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ACCESSION NBR:9007050211 DOC.DATE: 90/05/31 NOTARIZED: NO DOCKET #
FACIL:50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana & 05000315
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RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for May 1990 for DC Cook Nuclear
Plant Unit 1.W/900604 ltr.

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TITLE: Monthly Operating Report (per Tech Specs)

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| | IRM TECH ADV | 2 2 | NRR/DLEO/LPEB10 | 1 1 |
| | NRR/DOEA/OEAB11 | 1 1 | <u>REG FILE</u> 01 | 1 1 |
| | RGN3 | 1 1 | | |
| EXTERNAL: | EG&G STUART,V.A | 1 1 | LPDR | 1 1 |
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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
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 May 1990 is submitted.

Respectfully,

A. Alan Blind
A.A. Blind
Plant Manager

Attachment

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11

N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-315

DATE 01-Jun-90

COMPLETED BY WT GILLETT

TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name D. C. Cook Unit 1
 2. Reporting Period MAY, 90
 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 _____

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 | 135119.0 |
| 12. No. of Hrs. Reactor Was Critical | 744.0 | 3560.2 | 100002.4 |
| 13. Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 463.0 |
| 14. Hours Generator on Line | 744.0 | 3555.3 | 98244.3 |
| 15. Unit Reserve Shutdown Hours | 0.0 | 0.0 | 321.0 |
| 16. Gross Therm. Energy Gen. (MWH) | 1680760 | 10653178 | 285541197 |
| 17. Gross Elect. Energy Gen. (MWH) | 530390 | 3447790 | 93020020 |
| 18. Net Elect. Energy Gen. (MWH) | 503390 | 3317027 | 89448855 |
| 19. Unit Service Factor | 100.0 | 98.1 | 73.8 |
| 20. Unit Availability Factor | 100.0 | 98.1 | 73.8 |
| 21. Unit Capacity Factor (MDC Net) | 66.3 | 89.8 | 65.9 |
| 22. Unit Capacity Factor (DER Net) | 65.7 | 88.9 | 64.0 |
| 23. Unit Forced Outage Rate | 0.0 | 0.0 | 7.3 |
| 24. Shutdowns Scheduled over Next Six Months (Type, Date, and Duration): | | | |
| Refueling outage to begin October 13, 1990 for an estimated duration of 75 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

AVERAGE DAILY POWER LEVEL (MWe-Net)

DOCKET NO. 50-315
 UNIT ONE
 DATE 01-Jun-90
 COMPLETED BY WT GILLET
 TELEPHONE 616-465-5901

MONTH MAY, 90

| DAY | AVERAGE DAILY POWER LEVEL | DAY | AVERAGE DAILY POWER LEVEL |
|-----|------------------------------|-----|------------------------------|
| 1 | 684 | 17 | 734 |
| 2 | 685 | 18 | 1005 |
| 3 | 686 | 19 | 1003 |
| 4 | 686 | 20 | 701 |
| 5 | 687 | 21 | 689 |
| 6 | 686 | 22 | 689 |
| 7 | 688 | 23 | 688 |
| 8 | 687 | 24 | 611 |
| 9 | 324 | 25 | 587 |
| 10 | 516 | 26 | 587 |
| 11 | 685 | 27 | 587 |
| 12 | 689 | 28 | 588 |
| 13 | 691 | 29 | 677 |
| 14 | 691 | 30 | 685 |
| 15 | 688 | 31 | 686 |
| 16 | 689 | | |

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: May 1990

DOCKET NO: 50-315
 UNIT NAME: D.C. COOK UNIT 1
 DATE: June 4, 1990
 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 |
|-----|--------|-------------------|-------------------|---------------------|---|---------------------------------|-----------------------------|--------------------------------|---|
| 286 | 900508 | F | 0 | G | 4 | 90-004 | SA | XXXXXX | Unit power was reduced to 8% starting 0516 hours on 900508 to allow lower containment access to close ice condenser lower inlet doors opened by an inadvertent manual start of 1-CBQ-1, containment air recirculation fan. Unit power was restored to 70.5% at 2058 hours on 900510. Unit power was increased to 100% starting 1605 hours on 900517 to meet system load demand. |
| 287 | 900519 | S | 0 | F | 4 | N/A | ZZ | ZZZZZZ | Unit power was reduced to 70% starting 2320 hours on 900519 for fuel cycle extension until the beginning of the scheduled refueling outage. |

