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

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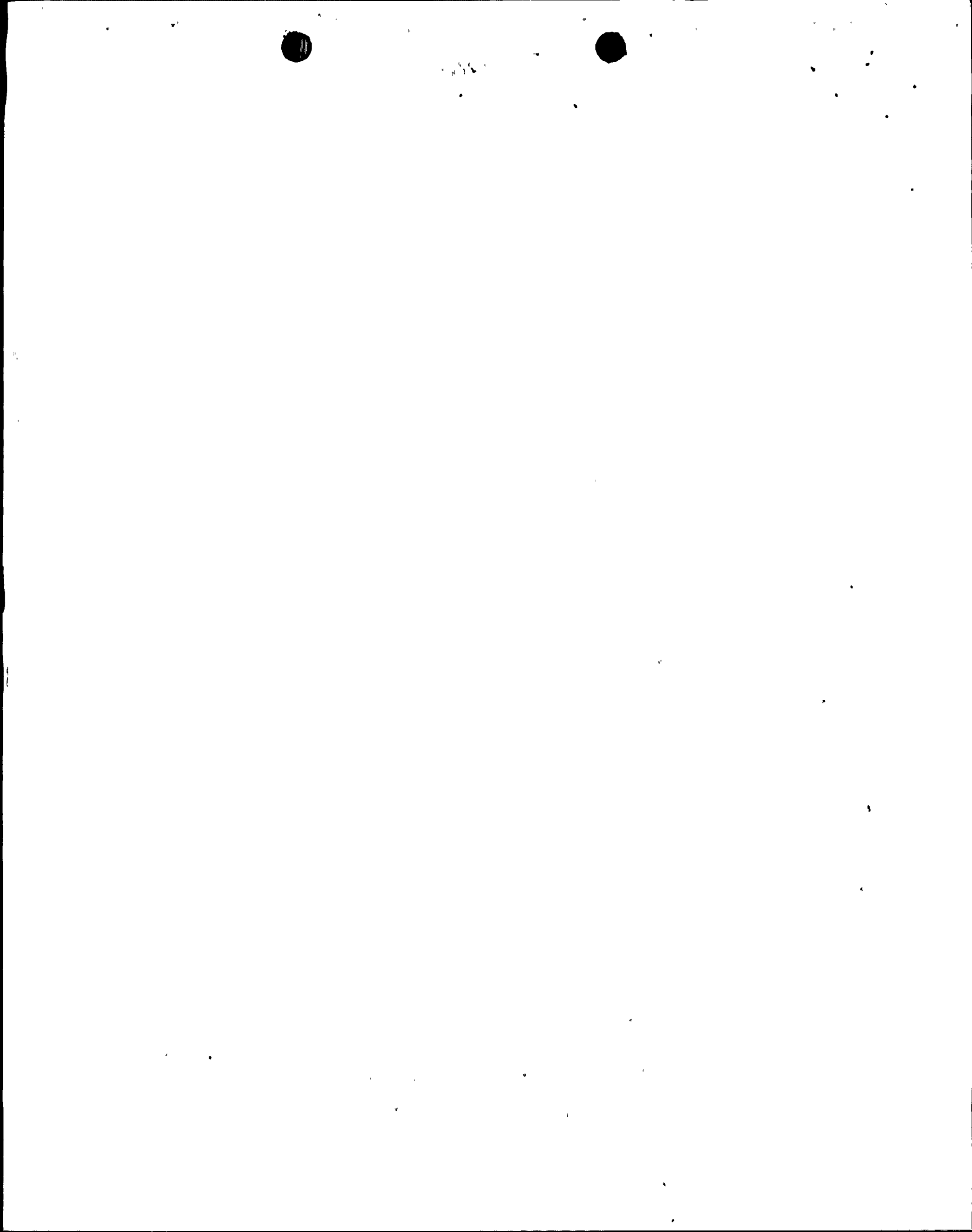
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Indiana Michigan
Power Company
Cook Nuclear Plant
One Cook Place
Bridgman, MI 49106
616 465 5901



