

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL  
(TEMPORARY FORM)

CONTROL NO: **6393**

FILE: MONTHLY REPORT FILE

FROM: Iowa Electric Light & Pwr. Cedar Rapids, Iowa C.G. 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 <u>XXXXX</u>		SENT LOCAL PDR <u>XXXXX</u>
CLASS	UNCLASS XXXX	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-331		

DESCRIPTION:  
Ltr trans the following:  
  
PLANT NAME: Duane Arnold

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

FOR ACTION/INFORMATION

VCR 6-12-75

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INTERNAL DISTRIBUTION

<u>REG FILE</u> NRC PDR OGC, ROOM P-506A. GOSSICK/STAFF CASE GIAMBUSSO BOYD MOORE (L) DEYOUNG (L) SKOVHOLT (L) GOLLER (L) (Ltr) P. COLLINS DENISE REG OPR FILE & REGION (2) T.R. WILSON STEELE	TECH REVIEW SCHROEDER MACCARY KNIGHT PAWLICKI SHAO STELLO HOUSTON NOVAK ROSS IPPOLITO TEDESCO J. COLLINS LAINAS BENAROYA VOLLMER	DENTON GRIMES GAMMILL KASTNER BALLARD SPANGLER  ENVIRO MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR HARLESS	LIC ASST R. DIGGS (L) H. GEARIN (L) E. GOULBOURNE (L) P. KREUTZER (E) J. LEE (L) M. MAIGRET (L) S. REED (E) M. SERVICE (L) S. SHEPPARD (L) M. SLATER (E) H. SMITH (L) S. TEETS (L) G. WILLIAMS (E) V. WILSON (L) R. INGRAM (L)	A/T IND. BRAITMAN SALTZMAN MELTZ  PLANS MCDONALD CHAPMAN DUBE (Ltr) E. COUPE PETERSON HARTFIELD (2) KLECKER EISENHUT WIGGINTON
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EXTERNAL DISTRIBUTION

*Cedar Rapids Iowa*

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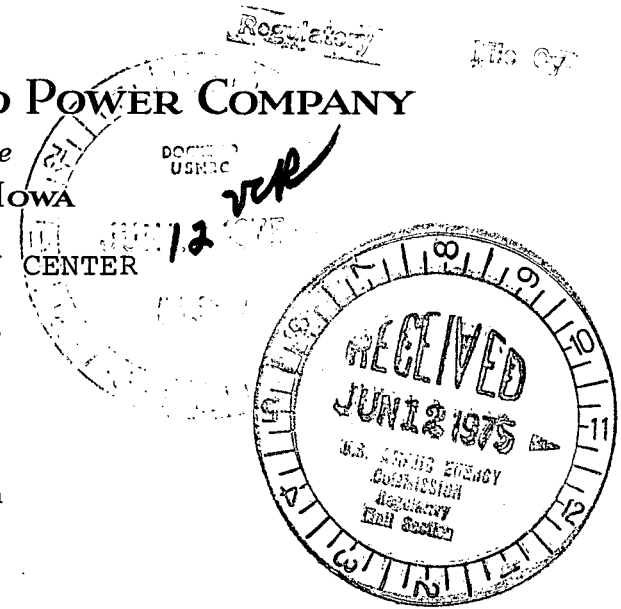
*RM*

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, 1975

COMPLETED BY D. Wilson 319-851-5611

DOCKET 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 FORECAST	DATE ACHIEVED
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICAL POWER GENERATION	_____	_____
COMMERCIAL OPERATION	_____	<u>February, 1975</u>

- (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>