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MONTHLY REPORT

TO:
N. R. C.

FROM:
Iowa Electric Light & Pwr. Company
Cedar Rapids, Iowa
Ellery L. Hammond

DATE OF DOCUMENT
7/9/77

DATE RECEIVED
7/11/77

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DESCRIPTION

Letter trans the following:

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ACKNOWLEDGED

PLANT NAME: Duane Arnold

RJL 7/12/77

(1-P)

ENCLOSURE

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

(3-P)

FOR ACTION/INFORMATION

MIPC W/2 CYS FOR ACTION

INTERNAL DISTRIBUTION

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EXTERNAL DISTRIBUTION

LPDR: *Cedar Rapids, Ia*
TIC
NSIC

CONTROL NUMBER

771930271

MR

BD

IOWA ELECTRIC LIGHT AND POWER COMPANY

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

July 9, 1977
DAEC-77 -358

50-331



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



File Cy.

Subject: Monthly Operating Report

File: A-118d

Dear Sirs:

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

771930271

DOCKET NO. 050-0331

UNIT Duane Arnold Energy Center

DATE July 7, 1977

COMPLETED BY J. Van Sickle

TELEPHONE 319-851-5611

OPERATING STATUS

- 1. REPORTING PERIOD: June GROSS HOURS IN REPORTING PERIOD: 720
- 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): 480 (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>720</u>	<u>2,819.3</u>	<u>16,368.7</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE	<u>720</u>	<u>2,776.5</u>	<u>15,948.1</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>999,048</u>	<u>3,547,992</u>	<u>18,328,392</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>319,831</u>	<u>1,175,156</u>	<u>6,107,943</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>298,165.5</u>	<u>1,096,474.3</u>	<u>5,685,385.5</u>
12. REACTOR SERVICE FACTOR	<u>100%</u>	<u>64.9%</u>	<u>77.4%</u>
13. REACTOR AVAILABILITY FACTOR	<u>100%</u>	<u>64.9%</u>	<u>77.4%</u>
14. UNIT SERVICE FACTOR	<u>100%</u>	<u>63.9%</u>	<u>75.4%</u>
15. UNIT AVAILABILITY FACTOR	<u>100%</u>	<u>63.9%</u>	<u>75.4%</u>
16. UNIT CAPACITY FACTOR (Using MDC)	<u>80.4%</u>	<u>49.0%</u>	<u>52.2%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)	<u>77.0%</u>	<u>46.9%</u>	<u>50.0%</u>
18. UNIT FORCED OUTAGE RATE	<u>0%</u>	<u>2.0%</u>	<u>5.9%</u>

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):

20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: _____

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AVERAGE DAILY UNIT POWER LEVEL

MONTH June

AVERAGE DAILY POWER LEVEL

DAY	(MWe-net)
1	<u>428</u>
2	<u>424</u>
3	<u>430</u>
4	<u>301</u>
5	<u>328</u>
6	<u>403</u>
7	<u>439</u>
8	<u>437</u>
9	<u>442</u>
10	<u>435</u>
11	<u>347</u>
12	<u>401</u>
13	<u>432</u>
14	<u>427</u>
15	<u>427</u>
16	<u>425</u>

AVERAGE DAILY POWER LEVEL

DAY	(MWe-net)
17	<u>424</u>
18	<u>418</u>
19	<u>401</u>
20	<u>414</u>
21	<u>420</u>
22	<u>421</u>
23	<u>421</u>
24	<u>421</u>
25	<u>422</u>
26	<u>420</u>
27	<u>425</u>
28	<u>427</u>
29	<u>433</u>
30	<u>433</u>
31	<u> </u>

- (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
 4-Other (Explain)

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UNIT SHUTDOWNS

AND POWER REDUCTIONS

REPORT MONTH June

NO.	DATE	TYPE F--FORCED S--SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER (2)	CORRECTIVE ACTIONS/COMMENTS
6	770604	S	0	B	4	Power reduction to do turbine vibration testing. Power increase slowed for fuel preconditioning and due to TIP machine problems.

SUMMARY: Plant continued base loaded operation.