

N.R.C. OPERATING DATA REPORT  
 DOCKET NO. 50-316  
 DATE AUGUST 6, 1993  
 COMPLETED BY J D Janisse  
 TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name D. C. Cook Unit 2  
 2. Reporting Period Aug 1993 notes  
 3. Licensed Thermal Power (MWt) 3411 Revision 3  
 4. Name Plate Rating (Gross MWe) 1133  
 5. Design Electrical Rating (Net MWe) 1090  
 6. Maximum Dependable Capacity (GROSS MWe) 1100  
 7. Maximum Dependable Capacity (Net MWe) 1060  
 8. If Changes Occur in Capacity Ratings (Items no. 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 Mo.	Yr. to Date	Cumm.
11. Hours in Reporting Period	744.0	5831.0	137327.0
12. No. of Hrs. Reactor Was Critical	475.5	5562.5	91920.0
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator on Line	443.5	5530.5	88846.9
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Therm. Energy Gen. (MWH)	1081661	17080415	274668187
17. Gross Elect. Energy Gen. (MWH)	320880	5522970	89277000
18. Net Elect. Energy Gen. (MWH)	304978	5327503	85999675
19. Unit Service Factor	59.6	94.8	65.8
20. Unit Availability Factor	59.6	94.8	65.8
21. Unit Capacity Factor (MDC Net)	38.7	86.2	60.0
22. Unit Capacity Factor (DER Net)	37.3	83.8	58.5
23. Unit Forced Outage Rate	40.5	5.2	15.7
24. Shutdowns Scheduled over Next Six Months (Type, Date, and Duration):	None		

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 POWER LEVEL (MWe-Net)

DOCKET NO. 50-316  
UNIT TWO  
DATE SEPT 6, 1993  
COMPLETED BY JD JANISSE  
TELEPHONE 616-465-5901

MONTH AUGUST 1993

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	664	17	733
2	319	18	748
3	0	19	745
4	0	20	736
5	0	21	761
6	0	22	744
7	0	23	745
8	0	24	866
9	0	25	906
10	0	26	899
11	0	27	149
12	0	28	276
13	0	29	477
14	307	30	542
15	700	31	667
16	724		

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: August 1993

UNIT NAME: D. C. COOK UNIT 2  
DATE: Sept. 9, 1993  
COMPLETED BY: R. D. Reynnells  
TELEPHONE: (616) 465-5901  
PAGE 1 OF 2

NO.	DATE	TYPE <sup>1</sup>	DURATION HOURS	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSEE EVENT REPORT NO.	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
230	930802	F	275.8	H	3	LER 93-07	JC	DET	On 930802 at 1226 hours, the Unit 2 reactor tripped as a result of a main turbine trip, caused by a spurious actuation of the turbine exhaust hood high temperature trip switches. To prevent recurrence a temporary design change was implemented, disabling the high temperature trip function but retaining the alarm function and placing the turbine trip under administrative control. The return to service was delayed due to a reactor vessel head penetration conoseal leak which required cooldown and partial draining of the reactor coolant system. The unit was paralleled on 930814 at 0011 hours.

1 F: Forced S: Scheduled	2 Reason: A: Equipment Failure (Explain) B: Maintenance or Test C: Refueling D: Regulatory Restriction E: Operator Training and 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 1061)	5 Exhibit I: Same Source
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## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: August 1993

UNIT NAME: D. C. COOK UNIT 2  
DATE: Sept. 9, 1993  
COMPLETED BY: R. D. Reynnells  
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NO.	DATE	TYPE <sup>1</sup>	DURATION HOURS	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSEE EVENT REPORT NO.	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
231	930827	F	24.7	H	3	LER 93-08	JC	DET	On 930827 at 0502 hours, the Unit 2 reactor tripped as a result of a feedwater transient due to a loss of control of the east main feed pump turbine. After maintenance activities were performed on the main feed pumps, the unit was paralleled on 930828 at 0545 hours.

1	2	3	4	5
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DATE: Sept. 9, 1993  
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MONTHLY OPERATING ACTIVITIES' - AUGUST 1993

HIGHLIGHTS

The unit entered the reporting period in Mode 1 at 70% RTP.

A reactor trip from a turbine trip occurred on August 2, 1993 at 1226 hours. The turbine trip was caused by a spurious activation of the turbine exhaust hood high temperature trip. During the containment inspection, a leak was found on a reactor vessel head penetration conoseal requiring cooldown and partial draining of the reactor coolant system to effect repairs.

The reactor was taken critical on August 12, 1993 at 2250 hours. The unit was returned to service on August 14, 1993 at 0011 hours.

A unit trip occurred on August 27, 1993 at 0502 hours initiated by an unanticipated speed decrease by the east main feed pump turbine and the resulting feedwater transient. The reactor was taken critical on August 27, 1993 at 2307 hours and the unit was returned to service at 0545 hours on August 28, 1993.

The unit exited this reporting period in Mode 1 at 70% RTP.

There were no challenges to the pressurizer safety valves or power operated relief valves.

Gross Electrical generation for the month of August was 320880 MWH.

DETAILS

08-02-93	1226	Reactor trip from turbine trip. The RCS is in Mode 3.
08-03-93	0158	Commenced RCS cooldown.
	1203	The RCS is in Mode 4
08-04-93	0523	The RCS is in Mode 5
08-05-93	1645	Commenced draining of RCS to facilitate Conoseal repair.
08-06-93	0050	RCS level stabilized at 619' 11".
08-07-93	0910	Commenced refill of RCS from RWST.
	1604	Refill of RCS complete.

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MONTHLY OPERATING ACTIVITIES - AUGUST 1993

DETAILS CONTINUED

08-09-93	1326	The RCS is in Mode 4.
08-10-93	1743	The RCS is in Mode 3.
08-12-93	1810	The RCS is at no-load pressure and temperature.
	2222	The reactor is in Mode 2, commenced reactor startup.
	2250	The reactor is critical.
08-13-93	0412	The reactor is in Mode 1.
08-14-93	0011	The main generator is paralleled to the grid, increasing reactor power.
	0117	Stabilizing reactor power at 28%.
	0830	Commenced reactor power increase.
08-15-93	0945	Stabilized reactor power at 75%.
08-23-93	1850	Commenced reactor power increase.
08-24-93	0415	Stabilized reactor power at 85%
08-27-93	0502	Unit trip due to failure of the east main feed pump turbine controls. The RCS is in Mode 3.
	2218	The reactor is in Mode 2, commenced reactor startup.
	2307	The reactor is critical.
08-28-93	0303	The reactor is in Mode 1.
	0545	The main generator is paralleled to the grid, increasing reactor power.
	1321	Stabilized reactor power at 44%.
	2020	Commenced reactor power increase.

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MONTHLY OPERATING ACTIVITIES - AUGUST 1993

DETAILS CONTINUED

08-28-93	2130	Stabilized reactor power at 53%.
08-29-93	2000	Commenced reactor power increase.
	2230	Stabilized reactor power at 59%.
08-31-93	0200	Commenced reactor power increase.
	0454	Stabilized reactor power at 70%.

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COMPLETED BY: M. E. Russo  
TELEPHONE: (616) 465-5901  
DATE: September 6, 1993  
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MAJOR SAFETY-RELATED MAINTENANCE - August 1993

No major safety-related maintenance items are included for the month of August.