

D 05/19/78

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)
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50-315

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NRC

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IN & MI PWR

DOCDATE: 05/15/78
DATE RCVD: 05/19/78

DOCTYPE: LETTER NOTARIZED: NO

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SUBJECT:

LTR 1 ENCL 1

FORWARDING SUBJECT FACILITY'S MONTHLY OPERATING REPT FOR THE MONTH OF APRIL,
1978.

PLANT NAME: COOK - UNIT 1

REVIEWER INITIAL: XJM

DISTRIBUTOR INITIAL: *ml*

***** DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS *****

NOTES:

I & E - 3 CYS ALL MATERIAL

MONTHLY OPERATING REPORT FOR GRAY BOOK PREPARATION.
(DISTRIBUTION CODE A003)

FOR ACTION: BR CHIEF SCHWENCER**W/2 ENCL

INTERNAL: REG FILE**W/ENCL
MIPC FOR ACTION**W/2 ENCL

NRC PDR**W/ENCL

EXTERNAL: LPDR'S
ST. JOSEPH, MI**W/ENCL
TIC**W/ENCL
NSIC**W/ENCL
BNL(NATLAB)**W/ENCL
ACRS CAT B**W/O ENCL

DISTRIBUTION: LTR 10 ENCL 10
SIZE: 1P+6P

CONTROL NBR: 781390040

MR 60

***** THE END *****



INDIANA & MICHIGAN POWER COMPANY

DONALD C. COOK NUCLEAR PLANT
P.O. Box 458, Bridgman, Michigan 49106

LABORATORY DOCKET FILE COPY

May 15, 1978

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 April, 1978 is submitted.

Sincerely,

D. V. Shaller
Plant Manager

DVS:ab

Attachment

cc: R. W. Jurgensen
NRC Region III
K. R. Baker
R. C. Callen
R. Walsh
S. J. Mierzwa
J. E. Dolan
R. J. Vollen
G. E. Lien
K. W. Brown
J. M. Hennigan
P. W. Steketee
A. F. Kozlowski
J. G. Stietzel
PNSRC File

U.S. NRC
REGION III
SERVICES UNIT

1978 MAY 19 PM 1 10

RECEIVED DISTRIBUTION
SERVICES UNIT

781390040

Acc 3
5/11
Hew
Hew

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-315
 UNIT 1
 DATE 5/2/78
 COMPLETED BY W. T. Gillett
 TELEPHONE 616-465-5901

MONTH April 1978

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1044
2	1044
3	1044
4	1047
5	1046
6	654
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	0
31	

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

OPERATING DATA REPORT

DOCKET NO. 50-315
 DATE 5/2/78
 COMPLETED BY W. T. Gillett
 TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name: Donald C. Cook 1
2. Reporting Period: April 1978
3. Licensed Thermal Power (MWt): 3250
4. Nameplate Rating (Gross MWe): 1089
5. Design Electrical Rating (Net MWe): 1054
6. Maximum Dependable Capacity (Gross MWe): 1080
7. Maximum Dependable Capacity (Net MWe): 1044
8. If Changes Occur in Capacity Ratings (Items Number 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 Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	719	2,879	29,183.0
12. Number Of Hours Reactor Was Critical	135	2,172.4	22,795.1
13. Reactor Reserve Shutdown Hours	0	0	463.0
14. Hours Generator On-Line	135	2,159.9	22,129.7
15. Unit Reserve Shutdown Hours	0	0	321.0
16. Gross Thermal Energy Generated (MWH)	438,253	6,643,238	58,199,431
17. Gross Electrical Energy Generated (MWH)	146,010	2,196,130	18,961,220
18. Net Electrical Energy Generated (MWH)	141,097	2,117,081	18,167,295
19. Unit Service Factor	18.8	75.0	79.6
20. Unit Availability Factor	18.8	75.0	79.6
21. Unit Capacity Factor (Using MDC Net)	18.8	70.4	68.7
22. Unit Capacity Factor (Using DER Net)	18.6	69.8	63.7
23. Unit Forced Outage Rate	0	5.9	6.8
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH April, 1978

DOCKET NO. 50-315
 UNIT NAME D.C. Cook Plant
 DATE May 15, 1978
 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
127	780406	S	585.0	C	2	N/A	ZZ	ZZZZZZ	Unit removed from service for Cycle II-III Refueling Outage. Method of shutting down was generator trip test from 100% power.

1
 F: Forced
 S: Scheduled

2
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of 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:

- A. If a component failed, use the component directly involved.
- B. If not a component failure, use the related component: e.g., wrong valve operated through error; list valve as component.
- C. 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 path 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
Date: May 15, 1978
Completed By: R. S. Keith
Telephone: (616) 465-5901

OPERATING EXPERIENCE - APRIL, 1978

Highlights

The Unit continued to operate at 100% power until it was removed from service at 1500 hours on April 6, 1978 by conducting a generator trip. The Cycle II - III Refueling Outage started on April 7, 1978.

Summary

- 4/1/78 - The Unit entered the month operating at 100% power.
- 4/6/78 - Unit tripped off the line from 100% power by a planned generator trip.
- 4/7/78 - Cycle II - III Refueling Outage started Reactor Coolant System placed in Mode 5.
- 4/8/78 - Started disassembly of "C" Turbine and Main Generator.
- 4/15/78 - Reactor Head studs detentioned.
- 4/21/78 - Reactor vessel head was removed.
Started filling reactor cavity.
Lowered water level in reactor cavity to repair a leak on the seal table.
- 4/22/78 - Started filling reactor cavity.
- 4/23/78 - Upper internals were removed from the Reactor.
Upper internals placed back in Reactor. Pumping down Reactor cavity to repair leak on reactor cavity seal ring.
- 4/27/78 - Reactor cavity was flooded, upper internals were removed and preparations for fuel shuffle were completed. Between 4/23/78 and 4/27/78 the reactor cavity had been flooded and drained several times to repair leaks on cavity seal ring.

DOCKET NO.	<u>50 - 315</u>
UNIT NAME	<u>D. C. Cook - Unit No. 1</u>
DATE	<u>5-15-78</u>
COMPLETED BY	<u>B. A. Svensson</u>
TELEPHONE	<u>(616) 465-5901</u>

MAJOR SAFETY-RELATED MAINTENANCE

APRIL, 1978

NOTE: Unit No. 1 has been shut down for Cycle II - III Refueling Outage for the entire month of April, 1978. Major safety-related maintenance items performed during the outage will be reported separately at the end of the outage.