# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8906130242 DOC.DATE: 89/04/07 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 Mar 1989 for DC Cook Nuclear Plant.W/890407 ltr.

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TITLE: Monthly Operating Report (per Tech Specs)

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| | IRM TECH ADV | 2 | 2 | NRR/DLPQ/PEB 10 | 1 | 1 |
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| | NUDOCS-ABSTRACT | 1 | 1 | REG FILE 01 | 1 | 1 |
| | RGN3 | 1 | 1 | | | |
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RIDS/ADDS

RIDS/ADDS

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

INDIANA MICHIGAN POWER

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

April 7, 1989

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 ~~February~~ March 1989 is submitted.

Sincerely,

W. G. Smith, Jr.
Plant Manager

WGS/jd

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IE22
1/1

N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-316
DATE 03-Apr-89
COMPLETED BY H. Giles
TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name D. C. Cook Unit 2
2. Reporting Period MAR 89
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

notes

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 | 2160.0 | 98592.0 |
| 12. No. of Hrs. Reactor Was Critical | 395.4 | 395.4 | 63990.5 |
| 13. Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. Hours Generator on Line | 345.7 | 345.7 | 62555.7 |
| 15. Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. Gross Therm. Energy Gen. (MWH) | 775260 | 775260 | 190341637 |
| 17. Gross Elect. Energy Gen. (MWH) | 245880 | 245880 | 62142100 |
| 18. Net Elect. Energy Gen. (MWH) | 233812 | 233812 | 59818477 |
| 19. Unit Service Factor | 46.5 | 16.0 | 65.0 |
| 20. Unit Availability Factor | 46.5 | 16.0 | 65.0 |
| 21. Unit Capacity Factor (MDC Net) | 29.6 | 10.2 | 58.6 |
| 22. Unit Capacity Factor (DER Net) | 28.6 | 9.8 | 57.1 |
| 23. Unit Forced Outage Rate | 0.8 | 0.8 | 14.5 |

24. Shutdowns Scheduled over Next Six Months (Type,Date,and Duration):

25. If Shut Down At End of Report Period, Estimated Date of Startup:

26. Units in Test Status (Prior to Commercial Operation):

| | Forcast | Achieved |
|---|---|---|
| INITIAL CRITICALITY | | |
| INITIAL ELECTRICITY | | |
| COMMERCIAL OPERATION | | |

AVERAGE DAILY POWER LEVEL (MWe-Net)

DOCKET NO. 50-316
UNIT TWO
DATE 01-Apr-89
COMPLETED BY H. Giles
TELEPHONE 616-465-5901

MONTH MAR 89

| DAY | AVERAGE DAILY POWER LEVEL | DAY | AVERAGE DAILY POWER LEVEL |
|---|---|---|---|
| 1 | 0 | 17 | 121 |
| 2 | 0 | 18 | 298 |
| 3 | 0 | 19 | 398 |
| 4 | 0 | 20 | 459 |
| 5 | 0 | 21 | 461 |
| 6 | 0 | 22 | 456 |
| 7 | 0 | 23 | 454 |
| 8 | 0 | 24 | 160 |
| 9 | 0 | 25 | 498 |
| 10 | 0 | 26 | 933 |
| 11 | 0 | 27 | 1096 |
| 12 | 0 | 28 | 1100 |
| 13 | 0 | 29 | 1105 |
| 14 | 0 | 30 | 1110 |
| 15 | 0 | 31 | 1092 |
| 16 | 0 | | |

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH MARCH

DOCKET NO. 50-316
UNIT NAME D.C. Cook-U2
DATE April 7, 1989
COMPLETED BY T. R. Stephens
TELEPHONE (616) 465-5901

| No. | Date | Type[1] | Duration (Hours) | Reason[2] | Method of Shutting Down Reactor[3] | Licensee Event Report # | System Code[4] | Component Code[5] | Cause & Corrective Action to Prevent Recurrence |
|---|---|---|---|---|---|---|---|---|---|
| 189 | 880423 | S | 395.5 | B&C | 1 | N/A | ZZ | ZZZZZZ | The unit was removed from service on 880423 for cycle 6-7, refueling and steam generator repair project. Startup testing and low power physics testing were completed on March 17, 1989 with the unit being paralleled to the system on 1129 hours the same day. Reacto power reached 48% RTP on March 19, 1989. The total length of the SG RP outage was 7880.4 hours. |
| 190 | 89-324 | S | 2.8 | B | 1 | N/A | ZZ | ZZZZZZ | The unit was removed from service at 0955 hours to repair letdown isolation valve 2-QRV-112 with the reactor remaining critical. Following repairs and main turbine overspeed testing the unit was paralleled at 1240 hours. the same day. The reactor reached 100% RTP on March 28, 1989. |

