

ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9110160143 DOC.DATE: 91/09/30 NOTARIZED: NO DOCKET #
 FACIL:50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana M 05000316
 AUTH.NAME AUTHOR AFFILIATION
 GILLET, W.T. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele
 BLIND, A.A. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for Sept 1991 for DC Cook Nuclear
 Plant, Unit 2.W/911003 ltr.

DISTRIBUTION CODE: IE24D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 6
 TITLE: Monthly Operating Report (per Tech Specs)

NOTES:

| | RECIPIENT | | COPIES | | |
|-----------|-----------------|------|--------|---------------|-----|
| | ID CODE/NAME | LTTR | ENCL | | |
| | PD3-1 LA | 3 | 3 | | |
| | COLBURN, T. | 1 | 1 | | |
| INTERNAL: | AEOD/DOA | 1 | 1 | AEOD/DSP/TPAB | 1 1 |
| | NRR/DLEQ/LPEB10 | 1 | 1 | NRR/DOEA/OEAB | 1 1 |
| | REG (FILE 3) 01 | 1 | 1 | RGN3 | 1 1 |
| EXTERNAL: | EG&G BRYCE, J.H | 1 | 1 | NRC PDR | 1 1 |
| | NSIC | 1 | 1 | | |

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK,
 ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION
 LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTTR 14 ENCL 14

R
I
D
S
/
A
D
D
S

R
I
D
S
/
A
D
D
S

Indiana Michigan
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 2 Technical Specification 6.9.1.10, the attached Monthly
Operating Report for the month of September 1991 is submitted.

Respectfully,

A. Alan Blind
A.A. Blind
Plant Manager

Attachment

c: NRC Region III
D.R. Hahn
R.C. Callen
S. Hamming
J.G. Keppler
INPO Records Center
ANI Nuclear Engineering Department
D.H. Williams, Jr.
E.E. Fitzpatrick
W.R. Moran
J.J. Markowsky
D.A. Timberlake
D.W. Paul
T.O. Argenta
S.H. Steinhart
J.L. Leichner
J.A. Isom
W.T. Gillett
E.A. Smarrella
J.C. Krieger
B.A. Svensson
D.F. Krause
E.C. Schimmel

9110160143 910930
PDR ADOCK 05000316
R PDR

FE24

N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-316
DATE 01-Oct-91
COMPLETED BY WT GILLET
TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name D. C. Cook Unit 2
2. Reporting Period SEP.91
3. Licensed Thermal Power (MWt) 3411
4. Name Plate Rating (Gross MWe) 1133
5. Design Electrical Rating (Net MWe) 1090
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 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 | 120503.0 |
| 12. No. of Hrs. Reactor Was Critical | 720.0 | 5956.8 | 81091.7 |
| 13. Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. Hours Generator on Line | 720.0 | 5934.8 | 79520.7 |
| 15. Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. Gross Therm. Energy Gen. (MWH) | 2357045 | 19621447 | 245788500 |
| 17. Gross Elect. Energy Gen. (MWH) | 730940 | 6272310 | 80059150 |
| 18. Net Elect. Energy Gen. (MWH) | 704228 | 6052648 | 77111615 |
| 19. Unit Service Factor | 100.0 | 90.6 | 67.3 |
| 20. Unit Availability Factor | 100.0 | 90.6 | 67.3 |
| 21. Unit Capacity Factor (MDC Net) | 92.3 | 87.2 | 61.6 |
| 22. Unit Capacity Factor (DER Net) | 89.7 | 84.2 | 59.9 |
| 23. Unit Forced Outage Rate | 0.0 | 9.4 | 13.3 |

24. Shutdowns Scheduled over Next Six Months (Type, Date, and Duration):
Refueling outage to begin 920209 for an estimated duration of 90 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 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 | 1010 | 17 | 1025 |
| 2 | 1006 | 18 | 1018 |
| 3 | 1009 | 19 | 1023 |
| 4 | 994 | 20 | 1013 |
| 5 | 998 | 21 | 1007 |
| 6 | 999 | 22 | 1018 |
| 7 | 997 | 23 | 1014 |
| 8 | 988 | 24 | 1008 |
| 9 | 990 | 25 | 1018 |
| 10 | 992 | 26 | 1017 |
| 11 | 997 | 27 | 1012 |
| 12 | 986 | 28 | 1006 |
| 13 | 527 | 29 | 1018 |
| 14 | 587 | 30 | 1024 |
| 15 | 1015 | | |
| 16 | 1024 | | |

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: September 1991

DOCKET NO: 50-316
UNIT NAME: D.C. COOK UNIT 2
DATE: October 3, 1991
COMPLETED BY: E.C. Schimmel
TELEPHONE: (616) 465-5901

| NO. | DATE | TYPE ¹ | DURATION HOURS | REASON ² | METHOD OF SHUTTING DOWN REACTOR ³ | LICENSEE EVENT REPORT NO. | SYSTEM CODE ⁴ | COMPONENT CODE ⁵ | CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE |
|-----|--------|-------------------|-------------------|---------------------|---|---------------------------------|-----------------------------|--------------------------------|---|
| 218 | 910912 | S | N/A | B | N/A | N/A | WA | ZZZZZZ | Unit power was reduced to 55% RTP beginning 2200 hours on 910912 to allow removal of two circulating water pumps for addition of zebra mussel biocide. Unit power was restored to 100% RTP at 0525 hours on 910914. |

| | | | | |
|---------------------------|--|---|---|------------------------|
| 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: 50-316
UNIT NAME: D.C. Cook Unit 2
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 97.5% RTP. Minor power adjustments were made throughout the reporting period in order to maintain total heat discharged to Lake Michigan within NPDES permit limits. Unit power was reduced to 55% RTP starting 2200 hours on 910912 to allow removal of two circulating water pumps for addition of zebra mussel biocide. Unit power was restored to 100% RTP at 0525 hours on 910914. Unit power was reduced to 92% RTP beginning 2115 hours on 910927 for main turbine control valve testing. Unit power was restored to 98.9% RTP at 0717 hours on 910928. The unit exited the reporting period at 99% RTP.

Gross electrical generation for the month of September was 730940 MWH.

DETAILS

| | | |
|----------|------|--|
| 09/12/91 | 2200 | Commenced unit power reduction to 55% RTP. |
| 09/13/91 | 0250 | The unit is at 55% RTP to remove two circulating water pumps from service for application of molluscicide. |
| 09/14/91 | 1715 | Commenced unit power increase to 100% RTP. |
| 09/15/91 | 1948 | Unit power is at 100% RTP. |
| 09/27/91 | 2115 | Commenced unit power reduction to 92% RTP. |
| | 2219 | The unit is at 92% RTP for main turbine control valve testing. |
| 09/28/91 | 0108 | Commenced unit power increase to 98.9% RTP. |
| | 0717 | The unit is at 98.9% RTP. |

DOCKET NO: 50-316
UNIT NAME: D.C. Cook Unit 2
COMPLETED BY: E.C. Schimmel
TELEPHONE: (616) 465-5901
DATE: October 3, 1991
PAGE: 1 of 1

MAJOR SAFETY-RELATED MAINTENANCE - September 1991

2-M-1 The turbine Driven Auxiliary Feedwater Pump (TDAFP), 2-PP-4, rolled up to 1000 RPM and stopped during surveillance testing, due to a malfunction of its speed governor. The defective governor was replaced and the pump successfully passed surveillance testing.

