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MONTHLY REPORT

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FROM: Iowa Elect. Light & Power Co.  
Cesar Rapids Iowa 52406  
Ellery L HammonsDATE OF DOCUMENT  
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## DESCRIPTION

LETTER TRANS THE FOLLOWING:

Note: Distribution per J. E. Humphrey  
1/18/77

( 1 page )

PLANT NAME: DUANE ARNOLD

## ENCLOSURE

MONTHLY REPORT FOR December 1976  
PLANT & COMPONENT OPERABILITY &  
AVAILABILITY. THIS REPORT TO BE USED IN  
PREPARING GRAY BOOK BY PLANS & OPERATIONS.( 1 encl rec'd )  
( 3 pages )**DO NOT REMOVE  
ACKNOWLEDGED**

## SAFETY

## FOR ACTION/INFORMATION

ENVIRO JCM 1-18-77

~~WTPC~~~~W/4 CYS FOR ACTION~~

## INTERNAL DISTRIBUTION

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# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER  
P. O. Box 351  
Cedar Rapids, Iowa 52406  
January 5, 1977  
DAEC - 77 - 7

## Regulatory Docket File

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 December, 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,

*Ellery L. Hammond*  
Ellery L. Hammond  
Chief Engineer  
Duane Arnold Energy Center

ELH/JVS/mg

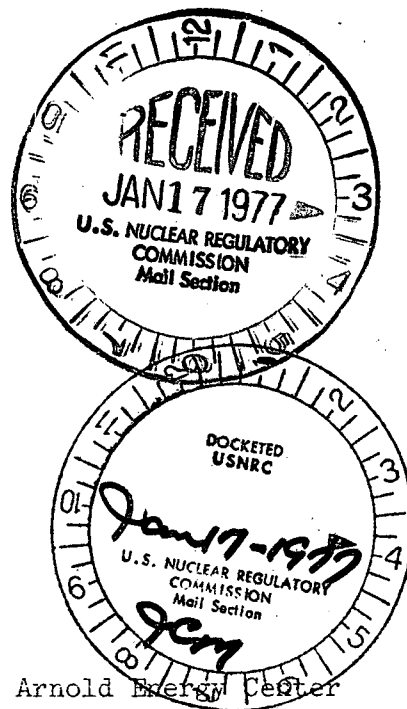
Encl.

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

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CKET NO. 050-0331

UNIT Duane Arnold Energy  
Center

DATE January 5, 1977

COMPLETED BY J. Van Sickle

TELEPHONE 319-851-5611

# OPERATING STATUS

- REPORTING PERIOD: December GROSS HOURS IN REPORTING PERIOD: 744
- CURRENTLY AUTHORIZED POWER LEVEL (MWt): 1593 MAX. DEPEND. CAPACITY (MWe-Net): 515  
DESIGN ELECTRICAL RATING (MWe-Net): 538
- POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): 430 (approximately)
- REASONS FOR RESTRICTION (IF ANY): MCPR limitations due to core plate plugging.

	THIS MONTH	YR TO DATE	CUMULATIVE
5. NUMBER OF HOURS REACTOR WAS CRITICAL . . . . .	<u>744</u>	<u>7,001.7</u>	<u>19,032.4</u>
6. REACTOR RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE . . . . .	<u>744</u>	<u>6,850.4</u>	<u>17,750.6</u>
8. UNIT RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH). . . . .	<u>951,336</u>	<u>8,023,776</u>	<u>19,987,224</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH). . . . .	<u>325,376</u>	<u>2,673,923</u>	<u>6,650,152</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH). . . . .	<u>304,036.5</u>	<u>2,489,342.1</u>	<u>6,189,582.2</u>
12. REACTOR SERVICE FACTOR . . . . .	<u>100%</u>	<u>80%</u>	<u>81%</u>
13. REACTOR AVAILABILITY FACTOR. . . . .	<u>100%</u>	<u>80%</u>	<u>81%</u>
14. UNIT SERVICE FACTOR . . . . .	<u>100%</u>	<u>78%</u>	<u>78%</u>
15. UNIT AVAILABILITY FACTOR. . . . .	<u>100%</u>	<u>78%</u>	<u>78%</u>
16. UNIT CAPACITY FACTOR (Using MDC). . . . .	<u>79%</u>	<u>55%</u>	<u>53%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe). . . . .	<u>76%</u>	<u>53%</u>	<u>51%</u>
18. UNIT FORCED OUTAGE RATE . . . . .	<u>0%</u>	<u>3%</u>	<u>6%</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): Refuel Outage - March 15, 1977 - 1 month			
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: _____			

DOCKET NO. 050-0331

UNIT Duane Arnold Energy Center

DATE January 5, 1977

COMPLETED BY J. Van Sickel

AVERAGE DAILY UNIT POWER LEVEL

MONTH December

AVERAGE DAILY POWER LEVEL	
DAY	(MWe-net)
1	<u>416</u>
2	<u>419</u>
3	<u>415</u>
4	<u>412</u>
5	<u>384</u>
6	<u>414</u>
7	<u>416</u>
8	<u>416</u>
9	<u>416</u>
10	<u>417</u>
11	<u>414</u>
12	<u>388</u>
13	<u>430</u>
14	<u>417</u>
15	<u>417</u>
16	<u>416</u>

AVERAGE DAILY POWER LEVEL	
DAY	(MWe-net)
17	<u>398</u>
18	<u>406</u>
19	<u>405</u>
20	<u>412</u>
21	<u>410</u>
22	<u>411</u>
23	<u>408</u>
24	<u>407</u>
25	<u>399</u>
26	<u>402</u>
27	<u>401</u>
28	<u>403</u>
29	<u>403</u>
30	<u>401</u>
31	<u>395</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

UNIT SHUTDOWNS

DOCKET NO. 050-0331

UNIT NAME Duane Arnold Energy Center

DATE January 5, 1977

COMPLETED BY J. Van Sickel

REPORT MONTH December

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
None						

SUMMARY: Steady state operation.