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MONTHLY REPORT

TO: NRC

FROM: Iowa Elec Light & Power Co
Cedar Rapids, Iowa 52406
E.L. Hammond

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DESCRIPTION

LETTER TRANS THE FOLLOWING: (1P)

ENCLOSURE

MONTHLY REPORT FOR March 1977
PLANT & COMPONENT OPERABILITY &
AVAILABILITY. THIS REPORT TO BE USED IN
PREPARING GRAY BOOK BY PLANS & OPERATIONS.
(1 cy encl rec'd) 3P

PLANT NAME: Duane Arnold Plant

DHL

ACKNOWLEDGED

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SAFETY

FOR ACTION/INFORMATION

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IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER
P. O. Box 351
Cedar Rapids, Iowa 52406
April 6, 1977
DAEC -77 -216



Director, Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington D.C. 20555

Subject: Monthly Operating Report

File: A-118d

Regulatory

File Cy.

Dear Sirs:

Please find enclosed 10 copies of the Duane Arnold Energy Center Monthly Operating Report for March, 1977. The report has been prepared in accordance with the requirements of Regulatory Guide 1.16 and distribution has been made in accordance with Regulatory Guide 10.1.

Very truly yours,

Ellery L. Hammond

Ellery L. Hammond
Chief Engineer
Duane Arnold Energy Center

ELH/JVS/mg
Encl.

cc: D. Arnold
J. Wallace
S. Smith
L. Root
W. Bryant
D. Mineck
D. Wilson
R. Hannen
Dennis Murdock
George Toyne

Directorate of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137 (1)

Director, Office of Management Information
and Program Control
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555 (2)

771050221

DOCKET NO. 050-0331
UNIT Duane Arnold Energy Center
DATE April 6, 1977
COMPLETED BY J. Van Sickle
TELEPHONE 319-851-5611

OPERATING STATUS

1. REPORTING PERIOD: March GROSS HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (Mwt): 1593 MAX. DEPEND. CAPACITY (MWe-Net): 515
DESIGN ELECTRICAL RATING (MWe-Net): 538
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): 436 (approximately)
4. REASONS FOR RESTRICTION (IF ANY): MCPR limitations due to core plate plugging.

	THIS MONTH	YR TO DATE	*CUMULATIVE
5. NUMBER OF HOURS REACTOR WAS CRITICAL	<u>275.3</u>	<u>1691.3</u>	<u>15,240.7</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE	<u>267.7</u>	<u>1683.7</u>	<u>14,855.3</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).	<u>346,512</u>	<u>2,148,960</u>	<u>16,929,360</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH).	<u>118,071</u>	<u>730,853</u>	<u>5,663,640</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).	<u>110,199.8</u>	<u>683,504.4</u>	<u>5,272,415.6</u>
12. REACTOR SERVICE FACTOR	<u>37.0%</u>	<u>78.3%</u>	<u>80.4%</u>
13. REACTOR AVAILABILITY FACTOR.	<u>37.0%</u>	<u>78.3%</u>	<u>80.4%</u>
14. UNIT SERVICE FACTOR	<u>36.0%</u>	<u>77.9%</u>	<u>78.3%</u>
15. UNIT AVAILABILITY FACTOR.	<u>36.0%</u>	<u>77.9%</u>	<u>78.3%</u>
16. UNIT CAPACITY FACTOR (Using MDC).	<u>28.8%</u>	<u>61.4%</u>	<u>54.0%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe).	<u>27.5%</u>	<u>58.8%</u>	<u>51.7%</u>
18. UNIT FORCED OUTAGE RATE	<u>0%</u>	<u>0%</u>	<u>5.9%</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: <u>May 1, 1977</u>			

* Cumulative from date of commercial operation.

DOCKET NO. 050-0331

UNIT Duane Arnold Energy Center

DATE April 6, 1977

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AVERAGE DAILY UNIT POWER LEVEL

MONTH March

AVERAGE DAILY POWER LEVEL	
DAY	(MWe-net)
1	427
2	436
3	431
4	433
5	433
6	422
7	428
8	426
9	422
10	420
11	303
12	11
13	0
14	0
15	0
16	0

AVERAGE DAILY POWER LEVEL	
DAY	(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	0

(1) REASON
A-Equipment Failure (Explain)
B-Maint. or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training and
License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

(2) METHOD
1-Manual
2-Manual Scram
3-Automatic Scram
4-Other (Explain)

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TELEPHONE 319-851-5611

UNIT SHUTDOWNS

AND POWER REDUCTIONS

REPORT MONTH March

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER (2)	CORRECTIVE ACTIONS/COMMENTS
3.	770312	S	476.3	C	1	Refuel Outage

SUMMARY: Steady state operation until 770312 at which time commenced 7 week refueling outage.