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50-331

FILE NUMBER
MONTHLY REPORT

TO: US NRC

FROM: IOWA ELECTRIC LIGHT & POWER CO
CEDAR RAPIDS, IOWA
G G HUNT

DATE OF DOCUMENT

9-22-76

DATE RECEIVED

9-28-76

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DESCRIPTION
LETTER TRANS THE FOLLOWING:
CORRECTED COPY FOR AUGUST

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

ACKNOWLEDGED

DO NOT REMOVE

PLANT NAME: Duane ARND

SAFETY

FOR ACTION/INFORMATION

ENVIRO 9-28-76 RKS

MIPC
W/4 CYS FOR ACTION

INTERNAL DISTRIBUTION

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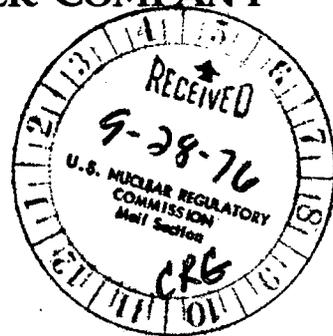
CONTROL NUMBER

LPDR: CEDAR RAPIDS, Iowa
 TIC
 NSIC

9783

IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER
 P. O. Box 351
 Cedar Rapids, Iowa 52406
 September 22, 1976
 DAEC - 76 - 307



50-331

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

Subject: Monthly Operating Report
Corrected Copy for August

File: A-118d

Dear Sirs:

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



GGH/JVV/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)

UNIT DAEC

DATE September 22, 1976

COMPLETED BY J. Van Sickel

DOCKET NO. 050-331

OPERATING STATUS

1. REPORTING PERIOD: 0001, 760801 THROUGH 2400, 760831
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.....	<u>673.53</u>	<u>4150.68</u>	<u>16,181.43</u>
6. REACTOR RESERVE SHUTDOWN HOURS..	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON LINE.....	<u>654.15</u>	<u>4041.8</u>	<u>14,942.05</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).....	<u>783,552</u>	<u>4,596,768</u>	<u>16,560,216</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH).....	<u>256,204</u>	<u>1,518,382</u>	<u>5,494,611</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	<u>238,276.5</u>	<u>1,410,766.5</u>	<u>5,111,006.6</u>
12. REACTOR AVAILABILITY FACTOR (1).....	<u>91%</u>	<u>71%</u>	<u>77%</u>
13. UNIT AVAILABILITY FACTOR (2)....	<u>88%</u>	<u>69%</u>	<u>75%</u>
14. UNIT CAPACITY FACTOR (3).....	<u>62%</u>	<u>47%</u>	<u>49%</u>
15. UNIT FORCED OUTAGE RATE (4).....	<u>10%</u>	<u>3%</u>	<u>7%</u>
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 FORECAST DATE 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. 050-331UNIT DAECDATE September 22, 1976COMPLETED BY J. Van Sickel

AVERAGE DAILY UNIT POWER LEVEL

MONTH August

AVERAGE DAILY POWER LEVEL		AVERAGE DAILY POWER LEVEL	
DAY	(MWe-net)	DAY	(MWe-net)
1	422	17	271
2	457	18	316
3	461	19	376
4	445	20	427
5	444	21	434
6	457	22	433
7	428	23	462
8	186	24	456
9	264	25	453
10	270	26	451
11	312	27	452
12	88	28	165
13	0	29	53
14	0	30	248
15	161	31	317
16	224		

(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

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UNIT NAME DAEC

DATE September 22, 1976

COMPLETED BY J. Van Sickle

UNIT SHUTDOWNS

REPORT MONTH August

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
9	760812	F	58.22	A	3	EHC card failure. Startup delayed by RSCH problems. EHC and RSCS cards replaced and startup commenced.
10	760814	F	8.03	G	3	Rx low water level, operator error during startup. Water level restored and startup commenced.
11	760828	F	23.6	B	3	IRM upscale spike during power reduction

SUMMARY: