

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

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RECIP. NAME      RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for Sept 1991 for DC Cook Nuclear  
Plant, Unit 1. W/911003 ltr.

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Power Company  
Cook Nuclear Plant  
One Cook Place  
Bridgman, MI 49106  
616 465 5901



October 3, 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 1 Technical Specification 6.9.1.10, the attached Monthly  
Operating Report for the month of September 1991 is submitted.

Respectfully,

A.A. Blind  
Plant Manager

Attachment

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9110160145 910930  
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R PDR

*JEH*

# N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-315  
 DATE 07-Oct-91  
 COMPLETED BY WT GILLET  
 TELEPHONE 616-465-5901

## OPERATING STATUS

1. Unit Name D. C. Cook Unit 1  
 2. Reporting Period SEP.91  
 3. Licensed Thermal Power (MWt) 3250  
 4. Name Plate Rating (Gross MWe) 1152  
 5. Design Electrical Rating (Net MWe) 1020  
 6. Maximum Dependable Capacity (GROSS MWe) 1056  
 7. Maximum Dependable Capacity (Net MWe) 1000  
 8. If Changes Occur in Capacity Ratings (Items no. 3 through 7) Since Last Report Give Reasons See asterics (\*) below.

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	720.0	6551.0	146807.0
12. No. of Hrs. Reactor Was Critical	632.6	5545.3	108932.3
13. Reactor Reserve Shutdown Hours	0.0	0.0	463.0
14. Hours Generator on Line	621.7	5318.2	106947.0
15. Unit Reserve Shutdown Hours	0.0	0.0	321.0
16. Gross Therm. Energy Gen. (MWH)	1879172	16597077	312026725
17. Gross Elect. Energy Gen. (MWH)	592860	5307830	101439060
18. Net Elect. Energy Gen. (MWH)	570115	5112524	97545997
19. Unit Service Factor	86.3	81.2	73.9
20. Unit Availability Factor	86.3	81.2	73.9
21. Unit Capacity Factor (MDC Net)	77.6	76.5	66.1
22. Unit Capacity Factor (DER Net)	77.6	76.1	64.3
23. Unit Forced Outage Rate	13.7	4.1	6.9
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

\* 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 replacement with stainless steel tubes, which cause a high turbine exhaust pressure.

\* Item No. 7: Maximum dependable capacity (MDC) NET MWe, effective July 1, 1991, will be 1000, during the period from May through October and 1020 during the period from 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. 50-315  
 UNIT ONE  
 DATE 01-Oct-91  
 COMPLETED BY WT GILLET  
 TELEPHONE 616-465-5901

MONTH SEP.91

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	999	17	0
2	988	18	0
3	988	19	73
4	987	20	384
5	986	21	556
6	980	22	906
7	987	23	949
8	983	24	991
9	996	25	996
10	969	26	1003
11	988	27	1000
12	989	28	998
13	887	29	1000
14	876	30	1002
15	293		
16	0		

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: September 1991

DOCKET NO: 50-315  
UNIT NAME: D.C. COOK UNIT 1  
DATE: October 3, 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
298	910915	F	98.3	B	1	N/A	SF	PIPEXX	A unit shutdown was commenced at 0710 hours on 910915. Blockage in the boron injection tank (BIT) recirculation flow path prevented verification of the BIT water level as required by Technical Specification 4.5.4.1 requiring the unit to be shutdown. The unit was removed from service at 1155 hours on 910915, followed by the reactor coolant system being cooled to Mode 4. The BIT recirculation line was unplugged and the BIT restored to operability. The unit was returned to service at 1414 hours on 910919 with 99.5% RTP being reached at 1412 hours on 910923.

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 (LER) File (NUREG 0161)	Exhibit I: Same Source

DOCKET NO: 50-315  
UNIT NAME: D.C. Cook Unit 1  
COMPLETED BY: E.C. Schimmel  
TELEPHONE: (616) 465-5901  
DATE: October 3, 1991  
PAGE: 1 of 2

MONTHLY OPERATING ACTIVITIES - September 1991

HIGHLIGHTS

The unit entered the reporting period at 99.5% RTP. Reactor power was slowly decreased to 88% RTP starting on 910912 to allow removal of circulating water pumps from service to aid zebra mussel control activities. Power was stabilized at 88% RTP at 1200 hours on 910913. A unit shutdown commenced at 0710 hours on 910915. Blockage in the boron injection tank (BIT) recirculation flow path prevented verification of the BIT water level as required by Technical Specification 4.5.4.1 requiring the unit to be shutdown. The unit was removed from service at 1155 hours on 910915, followed by the reactor coolant system being cooled down to Mode 4. The BIT recirculation line was unplugged and the BIT restored to operability. The unit was returned to service at 1414 hours on 910919 with 99.5% RTP being reached at 1412 hours on 910923.

Gross electrical generation for the month of September was 592860 MWH.

DETAILS

09/12/91		Reactor power was slowly being decreased to 88% RTP throughout the night to allow removal of circulating water pumps from service to aid zebra mussel control activities.
09/13/91	1200	Holding reactor power at 88% RTP for zebra mussel control application.
09/15/91	0710	Commenced unit shutdown for Boron Injection Tank recirculation line repairs.
	1155	Tripped the Turbine-Generator. The reactor is in Mode 2.
	1225	The RCS is in Mode 3.
	1650	Commenced RCS cooldown to Mode 4.
	2322	The RCS is in Mode 4.
09/17/91	2125	Commenced RCS heatup to Mode 3.
	2205	The RCS is in Mode 3.

DOCKET NO. 50-315  
UNIT NAME: D.C. Cook Unit 1  
COMPLETED BY: E.C. Schimmel  
TELEPHONE: (616) 465-5901  
DATE: October 3, 1991  
PAGE: 2 of 2

Monthly Operating Activities - September 1991

09/19/91	0242	Commenced reactor startup.
	0348	The reactor is critical.
	1155	The unit is in Mode 1.
	1414	Paralleled the main generator to the system power grid.
	1422	Commenced unit power increase to 30% RTP.
	1830	Holding power at 30% RTP for calorimetric testing.
09/20/91	0000	Resumed unit power increase.
	0406	Holding unit power at 47% RTP for quadrant power tilt ratio equalization.
09/21/91	1010	Commenced unit power increase to 90% RTP.
09/22/91	0000	Holding power at 90% RTP for full core flux mapping.
	1135	Commenced power increase to 99.5% RTP.
	1412	The unit is at 99.5% RTP.

DOCKET NO: 50-315  
UNIT NAME: D.C. Cook Unit 1  
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 major safety-related maintenance items during the month of September.