

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8901230086 DOC. DATE: 88/11/30 NOTARIZED: NO DOCKET #  
 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana & 05000315  
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SUBJECT: Monthly operating rept for Nov 1988 for DC Cook Nuclear  
 Plant Unit 1.W/881208 ltr.

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 TITLE: Monthly Operating Report (per Tech Specs)

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	RGN3	1 1		
EXTERNAL:	EG&G SIMPSON, F	1 1	EG&G WILLIAMS, S	1 1
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10-1-77

DOCKET NO. 50-315  
 UNIT NAME D. C. Cook - Unit No. 1  
 DATE December 8, 1988  
 COMPLETED BY T. R. Stephens  
 TELEPHONE (616) 465-5901  
 PAGE 1 of 1

MAJOR SAFETY-RELATED MAINTENANCE

NOVEMBER 1988

1-I&C-1 Replaced suspect solid state protection system universal logic card (A215) and safeguard output card (A517) with new cards.

8901230086 881130  
 PDR ADOCK 05000315  
 R PDC

11/24/88

DOCKET NO: 50-315  
 UNIT NAME: D. C. Cook Unit 1  
 COMPLETED BY: T. R. Stephens  
 TELEPHONE: (616) 465-5901  
 DATE: December 8, 1988  
 PAGE: 1 of 1

### MONTHLY OPERATING ACTIVITIES - NOVEMBER 1988

#### HIGHLIGHTS:

For the period of Nov. 01 through Nov. 22, the Unit remained at the 90% administrative power limit.

At 2303 hours on November 23, the Unit tripped. The trip is thought to have been caused by a spurious underfrequency signal generated in the Solid State Protection System (SSPS). An "Unusual Event" was declared because all four reactor coolant pumps tripped with the Unit (expected with an underfrequency trip signal). The "Unusual Event" was exited 2-1/2 hours later following the successful restart of two reactor coolant pumps. The generator was paralleled at 1931 hours. The administrative 90% power limit was attained at 1242 hours on November 27th.

The reporting period ended with the unit operating at the 90% administrative power limit.

Gross electrical generation for the month of November, 1988 was 610,880 MWH.

#### DETAILS

- 11-05-88 0100 Steam was removed from the Moisture Separator Reheaters (MSRs) due to excessive leakage on the right MSR. The MSR will remain out of service until the refueling outage.
- 11-23-88 2303 Reactor tripped due to spurious underfrequency-RCP-Buses signal.
- 2320 An "Unusual Event" was declared due to the tripping of all four reactor coolant pumps.
- 11-24-88 0154 The "Unusual Event" was exited following the restart of two reactor coolant pumps.
- 11-25-88 0222 The reactor was taken critical.
- 1230 Reactor entered Mode 1.
- 1931 Generator paralleled to the system.
- 11-26-88 1345 Stopped power ascension at 48% for chemistry cleanup.
- 11-27-88 0010 Commenced power ascension to 90%.
- 1242 Reactor power reached 90%.

# N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-315  
 DATE 01-Dec-88  
 COMPLETED BY H. Giles  
 TELEPHONE 616-465-5901

## OPERATING STATUS

1. Unit Name D. C. Cook Unit 1 -----  
 2. Reporting Period NOV 88 notes  
 3. Licensed Thermal Power (MWt) 3250  
 4. Name Plate Rating (Gross MWe) 1152  
 5. Design Electrical Rating (Net MWe) 1030  
 6. Maximum Dependable Capacity (GROSS MWe) 1056  
 7. Maximum Dependable Capacity (Net MWe) 1020 -----  
 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	720.0	8040.0	121992.0
12. No. of Hrs. Reactor Was Critical	692.4	7689.8	89527.7
13. Reactor Reserve Shutdown Hours	0.0	0.0	463.0
14. Hours Generator on Line	675.5	7637.4	87874.9
15. Unit Reserve Shutdown Hours	0.0	0.0	321.0
16. Gross Therm. Energy Gen. (MWH)	1922271	22023663	255022661
17. Gross Elect. Energy Gen. (MWH)	610880	7076560	83221230
18. Net Elect. Energy Gen. (MWH)	586057	6797836	80028834
19. Unit Service Factor	93.8	95.0	73.3
20. Unit Availability Factor	93.8	95.0	73.3
21. Unit Capacity Factor (MDC Net)	79.8	82.9	65.4
22. Unit Capacity Factor (DER Net)	79.0	82.1	63.4
23. Unit Forced Outage Rate	6.2	4.6	8.0
24. Shutdowns Scheduled over Next Six Months (Type, Date, and Duration): Unit 1 Cycle 10-11 Refueling Outage is currently scheduled to begin March 4, 1989.			

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		

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH NOVEMBER

DOCKET NO. 50-315  
 UNIT NAME D.C. Cook Unit 1  
 DATE 12-08-88  
 COMPLETED BY T.R. Stephens  
 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 #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
275	881123	F	44.5	A	3	88-013-00	1A	XXXXXX	A reactor trip occurred due to a spurious underfrequency-RCP-Buses signal from the solid state protection system (SSPS). All four reactor coolant pumps tripped from this spurious underfrequency signal. The exact cause of the spurious signal could not be determined. The suspected cause was an intermittent failure of a card in the SSPS. The cards that could have caused the spurious signal were replaced. The unit was returned to service on 11-25-88 and reached 90% power (administrative power limit) on 11-27-88.

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

(9/77)

# AVERAGE DAILY POWER LEVEL (MWe-Net)

DOCKET NO. 50-315  
UNIT ONE  
DATE 01-Dec-88  
COMPLETED BY H. Giles  
TELEPHONE 616-465-5901

MONTH NOV 88

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	906	17	896
2	904	18	894
3	906	19	897
4	903	20	898
5	891	21	896
6	893	22	897
7	897	23	860
8	895	24	0
9	896	25	30
10	896	26	331
11	897	27	757
12	897	28	897
13	896	29	899
14	897	30	899
15	896		
16	898		

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



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

December 8, 1988

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 November-1988 is submitted.

Sincerely,

*W. G. Smith, Jr.*  
W. G. Smith, Jr.  
Plant Manager

WGS/jd

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