

50-331

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FILE NUMBER

MONTHLY REPORT

TO:

N.R.C.

FROM:

Iowa Electric Light & Power Co.  
Cedar Rapids, Iowa  
G. G. Hunt

DATE OF DOCUMENT

8/9/76

DATE RECEIVED

8/13/76

☒ LETTER☐ NOTORIZED

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☐ COPY☒ UNCLASSIFIED

## DESCRIPTION

LETTER TRANS THE FOLLOWING:

PLANT NAME:

Duane Arnold

(1-P)

## ENCLOSURE

MONTHLY REPORT FOR JULY/76  
PLANT & COMPONENT OPERABILITY &  
AVAILABILITY. THIS REPORT TO BE USED IN  
PREPARING GRAY BOOK BY PLANS & OPERATIONS.

(3-P)

DO NOT REMOVE

AGENCY USE

SAFETY

FOR ACTION/INFORMATION

ENVIRO 8/16/76

R/L

☒ MIPC

W/4-CYS FOR ACTION

## INTERNAL DISTRIBUTION

☒ REG. FILE☒ NRC-PDR☒ MCDONALD☒ S. CHAPMAN☒ BRANCH CHIEF(L)☒ LIC. ASST. (L)

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## EXTERNAL DISTRIBUTION

☒ LPDR: Cedar Rapids, ID.☒ TIC☒ NSIC

CONTROL NUMBER

8211

# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER

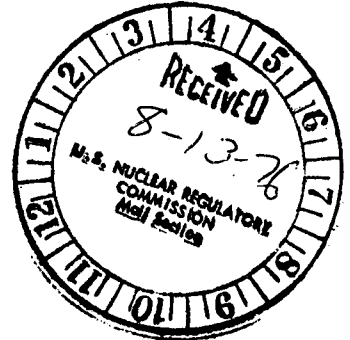
P. O. Box 351

Cedar Rapids, Iowa 52406

August 9, 1976

DAEC -76 - 250

Regulatory Section III



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

Subject: Monthly Operating Report

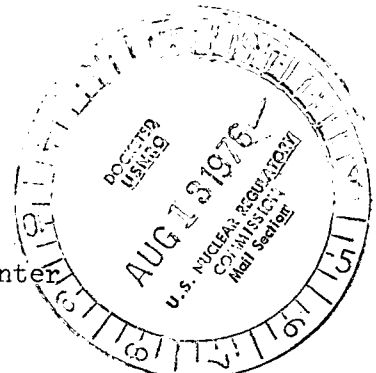
File: A-118d

Dear Sirs:

Please find enclosed 10 copies of the Duane Arnold Energy Center Monthly Operating Report for July, 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  
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Washington, D.C. 20555 (2)

8211

UNIT DAEC

DATE August 6, 1976

COMPLETED BY J. Van Sickle

DOCKET NO. 050-331

## OPERATING STATUS

1. REPORTING PERIOD: 0001, 760701 THROUGH 2400, 760731  
HOURS IN REPORTING PERIOD: 744
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
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.....	744	3478.15	15508.9
6. REACTOR RESERVE SHUTDOWN HOURS..	-	-	-
7. HOURS GENERATOR ON LINE.....	744	3388.65	14288.9
8. UNIT RESERVE SHUTDOWN HOURS.....	-	-	-
9. GROSS THERMAL ENERGY GENERATED (MWH).....	997,608	3,813,216	15,776,664
10. GROSS ELECTRICAL ENERGY GENERATED (MWH).....	328,005.0	1,262,178	5,238,407
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	306,804.7	1,172,490	4,872,730.1
12. REACTOR AVAILABILITY FACTOR (1).....	100%	68%	76%
13. UNIT AVAILABILITY FACTOR (2)....	100%	67%	74%
14. UNIT CAPACITY FACTOR (3).....	80%	45%	48%
15. UNIT FORCED OUTAGE RATE (4).....	0%	2%	7%
16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH):	None		
17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:	N.A.		
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 =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

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AVERAGE DAILY UNIT POWER LEVEL

MONTH July

AVERAGE DAILY POWER LEVEL

DAY	(MWe-net)
1	396
2	405
3	410
4	392
5	344
6	396
7	394
8	397
9	395
10	400
11	393
12	408
13	343
14	401
15	431
16	458

AVERAGE DAILY POWER LEVEL

DAY	(MWe-net)
17	441
18	313
19	424
20	440
21	437
22	444
23	441
24	362
25	413
26	455
27	455
28	448
29	449
30	450
31	448

(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

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UNIT NAME DAEC

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REPORT MONTH July

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
None						

SUMMARY: None