NRC FORM 195 (2-76)

U.S. NUCLEAR REGULATORY COMMISSION

DOCKET NUMBER 50-331

FILE NUMBER MONTHLY REPORT

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TO: NRC	FROM: Iowa Elec Light & Pwr Co Cedar Rapids, Ia Duane Arnold	DATE OF DOCUMENT 10-7-76 DATE RECEIVED 10-12-76

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DESCRIPTION: LETTER TRANS THE FOLLOWING:

PLANT NAME: Duane Arnold

ENCLOSURE: MONTHLY REPORT FOR September 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 10-13-76 ehf

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W/4 CYS FOR ACTION

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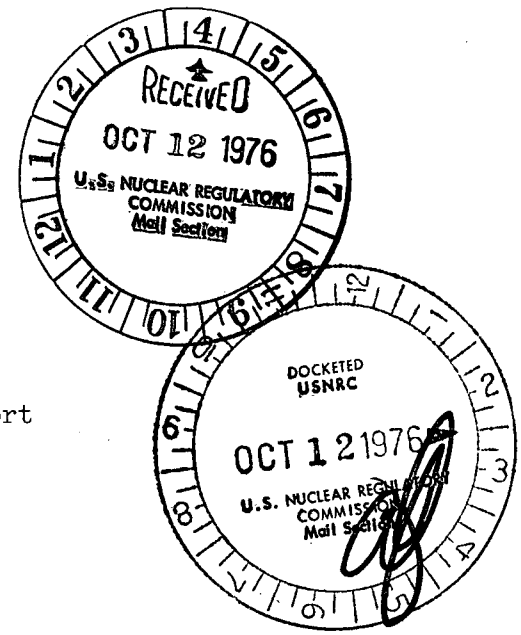
IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER
P. O. Box 351
Cedar Rapids, Iowa 52406

October 7, 1976
DAEC - 76 - 315

50-331



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 September, 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,

BRClark/for

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)

10256

UNIT Duane Arnold Energy Center

DATE October 7, 1976

COMPLETED BY J. Van Sickel

DOCKET NO. 050-331

OPERATING STATUS

1. REPORTING PERIOD: 0001, 760901 THROUGH 2400, 760930
   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): 490 (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.....	694.2	4844.9	16,875.6
6. REACTOR RESERVE SHUTDOWN HOURS..	-	-	-
7. HOURS GENERATOR ON LINE.....	670.9	4712.7	15,612.9
8. UNIT RESERVE SHUTDOWN HOURS.....	-	-	-
9. GROSS THERMAL ENERGY GENERATED (MWH).....	892,680	5,489,448	17,452,896
10. GROSS ELECTRICAL ENERGY GENERATED (MWH).....	298,116	1,816,498	5,792,727
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	279,349.7	1,690,116.2	5,390,356.3
12. REACTOR AVAILABILITY FACTOR (1).	96%	74%	78%
13. UNIT AVAILABILITY FACTOR (2)....	93%	72%	76%
14. UNIT CAPACITY FACTOR (3).....	75%	50%	50%
15. UNIT FORCED OUTAGE RATE (4).....	7%	4%	7%

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH): March 15, 1976 - REfuel Outage, 1 month
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 = $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MWe-NET) X HOURS IN REPORTING PERIOD}}$

(4) UNIT FORCED OUTAGE RATE = $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE+FORCED OUTAGE HOURS}} \times 100$

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AVERAGE DAILY UNIT POWER LEVEL

MONTH September

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	419	17	467
2	470	18	450
3	459	19	418
4	459	20	471
5	450	21	467
6	459	22	447
7	456	23	77
8	386	24	229
9	0	25	396
10	126	26	437
11	158	27	473
12	272	28	467
13	376	29	472
14	453	30	463
15	475	31	-
16	471		

(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 Duane Arnold Energy Center
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UNIT SHUTDOWNS

REPORT MONTH September

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
12	760909	F	28.7	A	1	Repair valve packing gland steam leaks.
13	760910	F	11	H	3	Loss of nitrogen pressure to MSIV's due to nitrogen volume depletion.
14	760923	F	9.4	A	1	Repair extraction steam leaks.

SUMMARY: