

N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-315
 DATE 4/2/85
 COMPLETED BY CLIMER
 TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name D. C. Cook Unit 1 -----
 2. Reporting Period Mar 1985 (notes) |
 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 -----

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	89832.0
12. No. of Hrs. Reactor Was Critical	744.0	1745.6	67439.4
13. Reactor Reserve Shutdown Hours	0.0	0.0	463.0
14. Hours Generator on Line	744.0	1733.8	66095.3
15. Unit Reserve Shutdown Hours	0.0	0.0	321.0
16. Gross Therm. Energy Gen. (MWH)	2301237	5076754	194858327
17. Gross Elect. Energy Gen. (MWH)	752060	1649810	63421700
18. Net Elect. Energy Gen. (MWH)	724986	1587338	61018433
19. Unit Service Factor	100.0	80.3	75.4
20. Unit Availability Factor	100.0	80.3	75.4
21. Unit Capacity Factor (MDC Net)	95.5	72.0	68.2
22. Unit Capacity Factor (DER Net)	94.6	71.3	65.6
23. Unit Forced Outage Rate	0.0	0.0	7.3

24. Shutdowns Scheduled over Next Six Months (Type, Date, and Duration):
Refueling and 10 year surveillance outage scheduled to begin 4/5/85.
Expected duration approximately 100 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

8506070637 850331
 PDR ADOCK 05000315
 R PDR

IE24
 41

AVERAGE DAILY POWER LEVEL (MWe-Net)

DOCKET NO. 50-315
 UNIT ONE
 DATE 4/2/85
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 TELEPHONE 616-465-5901

MONTH Mar 1985

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1024	17	1025
2	1024	18	1028
3	1016	19	1026
4	1025	20	1020
5	1022	21	1021
6	1022	22	1022
7	1025	23	990
8	973	24	1028
9	560	25	1025
10	821	26	1029
11	1026	27	1007
12	1025	28	967
13	1027	29	946
14	1022	30	941
15	935	31	941
16	643		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March, 1985

DOCKET NO. 50-315
 UNIT NAME D.C. Cook Unit 1
 DATE 4-5-85
 COMPLETED BY B.A. Svensson
 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
244	850308	F	0	B	4	N.A.	HH	HTEXCH	Reactor power was reduced to 55% to permit removing one main feed pump from service to check the feed pump turbine condensers for tube leaks. 12 tubes were plugged in the east feed pump turbine condenser. No leaks were found in the west feed pump turbine condenser. Reactor power was returned to 100% on 850310.
245	850315	F	0	B	4	N.A.	HH	HTEXCH	Reactor power was reduced to 55% to permit removing one main feed pump from service to check the feed pump turbine condensers for tube leaks. No leaks were identified in either condenser. Reactor power was returned to 100% on 850317.

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)

UNIT SHUTDOWNS AND POWER REDUCTIONS

INSTRUCTIONS

This report should describe all plant shutdowns during the report period. In addition, it should be the source of explanation of significant dips in average power levels. Each significant reduction in power level (greater than 20% reduction in average daily power level for the preceding 24 hours) should be noted, even though the unit may not have been shut down completely¹. For such reductions in power level, the duration should be listed as zero, the method of reduction should be listed as 4 (Other), and the Cause and Corrective Action to Prevent Recurrence column should explain. The Cause and Corrective Action to Prevent Recurrence column should be used to provide any needed explanation to fully describe the circumstances of the outage or power reduction.

NUMBER. This column should indicate the sequential number assigned to each shutdown or significant reduction in power for that calendar year. When a shutdown or significant power reduction begins in one report period and ends in another, an entry should be made for both report periods to be sure all shutdowns or significant power reductions are reported. Until a unit has achieved its first power generation, no number should be assigned to each entry.

DATE. This column should indicate the date of the start of each shutdown or significant power reduction. Report as year, month, and day. August 14, 1977 would be reported as 770814. When a shutdown or significant power reduction begins in one report period and ends in another, an entry should be made for both report periods to be sure all shutdowns or significant power reductions are reported.