1

F: Forced
 S: Scheduled

2

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)

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)

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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: June 4, 1990
PAGE: 1 of 2

MONTHLY OPERATING ACTIVITIES - May 1990

HIGHLIGHTS

The unit entered the reporting period at 70% Rated Thermal Power. A power reduction was required from 0516 hours on May 5, 1990, to 2058 hours on May 10, 1990, to allow lower containment access for shutting ice condenser lower inlet doors which were opened by an inadvertent manual start of the containment air recirculation fan, 1-CEQ-1. Unit power was increased to 100% Rated Thermal Power from 1605 hours on May 17, 1990 to 0349 hours on May 20, 1990, to meet system load demand.

At 0315 on May 24, 1990, an Emergency Plan Unusual Event was declared due to a fire/explosion in the Unit 1 345KV switchyard breaker "L" which deenergized Bus 2 in both Unit 1 and Unit 2 765KV switchyard. Power was reduced to 62% RTP (600 MWe) to permit removal of breaker K1 from service due to insulator damage and an oil leak on phase 1 current bushing transformer. An "Alert" was declared at 0616 due to the explosion damage and the required power reduction. The "Alert" condition was exited at 1138 after the restoration of both switchyard's Bus 2.

The unit remained at 62% power until 0145 on May 28, 1990, at the System's request. Unit power was raised to 70.5% RTP by 0515 the same day. The unit exited the reporting period at 70.5% RTP.

Gross electrical generation for the month of May was 530390 MWH.

DETAILS

| | | |
|----------|------|--|
| 05/08/90 | 0516 | Commenced unit power reduction to 8% RTP. |
| | 1125 | Unit is at 8% RTP to allow closing of the ice condenser lower inlet doors. |
| 05/09/90 | 1310 | Commenced unit power increase to 49% RTP. |
| 05/10/90 | 0015 | Reactor power held at 49% RTP for quadrant power tilt ratio. |
| | 0545 | Commenced unit power increase to 70.5% RTP. |
| 05/10/90 | 2058 | Unit is at 70.5% RTP. |
| 05/17/90 | 1605 | Commenced unit power increase to 100% RTP. |

DOCKET NO: 50-315
UNIT NAME: D.C. Cook Unit 1
COMPLETED BY: E.C. Schimmel
TELEPHONE: (616) 465-5901
DATE: June 4, 1990
PAGE: 2 of 2

MONTHLY OPERATING ACTIVITIES - May 1990

| | | |
|----------|------|--|
| 05/18/90 | 0431 | Unit is at 100% RTP to meet system load demand. |
| 05/24/90 | 0315 | Emergency Plan Unusual Event declared due to fire/explosion in Unit 1 345KV switchyard breaker "L". |
| | 0559 | Switchyard fire reported extinguished. |
| | 0601 | Commenced unit power reduction to 62% RTP to permit removal of switchyard breaker "K1" from service due to insulator damage and oil leak on phase 1 bushing current transformer. |
| | 0616 | An "Alert" was declared due to the explosion damage and required power reduction. |
| | 0635 | Unit is at 62% RTP. |
| | 1135 | Removed K1 breaker from service for repair. |
| | 1138 | Exited Emergency Plan "Alert" condition after restoration of 345KV Bus 2. |
| 05/28/90 | 0145 | Commenced unit power increase to 70.5% RTP. |
| 05/28/90 | 0518 | Unit is at 70.5% RTP. |

DOCKET NO: 50-315
UNIT NAME: D.C. Cook Unit 1
COMPLETED BY: E.C. Schimmel
TELEPHONE: (616) 465-5901
DATE: June 4, 1990
PAGE: 1 of 1

MAJOR SAFETY-RELATED MAINTENANCE - MAY 1990

- 1-IC-1 Replaced defective flow transmitter on outlet of the East Residual Heat Removal Heat Exchanger.
- 1-IC-2 Replaced defective discharge pressure transmitter on East Motor Driven Auxiliary Feedpump.