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MONTHLY REPORT

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FROM:

Iowa Electric Light and Power Co.  
Cedar Rapids, IA  
Ellery L. Hammond

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8/4/77

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## PLANT NAME:

Duane Arnold Energy Center  
VT 8/9/77

(1-P)

(3-P)

10 CYS ENCL Rec'd

ENCLOSURE  
Monthly Report for July, 1977  
Plant & Component Operability & Availability.  
This Report to be used in preparing Gray Book  
by Plans & Operations.

## FOR ACTION/INFORMATION

MIPC W/2 CYS FOR ACTION

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CONTROL NUMBER

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# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER

P. O. Box 351

Cedar Rapids, Iowa 52406

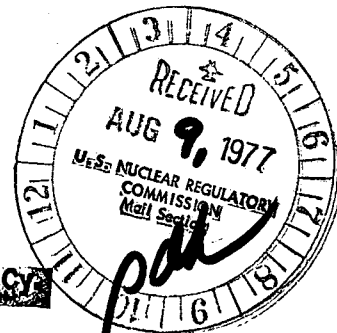
August 4, 1977

DAEC-77 - 400

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

Regulatory

File Cr



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, 1977. 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,

*Ellery L. Hammond*

Ellery L. Hammond  
Chief Engineer  
Duane Arnold Energy Center

ELH/JVS/mg

Encl.

cc: D. Arnold  
J. Wallace  
S. Smith  
L. Root  
W. Bryant  
D. Mineck  
D. Wilson  
R. Hannen  
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)

772210135

DOCT NO. 050-0331UNIT Duane Arnold Energy CenterDATE August 4, 1977COMPLETED BY J. Van SickelTELEPHONE 319-851-5611

## OPERATING STATUS

1. REPORTING PERIOD: July GROSS HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (Mwt): 1593 MAX. DEPEND. CAPACITY (MWe-Net): 515  
DESIGN ELECTRICAL RATING (MWe-Net): 538
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): 460 (approximately)
4. REASONS FOR RESTRICTION (IF ANY): Cycle 3 MCPR limitations

	THIS MONTH	YR TO DATE	CUMULATIVE
5. NUMBER OF HOURS REACTOR WAS CRITICAL . . . . .	<u>744</u>	<u>3563.3</u>	<u>17,112.7</u>
6. REACTOR RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE . . . . .	<u>744</u>	<u>3520.5</u>	<u>16,692.1</u>
8. UNIT RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH). . . . .	<u>1,027,656</u>	<u>4,575,648</u>	<u>19,356,048</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH). . . . .	<u>333,887</u>	<u>1,509,043</u>	<u>6,441,830</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH). . . . .	<u>312,241.4</u>	<u>1,408,715.7</u>	<u>5,997,626.9</u>
12. REACTOR SERVICE FACTOR . . . . .	<u>100%</u>	<u>70.0%</u>	<u>78.2%</u>
13. REACTOR AVAILABILITY FACTOR. . . . .	<u>100%</u>	<u>70.0%</u>	<u>78.2%</u>
14. UNIT SERVICE FACTOR . . . . .	<u>100%</u>	<u>69.2%</u>	<u>76.3%</u>
15. UNIT AVAILABILITY FACTOR. . . . .	<u>100%</u>	<u>69.2%</u>	<u>76.3%</u>
16. UNIT CAPACITY FACTOR (Using MDC). . . . .	<u>81.5%</u>	<u>53.8%</u>	<u>53.2%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe). . . . .	<u>78.0%</u>	<u>51.5%</u>	<u>50.9%</u>
18. UNIT FORCED OUTAGE RATE . . . . .	<u>0%</u>	<u>1.6%</u>	<u>5.6%</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): Maintenance and snubber change out, Sept. 9, 1977, 10 days.			
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: _____			

DOCKET NO. 050-0331

UNIT Duane Arnold Energy Center

DATE August 4, 1977

COMPLETED BY J. Van Sickel

**AVERAGE DAILY UNIT POWER LEVEL**

MONTH July

**AVERAGE DAILY POWER LEVEL**

DAY	(MWe-net)
1	435
2	435
3	435
4	347
5	424
6	408
7	433
8	434
9	448
10	423
11	434
12	432
13	430
14	430
15	445
16	443

**AVERAGE DAILY POWER LEVEL**

DAY	(MWe-net)
17	437
18	444
19	440
20	437
21	442
22	228
23	295
24	352
25	416
26	459
27	456
28	447
29	443
30	439
31	438

(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. 050-0331

UNIT NAME Duane Arnold Energy Center

DATE August 4, 1977

COMPLETED BY 319-851-5611

REPORT MONTH July

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
7.	770722	S	0	B	4	Power reduced to do rod sequence exchange and maintenance on "B" feedpump motor cooler.

SUMMARY: Plant continued base loaded operation.