



Duane Arnold Energy Center
3313 DAEC Road
Palo, IA 52324-9646

Operated by Nuclear Management Company, LLC

January 10, 2001

NG-01-0032

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
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Washington, DC 20555-0001

Subject: Duane Arnold Energy Center
Docket No: 50-331
Operating License: DPR-49
December 2000 Monthly Operating Report
File: A-118d

Please find enclosed the Duane Arnold Energy Center Monthly Operating Report for December 2000. The report has been prepared in accordance with the guidelines of NRC Generic Letter 97-02: Revised Contents Of The Monthly Operating Report, and distribution has been made in accordance with DAEC Technical Specifications, Section 5.6.4.

Very truly yours,

Rob Anderson
Plant Manager-Nuclear

RA/RBW

Enclosures

IE24

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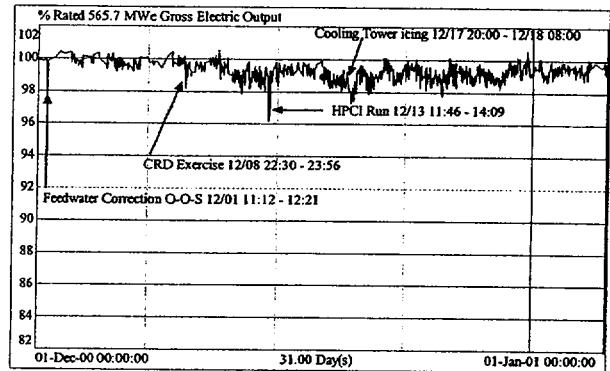
CTS Project

OPERATING DATA REPORT

DOCKET NO: 50-331
 DATE: 01/10/2001
 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: December 2000
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): 550
7. Maximum Dependable Capacity (Net MW_e MDC): 520
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): N/A
10. Reasons for Restrictions, If Any: N/A



	December-00	2000	Cumulative
11. Hours in Reporting Period	744.0	8,784.0	227,184.0
12. Number of Hours Reactor Was Critical	744.0	8,643.6	178,381.0
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	744.0	8,554.4	174,450.2
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,232,924.6	14,038,137.7	252,428,502.7
17. Gross Electrical Energy Generated (MWH)	418,138.0	4,716,586.0	84,644,447.6
18. Net Electrical Energy Generated (MWH)	395,480.0	4,455,706.0	79,514,990.1
19. Unit Service Factor	100.0%	97.4%	76.8%
20. Unit Availability Factor	100.0%	97.4%	76.8%
21. Unit Capacity Factor (Using MDC Net)	102.2%	97.5%	73.5%
22. Unit Capacity Factor (Using DER Net)	98.8%	94.3%	70.4%
23. Unit Forced Outage Rate	0.0%	2.6%	8.8%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of each): Refueling Outage 17, April 13, 2001, 40 days
25. If Shutdown at End of Report Period, Estimated Date of Startup: N/A

AVERAGE DAILY UNIT POWER LEVEL

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MONTH December 2000

Day	Average Daily Power Level (MWe-Net)
1	533.3
2	536.8
3	535.7
4	536.1
5	532.6
6	532.9
7	532.9
8	534.4
9	533.7
10	532.2
11	532.0
12	528.8
13	529.3
14	531.0
15	531.0
16	530.6
17	527.4
18	533.7
19	525.3
20	528.3
21	530.6
22	528.8
23	530.3
24	530.3
25	530.9
26	531.0
27	532.6
28	530.1
29	531.0
30	531.6
31	533.2

REFUELING INFORMATION

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1. **Name of facility.** Duane Arnold Energy Center
2. **Scheduled date for next refueling shutdown.** Spring, 2001
3. **Scheduled date for restart following refueling.** Summer, 2001
4. **Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?**
 - a. Safety Limit MCPR change
 - b. Standby Liquid Control - Sodium Pentaborate Concentration change
5. **Scheduled date(s) for submitting proposed licensing action and supporting information.**
 - a. January 2001
 - b. September 2000
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.** GE 14 fuel design, Maximum Extended Load Line Limit Analysis (MELLA).
7. **Current fuel assemblies inventory**

	Number of Fuel Assemblies	Projected date of last refueling that can be discharged (after allowing margin for maintenance of continuous full-core discharge capability)
In receiving for Reload 17	128	N/A
Installed into reactor core	368	N/A
Discharged from core to Spent Fuel Storage Pool	1776	N/A
Installed capacity of Spent Fuel Storage Pool	2411	2001
Licensed capacity of Spent Fuel Storage Pool (with reracking)	2829	2007
Licensed capacity of Spent Fuel Storage Pool and Cask Pool (with reracking)	3152	2011

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UNIT SHUTDOWNS AND POWER REDUCTIONS
 REPORT MONTH: December 2000

(There were no power reductions > 20% during the month.)

No.	Date	Type (1)	Duration (Hours)	Reason (2)	Method of Shutting Down Reactor (3)	Licensee Event Report #	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)
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Monthly Operational Overview for December 2000

The DAEC operated nearly continuously at 100% licensed rated thermal power except for the following brief capacity reductions:

- to remove feedwater flow measurement correction factor from service December 1st 11:12 – 12:21,
- to adjust control rod exercises December 8th 22:30 – 23:56, and
- for a HPCI surveillance December 13th 11:46 – 14:09.

Cooling tower icing caused weather related thermal efficiency losses on December 17th 20:00 until December 18th 08:00.

For the Year 2000, the DAEC operated at an average capacity factor of 94.9%, 5.9% better than in 1991, its previous best year.

Allocation of Production & Losses: December 2000			
	Electrical Output MWe	Capacity Factor % of 571 MWe (Target Output)	Full Power Equivalent Hours (FPHeq)
Capacity Losses:	0.04	0.00%	0.04
Maintain Margin to 1658 MWth Limit	0.27	0.05%	0.35
Efficiency Losses:	11.58	2.03%	15.10
Unidentified Losses	0.05	0.01%	0.08
Average Weather Losses / (GAINS):	(2.98)	(0.52%)	(3.87)
Total On-line Losses:	8.96	1.57%	11.70
Off-Line Losses:	0.00	0.00%	0.00
Electric Generation:			
Plant House Loads (while on-line)	30.49	5.34%	39.70
Net Electric Output	531.54	93.09%	692.61
Gross Electric Generation	562.04	98.43%	732.31
Target Electric Output, Total %, Total # of clock-hours	571.00	100.00%	744.00

(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:	2
		Main Steam Safety and Relief Valve Challenges this month:	0