MONTHLY REPORTS (FOR GRAY BOOK PREPARATION)

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| | XXX | | | 1 | 50-331 |

DESCRIPTION:

Ltr trans the following:

ENCLOSURES:

Monthly Report for September 1975
Plant & Component Operability & Availability
This Report to be used in preparing Gray Book by Plans & Operations.

NUMBER OF COPIES REC'D: 1

PLANT NAME: Duane Arnold

## FOR ACTION/INFORMATION

SAB 10-15-75

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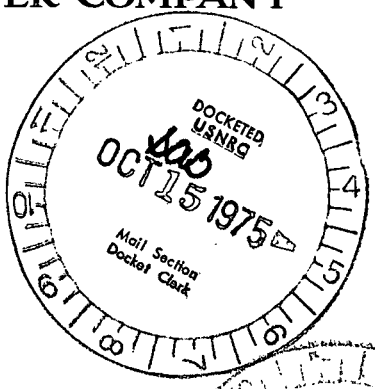
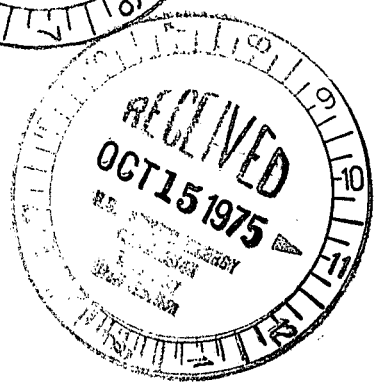
# IOWA ELECTRIC LIGHT AND POWER COMPANY

*General Office*
CEDAR RAPIDS, IOWA
DUANE ARNOLD ENERGY CENTER
PALO, IOWA
OCTOBER 9, 1975
DAEC - 75 - 375




Office of Plans and Schedules
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D.C. 20545

Subject: Monthly Plant and Component Operability and Availability Report

File: A-118d
Regulatory File Cy

Gentlemen:

In accordance with Regulatory Guide 1.16, please find enclosed the Monthly Plant and Component Operability and Availability Report for September 1975.

Very truly yours,

G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

DLW/GGH/mg

Enclosure

cc: Duane Arnold
J. A. Wallace
L. D. Root
D. L. Wilson
W. D. Bryant
E. L. Hammond
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Dennis Murdock
George Toyne

Directorate of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

11972

UNIT Duane Arnold Energy Center

DATE October 8, 1975

COMPLETED BY D. Wilson

DOCKET NO. 50-331 319/851-5611

OPERATING STATUS

1. REPORTING PERIOD: 0001, 750901 THROUGH 2400, 750930
   HOURS IN REPORTING PERIOD: 720
2. CURRENTLY AUTHORIZED POWER LEVEL (MWth) 1593 MAX. DEPENDABLE CAPACITY (MWe-NET) 515
3. LOWEST POWER LEVEL TO WHICH SPECIFICALLY RESTRICTED (IF ANY) (MWe-NET): 430 (approximately)
4. REASONS FOR RESTRICTION (IF ANY): NRC directive as the result of potential in-core instrument tube vibration.

| | THIS REPORTING PERIOD | YR TO DATE | CUMULATIVE TO DATE |
|---|---|---|---|
| 5. HOURS REACTOR WAS CRITICAL..... | 710.5 | 5128.2 | 9883.0 |
| 6. REACTOR RESERVE SHUTDOWN HOURS.. | 0 | 0 | |
| 7. HOURS GENERATOR ON LINE..... | 685 | 4862.7 | 8774.7 |
| 8. UNIT RESERVE SHUTDOWN HOURS..... | 0 | 0 | 0 |
| 9. GROSS THERMAL ENERGY GENERATED (MWH)..... | 671,496 | 4,927,080 | 9,469,800 |
| 10. GROSS ELECTRICAL ENERGY GENERATED (MWH)..... | 227,953 | 1,632,200 | 3,136,950 |
| 11. NET ELECTRICAL ENERGY GENERATED (MWH)..... | 212,523.9 | 1,516,244 | 2,918,301 |
| 12. REACTOR AVAILABILITY FACTOR (1). | 99% | 76% | 76% |
| 13. UNIT AVAILABILITY FACTOR (2).... | 95% | 72% | 72% |
| 14. UNIT CAPACITY FACTOR (3)..... | 57% | 50% | 50% |
| 15. UNIT FORCED OUTAGE RATE (4)..... | 5% | 12% | 12% |

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH):
17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:
18. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:

| | DATE LAST FORECAST | DATE ACHIEVED |
|---|---|---|
| INITIAL CRITICALITY | | |
| INITIAL ELECTRICAL POWER GENERATION | | |
| COMMERCIAL OPERATION | | February 1975 |

(1) REACTOR AVAILABILITY FACTOR = $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

(2) UNIT AVAILABILITY FACTOR = $\frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

(3) UNIT CAPACITY FACTOR = $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MWe-NET) X HOURS IN REPORTING PERIOD}}$

(4) UNIT FORCED OUTAGE RATE = $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE+FORCED OUTAGE HOURS}} \times 100$

(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. 50-331
UNIT NAME Duane Arnold Energy Center
DATE October 8, 1975
COMPLETED BY D. Wilson 319/851-5611

REPORT MONTH September 1975

| NO. | DATE | TYPE F-FORCED S-SCHEDULED | DURATION (HOURS) | REASON (1) | METHOD OF SHUTTING DOWN THE REACTOR (2) | CORRECTIVE ACTIONS/COMMENTS |
|---|---|---|---|---|---|---|
| 16 | 750903 | F | 22.5 | 1 | N/A | Packing leaks on feedwater stop check valves and main steam isolation valve. |
| 17 | 750929 | F | 12.5 | 1 | 3 | Malfunction of turbine EHC system while performing turbine control valve surveillance testing. |

SUMMARY: Reactor operation continued in load following mode.

DOCKET NO. 50-331

UNIT Duane Arnold Energy Center

DATE October 4, 1975

COMPLETED BY D. Wilson 319/851-5611

# AVERAGE DAILY UNIT POWER LEVEL

MONTH September 1975

| DAY | AVERAGE DAILY POWER LEVEL (MWe-net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-net) |
|---|---|---|---|
| 1 | 285.4 | 17 | 293.7 |
| 2 | 288.2 | 18 | 314.3 |
| 3 | 14.6 | 19 | 418.9 |
| 4 | 208.8 | 20 | 426.0 |
| 5 | 304.8 | 21 | 403.4 |
| 6 | 308.4 | 22 | 371.5 |
| 7 | 277.8 | 23 | 370.0 |
| 8 | 296.1 | 24 | 371.2 |
| 9 | 297.8 | 25 | 375.1 |
| 10 | 285.5 | 26 | 371.3 |
| 11 | 304.1 | 27 | 214.1 |
| 12 | 295.3 | 28 | 297.8 |
| 13 | 290.7 | 29 | 112.0 |
| 14 | 258.5 | 30 | 222 |
| 15 | 288.4 | 31 | - |
| 16 | 289.5 | | |