

OPERATING DATA REPORT

DOCKET NO. 050-0331

DATE 12-15-83

COMPLETED BY Matt Andersen

TELEPHONE 319-851-7308

OPERATING STATUS

Notes

1. Unit Name Duane Arnold Energy Center
2. Reporting Period November, 1983
3. Licensed Thermal Power (MWt): 1658
- *4. Nameplate Rating (Gross MWe): 565 (Turbine Rating)
5. Design Electrical Rating (Net MWe): 538
6. Maximum Dependable Capacity (Gross MWe): 545
7. Maximum Dependable Capacity (Net MWe): 515
8. If Changes Occur In Capacity Ratings (Items Number 3 Through 7) Since the Last Report, Give Reasons:
9. Power Level to Which Restricted, If Any (Net MWe):
10. Reasons For Restrictions, If Any:

| | This Month | Yr-to-Date | Cumulative |
|--|------------|------------|------------|
| 11. Hours In Reporting Period | 720.0 | 8016.0 | 77400.0 |
| 12. Number of Hours Reactor Was Critical | 693.8 | 4934.7 | 55191.0 |
| 13. Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. Hours Generator On-Line | 686.9 | 4763.5 | 53698.7 |
| 15. Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. Gross Thermal Energy Generated (MWH) | 102080.4 | 6213729.6 | 66583249.6 |
| 17. Gross Electrical Energy Generated (MWH) | 349255.0 | 2083359.0 | 22298276.0 |
| 18. Net Electrical Energy Generated (MWH) | 328021.1 | 1950395.7 | 20864668.1 |
| 19. Unit Service Factor | 95.4% | 59.4% | 69.4% |
| 20. Unit Availability Factor | 95.4% | 59.4% | 69.4% |
| 21. Unit Capacity Factor (Using MDC Net) | 88.5% | 47.2% | 52.3% |
| 22. Unit Capacity Factor (Using DER Net) | 84.7% | 45.2% | 50.1% |
| 23. Unit Forced Outage Rate | 4.6% | 13.9% | 17.5% |
| 24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): | | | |

25. If Shut Down At End Of Report Period, Estimated Date of Startup:

*Turbine Rating: 565.7 MWe

Generator Rating: 663.5 (MVA) x .90 (Power Factor) = 597 MWe

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(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331UNIT Duane Arnold Energy CenterDATE December 15, 1983COMPLETED BY Matt AndersenTELEPHONE 319-851-7308MONTH November 1983

DAY AVERAGE DAILY POWER LEVEL

(MWe-Net)

| | |
|----|------------|
| 1 | <u>382</u> |
| 2 | <u>440</u> |
| 3 | <u>525</u> |
| 4 | <u>536</u> |
| 5 | <u>534</u> |
| 6 | <u>523</u> |
| 7 | <u>530</u> |
| 8 | <u>393</u> |
| 9 | <u>0</u> |
| 10 | <u>289</u> |
| 11 | <u>424</u> |
| 12 | <u>394</u> |
| 13 | <u>484</u> |
| 14 | <u>533</u> |
| 15 | <u>529</u> |
| 16 | <u>536</u> |

DAY AVERAGE DAILY POWER LEVEL

(MWe-Net)

| | |
|----|------------|
| 17 | <u>534</u> |
| 18 | <u>531</u> |
| 19 | <u>525</u> |
| 20 | <u>525</u> |
| 21 | <u>535</u> |
| 22 | <u>530</u> |
| 23 | <u>536</u> |
| 24 | <u>535</u> |
| 25 | <u>539</u> |
| 26 | <u>536</u> |
| 27 | <u>526</u> |
| 28 | <u>532</u> |
| 29 | <u>542</u> |
| 30 | <u>534</u> |
| 31 | <u>N/A</u> |

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

UNIT SHUTDOWNS AND POWER REDUCTIONS

Docket No. 050-0331

Unit Name Duane Arnold Energy Center

Date December 15, 1983

Completed by Matt Andersen

Telephone 319-851-7308

REPORT MONTH November 1983

| No. | Date | Type ¹ | Duration (hours) | Reason ² | Method of Shutting Down Reactor ³ | Licensee Event Report # | System ⁴ | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|--------|-------------------|---------------------|---------------------|--|-------------------------------|---------------------|-----------|--|
| 16 | 831108 | F | 33.1 | B | 2 | 83-042 | SF | ZZZZZZ | Maintenance inadvertently blew two fuses in the LPCI loop select control wiring during a surveillance test. Test relay was not reset after replacing the blown fuses; causing LPCI loop select logic to trip both recirc pumps. The surveillance test procedure shall be revised. |

