

May 15, 2003

NG-03-0356

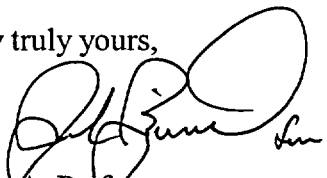
U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
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Subject: Duane Arnold Energy Center  
Docket No: 50-331  
Operating License: DPR-49  
April 2003 Monthly Operating Report  
File: A-118d

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.

There are no new commitments made in this letter.

Very truly yours,

 5/12/03  
Mark A. Peifer  
Site Vice President

MAP/RBW

Enclosures

IE24

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cc:

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

Ms. Parveen Baig  
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

IRMS

NRC Resident Inspector

CTS Project

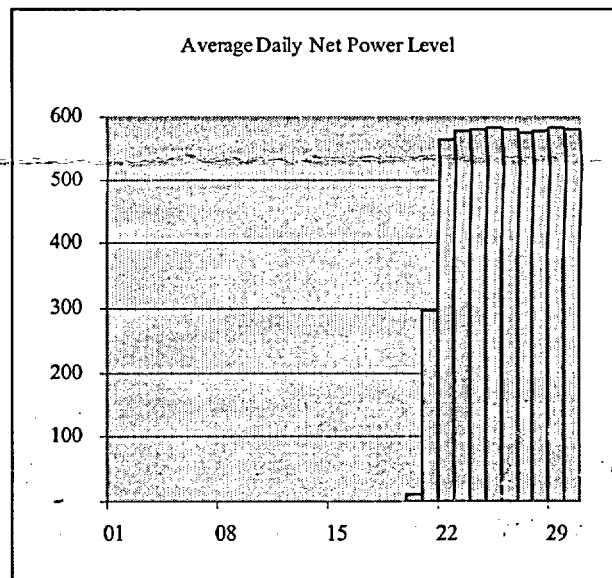
Mr. Darl Hood  
1 White Flint North  
Mail Stop 8H4A  
11555 Rockville Pike  
Rockville, MD 20852

## OPERATING DATA REPORT

DOCKET NO: 50-331  
 DATE: 05-15-2003  
 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 2003
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-03	2003	Cumulative
11.	Hours in-Reporting Period	719.0	2,879.0	247,583.0
12.	Number of Hours Reactor Was Critical	294.3	1,943.3	196,189.1
13.	Reactor Reserve Shutdown Hours	0.0	0.0	192.8
14.	Hours Generator On-Line	248.4	1,868.8	191,942.1
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	418,056.9	3,258,773.0	281,996,199.1
17.	Gross Electrical Energy Generated (MWH)	140,228.0	1,112,232.0	94,687,044.6
18.	Net Electrical Energy Generated (MWH)	132,567.6	1,052,029.6	89,008,731.9
19.	Unit Service Factor	34.5%	64.9%	77.5%
20.	Unit Availability Factor	34.5%	64.9%	77.5%
21.	Unit Capacity Factor (Using MDC Net)	32.6%	64.6%	70.6%
22.	Unit Capacity Factor (Using DER Net)	31.7%	62.9%	68.5%
23.	Unit Forced Outage Rate	0.0%	15.7%	8.3%

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-331

DATE: 05-15-2003

Unit: Duane Arnold Energy Center

COMPLETED BY: Richard Woodward

TELEPHONE: (319) 851-7318

MONTH April 2003

Day	Average Daily Power Level (MWe-Net)
04/01	0
04/02	0
04/03	0
04/04	0
04/05	0
04/06	0
04/07	0
04/08	0
04/09	0
04/10	0
04/11	0
04/12	0
04/13	0
04/14	0
04/15	0
04/16	0
04/17	0
04/18	0
04/19	0
04/20	11
04/21	298
04/22	565
04/23	579
04/24	582
04/25	583
04/26	581
04/27	575
04/28	579
04/29	583
04/30	580
#N/A	#N/A

## REFUELING INFORMATION

DOCKET NO: 50-331  
 DATE: 05-15-2003  
 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. Winter 2005
3. Scheduled date for restart following refueling. Spring 2005
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	2064	
Scheduled for transfer to Dry Fuel Storage November 2003	610	
Installed capacity of Spent Fuel Storage	2411	2008
Licensed capacity of Spent Fuel Storage (with re-racking of pool)	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: April 2003

No.	Date	Type (1)	Duration (Hours)	Reason (2)	Method of Shutting Down Reactor (3)	Licensee Event Report #	Cause
3	04/01/03	S	470.6 (490.22 Effective-full- power hours)	C	4		Refueling Outage

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 2003 (continued)

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	184.38	30.03%	215.91
Plant House Loads (while on-line)	+10.62	+1.73%	12.44
Subtotal: Gross Electric Output	195.00	31.76%	228.34
Capacity Losses (departures from full thermal power):	12.38	2.02%	14.50
Ramp up: 4/20 20:33 - 04/22 17:00			
Load-line Adjustments: 4/22 20:38 - 21:25, 4/23 04:17 - 04:50 & 15:27 - 16:30, 4/28 21:34 - 22:49	0.08	0.01%	0.09
Turbine Over-speed Testing: 4/20 14:48 - 20:33	4.38	0.71%	5.13
Maintain Margin to 1790 Administrative MWth Limit	0.10	0.02%	0.11
Efficiency Losses (which occur even at full thermal power):	0.03	0.01%	0.04
-/+ Seasonal Effects ( i.e., cold weather increase)	0.16	0.03%	0.19
Subtotal: On-line Losses (Capacity, Efficiency, and Weather):	17.13	2.79%	20.06
Off-Line Losses	401.88	65.45%	470.60
Total: Target Electric Output, %, # of clock-hours	614.00	100.00%	719.00

Licensing Action Summary:

Plant Availability:	34.5%	Unplanned Auto Scrams (while critical) this month:	0
Number of reportable events:	3	Unplanned Auto Scrams (while critical) last 12 months:	0