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MONTHLY REPORT

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Cedar Rapids, Iowa  
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## DESCRIPTION

LETTER TRANS THE FOLLOWING:

PLANT NAME: Duane Arnold

## ENCLOSURE

MONTHLY REPORT FOR April 1976  
PLANT & COMPONENT OPERABILITY &  
AVAILABILITY. THIS REPORT TO BE USED IN  
PREPARING GRAY BOOK BY PLANS & OPERATIONS.

ACKNOWLEDGED

DO NOT REMOVE

SAFETY

FOR ACTION/INFORMATION

ENVIRO

SAB 5-17-76

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## INTERNAL DISTRIBUTION

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## EXTERNAL DISTRIBUTION

LPDR: Cedar Rapids, Iowa

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# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER

P. O. Box 351

Cedar Rapids, Iowa 52406

DAEC - 76 140

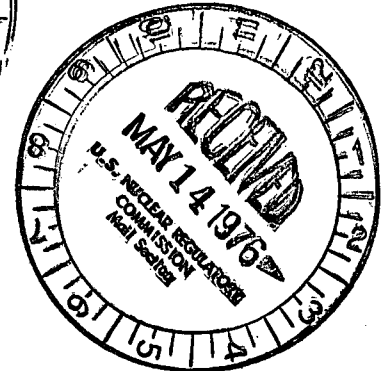
May 10 1976



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 April, 1976. 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,

G. G. Hunt  
Chief Engineer  
Duane Arnold Energy Center

DLW/GGH/mg

Encl.

cc: D. Arnold  
J. Wallace  
S. Smith  
L. Root  
W. Bryant  
E. Hammond  
D. Wilson  
K. Haas  
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)

(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

UNIT SHUTDOWNS

DOCKET NO. 050-331

UNIT NAME Duane Arnold Energy Center

DATE May 7, 1976

COMPLETED BY D. Wilson

REPORT MONTH April

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
2	760214	S	356	C	1	Annual refuel outage continued
3	760416	F	27	G	1	Low condenser vacuum - valve line up problem
4	760418	F	15.25	B	NA	Repair of main condenser tube leaks
5	760419	S	16.75	B	1	Turbine overspeed testing, control rod sequence exchange

SUMMARY: After completing refueling outage, reactor operations resumed on April 15, 1976.

DOCKET NO. 050-331

UNIT Duane Arnold Energy Center

DATE May 7, 1976

COMPLETED BY D. Wilson

AVERAGE DAILY UNIT POWER LEVEL

MONTH April

AVERAGE DAILY POWER LEVEL

DAY	(MWe-net)
1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>13</u>

AVERAGE DAILY POWER LEVEL

DAY	(MWe-net)
17	<u>10</u>
18	<u>21</u>
19	<u>68</u>
20	<u>18</u>
21	<u>92</u>
22	<u>175</u>
23	<u>173</u>
24	<u>160</u>
25	<u>169</u>
26	<u>248</u>
27	<u>288</u>
28	<u>288</u>
29	<u>317</u>
30	<u>351</u>
31	<u>-</u>

DATE May 7, 1976

COMPLETED BY D. Wilson

DOCKET NO. 050-331

## OPERATING STATUS

1. REPORTING PERIOD: 001,760401 THROUGH 2400, 760330  
HOURS IN REPORTING PERIOD: 720
2. CURRENTLY AUTHORIZED POWER LEVEL (MWth) 1593 MAX. DEPENDABLE CAPACITY (MWe-NET) 515
3. LOWEST POWER LEVEL TO WHICH SPECIFICALLY RESTRICTED (IF ANY) (MWe-NET): 475 (approximately)
4. REASONS FOR RESTRICTION (IF ANY): NRC directive as the result of potential in-core instrument tube vibration.

	THIS REPORTING PERIOD	YR TO DATE	CUMULATIVE TO DATE
5. HOURS REACTOR WAS CRITICAL.....	366	1426.75	13457.5
6. REACTOR RESERVE SHUTDOWN HOURS..	-	-	-
7. HOURS GENERATOR ON LINE.....	305	1361	12261.2
8. UNIT RESERVE SHUTDOWN HOURS.....	-	-	-
9. GROSS THERMAL ENERGY GENERATED (MWH).....	211,992	1,567,104	13530552
10. GROSS ELECTRICAL ENERGY GENERATED (MWH).....	63897.0	521,234	4,497,463
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	54987.7	483,085.8	4,183,325.9
12. REACTOR AVAILABILITY FACTOR (1).....	51%	49%	73%
13. UNIT AVAILABILITY FACTOR (2).....	42%	47%	70%
14. UNIT CAPACITY FACTOR (3).....	15%	32%	46%
15. UNIT FORCED OUTAGE RATE (4).....	12%	3%	8%

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH):

17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

18. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:

DATE LAST  
FORECASTDATE  
ACHIEVED

INITIAL CRITICALITY  
INITIAL ELECTRICAL  
POWER GENERATION  
COMMERCIAL OPERATION

Feb 1975

- (1) REACTOR AVAILABILITY FACTOR =  $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$
- (2) UNIT AVAILABILITY FACTOR =  $\frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$
- (3) UNIT CAPACITY FACTOR =  $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MWe-NET)} \times \text{HOURS IN REPORTING PERIOD}}$
- (4) UNIT FORCED OUTAGE RATE =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$