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CONTROL NO: **6393**

FILE: MONTHLY REPORT FILE

FROM: Iowa Electric Light & Pwr. Cedar Rapids, Iowa C.C. Hunt			DATE OF DOC 6-9-75	DATE REC'D 6-12-75	LTR XX	TWX	RPT	OTHER
TO: NRC			ORIG 1 Signed	CC	OTHER	SENT AEC PDR <del>XXXXX</del> SENT LOCAL PDR <del>XXXXX</del>		
CLASS	UNCLASS XXXX	PROP INFO	INPUT	NO CYS REC'D 1		DOCKET NO: 50-331		

## DESCRIPTION:

Ltr trans the following:

## ENCLOSURES:

Monthly Report for May 1975  
Plant & Component Operability & Availability  
This Report to be used in preparing Gray Book  
by Plans & Operations.

NUMBER OF COPIES REC'D: 1

PLANT NAME: Duane Arnold

## FOR ACTION/INFORMATION

VCR 6-12-75

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*RM*

50-331

# IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office  
CEDAR RAPIDS, IOWA

DUANE ARNOLD ENERGY CENTER  
PALO, IOWA  
June 9, 1975  
DAEC-75-217

Office of Plans and Schedules  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20545



SUBJECT: Monthly Plant and Component  
Operability and Availability  
Report

FILE: A-118d

Gentlemen:

In accordance with Regulatory Guide 1.16, please find enclosed the Monthly Plant and Component Operability and Availability Report for May 1975.

Very truly yours,

*G. G. Hunt* ELH

G. G. Hunt  
Chief Engineer  
Duane Arnold Energy Center

DLW/GGH/lh  
Enclosure

cc: C. W. Sandford  
J. A. Wallace  
L. D. Root  
D. L. Wilson  
E. L. Hammond  
B. R. York  
D. A. Moen  
K. M. Haas  
Dennis Murdock  
George Toyne

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

6393

(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. 50-331

UNIT NAME Duane Arnold Energy Center

DATE June 6, 1975

COMPLETED BY D. Wilson 319-851-5611

REPORT MONTH May

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
10	750502	F	34	B	(2)	Repacked MOV in Drywell
11	750505	F	60	B	(2)	Repaired failed Condenser Tubes
12	750518	F	0	F & D	N/A	Voluntary power reduction for LPRM vibration. License restriction to 50% power and 50% flow effective 750521.

SUMMARY: Plant continued load following operation. Plant output reduced to 50% during month as the result of LPRM string vibration.

DATE June 6, 1975COMPLETED BY D. Wilson 319-851-5611DOCKET NO. 50-331

## OPERATING STATUS

1. REPORTING PERIOD: 0001, 750501 THROUGH 2400, 750531  
HOURS IN REPORTING PERIOD: \_\_\_\_\_
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): 235
4. REASONS FOR RESTRICTION (IF ANY): Instrument tube vibration.  
Ref. NRC letter of 5-21-75

	THIS REPORTING PERIOD	YR TO DATE	CUMULATIVE TO DATE
5. HOURS REACTOR WAS CRITICAL.....	<u>702</u>	<u>3261.7</u>	<u>8016.5</u>
6. REACTOR RESERVE SHUTDOWN HOURS..	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.....	<u>650</u>	<u>3062.4</u>	<u>6974.4</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).....	<u>575,208</u>	<u>3,129,840</u>	<u>7,672,560</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH).....	<u>187,186</u>	<u>1,032,289</u>	<u>2,537,039</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	<u>171,069</u>	<u>957,630.5</u>	<u>2,359,687.5</u>
12. REACTOR AVAILABILITY FACTOR (1).....	<u>94%</u>	<u>88%</u>	<u>88%</u>
13. UNIT AVAILABILITY FACTOR (2).....	<u>87%</u>	<u>83%</u>	<u>83%</u>
14. UNIT CAPACITY FACTOR (3).....	<u>45%</u>	<u>51%</u>	<u>51%</u>
15. UNIT FORCED OUTAGE RATE (4).....	<u>13%</u>	<u>17%</u>	<u>17%</u>
16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH):	<u>Week of June 1, 1975, Inspect fuel channels, 4 weeks</u>		
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 \_\_\_\_\_

February, 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 =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

DOCKET NO. 50-331

UNIT Duane Arnold Energy Center

DATE June 6, 1975

COMPLETED BY D. Wilson

AVERAGE DAILY UNIT POWER LEVEL

MONTH May, 1975

AVERAGE DAILY POWER LEVEL

DAY	(MWe-net)
1	<u>301</u>
2	<u>0</u>
3	<u>52.2</u>
4	<u>115.6</u>
5	<u>118.7</u>
6	<u>0</u>
7	<u>0</u>
8	<u>158.9</u>
9	<u>236.6</u>
10	<u>264.5</u>
11	<u>308.1</u>
12	<u>347.4</u>
13	<u>371.4</u>
14	<u>404.3</u>
15	<u>451.3</u>
16	<u>482.6</u>

AVERAGE DAILY POWER LEVEL

DAY	(MWe-net)
17	<u>440.3</u>
18	<u>212.3</u>
19	<u>230.0</u>
20	<u>226.5</u>
21	<u>228.9</u>
22	<u>224.6</u>
23	<u>228.1</u>
24	<u>229.9</u>
25	<u>218.2</u>
26	<u>176.4</u>
27	<u>210.7</u>
28	<u>228.9</u>
29	<u>227.1</u>
30	<u>232.6</u>
31	<u>226.1</u>