

OPERATING DATA REPORT

DOCKET NO. 050-0331

DATE 1-15-86

COMPLETED BY Kenneth S. Putnam

TELEPHONE 319-851-7456

OPERATING STATUS

1. Unit Name Duane Arnold Energy Center
2. Reporting Period December, 1985
3. Licensed Thermal Power (MWt): 1658
4. Nameplate Rating (Gross MWe): 565 (Turbine)
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:

Notes

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	744.0	8760.0	95688.0
12. Number of Hours Reactor Was Critical	744.0	4733.2	67321.9
13. Reactor Reserve Shutdown Hours	0	0	150.3
14. Hours Generator On-Line	744.0	4711.8	65559.5
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	940744	6146300	82606234
17. Gross Electrical Energy Generated (MWH)	322716	2068707	27656061
18. Net Electrical Energy Generated (MWH)	303596	1940486	25896637
19. Unit Service Factor	100.0	53.8	68.5
20. Unit Availability Factor	100.0	53.8	68.5
21. Unit Capacity Factor (Using MDC Net)	79.2	43.0	52.6
22. Unit Capacity Factor (Using DER Net)	75.8	41.2	50.3
23. Unit Forced Outage Rate	0	0	15.9
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

An approximately one week outage for installation of the auxillary transformer and to perform annual

surveillance tests is tentatively scheduled in April/May, 1986.

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

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(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331

UNIT Duane Arnold Energy Center

DATE 1-15-85

COMPLETED BY Kenneth S. Putnam

TELEPHONE 319-851-7456

MONTH December, 1985

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>362</u>
2	<u>416</u>
3	<u>413</u>
4	<u>409</u>
5	<u>412</u>
6	<u>414</u>
7	<u>406</u>
8	<u>410</u>
9	<u>411</u>
10	<u>410</u>
11	<u>416</u>
12	<u>412</u>
13	<u>417</u>
14	<u>277</u>
15	<u>365</u>
16	<u>401</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>400</u>
18	<u>425</u>
19	<u>398</u>
20	<u>410</u>
21	<u>462</u>
22	<u>457</u>
23	<u>448</u>
24	<u>421</u>
25	<u>419</u>
26	<u>417</u>
27	<u>418</u>
28	<u>410</u>
29	<u>413</u>
30	<u>413</u>
31	<u>415</u>

INSTRUCTIONS

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

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

Docket No. 050-0331

Unit Name Duane Arnold Energy Center

Date 1-15-85

REPORT MONTH December, 1985

Completed by Kenneth S. Putnam

Telephone 319-851-7456

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting ³ Down Reactor	Licensee Event Report #	System ⁴ Code	Component ⁵ Code	Cause
10	12/14/85	S	0	H/B	1	LER 85-43, Rev. 1	BJ	ISV	Power was reduced to approximately 40% to permit a control rod sequence exchange. The reduced power levels also facilitated planned maintenance activities in the steam tunnel on a HPCI steam supply isolation valve.

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

Docket No. 050-0331

Unit Name Duane Arnold Energy Center

Date 1-15-85

Completed by Kenneth S. Putnam

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MAJOR/SAFETY RELATED MAINTENANCE

DATE	SYSTEM	COMPONENT	DESCRIPTION
12/14/85	High Pressure Coolant Injection (HPCI)	Steam Supply Isolation Valve (BJ-ISV-2239)	Replaced Valve Packing (LER 85-43, Rev. 1)

Docket No. 050-0331
Unit Name Duane Arnold Energy Center
Date 1-15-85
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REFUELING INFORMATION

1. Name of facility.
A. Duane Arnold Energy Center
2. Scheduled date for next refueling shutdown.
A. 1987
3. Scheduled date for restart following refueling.
A. 1987
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?
A. None currently identified
5. Scheduled date(s) for submitting proposed licensing action and supporting information.
A. None currently identified
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) 696
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

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NARRATIVE SUMMARY OF OPERATING EXPERIENCE

- 12/01/85 At the beginning of the month, the plant was in normal power operation with 378 MWa gross electrical generation. Power levels were restricted to conserve fuel per utility fuel burn goals.
- At 0802 hours, the "A" Control Building Standby Filter Unit auto-started when an associated radiation monitor failed downscale.
(LER 85-47, Rev. 0
LER 85-47, Rev. 1, Pending)
- 12/03/85 At 0145 hours, a torus temperature recorder (TR-4386 Pen 1) was found to not properly track torus temperature. A 30 day LCO was entered.
- 12/06/85 Torus temperature recorder (TR-4386 Pen 1) was declared operable at 2052 hours ending the 30 day LCO.
- 12/09/85 At 1245 hours, testing of the steam leak detection instrumentation for the Reactor Core Isolation cooling system found the steam supply high flow instrumentation out of calibration slightly beyond Technical Specification values. The high flow instrumentation was evaluated as still capable of performing its design function. Other parameters of steam leak detection Isolation logic were fully operational. The high flow instrumentation was recalibrated and returned to service.
- 12/11/85 At 1058 hours, the "B" Offgas Sample Radiation Monitor was found Inoperable during testing commencing a 7 day LCO.
- At 1210 hours, testing of the "B" Standby Filter Unit (SFU) found an exhaust damper (AV-7322B) to stick in the open position. Although the damper itself has no safety function, the "B" train of SFU was conservatively declared Inoperable due to the potential for partial system flow loss. A 7 day LCO commenced.
- 12/13/85 At 0955 hours, the "B" Offgas sample Radiation Monitor was returned to service ending the 7 day LCO.
- At 2201 hours, the High Pressure Coolant Injection (HPCI) System was voluntarily removed from service to permit planned packing maintenance on a steam supply valve.
(LER 85-43, Rev. 1)
- 12/14/85 At 0150 hours, a power reduction to approximately 40% was initiated to permit a control rod sequence exchange. At 1740 hours, a reactor power increase was initiated.
- At 1830 hours, the HPCI system was returned to service ending the 7 day LCO.
- 12/16/86 At 1023 hours, a Torus temperature transmitter (TT 4324) was found Inoperable during testing commencing a 30 day LCO.
- At 1854 hours, the "B" Control Room Standby Filter Unit was returned to service ending the 7 day LCO.

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NARRATIVE SUMMARY OF OPERATING EXPERIENCE (Continued)

- 12-17-85 At 1117 hours, performance of a manual sensor check of the "A" Standby Filter Unit resulted in an unplanned auto-initiation of the system.
(LER 85-47)
- 12-27-85 At 0908 hour, Torus temperature transmitter TT-4324 was returned to service ending the 30 day LCO.
- 12-31-85 At 1635 hours, during testing of the diesel driven fire pump (1P-49), a lube oil line busted spraying oil onto the turbocharger. A small fire started but was promptly extinguished by operations personnel. The diesel driven fire pump was declared inoperable and a 7 day LCO commenced for repair of the pump.

At the end of the month, the plant was operating normally at 445 MWe (gross). As of December 31, the plant has been operating on-line continuously for 161 days.

Iowa Electric Light and Power Company
January 15, 1986
DAEC-86-0039

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

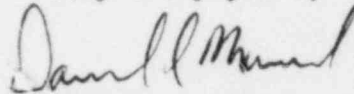
Attn: Document Control Desk

Subject: Duane Arnold Energy Center
Docket No. 50-331
Op. License DPR-49
December, 1985 Monthly Operating Report

Dear Sirs:

Please find enclosed 12 copies of the Duane Arnold Energy Center Monthly Operating Report for December, 1985. 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/KSP/kp*
Enclosures
File A-118d, TE-5

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and Enforcement
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