N.R.C. OPERATING DATA REPORT

		DOCKET NO DAT		
		COMPLETED B	Y CLIMER	
-		TELEPHON	E 616-465-59	
	RATING STATUS			
	Unit Name D. C. Cool	k Unit 1		
4.	Reporting Period	Dec. 1984	Inotes	
3.	Licensed Thermal Power (MWt)	3230	1	1
4.	Name Plate Rating (Gross MWe)	1152	1	
5.	Design Electrical Rating (Net MWe)	1030	1	
7	Maximum Dependable Capacity (GROS	5 MWe) 1056	1	1
8	Maximum Dependable Capacity (Net M	1We) 1020		
0.	AT Guanges UCCUP in Canacity Ratin	ne (Trame	T there are	L
	Lest Report Dive Reasons			
9.				
10.	Power Level To Which Restricted.] Reasons For Restrictions If Anna	f Any (Net	MWe)	
	HESCHICCIONS. IT HAY			
		This Me		
11.	Hours in Reporting Pericd	744.0	Yr. to Date	
12.	No. of Hrs. Reactor Was Critical	744.0	£784.0	and the second second second
13.	Reactor Reserve Shutdown Hours	0.0	8075.8	
14.	Hours Generator on Line	744.0	0.0 8017.8	
15.	Unit Reserve Shutdown Hours	0.0		
16.	Gross Therm. Energy Gen. (MWH)	2115145	0.0 24087860	
17.	Gross Elect. Energy Gen. (MWH)	686400	7875600	
18.	Net Elect. Energy Gen. (MWH)	659477	7550719	
19.	Unit Service Factor	100.0	91.3	
20.	Unit Availability Factor	100.0	91.3	75.2
21.	Unit Capacity Factor (MDC Net)	86.9	84.3	75.2
22.	Unit Capacity Factor (DER Net)	86.1	. 83.5	
25.	Unit Forced Outage Rate	0.0		
24.	Shutdowns Scheduled over Next Six - Surveillance/Maintenance Outage, Estin	Months (Ty	De Date and	7.5
10.3	- Surveillance/Maintenance Outage, Estin	nated January	11, 1985. Two	weeks.
	- Keruering and Ten-year Surveillance On	itago Fetimat	ad April 1 1	NOE
25.	If Shut Down At End of Report Per	iod. Estima	tod Data of	Ctant.
	will been state and they have been been and the been state and the been been been been been been been be			Startup:
26.	Units in Te + Status (Prior to Co	mmercial On	eration).	
		op	Forcast	Achieved
	INITIAL CRITICALITY		. or case	Achieved
	INITIAL ELECTRICITY			

IE24 1/1

INITIAL CRITICALITY INITIAL ELECTRICITY COMMERCIAL OPERATION

8502150641 841231 PDR ADDCK 05000315 R PDR

AVERAGE DAILY POWER LEVEL (MWe-Net)

DOCKET NO.		50-315
UNIT		ONE
DATE		1/4/85
COMPLETED	BY	CLIMER
TELEPHONE	616	-465-5901

MONTH

Dec. 84

DAY	AVERAGE DAILY POWER LEVEL		AVERAGE DAILY
	TOWER LEVEL	DAY	POWER LEVEL
1	741	17	
2	907	18	1023
3	1024	19	1025
4	1025		1026
5	1026	20	1025
6	1025	21	1006
7	915	22	808
8	986	23	691
9	825	24	690
10		25	689
11	1026	26	687
12	1028	27	689
13	799	28	691
14	964	29	691
15	1023	30	690
16	1022	31	690
10	1022		070

UNIT SHUTDOWNS AND POWER REDUCTIONS

1

DOCKET NO. _50-315

UNITNAME D.C. Cook - Unit 1 COMPLETED BY TELEPHONE 1 of 2 PAGE

REPORT MONTH December, 1984

No.	Date	Type ¹	Duration (Hours)	Reason?	Method of Shutting Down Reactor?	Licensee Event Report #	System Code ⁴	Component Cude ⁵	Cause & Corrective Action to Prevent Recurrence
237	841207	F	0	В	4	N.A.	HC	HTEXCH	Reactor power reduced to 80% for main condenser tube leak checks. Two leaking tubes were plugged. Reactor power was returned to 100% the same day.
238	841208	F	0	В	4	N.A.	нн	HTEXCH	Reactor power reduced to 55% to per- mit removal of the east main feed pump from service to check the F-P Turbine Condenser for tube leaks. Reactor power was returned to 100% on 841209.
239	841212	F	0	В	4	N.A.	нн	HTEXCH	Reactor power was reduced to 57% to permit removal of the east main feed pump from service to check the F-P Tuibine Condenser for tube leaks One leaking tube was plugged. Re- actor power was returned to 100% the same day.
	orced cheduled	B-M: C-Re D-Ro F-Oj F-Ac G-Oj	intenance fucling gulatory R	estriction ning & l e aror (Ea	n License Exan	nination	3-Aut		4 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG- 0161) 5 Exhibit 1 - Same Source

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 reduct on should be listed as 4 (Other), and the Cause and Correct 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 dircumstances 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 nours 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 50 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 shuidowns, 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 1 - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161), using the following critieria:

- A. 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 us component.
- C. If a chain of failures occurs, the first component to maifunction 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 RECUR-RENCE. 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.