1 F: Forced
S: Scheduled

2 Reason:
A-Equipment Failure(Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error(Explain)
H-Other(Explain)

3 Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Other(Explain)

4 Exhibit G-Instructions
for Preparation of Data
Entry Sheets for Licensee
Event Report (LER) File (NUREG-
0161)

5 Exhibit 1-Same Source

(9/77)

Docket No. 050-0331
Unit Duane Arnold Energy Ctr
Date December 15, 1983
Completed by Matt Andersen
Telephone 319-851-7308

REFUELING INFORMATION

1. Name of facility.
A. Duane Arnold Energy Center
2. Scheduled date for next refueling shutdown.
A. Fall, 1984
3. Scheduled date for restart following refueling.
A. Fall 1984
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

None currently identified.
5. Scheduled date(s) for submitting proposed licensing action and supporting information.

N/A
6. Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures.

None
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.

A. a) 368 b) 576
8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies.

A. 2050
9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity.

A. 1998

Docket No. 050-0331

Unit Duane Arnold Energy Center

Date December 15, 1983

Completed by Matt A-dersen

Telephone 319-851-7308

MAJOR SAFETY RELATED MAINTENANCE

| DATE | SYSTEM | COMPONENT | DESCRIPTION |
|----------|--------------------|--------------------|---|
| 11-3-83 | RHR Service Water | PI-4926B | New gauge installed and calibrated. |
| 11-22-83 | Neutron Monitoring | APRM Flow Unit "C" | Replaced operational amplifier on square root converter. |
| 11-28-83 | CAD | SV-4333A, B | Replaced reed switches and adjusted. |
| 11-30-83 | CAD | PCV-4323A, B | Replaced "O" rings and seats for respective regulators. (RU 83-044) |

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

11-1-83 Normal plant operation at 270 MWe.

11-5-83 Normal plant operation at 544 MWe.

11-8-83 At 1745 hours, both recirc MG sets & pumps tripped due to fuse replacement in panel 1C-32. Within 15 seconds, reactor operators initiated a manual scram in accordance with Tech Spec 3.3.E.

(RO 83-042)

11-9-83 At 0610 hours, commenced reactor startup.

At 0810 hours, stopped pulling rods due to problem with PSV-3223B on "B" diesel generator air start flask.

At 1853 hours, continued reactor startup.

At 2000 hours, reactor critical.

11-10-83 At 0254 hours, main generator on-line.

At 1300 hours, operators noticed power decrease and vacuum decreasing. Offgas pressure increased and blew loop seal and counts went from 10 to 20 cps.

11-13-83 Normal plant operation at 331 MWe.

11-18-83 Normal plant operation at 540 MWe.

11-22-83 Normal plant operation at 540 MWe.

11-28-83 At 0100 hours, "B" torus level recorder out of spec low, commenced 30-day LCO.

At 1510 hours, declared CAD system inoperable, commenced 7-day LCO.

(RO 83-044 pending)

11-30-83 Normal plant operation at 544 MWe.

At 1717 hours, "B" torus level recorder returned to service.

Iowa Electric Light and Power Company

December 15, 1983

DAEC-83- 887

Director, Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

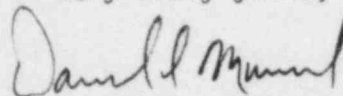
Attn: Document Control Desk

Subject: Duane Arnold Energy Center
Docket No. 50-331
Op. License DPR-49
November 1983, Monthly Operating Report

Dear Sirs:

Please find enclosed 12 copies of the Duane Arnold Energy Center Monthly Operating Report for November 1983. The report has been prepared in accordance with the guidelines of Regulatory Guide 1.16 and distribution has been made in accordance with DAEC Technical Specifications, Appendix A, Section 6.11.1.c and Regulatory Guide 10.1.

Very truly yours,



Daniel L. Mineck
Plant Superintendent - Nuclear
Duane Arnold Energy Center

DLM/MWA/pf*
Enclosures
File A-118d, TE-5

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