

January 15, 2002

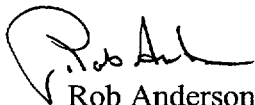
NG-02-0035

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 2001 Monthly Operating Report
File: A-118d

Please find enclosed the Duane Arnold Energy Center Monthly Operating Report for December 2001. 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

1. The following information is being provided to you for your information only. It is not intended to be used for any other purpose. The information is being provided to you for your information only. It is not intended to be used for any other purpose. The information is being provided to you for your information only. It is not intended to be used for any other purpose.

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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. 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, Bockius
1800 M St. NW
Washington, DC 20036-5859

Ms. Brenda Mozafari
Project Manager
1 White Flint North
Mail Stop 13D18
11555 Rockville Pike
Rockville, MD 20852

DOCU

NRC Resident Inspector

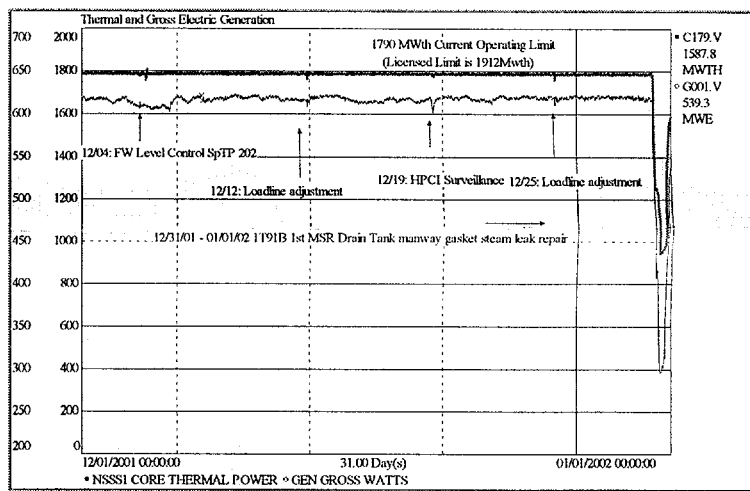
CTS Project - *LTC*

OPERATING DATA REPORT

DOCKET NO: 50-331
 DATE: 01-15-2002
 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: December 2001
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): Limited to $1790 MW_{th}$, Net MW_e will vary from 580 – 590.
10. Reasons for Restrictions, If Any: N/A



		Dec-01	2001	Cumulative
11.	Hours in Reporting Period	744.0	8,760.0	235,944.0
12.	Number of Hours Reactor Was Critical	744.0	7,599.6	185,980.6
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator On-Line	744.0	7,474.7	181,924.9
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	1,317,830.0	12,070,127.1	264,498,629.8
17.	Gross Electrical Energy Generated (MWH)	455,405.0	4,089,770.0	88,734,217.6
18.	Net Electrical Energy Generated (MWH)	431,277.5	3,860,635.9	83,375,626.0
19.	Unit Service Factor	100.0%	85.3%	77.1%
20.	Unit Availability Factor	100.0%	85.3%	77.1%
21.	Unit Capacity Factor (Using MDC Net)	102.5%	84.8%	74.0%
22.	Unit Capacity Factor (Using DER Net)	99.7%	81.9%	71.0%
23.	Unit Forced Outage Rate	0.0%	2.9%	8.5%

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 December 2001

Day	Average Daily Power Level (MWe-Net)
1	586.0
2	584.7
3	582.5
4	577.3
5	578.8
6	586.8
7	590.2
8	584.0
9	589.9
10	587.2
11	586.9
12	585.2
13	583.4
14	593.0
15	584.0
16	582.9
17	586.3
18	585.1
19	584.2
20	587.6
21	587.1
22	587.1
23	587.0
24	590.3
25	589.3
26	586.3
27	588.0
28	565.0
29	588.8
30	587.3
31	384.4

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 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 2001							
No.	Date	Type (1)	Duration (Hours)	Reason (2)	Method of Shutting Down Reactor (3)	Licensee Event Report #	Cause
13	12/31/01	S	0 (7.75 full-power- hours-equivalent)	B	5	N/A	Steam leak repair on the '1T-91B' 1st Stage Moisture Separator Reheater drain tank manway gasket

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 2001

At the beginning of the month, the DAEC had operated thirty-eight days since its most recent shutdown and seven days at uprated thermal power, 1790 MW_{th}. Brief, very minor, power reductions occurred December 12th and 25th for load-line adjustments, and December 19th to perform HPCI (High Pressure Coolant Injection) system testing. At 00:53 on December 31st, operators reduced power to 955 MW_{th}, 293 MW_e, to perform a steam leak repair on the '1T-91B' 1st Stage Moisture Separator Reheater drain tank manway gasket. Following completion of the repair, reactor thermal power was increased to 1790 MW_{th} at 16:01 on January 1st.

Allocation of Production & Losses:	Electrical Output MWe	Capacity Factor % of 614 MWe (Rated Output)	Full Power Equivalent Hours (FPHeq)
Net Electric Output	579.68	94.41%	702.41
Plant House Loads (while on-line)	+32.42	+5.28%	39.29
Gross Electric Generation	612.10	99.69%	741.70
Capacity Losses (departures from full thermal power):	0.00	0.00%	0.00
Loadline Adjustments: 12/12 22:16 - 22:47, 12/25 21:34 - 21:45			
HPCI testing 12/19 12:06 - 15:03	0.02	0.00%	0.02
MSR Steam Leak Repair 12/31 00:53 - 01/01 16:01	6.40	1.04%	7.75
Maintain Margin to 1790 Administrative MW _{th} Limit	0.17	0.03%	0.21
Efficiency Losses (occur even at full thermal power):	(0.02)	0.00%	(0.04)
Unidentified (residual)			
-/+ Seasonal Effects (negative losses, i.e., cold weather increases)	(4.67)	(0.76%)	(5.64)
Total On-line Losses (Capacity, Efficiency, and Weather):	1.90	0.31%	2.30
Off-Line Losses: (none)	0.00	0.00%	0.00
Target Electric Output, Total %, Total # of clock-hours	614.00	100.00%	744.00

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:	0