

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9007050207      DOC. DATE: 90/05/31      NOTARIZED: NO      DOCKET #  
 FACIL: 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316  
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 RECIP. NAME      RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for May 1990 for DC Cook Nuclear Power Plant Unit 2.W/900604 ltr.

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



June 4, 1990

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
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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 May 1990 is submitted.

Respectfully,



A.A. Blind  
Plant Manager

Attachment

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N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-316  
 DATE 01-Jun-90  
 COMPLETED BY WT GILLETT  
 TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name D. C. Cook Unit 2  
 2. Reporting Period MAY, 90  
 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    | 3623.0      | 108815.0  |
| 12. No. of Hrs. Reactor Was Critical   | 744.0    | 3158.2      | 73334.2   |
| 13. Reactor Reserve Shutdown Hours   | 0.0      | 0.0         | 0.0       |
| 14. Hours Generator on Line  | 744.0    | 3146.6      | 71876.1   |
| 15. Unit Reserve Shutdown Hours  | 0.0      | 0.0         | 0.0       |
| 16. Gross Therm. Energy Gen. (MWH)   | 2165049  | 10295710    | 221173600 |
| 17. Gross Elect. Energy Gen. (MWH)   | 696910   | 3392700     | 72188810  |
| 18. Net Elect. Energy Gen. (MWH)   | 669740   | 3277544     | 69523202  |
| 19. Unit Service Factor  | 100.0    | 86.9        | 67.5      |
| 20. Unit Availability Factor   | 100.0    | 86.9        | 67.5      |
| 21. Unit Capacity Factor (MDC Net)   | 84.9     | 85.3        | 61.6      |
| 22. Unit Capacity Factor (DER Net)   | 81.8     | 82.2        | 60.0      |
| 23. Unit Forced Outage Rate  | 0.0      | 10.0        | 13.6      |
| 24. Shutdowns Scheduled over Next Six Months (Type, Date, and Duration):<br><u>Refueling outage to begin June 30, 1990 for an estimated duration of 75 days.</u> |          |             |           |
| 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 01-Jun-90  
COMPLETED BY WT GILLETT  
TELEPHONE 616-465-5901

MONTH MAY, 90

| DAY | AVERAGE DAILY<br>POWER LEVEL | DAY | AVERAGE DAILY<br>POWER LEVEL |
|-----|------------------------------|-----|------------------------------|
| 1   | 1071                         | 17  | 954                          |
| 2   | 895                          | 18  | 1081                         |
| 3   | 899                          | 19  | 1072                         |
| 4   | 901                          | 20  | 922                          |
| 5   | 844                          | 21  | 900                          |
| 6   | 813                          | 22  | 906                          |
| 7   | 816                          | 23  | 901                          |
| 8   | 893                          | 24  | 900                          |
| 9   | 901                          | 25  | 903                          |
| 10  | 906                          | 26  | 902                          |
| 11  | 899                          | 27  | 904                          |
| 12  | 907                          | 28  | 903                          |
| 13  | 913                          | 29  | 905                          |
| 14  | 873                          | 30  | 902                          |
| 15  | 770                          | 31  | 899                          |
| 16  | 650                          |     |                              |

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: May 1990

DOCKET NO: 50-316  
 UNIT NAME: D.C. COOK UNIT 2  
 DATE: June 4, 1990  
 COMPLETED BY: E.C. Schimmel  
 TELEPHONE: (616) 465-5901

| NO. | DATE    | TYPE <sup>1</sup> | DURATION<br>HOURS | REASON <sup>2</sup> | METHOD OF<br>SHUTTING<br>DOWN<br>REACTOR <sup>3</sup> | LICENSEE<br>EVENT<br>REPORT NO. | SYSTEM<br>CODE <sup>4</sup> | COMPONENT<br>CODE <sup>5</sup> | CAUSE AND CORRECTIVE ACTION TO<br>PREVENT RECURRENCE  |
|-----|---------|-------------------|-------------------|---------------------|---|---------------------------------|-----------------------------|--------------------------------|---|
| 206 | 9005501 | S                 | 0                 | F                   | 4   | N/A                             | XX                          | XXXXXX                         | Unit power was reduced to 85% starting 2304 hours on 900501 for fuel cycle extension until the beginning of the scheduled refueling outage.   |
| 207 | 900515  | F                 | 0                 | A                   | 4   | N/A                             | HH                          | PIPEXX                         | Unit power was reduced to 55% starting 1155 hours on 900515 to permit removal of the "W" main feedpump turbine from service for weld repair of an instrument piping connection. Repairs were completed and unit power was returned to 85% at 2355 on 900516. Reactor power is being maintained at 85% RTP for fuel cycle extension. |

