

December 13, 2002

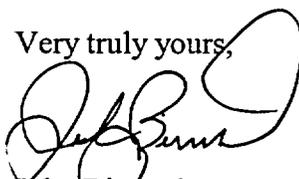
NG-02-1132

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
November 2002 Monthly Operating Report
File: A-118d

Please find enclosed the Duane Arnold Energy Center Monthly Operating Report. 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,

 12/10/02
John Bjorseth
Plant Manager-Nuclear

JKB/RBW

Enclosures

DAEC is committed to providing the highest quality of service to our customers. We are proud to be a part of the NRC's commitment to safety and reliability. We are committed to providing the highest quality of service to our customers. We are proud to be a part of the NRC's commitment to safety and reliability.

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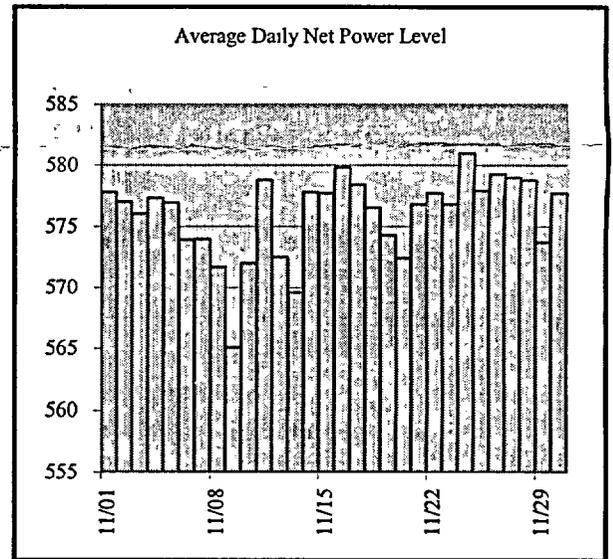
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OPERATING DATA REPORT

DOCKET NO: 50-331
 DATE: 12-13-2002
 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: November 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



	Nov-02	2002	Cumulative
11. Hours in Reporting Period	720.0	8,016.0	243,960.0
12. Number of Hours Reactor Was Critical	720.0	7,521.2	193,501.8
13. Reactor Reserve Shutdown Hours	0.0	0.0	192.8
14. Hours Generator On-Line	720.0	7,404.4	189,329.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,288,003.4	12,908,808.0	277,407,437.8
17. Gross Electrical Energy Generated (MWH)	438,141.0	4,387,382.0	93,121,599.6
18. Net Electrical Energy Generated (MWH)	414,668.3	4,152,392.8	87,528,018.8
19. Unit Service Factor	100.0%	92.4%	77.6%
20. Unit Availability Factor	100.0%	92.4%	77.6%
21. Unit Capacity Factor (Using MDC Net)	101.8%	91.9%	70.6%
22. Unit Capacity Factor (Using DER Net)	99.1%	89.3%	68.5%
23. Unit Forced Outage Rate	0.0%	2.0%	8.3%

AVERAGE DAILY UNIT POWER LEVEL

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MONTH November 2002

Day	Average Daily Power Level (MWe-Net)
1	578
2	577
3	576
4	577
5	577
6	574
7	574
8	572
9	565
10	572
11	579
12	573
13	570
14	578
15	578
16	580
17	578
18	577
19	574
20	572
21	577
22	578
23	577
24	581
25	578
26	579
27	579
28	579
29	574
30	578
#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	
Scheduled for transfer to Dry Fuel Storage November 2003	610	
Installed capacity of Spent Fuel Storage Pool	2411	2008
Licensed capacity of Spent Fuel Storage Pool (with re-racking)	2829	2014
Licensed capacity of Spent Fuel Storage Pool and Cask Pool (with reracking)	3152	

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UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: November 2002

(There were no shutdowns or power changes greater than 20%)

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 November 2002

At the beginning of November, the DAEC had continuously operated for 52 days since the startup following its most recent shutdown.

On November 17th between 01:29 and 02:07, operators briefly reduced power to 95% by withdrawing control rods and lowering recirculation flow in order to perform a load-line adjustment. On November 21, operators very slightly reduced power (approximately 1/2 of 1%) while the plant process computer was taken out-of-service for software maintenance. Between November 8th and 13th, electrical power supply to modular cooling tower fans was sporadically interrupted because of high current on the electrical cabling. This caused about 0.8 full-power-hours-equivalent of lost production. A loss of approximately 9 MWe continues from the stuck-open "1E-5B" Feedwater Heater Drain Valve. This loss began October 5th and will continue until the next plant shutdown (presently scheduled for March 24, 2003).

Following is the allocation of production and losses:	Electrical Output MWe	Capacity Factor % of 614 MWe (Target Output)	Full Power Hours Equivalent (FPHeq)
Net Electric Output	575.93	93.80%	675.36
Plant House Loads (while on-line)	+32.54	+5.30%	38.17
Subtotal: Gross Electric Output	608.47	99.10%	713.53
Capacity Losses (departures from full thermal power):			
PPC O-O-S 11/21 10:15 - 22:33	0.06	0.01%	0.07
CRD Adjustments 11/17 01:29 - 02:07	0.01	0.00%	0.01
Modular Cooling Tower Fans intermittently O-O-S 11/08 13:40 - 11/13 18:22 high amperage concerns	0.68	0.11%	0.80
Maintain Margin to 1790 Administrative MWth Limit	0.30	0.05%	0.35
Efficiency Losses (occur even at full thermal power):			
Principally the stuck-open 1E-5B FW drain valve	7.73	1.26%	9.09
-/+ Seasonal Effects (i.e., hot weather decrease)	(3.25)	(0.53%)	(3.85)
Subtotal: On-line Losses (Capacity, Efficiency, and Weather):	5.53	0.90%	6.47
Off-Line Losses	0.00	0.00%	0.00
Total: Target Electric Output, %, # of clock-hours	614.00	100.00%	720.00

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