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U.S. NUCLEAR REGULATORY COMMISSION

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MONTHLY REPORT

TO: USNRC

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

DATE OF DOCUMENT
12-9-76

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DESCRIPTION

LETTER TRANS THE FOLLOWING:

ENCLOSURE

MONTHLY REPORT FOR NOVEMBER 1976

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

DO NOT REMOVE

ACKNOWLEDGED

PLANT NAME: DUANE ARNOLD

SAFETY

FOR ACTION/INFORMATION

ENVIRO

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LPDR: CEDAR RAPIDS, IOWA

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~~Regulatory~~

File Cy-3

IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER

P. O. Box 351

Cedar Rapids, Iowa 52406

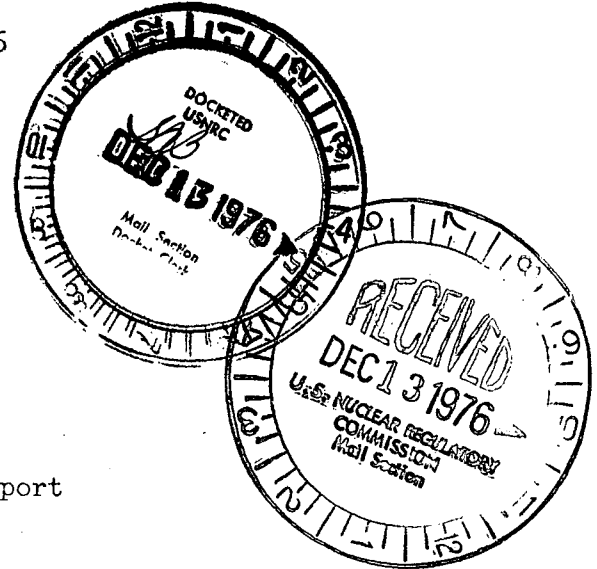
December 9, 1976

DAEC - 76 - 384

(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 November, 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 ELH

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)

12559

BUCKET NO. 050-0331

UNIT DAEC

DATE December 9, 1976

COMPLETED BY J. Van Sickel

TELEPHONE 319-851-5611

OPERATING STATUS

1. REPORTING PERIOD: November 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): 420 (approximately)

4. 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>692.5</u>	<u>6,257.7</u>	<u>18,288.4</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE	<u>680.6</u>	<u>6,106.4</u>	<u>17,006.6</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).	<u>676,752</u>	<u>7,072,440</u>	<u>19,035,888</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH).	<u>224,408</u>	<u>2,348,547</u>	<u>6,324,776</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).	<u>207,492.6</u>	<u>2,185,305.6</u>	<u>5,885,545.7</u>
12. REACTOR SERVICE FACTOR	<u>96%</u>	<u>78%</u>	<u>80%</u>
13. REACTOR AVAILABILITY FACTOR.	<u>96%</u>	<u>78%</u>	<u>80%</u>
14. UNIT SERVICE FACTOR	<u>95%</u>	<u>76%</u>	<u>77%</u>
15. UNIT AVAILABILITY FACTOR.	<u>95%</u>	<u>76%</u>	<u>77%</u>
16. UNIT CAPACITY FACTOR (Using MDC).	<u>56%</u>	<u>53%</u>	<u>52%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe).	<u>54%</u>	<u>51%</u>	<u>50%</u>
18. UNIT FORCED OUTAGE RATE	<u>5%</u>	<u>4%</u>	<u>7%</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 December 9, 1976

COMPLETED BY J. Van Sickel

AVERAGE DAILY UNIT POWER LEVEL

MONTH November

AVERAGE DAILY POWER LEVEL	
DAY	(MWe-net)
1	349
2	349
3	351
4	353
5	332
6	198
7	250
8	279
9	315
10	389
11	405
12	218
13	159
14	224
15	252
16	348

AVERAGE DAILY POWER LEVEL	
DAY	(MWe-net)
17	397
18	414
19	382
20	3
21	143
22	245
23	120
24	124
25	222
26	267
27	309
28	401
29	410
30	419
31	-

(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 December 9, 1976

COMPLETED BY J. Van Sickle

REPORT MONTH November

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
16.	761120	F	21.6	A	1	Adjust MSIV-LCS valve limit and torque switches and inspection of Limitorque SMB000 valve operators.
17.	761123	F	17.8	A	3	Water level instrument manifold rack shut-off valve leaked by during a surveillance test giving false water level indication.

SUMMARY: Higher power level operations being hampered by MCPD limitations and continuing problems with the MSIV leakage control system.