

May 15, 2002

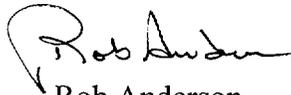
NG-02-0390

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
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Subject: Duane Arnold Energy Center
Docket No: 50-331
Operating License: DPR-49
April 2002 Monthly Operating Report
File: A-118d

Please find enclosed the Duane Arnold Energy Center Monthly Operating Report for April 2002. 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

May 15, 2002

NG-02-0390

Page 2 of 2

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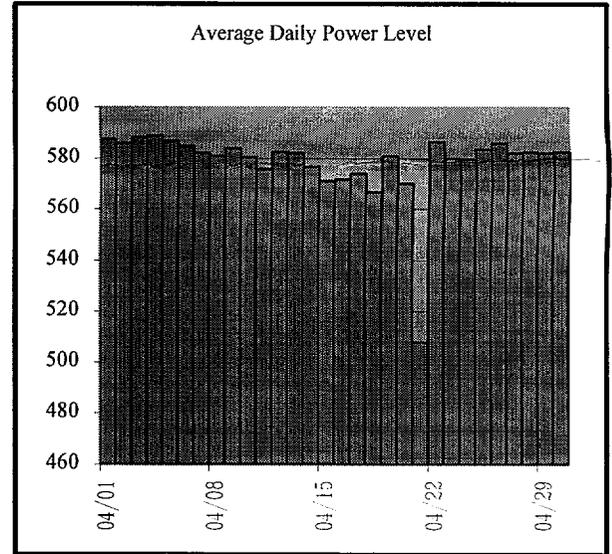
CTS Project

OPERATING DATA REPORT

DOCKET NO: 50-331
 DATE: 05-15-2002
 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: April 2002
3. Licensed Thermal Power (MW_{th}): 1912
Tech. Spec. Amendment 243 and TSCR for extended power uprate was implemented November 7, 2001. Current operating thermal power, as limited by balance-of-plant equipment, is 1790.
4. Nameplate Rating (Gross MW_e DER): 676.425
Current rated output, adjusted for as-built balance-of-plant conditions is 614.0.
5. Design Electrical Rating (Net MW_e DER): 581.4
6. Maximum Dependable Capacity (Gross MW_e MDC): 593.1
7. Maximum Dependable Capacity (Net MW_e MDC): 565.5
8. If Changes Occur in Capacity Ratings (Items Number 3 through 7) since the last report, give reasons: N/A
9. Power Level to Which Restricted, If Any (Net MW_e): N/A
10. Reasons for Restrictions, If Any: N/A



	Apr-02	2002	Cumulative
11. Hours in Reporting Period	719.0	2,879.0	238,823.0
12. Number of Hours Reactor Was Critical	719.0	2,773.0	188,753.6
13. Reactor Reserve Shutdown Hours	0.0	0.0	192.8
14. Hours Generator On-Line	719.0	2,747.0	184,671.9
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,280,084.0	4,802,657.7	269,301,287.5
17. Gross Electrical Energy Generated (MWH)	439,119.0	1,655,110.0	90,389,327.6
18. Net Electrical Energy Generated (MWH)	415,917.3	1,566,922.5	84,942,548.5
19. Unit Service Factor	100.0%	95.4%	77.3%
20. Unit Availability Factor	100.0%	95.4%	77.3%
21. Unit Capacity Factor (Using MDC Net)	102.3%	96.9%	69.4%
22. Unit Capacity Factor (Using DER Net)	99.5%	94.3%	67.1%
23. Unit Forced Outage Rate	0.0%	0.0%	8.4%

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 April 2002

Day	Average Daily Power Level (MWe-Net)
1	588
2	586
3	588
4	589
5	587
6	585
7	582
8	581
9	584
10	580
11	576
12	583
13	582
14	577
15	571
16	572
17	574
18	567
19	581
20	570
21	508
22	587
23	580
24	579
25	583
26	586
27	582
28	583
29	582
30	583
#N/A	#N/A

REFUELING INFORMATION

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1. **Name of facility.** Duane Arnold Energy Center
2. **Scheduled date for next refueling shutdown.** Spring 2003
3. **Scheduled date for restart following refueling.** Spring 2003
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.** 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.** N/A
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)
Installed into reactor core	368	
Discharged from core to Spent Fuel Storage Pool	1912	
Installed capacity of Spent Fuel Storage Pool	2411	2001
Licensed capacity of Spent Fuel Storage Pool (with re-racking)	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: April 2002							
No.	Date	Type (1)	Duration (Hours)	Reason (2)	Method of Shutting Down Reactor (3)	Licensee Event Report #	Cause
3	04/20 21:28 - 04/21 14:30	S	0 (3.55 Effective- full-power- hours- equivalent)	B	5		Sequence Exchange

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 April 2002

At the beginning of April the DAEC had operated 20 days since the start-up following the March 4 – 9 shutdown to identify and repair the source of leakage into the drywell.

Throughout the month the reactor was operated at full power except for the following power reductions:

- Sequence exchange April 20 – 21
- Control rod drive adjustment April 22
- Feedwater heater drain valve April 30

Following is the allocation of production and losses for the month.

Allocation of Production & Losses:	Electrical Output MWe	Capacity Factor % of 614 MWe (Target Output)	Full Power Equivalent Hours (FPHeq)
Net Electric Output	578.45	94.21%	677.39
Plant House Loads (while on-line)	+32.30	+5.26%	37.79
Subtotal: Gross Electric Output	610.75	99.47%	715.18
Capacity Losses (departures from full thermal power):			
Loadline Adjustments: 04/22 04:57 - 05:42	0.01	0.00%	0.01
Sequence exchange: 04/20 21:28 - 04/21 14:30	3.03	0.49%	3.55
#3A Feedwater Heater drain valve 04/30 17:54	0.06	0.01%	0.07
Maintain Margin to 1790 Administrative MWth Limit	0.30	0.05%	0.35
Efficiency Losses (occur even at full thermal power):			
Unidentified (residual)	(0.40)	(0.06%)	(0.44)
Seasonal Effects (i.e., warm weather losses)	0.25	0.04%	0.28
Subtotal: On-line Losses (Capacity, Efficiency, and Weather):	3.25	0.53%	3.82
Total: Target Electric Output, %, # of clock-hours	614.00	100.00%	719.00

Licensing Action Summary:

Plant Availability:	100%	Unplanned Auto Scrams (while critical) this month:	0
Number of reportable events:	0	Unplanned Auto Scrams (while critical) last 12 months:	0
		Main Steam Safety/Relief Valve Challenges this month:	0