						IUTDOWNS AN			DATE 1-5-85	
No.	Date	Type ¹	Duration (Hours)	Reason?	Method of Shutting Down Reactor?	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence	
240	841222	F	0	F.	4	N.A.	HC	HTEXCH	Reactor power initially reduced to 80% for main condenser tube leak checks. Reactor power further re- duced to 70% due to low System load demand. Reactor power remained at 70% at the end of the month at the System's request.	
F: Forced S: Scheduled							3-Aut		4 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG- 0161) 5 Exhibit I - Same Source	

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. In 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

Note that this differs from the Edison Electric Institute (EEI) definitions of "Forced Partial Outage" and "Scheauled Partial Outage." For these terms, EEI uses a change at 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 critieria:

- 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 maifunction 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 RECUR-RENCE. 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 antical 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 Completed By: A. S. Puplis Telephone: (616) 465-5901 Date: January 02, 1985 Page: 1 of 2

MONTHLY OPERATING ACTIVITIES - DECEMBER, 1984

HIGHLIGHTS:

The Unit entered the reporting period in Mode 1 at 75% rated thermal power due to main condenser leak checks. The Unit reached 100% at noon on 12-2-84. Major power reductions occurred for the following reasons:

- To remove "B" North Condenser half from service for tube leak checks.
- To remove "E" Main Feed Pump Turbine Conde: ser from service for tube leak checks.
- 3) To meet system load demand which required the Unit be at 70% rated thermal power.

The Unit ended the reporting period at 70% rated thermal power. Total electrical generation for the month was 686,400 MWH. SUMMARY:

- 12-2-84 At 0740 power was increased to 100% which was achieved at 1200 on 12-2-84.
- 12-4-84 At 1415, power operated relief valve block valve, NMO 151 was tested and found to be inoperable.
- 12-7-84 At 0830 Reactor power was decreased to 80% to take "B" North Condenser half out of service for tube leak checks.
- 12-7-84 At 2150, Reactor power being increased to 100% power which was achieved at 0321 on 12-8-84.
- 12-8-84 At 1950, Reactor power was decreased to 55% to take the "E" Main Feed Pump Turbine Condenser out of service for tube leak checks.
- 12-9-84 At 0600, Reactor power being increased to 100%, which was reached at 1325 on 12-9-84.
- 12-12-84 At 1200, Reactor power was decreased to 57% to take the "E" Main Feed Pump Condenser out of service for tube leak checks.

Docket No.: 50-315 Unit Name: D.C. Cook Unit 1 Completed By: A. S. Puplis Telephone: (616) 465-5901 Date: January 02, 1985 Page: 2 of 2

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- 12-12-84 At 2225, Reactor power being increased to 100% which was reached at 0715 on 12-13-84.
- 12-22-84 At 0830 Reactor power was decreased to 80% to remove the "B" North Condenser from service for apparent tube leaks.
- 12-22-84 At 1114 Reactor power was further decreased to 70% per System demand.

.

12-24-84 At 1207, a failed bearing was discovered in the speed increaser of the East Centrifugal Charging Pump.

The Control Room Cable Vault Halon System remains inoperable as of 1400 hours on 4-05-83. The backup CO_2 System for the Control Room Cable Vault remains operable.

DOCKET NO.	50
UNIT NAME	D.
DATE	1-4
COMPLETED BY	В.
TELEPHONE	(6)
PAGE	1 (

- 315 C. Cook - Unit No. 1 4-85 A. Svensson 10) 465-5901 of 1

MAJOR SAFETY-RELATED MAINTENANCE

D

DECEMBER, 1984

- Replaced all internal parts on No. 3 S/G Stop Trip Valve MRV-231, M-1 as required to eliminate seat leakage. Post-repair functional testing was performed to verify valve operability.
- The speed increaser for the East Centrifugal Charging Pump M-2 failed and had to be replaced with a spare unit.

System INDIANA & MICHIGAN ELECTRIC COMPANY Donald C. Cook Nuclear Stant P.O. Box 458, Bridgman, Michigan 49106

January 4, 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 December, 1984 is submitted.

Sincerely,

W. ASnows

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 (NSAC) R. C. Callen S. J. Mierzwa R. F. Kroeger B. H. Bennett P. D. Rennix J. H. Hennigan Z. Cordero J. J. Markowsky J. F. Stietzel PNSRC File INPO Records Center

ANI Nuclear Engineering Department

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