

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL  
(TEMPORARY FORM)

CONTROL NO: 3913

FILE: MONTHLY REPORT FILE

|  |                 |                       |                       |                   |                            |     |       |
|--|-----------------|-----------------------|-----------------------|-------------------|----------------------------|-----|-------|
| FROM: Iowa Electric Light and Power Co. Cedar Rapids, Iowa<br>G..G. Hunt |                 | DATE OF DOC<br>4-7-75 | DATE REC'D<br>4-10-75 | LTR<br>xxx        | TWX                        | RPT | OTHER |
| TO: Office of Plans and Schedules  |                 | ORIG<br>1-signed      | CC                    | OTHER             | SENT AEC PDR <u>xxx</u>    |     |       |
|  |                 |                       |                       |                   | SENT LOCAL PDR <u>xxxx</u> |     |       |
| CLASS  | UNCLASS<br>xxxx | PROP INFO             | INPUT                 | NO CYS REC'D<br>1 | DOCKET NO:<br>50-331       |     |       |

DESCRIPTION:

Ltr trans the following:

ENCLOSURES:

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

No. of Cys Rec'd 1

PLANT NAME: Duane Arnold

FOR ACTION/INFORMATION

4-10-75 JGB

|                         |                            |                             |                         |
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INTERNAL DISTRIBUTION

|  |   |  |   |  |
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| <u>REG FILE</u><br>AEC PDR -<br>OGC, ROOM P-506-A<br>MUNTZING/STAFF<br>CASE<br>GIAMBUSSO<br>BOYD<br>MOORE (S) (BWR)<br>DEYOUNG (S) (PWR)<br>SKOVHOLT (S)<br>GOLLER (S)<br>P. COLLINS<br>DENISE<br>REG OPR<br>FILE & REGION (2)<br>T.R. WILSON STEELE | <u>TECH REVIEW</u><br>SCHROEDER<br>MACCARRY<br>KNIGHT<br>PAWLICKI<br>SHAO<br>STELLO<br>HOUSTON<br>NOVAK<br>ROSS<br>IPPOLITO<br>TEDESCO<br>LONG<br>LAINAS<br>BENAROYA<br>VOLIMER | <u>DENTON</u><br>GRIMES<br>GAMMILL<br>KASTNER<br>BALLARD<br>SPANGLER<br><br><u>ENVIRO</u><br>MULLER<br>DICKER<br>KNIGHTON<br>YOUNGBLOOD<br>REGAN<br>PROJECT LDR<br>HARLESS | <u>LIC ASST</u><br>DIGGS (S)<br>GEARIN (S)<br>GOULBOURNE (S)<br>KREUTZER (E)<br>LEE (S)<br>MAIGRET (S)<br>REED (E)<br>SERVICE (S)<br>SHEPPARD (S)<br>SLATER (E)<br>SMITH (S)<br>TEETS (S)<br>WILLIAMS (E)<br>WILSON (S)<br>INGRAM (S) | <u>A/T IND</u><br>BRAITMAN<br>SALTZMAN<br>B. HURT<br><br><u>PLANS</u><br>MCDONALD<br>CHAPMAN<br>DUBE w/input<br>E. COUPE<br><br>D. THOMPSON (2)<br>KLECKER<br>EISENHUT |
|--|---|--|---|--|

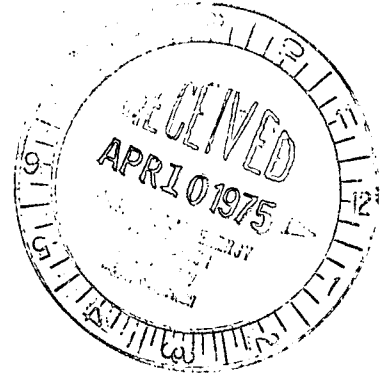
EXTERNAL DISTRIBUTION

|                                |                               |                              |
|--------------------------------|-------------------------------|------------------------------|
| 1-LOCAL PDR Cedar Rapids, Iowa | (1) (2) (10) -NATIONAL LABS   | 1-PDR SAN/LA/NY              |
| 1-TIC (ABERNATHY)              | 1-W. PENNINGTON, RM-E-201G.T. | 1-BROOKHAVEN NAT LAB         |
| 1-NSIC (BUCHANAN)              | 1-CONSULTANTS                 | 1-G. ULRIKSON, ORNL          |
| 1-ASLB                         | NEWMARK/BLUME/AGBABIAN        | 1-AGMED RUTH GUSSMAN         |
| 1-NEWTON ANDERSON              |                               | ROOM B-127.G.T.              |
| 16-ACRS HOLDING                |                               | 1-J. RUNKLES RM-E-20<br>G.T. |

# IOWA ELECTRIC LIGHT AND POWER COMPANY

*General Office*

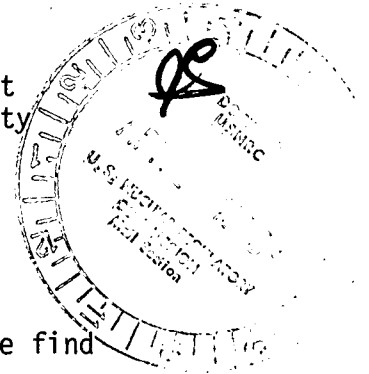
CEDAR RAPIDS, IOWA  
DUANE ARNOLD ENERGY CENTER  
PALO, IOWA  
APRIL 7, 1975  
DAEC-75-148



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



Gentlemen:

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

Yours very truly,

A handwritten signature in black ink, appearing to read "G. G. Hunt".

