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FILE NUMBER
MONTHLY REPORT

TO:

N. R. C.

FROM:

Iowa Electric Light & Power Co.
Cedar Rapids, Iowa
Ellery L. Hammond

DATE OF DOCUMENT

3/7/77

DATE RECEIVED

3/10/77

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One signed copy

DESCRIPTION

LETTER TRANS THE FOLLOWING:

ACKNOWLEDGED
DO NOT REMOVE

(1-P)

PLANT NAME:

Duane Arnold

ENCLOSURE

MONTHLY REPORT FOR February/1977
PLANT & COMPONENT OPERABILITY &
AVAILABILITY. THIS REPORT TO BE USED IN
PREPARING GRAY BOOK BY PLANS & OPERATIONS.

(3-P)

SAFETY

FOR ACTION/INFORMATION

ENVIRO

3/11/77

RJL

☒ MIPC
W/4 CYS FOR ACTION

INTERNAL DISTRIBUTION

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EXTERNAL DISTRIBUTION

☒ LPDR: Cedar Rapids, Iowa.
☒ TIC
☒ NSIC

CONTROL NUMBER

2547

IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER

P. O. Box 351

Cedar Rapids, Iowa 52406

March 7, 1977

DAEC -77- 156

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

Subject: Monthly Operating Report

File: A-118d

Dear Sirs:

Please find enclosed 10 copies of the Duane Arnold Energy Center Monthly Operating Report for February, 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)



BOOKET NO. 050-0331

UNIT Duane Arnold Energy Center

DATE March 4, 1977

COMPLETED BY J. Van Sickel

TELEPHONE 319-851-5611

OPERATING STATUS

1. REPORTING PERIOD: February GROSS HOURS IN REPORTING PERIOD: 672
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): 453 (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>672</u>	<u>1416</u>	<u>14,965.4</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE	<u>672</u>	<u>1416</u>	<u>14,587.6</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).	<u>861,840</u>	<u>1,802,448</u>	<u>16,582,848</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH).	<u>293,637</u>	<u>612,782</u>	<u>5,545,569</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).	<u>274,676.1</u>	<u>573,304.6</u>	<u>5,162,215.8</u>
12. REACTOR SERVICE FACTOR	<u>100%</u>	<u>100%</u>	<u>82.2%</u>
13. REACTOR AVAILABILITY FACTOR.	<u>100%</u>	<u>100%</u>	<u>82.2%</u>
14. UNIT SERVICE FACTOR	<u>100%</u>	<u>100%</u>	<u>80.1%</u>
15. UNIT AVAILABILITY FACTOR.	<u>100%</u>	<u>100%</u>	<u>80.1%</u>
16. UNIT CAPACITY FACTOR (Using MDC).	<u>79.4%</u>	<u>78.6%</u>	<u>55.0%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe).	<u>76.0%</u>	<u>75.3%</u>	<u>52.7%</u>
18. UNIT FORCED OUTAGE RATE	<u>0%</u>	<u>0%</u>	<u>6.0%</u>

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
Refuel Outage - March 12, 1977 - 6 weeks

20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

*Cumulative From Date of Commercial Operation.

DOCKET NO. 050-0331

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AVERAGE DAILY UNIT POWER LEVEL

MONTH February

AVERAGE DAILY POWER LEVEL

DAY	(MWe-net)
1	419
2	414
3	351
4	388
5	390
6	399
7	395
8	418
9	439
10	438
11	435
12	433
13	426
14	411
15	453
16	434

AVERAGE DAILY POWER LEVEL

DAY	(MWe-net)
17	432
18	432
19	431
20	420
21	428
22	426
23	420
24	423
25	413
26	264
27	322
28	387
29	
30	
31	

(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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UNIT SHUTDOWNS

AND POWER REDUCTIONS

REPORT MONTH February

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER (2)	CORRECTIVE ACTIONS/COMMENTS
2	770226	S	0	H	4	To perform CRD exercise and rod pulls. Power increase delayed by tip machine problems.

SUMMARY: Continued steady state operation.