TYPE. Use "F" or "S" to indicate either "Forced" or "Scheduled," respectively, for each shutdown or significant power reduction. Forced shutdowns include those required to be initiated by no later than the weekend following discovery of an off-normal condition. It is recognized that some judgment is required in categorizing shutdowns in this way. In general, a forced shutdown is one that would not have been completed in the absence of the condition for which corrective action was taken.

DURATION. Self-explanatory. When a shutdown extends beyond the end of a report period, count only the time to the end of the report period and pick up the ensuing down time in the following report periods. Report duration of outages rounded to the nearest tenth of an hour to facilitate summation. The sum of the total outage hours plus the hours the generator was on line should equal the gross hours in the reporting period.

REASON. Categorize by letter designation in accordance with the table appearing on the report form. If category H must be used, supply brief comments.

METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER. Categorize by number designation

¹Note that this differs from the Edison Electric Institute (EEI) definitions of "Forced Partial Outage" and "Scheduled Partial Outage." For these terms, EEI uses a change of 30 MW as the break point. For larger power reactors, 30 MW is too small a change to warrant explanation.

in accordance with the table appearing on the report form. If category 4 must be used, supply brief comments.

LICENSEE EVENT REPORT #. Reference the applicable reportable occurrence pertaining to the outage or power reduction. Enter the first four parts (event year, sequential report number, occurrence code and report type) of the five part designation as described in Item 17 of Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161). This information may not be immediately evident for all such shutdowns, of course, since further investigation may be required to ascertain whether or not a reportable occurrence was involved.) If the outage or power reduction will not result in a reportable occurrence, the positive indication of this lack of correlation should be noted as not applicable (N/A).

SYSTEM CODE. The system in which the outage or power reduction originated should be noted by the two digit code of Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161).

Systems that do not fit any existing code should be designated XX. The code ZZ should be used for those events where a system is not applicable.

COMPONENT CODE. Select the most appropriate component from Exhibit I - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161), using the following criteria:

- If a component failed, use the component directly involved.
- If not a component failure, use the related component: e.g., wrong valve operated through error; list valve as component.
- If a chain of failures occurs, the first component to malfunction should be listed. The sequence of events, including the other components which fail, should be described under the Cause and Corrective Action to Prevent Recurrence column.

Components that do not fit any existing code should be designated XXXXXX. The code ZZZZZZ should be used for events where a component designation is not applicable.

CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE. Use the column in a narrative fashion to amplify or explain the circumstances of the shutdown or power reduction. The column should include the specific cause for each shutdown or significant power reduction and the immediate and contemplated long term corrective action taken, if appropriate. This column should also be used for a description of the major safety related corrective maintenance performed during the outage or power reduction including an identification of the critical activity and a report of any single release of radioactivity or single radiation exposure specifically associated with the outage which accounts for more than 10 percent of the allowable annual values.

For long textual reports continue narrative on separate paper and reference the shutdown or power reduction for this narrative.

Docket No.: 50-315
Unit Name: D.C. Cook Unit 1
Completed By: D. A. Bruck
Telephone: (616) 465-5901
Date: April 3, 1985
Page: 1 of 2

MONTHLY OPERATING ACTIVITIES - March, 1985

HIGHLIGHTS:

The reporting period began and ended with the Unit in Mode 1 at 100% rated thermal power. The Unit operated continuously throughout the reporting period with one major power reduction occurring to remove the West Main Feed Pump Condenser from service for tube leak checks. The Unit ended the reporting period at 92% rated thermal power.

Total electrical generation for the month was 752,060 MWH.