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,

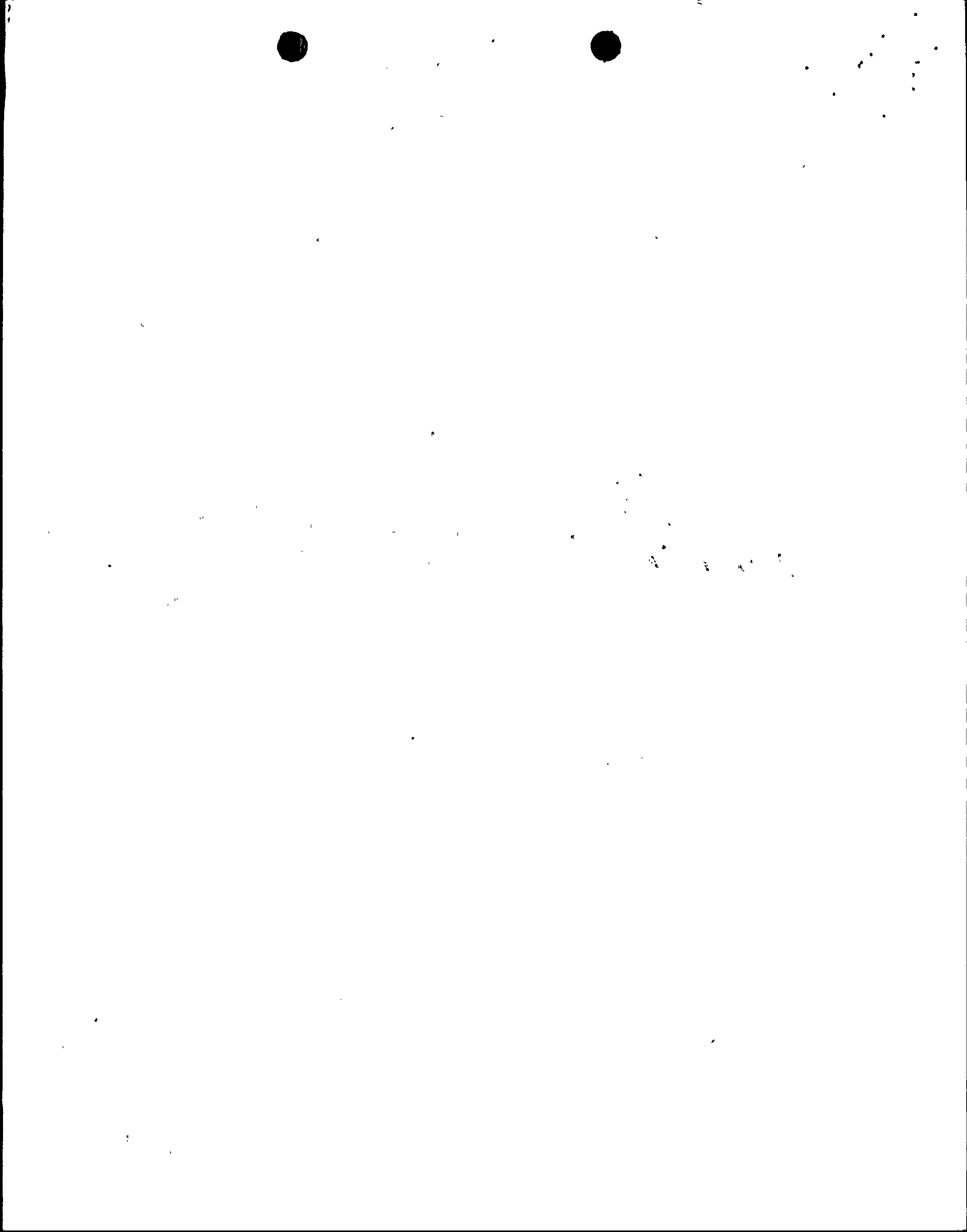
A. Alan Blind
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Plant Manager

Attachment

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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 GILLETT
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-CEQ-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.

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

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.