



Duane Arnold Energy Center
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December 8, 1995
NG-95-3516

Mr. Hubert J. Miller
Regional Administrator
Region III
U.S. Nuclear Regulatory Commission
801 Warrenville Road
Lisle, IL 60532-4351

Subject: Duane Arnold Energy Center
Docket No: 50-331
Operating License DPR-49
November 1995 Monthly Operating Report

Dear Mr. Miller:

Please find enclosed the Duane Arnold Energy Center Monthly Operating Report for November 1995. The report has been prepared in accordance with the guidelines of NUREG-0020 and distribution has been made in accordance with DAEC Technical Specifications, Section 6.11.1.c.

Very truly yours,

Gary Van Middlesworth
Plant Manager, Nuclear

GDV/RBW
Enclosures
File A-118d
cc:

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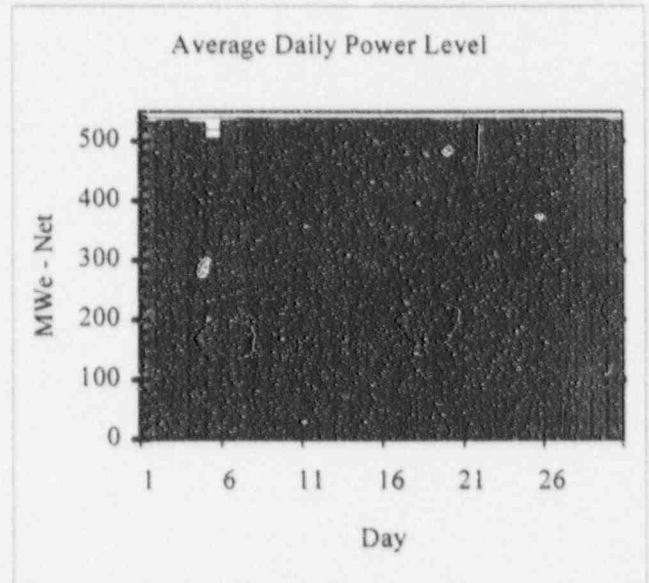
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OPERATING DATA REPORT

DOCKET NO: 50-0331
 DATE: 12/08/95
 Unit: Duane Arnold Energy Center
 COMPLETED BY: Richard Woodward
 TELEPHONE: (319) 851-7318

OPERATING STATUS

1. Unit Name: Duane Arnold Energy Center
2. Reporting Period: November 1995
3. Licensed Thermal Power (MW_{th}): 1658
4. Nameplate Rating (Gross MW_e DER): 565.7 (Turbine)
5. Design Electrical Rating (Net MW_e DER): 538
6. Maximum Dependable Capacity (Gross MW_e MDC): 545
7. Maximum Dependable Capacity (Net MW_e MDC): 515
8. If Changes Occur in Capacity Ratings (Items Number 3 through 7) since the last report, Give Reasons: Not Applicable
9. Power Level to Which Restricted, If Any (Net MW_e): Not Applicable
10. Reasons for Restrictions, If Any: Not Applicable



	November-95	1995	Cummulative
11. Hours in Reporting Period	720.0	8,016.0	182,592.0
12. Number of Hours Reactor Was Critical	720.0	6,601.2	137,781.8
13. Reactor Reserve Shutdown Hours	0.0	0.0	192.8
14. Hours Generator On-Line	720.0	6,510.7	134,369.8
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,190,047.6	10,521,772.3	188,050,132.0
17. Gross Electrical Energy Generated (MWH)	408,640.1	3,549,732.1	62,997,618.6
18. Net Electrical Energy Generated (MWH)	384,322.8	3,345,648.7	59,085,693.0
19. Unit Service Factor	100.0%	81.2%	73.6%
20. Unit Availability Factor	100.0%	81.2%	73.6%
21. Unit Capacity Factor (Using MDC Net)	103.6%	81.0%	68.3%
22. Unit Capacity Factor (Using DER Net)	99.2%	77.6%	65.4%
23. Unit Forced Outage Rate	0.0%	1.2%	10.8%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of each): N/A
25. If Shutdown at End of Report Period, Estimated Date of Startup: N/A

AVERAGE DAILY UNIT POWER LEVEL

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MONTH November 1995

Day	Average Daily Power Level (MWe-Net)
1	531.4
2	533.8
3	535.2
4	530.3
5	494.7
6	533.5
7	537.4
8	536.3
9	534.7
10	534.9
11	535.6
12	536.0
13	536.4
14	535.0
15	535.5
16	535.7
17	535.2
18	536.2
19	534.2
20	534.0
21	536.5
22	537.1
23	534.9
24	535.8
25	535.3
26	535.3
27	536.0
28	536.9
29	535.5
30	533.8

REFUELING INFORMATION

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1. **Name of facility.**
 Duane Arnold Energy Center
2. **Scheduled date for next refueling shutdown.**
 Refuel Outage XIV to begin October 10, 1996.
3. **Actual date for restart following refueling.**
 November 14, 1996
4. **Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?**
 No
5. **Scheduled date(s) for submitting proposed licensing action and supporting information.**
 Not applicable
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.**
 No
7. **Current and projected fuel assemblies inventory:**

	Number of Fuel Assemblies	Projected date of last refueling that can be discharged
installed in reactor core (following refueling)	368	n/a
previously discharged from core to Spent Fuel Storage Pool (following refueling)	1408	n/a
under present physical capacity of Spent Fuel Storage Pool	2411	2007
under Licensed Capacity of Spent Fuel Storage Pool	3152	2014

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UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: November 1995

There were no shutdowns or power reductions greater than 20% during the month.

No.	Date	Type (1)	Duration (Hours)	Reason (2)	Method of Shutting Down Reactor (3)	Licensee Event Report #	System Code (4)	Comp. Code (5)	Cause

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-Continued
5-Reduced Load
9-Other (Explain)

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

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Monthly Operational Overview for November 1995:

The DAEC operated at full thermal power throughout the month except November 4-6 to perform:

- scheduled turbine control valve surveillance testing and
- control rod adjustments.

Forgone production was 2.0 full-power-equivalent-hours.

Allocation of Production & Losses:	Electrical Output MWe	Capacity Factor % of 565.7 MWe (Design Gross Rating)	Full Power Equivalent Hours
Actual Metered Net Electric Output	533.8	94.4%	679.4
Actual Metered Plant Electric Loads	31.3	5.7%	39.6
Load Following	0.0	0.0%	0.0
Off-Line	0.0	0.0%	0.0
(-)Weather losses, ie., condenser pressure < 2.75 In Hg / Circ Water Temp < 74.5 °F	-6.0	-1.1%	-7.6
Planned Capacity Losses: Turbine Control Valve Surveillance Testing November 5.	1.3	0.2%	1.6
Control Rod Drive Exercises November 4-6.	0.3	0.0%	0.4
Unplanned Capacity Loss:	0.0	0.0%	0.0
Normal Capacity Losses (Avg MWth < 1658)	0.2	0.0%	0.3
Metering Losses (Avg indic MWe - Avg MWHe)	2.5	0.4%	3.2
Efficiency Losses (Weather-Norm-Full-Power-MWe < 565.7)	2.4	0.4%	3.1
Design Gross Electric Output	565.7	100.0%	720.0

At the end of November, the DAEC had operated continuously for 177 consecutive days, its sixth longest operating run.

There were no licensee event reports.

Licensing Action Summary:

Plant Availability:	100.0%	Unplanned Auto Scrams (while/critical) this month:	0
Number of reportable events:	0	Unplanned Auto Scrams (while/critical) last 12 months:	1