Summary:

- 3-02-85 At 0501, the Engineered Safety Features Ventilation fan, 1-HV-AES-1, was inoperable when the motor failed. The fan was returned to service at 2110 on 3-02-85.
- 3-07-85 At 0325, the West Component Cooling Water Pump was declared inoperable when sparkes were observed coming from the motor during performance of the monthly surveillance test. The pump was returned to service at 1408 on 3-07-85.
- 3-08-85 At 1504, a power decrease to 55% was begun to remove the East Main Feed Pump Condenser from service.
- 3-09-85 At 0640, the Unit reached 55% power.
At 1006, the East pump was returned to service and the West pump removed from service.
At 1729, the West pump was returned to service and the East pump was removed from service.
At 2236, the East pump was returned to service.
- 3-10-85 At 0035, a power increase began.
At 0340, because the Control Room Pressurization System fresh air makeup was in excess of plant design, a power decrease begun (power was at 69%).
At 0630, the fresh air makeup was within design and the power decrease was stopped (64%) and a power increase was begun.
At 1715, power reached 100%.
- 3-15-85 At 1105, a power decrease to 55% was begun to remove the West Main Feed Pump Condenser from service.

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Unit Name: D.C. Cook Unit 1
Completed By: D. A. Bruck
Telephone: (616) 465-5901
Date: April 3, 1985
Page: 2 of 2

- 3-16-85 At 0355, the Unit reached 55% power.
At 0956, the West pump was returned to service and the East pump was removed from service.
At 1410, the East pump was returned to service and at 1432, a power increase began.
- 3-17-85 At 0021, power reached 100%.
At 0501, after placing the load changer in service for control valve testing a load increase of 35 MWe occurred. The recovery action resulted in a final power of 98%.
At 0527, a power increase began reaching 100% at 0719.
- 3-22-85 At 2250, a power decrease was begun due to level one oxygen in the condensate.
- 3-23-85 At 1150, with power at 91.4%, the power decrease stopped because oxygen levels were within limits.
At 1205, a power increase began reaching 100% power at 1650.
- 3-27-85 At 0910, a power decrease to 80% was begun as an interim measure pending an analysis of the impact of various axial power shapes that could occur during cycle 8.
At 1735, power was adjusted to 94% per the direction of the Nuclear Section.
- 3-28-85 At 1830, power was adjusted to 92% per the direction of the Nuclear Section.
- 3-31-85 At 0355, Because of a trailer fire within the protected area, an Unusal Event was declared.
At 0405, the fire was out and the Unusal Event terminated.

The Control Room Cable Vault Halon System remains inoperable as of 1400 hours on 4-05-83. The backup CO₂ System for the Control Room Cable Vault remains operable.

DOCKET NO.	<u>50 - 315</u>
UNIT NAME	<u>D. C. Cook - Unit No. 1</u>
DATE	<u>4-5-85</u>
COMPLETED BY	<u>B. A. Svensson</u>
TELEPHONE	<u>(616) 465-5901</u>
PAGE	<u>1 of 1</u>

MAJOR SAFETY-RELATED MAINTENANCE

MARCH, 1985

- M-1 Replaced worn indicator drive gears on FMO-212 (M. D. Auxiliary feed pump to #1 S/G) operator. Stroked valve to verify local position indicator tracking with valve position.
- M-2 Replaced #3 S/G blowdown isolation valve, DCR-330. Retesting was performed to verify valve operability.



INDIANA & MICHIGAN ELECTRIC COMPANY

Donald C. Cook Nuclear Plant
P.O. Box 458, Bridgman, Michigan 49106

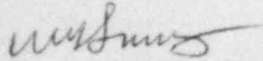
April 5, 1985

Director, Office Of Management Information
and Program Control
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Gentlemen:

Pursuant to the requirements of Donald C. Cook Nuclear Plant Unit 1
Technical Specification 6.9.1.6, the attached Monthly Operating
Report for the Month of March, 1985 is submitted.

Sincerely,


W. G. Smith, Jr.
Plant Manager

WGS:ab

Attachments

cc: J. E. Dolan
M. P. Alexich
R. W. Jurgensen
NRC Region III
B. L. Jorgensen
R. O. Bruggee
R. C. Callen
S. J. Mierzwa
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ANI Nuclear Engineering Department

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