- |   |   |   |   |  |
|---|---|---|---|--|
| <p>1<br/>                 F: Forced<br/>                 S: Scheduled</p> | <p>2<br/>                 Reason:<br/>                 A: Equipment Failure (Explain)<br/>                 B: Maintenance or Test<br/>                 C: Refueling<br/>                 D: Regulatory Restriction<br/>                 E: Operator Training and License Examination<br/>                 F: Administrative<br/>                 G: Operational Error (Explain)<br/>                 H: Other (Explain)</p> | <p>3<br/>                 Method:<br/>                 1: Manual<br/>                 2: Manual Scram<br/>                 3: Automatic Scram<br/>                 4: Other (Explain)</p> | <p>4<br/>                 Exhibit G - Instructions for preparation of data entry sheets for Licensee Event Report (LER) File (NUREG 0161)</p> | <p>5<br/>                 Exhibit I: Same Source</p> |
|---|---|---|---|--|

DOCKET NO: 50-316  
UNIT NAME: D.C. Cook Unit 2  
COMPLETED BY: E.C. Schimmel  
TELEPHONE: (616) 465-5901  
DATE: June 4, 1990  
PAGE: 1 of 1

MONTHLY OPERATING ACTIVITIES - June 1990

HIGHLIGHTS

The unit entered the reporting period at 100% Rated Thermal Power. On May 1, 1990, at 2304 hours, a power reduction to 85% Rated Thermal Power was initiated for fuel cycle extension to the scheduled beginning of the refueling outage. A power reduction was required from 0852 hours on May 5, 1990, to 0350 hours on May 8, 1990, to facilitate repairs on the middle heater drain pump. A power reduction was required from 1155 hours on May 15, 1990, to 2355 hours on May 16, 1990, for repairs on the west feedpump turbine piping. Unit power was increased to 100% Rated Thermal Power from 1605 hours on May 17, 1990, to 0640 hours on May 20, 1990, to meet system load demand. The unit exited the reporting period at 85% Rated Thermal Power.

Gross electrical generation for the month of May was 696910 MWH.

DETAILS

|          |      |  |
|----------|------|--|
| 05/01/90 | 2304 | Commenced unit power reduction to 85% RTP.                               |
| 05/02/90 | 0424 | Unit is at 85% RTP for cycle extension.                                  |
| 05/05/90 | 0852 | Commenced unit power reduction to 80% RTP.                               |
|          | 1025 | Unit is at 80% RTP to allow repairs on the middle heater drain pump.     |
| 05/08/90 | 0236 | Commenced unit power increase to 85% RTP.                                |
|          | 0350 | Unit is at 85% RTP.  |
| 05/15/90 | 1155 | Commenced unit power decrease to 55% RTP.                                |
|          | 1511 | Unit is at 55% RTP to allow repairs on the west feedpump turbine piping. |
| 05/16/90 | 1217 | Commenced unit power increase to 85% RTP.                                |
|          | 2355 | Unit is at 85% RTP.  |
| 05/17/90 | 1605 | Commenced unit power increase to 100% RTP.                               |
|          | 2335 | Unit is at 100% RTP to meet system load demand.                          |
| 05/19/90 | 2015 | Commenced unit power reduction to 85% RTP.                               |
| 05/20/90 | 0640 | Unit is at 85% RTP for cycle extension                                   |

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UNIT NAME: D.C. Cook Unit 2  
COMPLETED BY: E.C. Schimmel  
TELEPHONE: (616) 465-5901  
DATE: June 4, 1990  
PAGE: 1 of 1

MAJOR SAFETY-RELATED MAINTENANCE - May 1990

- 2-IC-1 Replaced defective bistable 2TB-411, overtemp delta T, turbine runback and block rod withdrawal.
- 2-M-1 Rebuilt the AB train emergency diesel generator fuel oil transfer pump 2-QT-106-AB1.