



Duane Arnold Energy Center
3277 DAEC Road
Palo, IA 52324-9785

Operated by Nuclear Management Company, LLC

July 15, 2002

NG-02-0574

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Mail Station 0-P1-17
Washington, DC 20555-0001

Subject: Duane Arnold Energy Center
Docket No: 50-331
Operating License: DPR-49
June 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,

Rob Anderson
Plant Manager-Nuclear

RA/RBW

Enclosures

IE24

July 15, 2002

NG-02-0574

Page 2 of 2

cc:

Mr. James E. Dyer
Regional Administrator, Region III
U.S. Nuclear Regulatory Commission
801 Warrenville Road
Lisle, IL 60532-4351

Ms. Lisa Stump
Iowa State Utilities Board
Lucas State Office Building
Des Moines, IA 50319

Ms. Barbara Lewis
McGraw-Hill, Inc.
1200 G Street NW, Suite 1100
Washington, DC 20005

Dr. William A. Jacobs, Jr.
GDS Associates, Inc.
1850 Parkway Place, Suite 720
Marietta, GA 30068-8237

Mr. Dennis Murdock
Central Iowa Power Cooperative
Box 2517
Cedar Rapids, IA 52406

Mr. Dale Arends
Corn Belt Power Cooperative
1300 13th Street North
Humboldt, IA 50548

Document Control Desk
INPO Records Center
700 Galleria Parkway
Atlanta, GA 30339-5957

Mr. Al Gutterman
Morgan Lewis
1111 Pennsylvania Avenue, NW
Washington, DC 20004

Mr. Darl Hood
1 White Flint North
Mail Stop 8H4A
11555 Rockville Pike
Rockville, MD 20852

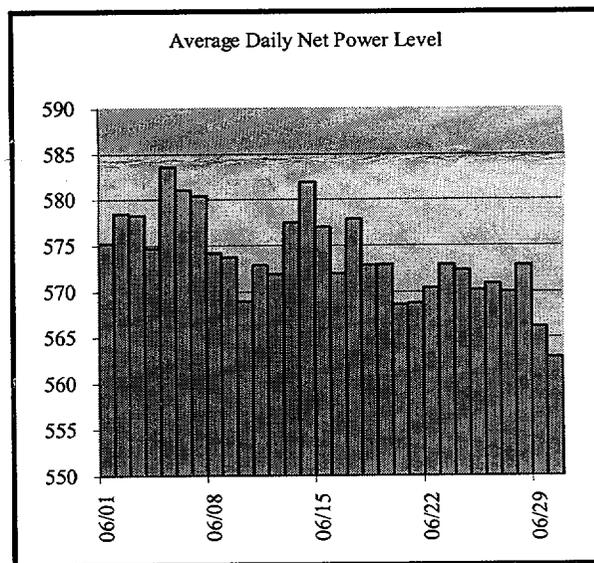
DOCU
NRC Resident Inspector
CTS Project

OPERATING DATA REPORT

DOCKET NO: 50-331
 DATE: 07-15-2002
 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: June 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



	Jun-02	2002	Cumulative
11. Hours in Reporting Period	720.0	4,343.0	240,287.0
12. Number of Hours Reactor Was Critical	720.0	4,159.7	190,140.2
13. Reactor Reserve Shutdown Hours	0.0	0.0	192.8
14. Hours Generator On-Line	720.0	4,118.8	186,043.7
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,287,370.2	7,215,636.6	271,714,266.4
17. Gross Electrical Energy Generated (MWH)	436,037.0	2,474,890.0	91,209,107.6
18. Net Electrical Energy Generated (MWH)	413,090.6	2,343,387.7	85,719,013.7
19. Unit Service Factor	100.0%	94.8%	77.4%
20. Unit Availability Factor	100.0%	94.8%	77.4%
21. Unit Capacity Factor (Using MDC Net)	101.5%	96.1%	69.5%
22. Unit Capacity Factor (Using DER Net)	98.7%	93.5%	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

DOCKET NO: 50-331
 DATE: 07-15-2002
 Unit: Duane Arnold Energy Center
 COMPLETED BY: Richard Woodward
 TELEPHONE: (319) 851-7318

MONTH June 2002

Day	Average Daily Power Level (MWe-Net)
1	575
2	579
3	578
4	575
5	584
6	581
7	580
8	574
9	574
10	569
11	573
12	572
13	578
14	582
15	577
16	572
17	578
18	573
19	573
20	569
21	569
22	570
23	573
24	572
25	570
26	571
27	570
28	573
29	566
30	563
#N/A	#N/A

REFUELING INFORMATION

DOCKET NO: 50-331
 DATE: 07-15-2002
 Unit: Duane Arnold Energy Center
 COMPLETED BY: Richard Woodward
 TELEPHONE: (319) 851-7318

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

DOCKET NO: 50-331
 DATE: 07-15-2002
 Unit: Duane Arnold Energy Center
 COMPLETED BY: Richard Woodward
 TELEPHONE: (319) 851-7318

**UNIT SHUTDOWNS AND POWER REDUCTIONS
 REPORT MONTH:**

(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)
---	---	---

DOCKET NO.: 50-331
 DATE: 07-15-2002
 Unit: Duane Arnold Energy Center
 COMPLETED BY: Richard Woodward
 TELEPHONE: (319) 851-7318

Monthly Operational Overview for June 2002

At the beginning of June, the DAEC had operated five days after the ramp-up to full power following the May 19 – 23 shutdown to perform an elective repair of a condenser tube leak. Except for the following two brief power reductions, the DAEC operated nearly continuously throughout the month at full (1790 MWth) power:

1. On June 4th, from 1790 to 1772 MWth from 10:50 to 12:35 for a HPCI (High Pressure Coolant Injection) surveillance;
2. On June 16th, from 1790 to 1666 MWth from 03:30 to 10:13 for lack of grid demand.

Following is the allocation of production and losses:	Electrical Output MWe	Capacity Factor % of 614 MWe (Target Output)	Full Power Equivalent Hours (FPHeq)
Net Electric Output	573.72	93.44%	672.79
Plant House Loads (while on-line)	+31.87	+5.19%	37.37
Subtotal: Gross Electric Output	605.59	98.63%	710.16
Capacity Losses (departures from full thermal power):			
Lack of grid demand 06/16 03:30 - 10:13	0.30	0.05%	0.35
HPCI Run 06/04 10:50 - 12:35	0.03	0.00%	0.03
Maintain Margin to 1790 Administrative MWth Limit	0.28	0.05%	0.33
Efficiency Losses (occur even at full thermal power):			
Unidentified (residual)	(0.30)	(0.05%)	(0.38)
-/+ Seasonal Effects (i.e., hot weather decrease)	8.10	1.32%	9.51
Subtotal: On-line Losses (Capacity, Efficiency, and Weather):	8.41	1.37%	9.84
Off-Line Losses: (none)	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
		Main Steam Safety/Relief Valve Challenges this month:	0