1981

Highlights:

The Unit entered this reporting period in Mode 5. Preparations were in progress to return the Unit to operating status from a 68 day Refueling Outage. Filling of the Reactor Coolant System was started at 1926 on May 5, and heatup at 1026 on May 6.

A Unit cooldown was initiated at 1944 on May 12, to repair a leaking loop Seal Drain Valve on one of the Pressurizer Safety Valves.

Repairs were completed on the drain valve and plant heatup restarted. The reactor was made critical at 0603 May 18, and Low Power Physics Testing was started at this time.

The Unit was initially paralleled with the system at 1230 on May 21. Several trips were encountered during the startup. These were brought about due to steam generator levels.

At the close of this reporting period, the Unit is at 88% power and at 2315 on May 31, an increase to 95% power was commenced.

Total electrical generation for the month was 139,660 mwh.

Summary:

- 5/01/81 The CD Emergency Diesel Generator was inoperable for a 9.75 hour period for Maintenance to repair valve ESW-162.
- 5/07/81 R 25/R 26 The Vent Stack Monitors were inoperable for a 3.5 hour period
- 5/27/81 HV-AES-1 Fan was inoperable for a 5.75 hour period to change a rollamatic filter.
- 5/28/81 The Turbine Driven Auxiliary Feed Pump was inoperable for a 4.25 hour period to repair a steam trap.

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PAGE	1 of 1

MAJOR SAFETY-RELATED MAINTENANCE

MAY, 1981

- M-1 The nitrogen containment isolation check valve to the reactor coolant drain tank, N-160, was leaking by. Lapped the valve seat and disc.
- M-2 Sections of the containment divider barrier seal material were found to have cracks. Approximately 35 linear feet of the rubber seal was replaced and reinspected.
- M-3 Main steam lead No. 2 pressure instrument root valve, MPP-221V1, had a packing leak. One packing stand bolt was broken. Replaced the valve.
- M-4 Steam generator blowdown regulating valves, DRV-311, DRV-312, DRV-321, DRV-322, DRV-331, DRV-332, DRV-341 and DRV-342 were leaking by. Replaced the plug, stem, cage and seat in each valve. Reassembled valves with new gaskets and repacked valves. All valves were tested.
- M-5 Plugged tubes in No. 1 and No. 4 steam generators adjacent to the tube lane blocking devices.
- M-6 No. 3 steam generator stop valve dump valve, MRV-231, was leaking by. Machined the valve seats and lapped the seat. Had the valve tested.
- M-7 Volume control tank safety valve, SV-53, was leaking by. Replaced the seat o-ring and tested the valve.
- M-8 Safety valve, SV-104E, on the east RHR header had a leak due to a crack at the toe of a weld just upstream of the valve. Replaced the pipe nipple and flange at the inlet of the safety valve. Had the necessary NDE performed and completed a hydrostatic test.
- M-9 Letdown isolation valve, QRV-112, had a body-to-bonnet leak. Replaced gasket, added and adjusted packing and replaced actuator diaphragm. Had valve tested.
- M-10 The north safety injection pump failed to meet discharge pressure requirements during a performance test. Replaced the pump rotating assembly, mechanical seals and gasket. Had the pump retested.
- M-11 Steam generator blowdown containment isolation valve, DCR-320, had a bent stem. Replaced valve stem and gaskets. Repacked valve and installed a new stem to actuator coupling. Had the valve tested.
- C&I-1 WFA-930, non-essential service water flow indication to No. 3 upper containment ventilation unit indicated full scale independent of valve position. The circuit board of the transmitter required replacement. The transmitter was recalibrated and returned to service.