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)

DOCKET NO: 50-316
UNIT NAME: D.C. Cook Unit 2
COMPLETED BY: T. R. Stephens
TELEPHONE: (616) 465-5901
DATE: April 7, 1989
PAGE: 1 of 3

# MONTHLY OPERATING ACTIVITIES - MARCH 1989

## HIGHLIGHTS

The unit entered the reporting period in Mode 4 with the reactor coolant system (RCS) being cooled down to repair leak on control rod drive mechanism housing for control rod located at P-6. Following repairs, the RCS was returned to Mode 3 and no load rated temperature and pressure. Cool down and depressurization was again initiated on March 10, 1989 to permit repairs of No. 1 steam generator stop valve three-way test valve, MMO-210. The RCS was again returned to Mode 3 and NO load rated temperature and pressure on March 14, 1989. Initial criticality for Cycle-11 was achieved at 1238 hours on March 15, 1989. Following completion of low power physis testing the unit was paralleled to the system at 1129 hours on March 17, 1989.

Reactor thermal power reached 48% on March 19, 1989 at 1220 hours. This power level was maintained until 2100 hours on march 23, 1989 when a power reduction was commenced to perform repairs on letdown isolation valve, 2-QRV-112. The unit was removed from parallel at 0955 hours on March 24, 1989. Following repairs to 2-QRV-112 and turbine overspeed testing the unit was paralled to the system at 1240 hours on the same day. Reactor power was gradually increased with 100% RTP being reached on March 28, 1989. The reporting period ended with a reactor power reduction, for condenser cleaning, being initiated at 2155 hours on March 31, 1989.

## DETAILS

| | | |
|---|---|---|
| 3-1-89 | 1934 | Started RCS cooldown and depressurization. |
| 3-2-89 | 0402 | RCS entered Mode 5. |
| 3-4-89 | 0125 | Started RCS heatup and pressure increase in preparation to start-up. |
| | 0850 | RCS entered Mode 4. |
| | 1930 | RCS entered Mode 3. |

| | | |
|---|---|---|
| 3-10-89 | 1630 | Began RCS cooldown and depressurization to repair 2-MMO-210. |
| | 1738 | Spurious RTP trip signal received on low-low level on #21 SG. |
| | 2043 | RCS entered Mode 4. |
| 3-13-89 | 1100 | Started RCS heatup in preparation for reactor start-up. |
| | 1704 | RCS entered Mode 3. |
| 3-14-89 | 0530 | RCS at full temp and pressure. |
| 3-15-89 | 0803 | Commenced reactor start-up. |
| | 1017 | Reactor entered Mode 2. |
| | 1238 | Rx critical. First time in Cycle 11. |
| 3-17-89 | 0325 | Reactor entered Mode 1. |
| | 1129 | Unit paralleled to system. |
| 3-19-89 | 0545 | Started power increase to 48%. |
| | 1220 | RTP at 48%. |
| 3-20-89 | 0630 | QRV-112, letdown isolation valve failed closed. |
| 3-23-89 | 2100 | Started power reduction to repair letdown isolation valve QRV-112, and perform turbine overspeed test. |
| 3-24-89 | 0940 | RTP at 8%. |
| | 0955 | Removed generator from parallel by opening A1 and A2 breakers. |
| | 1012 | Performed 110% and 112% overspeed test. |
| | 1240 | Unit paralleled to system. |
| | 1435 | Started power increase at 6%/hr to 48% then 2%/hr to 68% power. |
| 3-25-89 | 1945 | RTP power at 68% for Chemistry hold. |
| 3-26-89 | 0027 | Increasing RTP to 90%. |
| | 1045 | RTP power at 90%. |
| | 1700 | Increasing RTP to 99%. |

| | | |
|---|---|---|
| 3-27-89 | 0005 | RTP power at 99%. |
| 3-28-89 | 1620 | Increasing power to 100% RTP. |
| | 1826 | RTP at 100%. |
| 3-31-89 | 2155 | Started power reduction to 90%. Reactor power being reduced for condenser cleaning. |

| | |
|---|---|
| DOCKET NO. | 50-316 |
| UNIT NAME | D.C.Cook-Unit No. 2 |
| DATE | April 7, 1989 |
| COMPLETED BY | T. R. Stephens |
| TELEPHONE | (616) 465-5901 |
| PAGE | 1 of 1 |

## MAJOR SAFETY-RELATED MAINTENANCE

## MARCH 1989

2-M-1 Replaced the governor valve stem and the mechanical overspeed tappet assembly on the turbine driven Aux. feedpump.

2-M-2 Aligned 2-MMO-210 for proper flow path.