

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

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SUBJECT: Monthly operating rept for Aug 1991 for DC Cook Nuclear  
Plant Unit 2, per Tech Spec 6.9.1.10.W/910905 ltr.

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One Cook Place  
Bridgman, MI 49106  
616 465 5901



September 5, 1991

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Gentlemen:

Pursuant to the requirements of Donald C. Cook Nuclear Plant  
Unit 2 Technical Specification 6.9.1.10, the attached Monthly  
Operating Report for the month of August 1991 is submitted.

Respectfully,

*A. Alan Blind*  
A.A. Blind  
Plant Manager

Attachment

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# N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-316  
 DATE 03-Sep-91  
 COMPLETED BY WT GILLET  
 TELEPHONE 616-465-5901

## OPERATING STATUS

1. Unit Name D. C. Cook Unit 2  
 2. Reporting Period AUG.91  
 3. Licensed Thermal Power (Mwt) 3411  
 4. Name Plate Rating (Gross MWe) 1133  
 \* 5. Design Electrical Rating (Net MWe) 1100  
 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

notes

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	119783.0
12. No. of Hrs. Reactor Was Critical	202.1	5236.8	80371.7
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator on Line	185.4	5214.8	78800.7
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Therm. Energy Gen. (MWH)	590907	17264402	243431455
17. Gross Elect. Energy Gen. (MWH)	176820	5541370	79328210
18. Net Elect. Energy Gen. (MWH)	169920	5348420	76407387
19. Unit Service Factor	24.9	89.4	67.1
20. Unit Availability Factor	24.9	89.4	67.1
21. Unit Capacity Factor (MDC Net)	21.5	86.5	61.4
22. Unit Capacity Factor (DER Net)	20.8	83.4	59.7
23. Unit Forced Outage Rate	75.1	10.6	13.4

24. Shutdowns Scheduled over Next Six Months (Type, Date, and Duration):  
 Refueling outage to begin February 9, 1992 for an estimated duration of 85 days.

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

\* Item No. 5: Design Electrical Rating (DER) NET MWe has been changed effective July 1, 1991. This reduction is the result of the steam condenser tube replacements with stainless steel tubes, which cause a higher turbine exhaust pressure.

\* Item No. 7: Maximum dependable capacity (MDC) NET MWe, effective July 1, 1991, will be 1060 during May through October and 1090 during November through April.

These NET ratings and capabilities reflect historical data on generating capability due to changes in lake water temperature.

# AVERAGE DAILY POWER LEVEL (MWe-Net)

DOCKET NO. 50-316  
UNIT TWO  
DATE 03-Sep-91  
COMPLETED BY WT GILLET  
TELEPHONE 616-465-5901

MONTH AUG.91

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	754	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	464
10	0	26	969
11	0	27	980
12	0	28	977
13	0	29	975
14	0	30	983
15	0	31	978
16	0		

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: August 1991

DOCKET NO: 50-316  
UNIT NAME: D.C. COOK UNIT 2  
DATE: September 5, 1991  
COMPLETED BY: E.C. Schimmel  
TELEPHONE: (616) 465-5901

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
217	910801	F	558.6	A	3	91-006	EA	CKTERK	A unit trip occurred at 1931 hours on 910801 due to the failure of a current transformer on the A1 765KV circuit breaker. While the unit was shut down a leak was discovered on a reactor vessel head instrument penetration Conoseal. The RCS was cooled down to Mode 5 to repair the leaking seal. All repairs were completed and the unit was returned to service at 0207 hours on 910825. 98% RTP was reached at 0225 hours on 910826.

1	2	3	4	5
F: Forced S: Scheduled	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)	Method: 1: Manual 2: Manual Scram 3: Automatic Scram 4: Other (Explain)	Exhibit G - Instructions for preparation of data entry sheets for Licensee Event Report (IER) File (NUREG 0161)	Exhibit I: Same Source

DOCKET NO: 50-316  
UNIT NAME: D.C. Cook Unit 2  
COMPLETED BY: E.C. Schimmel  
TELEPHONE: (616) 465-5901  
DATE: September 5, 1991  
PAGE: 1 of 2

MONTHLY OPERATING ACTIVITIES - August 1991

HIGHLIGHTS

The unit entered the reporting period at 98.5% RTP. Minor power adjustments were made throughout the reporting period in order to maintain total heat discharged to Lake Michigan within NPDES permit limits. A unit trip occurred at 1931 hours on 910801 due to the failure of a current transformer on the A1 765KV circuit breaker. While the unit was shut down, a leak was discovered on a reactor vessel head instrument penetration Conoseal. The RCS was cooled down to Mode 5 to repair the leaking seal. Repairs were completed and the reactor was critical at 0925 hours on 910824. The main generator was paralleled at 0207 hours on 910825, with 98% RTP achieved at 0225 hours on 910826.

Gross electrical generation for the month of August was 176820 MWH.

DETAILS

08/01/91	1931	Unit tripped due to failure of a current transformer on the A1 765KV circuit breaker. The failure induced transient caused a reactor trip from a generator trip on overall differential.
	1941	An unusual event was declared due to a fire in the 765KV switchyard which lasted greater than ten minutes.
	2234	The fire in the 765KV switchyard has been extinguished. The unusual event has been exited.
08/03/91	1948	Commenced RCS cooldown, to Mode 4.
08/04/91	0933	The RCS is in Mode 4.
08/10/91	0950	Commenced RCS heatup to Mode 3.
	1033	The RCS is in Mode 3.
08/12/91	2145	Commenced RCS cooldown to Mode 5 to effect repairs to a leaking reactor vessel head instrument penetration Conoseal.
08/13/91	0500	The RCS is in Mode 4.
	1531	The RCS is in Mode 5.

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PAGE: 2 of 2

08/22/91 1015 Commenced RCS heatup to Mode 3.  
1817 The RCS is in Mode 4.  
08/23/91 0950 The RCS is in Mode 3.  
08/24/91 0753 Commenced Reactor startup.  
0925 The reactor is critical.  
1957 The reactor is in Mode 1.  
08/25/91 0207 The main generator is paralleled to the system  
power grid. Commencing unit power increase to  
29% RTP.  
0315 Holding unit power at 29% for chemistry hold  
point.  
0509 Commence unit power increase to 98% RTP.  
08/26/91 0225 The unit is at 98% RTP.

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COMPLETED BY: E.C. Schimmel  
TELEPHONE: (616) 465-5901  
DATE: September 5, 1991  
PAGE: 1 of 1

MAJOR SAFETY-RELATED MAINTENANCE - August 1991

There were no safety-related maintenance items during the month of August.