G. G. Hunt  
Chief Engineer  
Duane Arnold Energy Center

DLW:GGH:bh  
Enclosure

CC: C. W. Sandford  
J. A. Wallace  
L. D. Root  
D. L. Wilson  
E. L. Hammond  
B. R. York  
D. A. Moen  
K. M. Haas  
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B. L. Hopkins

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

3913

DATE April 7, 1975

COMPLETED BY D. Wilson

DOCKET NO. 50-331

OPERATING STATUS

1. REPORTING PERIOD: 0001,750301 THROUGH 2400,750331  
HOURS IN REPORTING PERIOD: 744
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):
4. REASONS FOR RESTRICTION (IF ANY):

|  | THIS REPORTING PERIOD | YR TO DATE | CUMULATIVE TO DATE |
|--|-----------------------|------------|--------------------|
| 5. HOURS REACTOR WAS CRITICAL.....               | 744                   | 1,933.7    | 6,688.5            |
| 6. REACTOR RESERVE SHUTDOWN HOURS..              | 0                     | 0          | 0                  |
| 7. HOURS GENERATOR ON LINE.....                  | 715.5                 | 1,832.0    | 5,744              |
| 8. UNIT RESERVE SHUTDOWN HOURS.....              | 0                     | 0          | 0                  |
| 9. GROSS THERMAL ENERGY GENERATED (MWH).....     | 789,192               | 1,916,808  | 6,459,528          |
| 10. GROSS ELECTRICAL ENERGY GENERATED (MWH)..... | 265,671               | 630,738    | 2,135,488          |
| 11. NET ELECTRICAL ENERGY GENERATED (MWH).....   | 247,787.5             | 588,574.5  | 1,990,631.5        |
| 12. REACTOR AVAILABILITY FACTOR (1).....         | 100%                  | 85.1%      | 85.1%              |
| 13. UNIT AVAILABILITY FACTOR (2).....            | 96.2%                 | 82.3%      | 82.3%              |
| 14. UNIT CAPACITY FACTOR (3).....                | 64.7%                 | 53.5%      | 53.5%              |
| 15. UNIT FORCED OUTAGE RATE (4).....             | 1.5%                  | 16.7%      | 16.7%              |

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 =  $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MWe-NET)} \times \text{HOURS IN REPORTING PERIOD}}$
- (4) UNIT FORCED OUTAGE RATE =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

DOCKET NO. 50-331

UNIT Duane Arnold Energy Center

DATE April 7, 1975

COMPLETED BY D. Wilson-319/851-5611

AVERAGE DAILY UNIT POWER LEVEL

MONTH March 1975

| DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-net) |
|-----|--|
| 1   | <u>27</u>                              |
| 2   | <u>274</u>                             |
| 3   | <u>396</u>                             |
| 4   | <u>403</u>                             |
| 5   | <u>415</u>                             |
| 6   | <u>415</u>                             |
| 7   | <u>421</u>                             |
| 8   | <u>400</u>                             |
| 9   | <u>378</u>                             |
| 10  | <u>408</u>                             |
| 11  | <u>407</u>                             |
| 12  | <u>403</u>                             |
| 13  | <u>427</u>                             |
| 14  | <u>425</u>                             |
| 15  | <u>358</u>                             |
| 16  | <u>307</u>                             |

| DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-net) |
|-----|--|
| 17  | <u>381</u>                             |
| 18  | <u>388</u>                             |
| 19  | <u>327</u>                             |
| 20  | <u>269</u>                             |
| 21  | <u>225</u>                             |
| 22  | <u>162</u>                             |
| 23  | <u>17</u>                              |
| 24  | <u>221</u>                             |
| 25  | <u>341</u>                             |
| 26  | <u>357</u>                             |
| 27  | <u>340</u>                             |
| 28  | <u>300</u>                             |
| 29  | <u>372</u>                             |
| 30  | <u>357</u>                             |
| 31  | <u>402</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. 50-331

UNIT NAME Duane Arnold Energy Center

DATE April 7, 1975

COMPLETED BY D. Wilson-319/851-5611

REPORT MONTH March 1975

| NO. | DATE   | TYPE<br>F-FORCED<br>S-SCHEDULED | DURATION<br>(HOURS) | REASON (1) | METHOD OF<br>SHUTTING DOWN<br>THE REACTOR (2) | CORRECTIVE ACTIONS/COMMENTS   |
|-----|--------|---------------------------------|---------------------|------------|---|---|
| 6   | 750301 | S                               | 17.5                | B          | N/A   | Install Circulating Water Pump previously removed for repair.   |
| 7   | 750323 | F                               | 11.0                | A          | N/A   | Recirculation discharge valve internal packing leak. See Abnormal Occurrence Report No. 50-331/75-14 dated March 31, 1975 |

SUMMARY: