

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

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SUBJECT: Monthly operating rept for Oct 1992 for D.C. Cook Unit 1.  
W/921106 ltr.

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



INDIANA  
MICHIGAN  
POWER

November 6, 1992

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 1 Technical Specification 6.9.1.10, the attached Monthly  
Operating Report for the month of October 1992 is submitted.

Respectfully,

*A. Alan Blind*

A.A. Blind  
Plant Manager

Attachment

c: NRC Region III  
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*Handwritten initials/signature*

N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-315  
 DATE 11-Nov-92  
 COMPLETED BY DG Turner  
 TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name D. C. Cook Unit 1  
 2. Reporting Period October 92  
 3. Licensed Thermal Power (MWt) 3250  
 4. Name Plate Rating (Gross MWe) 1152  
 5. Design Electrical Rating (Net MWe) 1020  
 6. Maximum Dependable Capacity (GROSS MWe) 1056  
 7. Maximum Dependable Capacity (Net MWe) 1000  
 8. If Changes Occur in Capacity Ratings (Items no. 3 through 7) Since Last Report Give Reasons \_\_\_\_\_

|        |
|--------|
| notes  |
| Rev. 1 |

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  | 745.0    | 7321.0      | 156337.0  |
| 12. No. of Hrs. Reactor Was Critical   | 132.2    | 4289.1      | 115430.4  |
| 13. Reactor Reserve Shutdown Hours   | 0.0      | 0.0         | 463.0     |
| 14. Hours Generator on Line  | 71.9     | 4228.8      | 113384.6  |
| 15. Unit Reserve Shutdown Hours  | 0.0      | 0.0         | 321.0     |
| 16. Gross Therm. Energy Gen. (MWH)   | 79724    | 11809652    | 330994342 |
| 17. Gross Elect. Energy Gen. (MWH)   | 17930    | 3764460     | 107510220 |
| 18. Net Elect. Energy Gen. (MWH)   | 15477    | 3610964     | 103382673 |
| 19. Unit Service Factor  | 9.7      | 57.8        | 73.5      |
| 20. Unit Availability Factor   | 9.7      | 57.8        | 73.5      |
| 21. Unit Capacity Factor (MDC Net)   | 2.1      | 49.3        | 65.7      |
| 22. Unit Capacity Factor (DER Net)   | 2.0      | 48.3        | 64.0      |
| 23. Unit Forced Outage Rate  | 0.0      | 0.0         | 6.6       |
| 24. Shutdowns Scheduled over Next Six Months (Type, Date, and Duration):<br>None |          |             |           |

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 03-Nov-92  
COMPLETED BY DG Turner  
TELEPHONE 616-465-5901

MONTH October 92

| DAY | AVERAGE DAILY<br>POWER LEVEL | DAY | AVERAGE DAILY<br>POWER LEVEL |
|-----|------------------------------|-----|------------------------------|
| 1   | 0                            | 17  | 0                            |
| 2   | 0                            | 18  | 0                            |
| 3   | 0                            | 19  | 0                            |
| 4   | 0                            | 20  | 0                            |
| 5   | 0                            | 21  | 0                            |
| 6   | 0                            | 22  | 0                            |
| 7   | 0                            | 23  | 0                            |
| 8   | 0                            | 24  | 0                            |
| 9   | 0                            | 25  | 0                            |
| 10  | 0                            | 26  | 0                            |
| 11  | 0                            | 27  | 0                            |
| 12  | 0                            | 28  | 2                            |
| 13  | 0                            | 29  | 137                          |
| 14  | 0                            | 30  | 160                          |
| 15  | 0                            | 31  | 346                          |
| 16  | 0                            |     |                              |

