

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

MONTHLY REPORT

TO:

N. R. C.

FROM:

Iowa Electric Light & Power Company
Cedar Rapids, Iowa
Ellery L. Hammond

DATE OF DOCUMENT
12/06/77

DATE RECEIVED
12/06/77

☒ LETTER
☒ ORIGINAL
☐ COPY

☐ NOTORIZED
☒ UNCLASSIFIED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

SIGNED

[illegible]

Letter trans the following:

ENCLOSURE

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

 $(1-P)$

(3-P)

PLANT NAME: Duane Arnold
RJL 12/14/77

1 ENCL

FOR ACTION/INFORMATION

MIPC W/2 CYS FOR ACTION

INTERNAL DISTRIBUTION

Reg Files

NRC PDR

Branch Chief (L)(2)	LEAR
---------------------	------

Lie Asst

EXTERNAL DISTRIBUTION

CONTROL NUMBER

LPDR: CEDAR RAPIDS IA.

TIC

NSIC

773480004

IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER

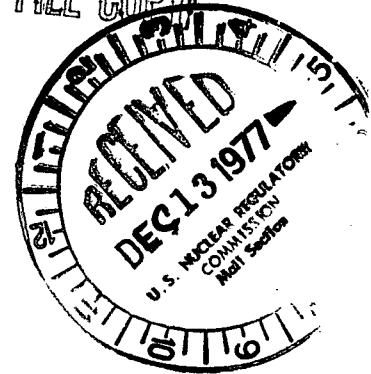
P. O. Box 351

Cedar Rapids, Iowa 52406

December 6, 1977

DAEC -77 - 607

REGULATORY DOCKET FILE COPY



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, 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
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)

773480004

CKET NO. 050-0331

Duane Arnold
UNIT Energy Center

DATE December 6, 1977

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): 1658 MAX. DEPEND. CAPACITY (MWe-Net): 515
DESIGN ELECTRICAL RATING (MWe-Net): 538

3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net):

4. REASONS FOR RESTRICTION (IF ANY):

	THIS MONTH	YR TO DATE	CUMULATIVE
5. NUMBER OF HOURS REACTOR WAS CRITICAL	634.9	6260.6	19,810
6. REACTOR RESERVE SHUTDOWN HOURS	0	0	0
7. HOURS GENERATOR ON LINE	614.8	6167.1	19338.7
8. UNIT RESERVE SHUTDOWN HOURS	0	0	0
9. GROSS THERMAL ENERGY GENERATED (MWH)	852,624	8,211,288	22,991,688
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	285,777	2,715,500	7,648,287
11. NET ELECTRICAL ENERGY GENERATED (MWH)	268,520.3	2,540,114.1	7,129,025.3
12. REACTOR SERVICE FACTOR	88.2%	78.1%	79.8%
13. REACTOR AVAILABILITY FACTOR	88.2%	78.1%	79.8%
14. UNIT SERVICE FACTOR	85.4%	76.9%	77.9%
15. UNIT AVAILABILITY FACTOR	85.4%	76.9%	77.9%
16. UNIT CAPACITY FACTOR (Using MDC)	72.4%	61.5%	55.8%
17. UNIT CAPACITY FACTOR (Using Design MWe)	69.3%	58.9%	53.4%
18. UNIT FORCED OUTAGE RATE	3.8%	2.8%	5.4%

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

Refueling, March 10, 1978, 28 days

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

DOCKET NO. 050-0331

UNIT Duane Arnold Energy Center

DATE December 6, 1977

COMPLETED BY J. Van Sickel

-AVERAGE DAILY UNIT POWER LEVEL

MONTH November

AVERAGE DAILY POWER LEVEL

DAY	(MWe-net)
1	261
2	236
3	374
4	432
5	495
6	490
7	488
8	487
9	478
10	488
11	493
12	502
13	427
14	486
15	486
16	489

AVERAGE DAILY POWER LEVEL

DAY	(MWe-net)
17	421
18	3
19	0
20	0
21	9
22	161
23	331
24	417
25	379
26	419
27	477
28	479
29	475
30	475
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
 4-Other (Explain)

DOCKET NO. 050-0331

UNIT NAME Duane Arnold Energy Center

DATE December 6, 1977

COMPLETED BY J. Van Sickle

TELEPHONE 319-851-5611

UNIT SHUTDOWNS

AND POWER REDUCTIONS

REPORT MONTH November

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER (2)	CORRECTIVE ACTIONS/COMMENTS
15.	771101	F	11.1	H	3	Instrument technician caused false high water level signal which tripped the main turbine followed by Rx scram.
16.	771118	S	80.8	B	1	Outage to inspect inaccessible hydraulic snubbers.
17.	771121	F	5.0	G	3	While valving in nitrogen supply to one MSIV caused low nitrogen pressure to another MSIV which began drifting shut causing scram.
18.	771121	F	8.3	A	3	"A" feed reg. valve failed to control level properly resulting in Rx low water level and Rx scram.

SUMMARY: No problems were found with hydraulic snubbers during outage. Plant resumed base loaded operation.

RECEIVED DOCUMENT
PROCESSING UNIT

1977 DEC 12 PM 2 42