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: October 1992

UNIT NAME: D.C. COOK UNIT 1  
 DATE: November 4, 1992  
 COMPLETED BY: G.J. Costello  
 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  |
|---------------|--------|-------------------|-------------------|---------------------|---|---------------------------------|-----------------------------|--------------------------------|---|
| 301<br>Cont'd | 920622 | S                 | 650.1             | B/C                 | 1   | N/A                             | N/A                         | N/A                            | The unit was removed from service on 920692 at 0443 hours EDT for the cycle 12 to 13 refueling/maintenance outage. All refueling and maintenance activities have been completed and the turbine generator was paralleled to the grid on 921028 at 0105 hours. Total length of the outage was 3,069.4 hours.                                     |
| 302           | 921028 | F                 | 20.8              | H                   | 3   | LER 92-12                       | JC                          | DET                            | During the initial power escalation, with the reactor power at 16%, a turbine trip followed by a reactor trip occurred at 0253 hours on 921028. The turbine trip was caused by the turbine thrust bearing wear detection device being out of adjustment. Following adjustments and testing, the unit was paralleled at 2342 hours the same day. |

- |   |   |   |   |  |
|---|---|---|---|--|
| <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> |
|---|---|---|---|--|

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: October 1992

UNIT NAME: D.C. COOK UNIT 1  
 DATE: November 4, 1992  
 COMPLETED BY: G.J. Costello  
 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  |
|----------------|--------|-------------------|-------------------|---------------------|---|---------------------------------|-----------------------------|--------------------------------|---|
| October Cont'd |        |                   |                   |                     |   |                                 |                             |                                |   |
| 303            | 921029 | S                 | 2.2               | B                   | 1   | N/A                             | N/A                         | N/A                            | The turbine generator was removed from parallel to perform turbine overspeed testing. The testing was successfully completed and the unit was reparalleled to the grid at 0036 hours on 921030. |

- |  |   |   |   |  |
|--|---|---|---|--|
| <p><sup>1</sup><br/>F: Forced<br/>S: Scheduled</p> | <p><sup>2</sup><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><sup>3</sup><br/>Method:<br/>1: Manual<br/>2: Manual Scram<br/>3: Automatic Scram<br/>4: Other (Explain)</p> | <p><sup>4</sup><br/>Exhibit G - Instructions for preparation of data entry sheets for Licensee Event Report (LER) File (NUREG 0161)</p> | <p><sup>5</sup><br/>Exhibit I: Same Source</p> |
|--|---|---|---|--|

DOCKET NO: 50-315  
UNIT NAME: D.C. Cook Unit 1  
COMPLETED BY: G.J. Costello  
TELEPHONE: (616) 465-5901  
DATE: November 4, 1992  
PAGE: 1 of 2

MONTHLY OPERATING ACTIVITIES - OCTOBER 1992

HIGHLIGHTS

The unit entered the reporting period in Mode 5, cold shutdown. The reactor was taken critical on October 25, 1992 at 2140 for the first time in cycle 13. Low power physics testing was completed October 26, 1992 at 1605. The first entry into Mode 1 was made on October 27, 1992 at 0327.

The turbine generator was paralleled to the grid on October 28, 1992 at 0105. During the subsequent power increase at about 16% RTP, a turbine trip occurred followed by a reactor trip from the turbine trip. The turbine trip was caused by the turbine thrust bearing wear detection device being out of adjustment.

The reactor was taken critical on October 28, 1992 at 1657, and Mode 1 was entered at 2042 followed by the parallel to the grid at 2342 the same day. Reactor power was increased to 28% RTP and then reduced to remove the main turbine from service for overspeed testing. Following the overspeed testing, the turbine generator was paralleled to the grid on October 30, 1992 at 0036 and a power increase was commenced per the power ascension program.

The unit exited this reporting period in Mode 1 at 48% RTP.

There were no challenges to the pressurizer safety valves or power operated relief valves.

Gross electrical generation for the month of October was 17930 MWH.

DETAILS

|          |      |   |
|----------|------|---|
| 10-11-92 | 1640 | Commenced RCS heatup.                             |
|          | 1705 | The RCS is in Mode 4.                             |
| 10-17-92 | 0517 | The RCS is in Mode 3.                             |
| 10-24-92 | 0947 | RCS is at no-load rated pressure and temperature. |
| 10-25-92 | 2032 | The reactor is in Mode 2.                         |
|          | 2140 | The reactor is critical - first time in cycle 13. |
| 10-26-92 | 1605 | Low power physics testing is complete.            |



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