



Duane Arnold Energy Center
3277 DAEC Road
Palo, IA 52324
Telephone 319 851 7611
Fax 319 851 7611

November 14, 1997
NG 97-1959

Mr. A. Bill Beach
Regional Administrator
Region III
U.S. Nuclear Regulatory Commission
801 Warrenville Road
Lisle, IL 60532-4351

Subject: Duane Arnold Energy Center
Docket No: 50-331
Operating License: DPR-49
October 1997 Monthly Operating Report
File: A-118d

Dear Mr. Beach:

Please find enclosed the Duane Arnold Energy Center Monthly Operating Report for October 1997. 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 6.11.1.c.

Very truly yours,

Gary VanMiddlesworth
Plant Manager-Nuclear

GDV/RBW

Enclosures

IE 84%

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Mr. A. Bill Beach
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cc:

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Mail Station P1-37
Washington, DC 20555-0001 (Orig.)

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

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

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

Mr. Glenn Kelly
Project Manager
1 Whiteflint North
Mail Stop 13E21
11555 Rockville Pike
Rockville, MD 20852

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

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

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

Mr. Al Gutterman
Morgan, Lewis, Bockius
1800 M St. NW
Washington, DC 20036-5859

DOCU

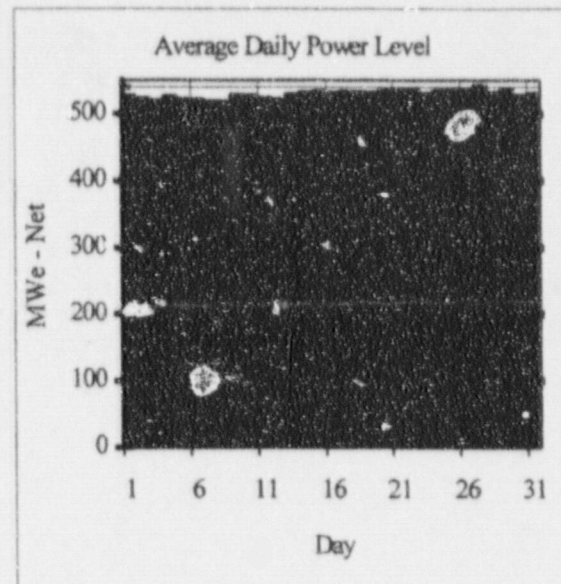
NRC Resident Inspector

OPERATING DATA REPORT

DOCKET NO: 50-0331
 DATE: 11/14/97
 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: October 1997
3. Licensed Thermal Power (MW_{th}): 1656
4. Nameplate Rating (Gross MW_e DER): 565.7 (Turbine)
5. Design Electrical Rating (Net MW_e DER): 538
6. Maximum Dependable Capacity (Gross MW_e MDC): 550
7. Maximum Dependable Capacity (Net MW_e MDC): 520
8. If Changes Occur in Capacity Ratings (Items Number 3 through 7) since the last report, Give Reasons: Not Applicable
9. Power Level to Which Restricted, If Any (Net MW_e): N/A
10. Reasons for Restrictions, If Any: N/A



		October-97	1997	Cumulative
11.	Hours in Reporting Period	745.0	7,296.0	199,416.0
12.	Number of Hours Reactor Was Critical	745.0	6,808.5	153,302.5
13.	Reactor Reserve Shutdown Hours	0.0	0.0	192.8
14.	Hours Generator On-Line	745.0	6,664.0	149,685.1
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	1,234,511.2	10,659,466.3	212,312,577.4
17.	Gross Electrical Energy Generated (MWH)	418,515.0	3,583,550.0	71,172,596.6
18.	Net Electrical Energy Generated (MWH)	395,262.1	3,381,280.9	66,796,839.9
19.	Unit Service Factor	100.0%	91.3%	75.1%
20.	Unit Availability Factor	100.0%	91.3%	75.1%
21.	Unit Capacity Factor (Using MDC Net)	102.0%	89.1%	70.5%
22.	Unit Capacity Factor (Using DER Net)	98.6%	86.1%	67.6%
23.	Unit Forced Outage Rate	0.0%	1.6%	9.9%

24. Shutdown Scheduled Over Next 6 Months (Type, Date, and Duration of each): Refueling, April 2, 1998, 45 days
25. If Shutdown at End of Report Period, Estimated Date of Startup: N/A

AVERAGE DAILY UNIT POWER LEVEL

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MONTH October 1997

Day	Average Daily
	Power Level
	(MWe-Net)
1	528.1
2	524.0
3	521.4
4	527.3
5	522.9
6	522.2
7	519.6
8	519.4
9	529.1
10	528.1
11	524.6
12	522.0
13	530.4
14	533.4
15	535.0
16	532.8
17	534.3
18	533.9
19	533.2
20	536.2
21	536.1
22	537.6
23	531.4
24	535.6
25	536.3
26	537.5
27	543.3
28	533.2
29	537.7
30	528.8
31	531.4

REFUELING INFORMATION

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1. Name of facility.

Duane Arnold Energy Center

2. Scheduled date for next refueling shutdown.

April 2, 1998

3. Scheduled date for restart following refueling.

May 17, 1998

4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

Yes. RTS 296, proposes fuel discharge as early as 60 hours after shutdown (versus current 120 hour requirement).

Improved Technical Specifications (ITS) approval needed for refuel outage planning.

5. Scheduled date(s) for submitting proposed licensing action and supporting information.

RTS 296, "Refueling Operations" submitted October 3, 1997.

N/A. (ITS submitted October 30, 1996.)

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 and projected 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 in reactor core (following refueling)	368	n/a
Discharged from core to Spent Fuel Storage Pool	1528	n/a
Installed Capacity of Spent Fuel Storage Pool	2411	2001
Licensed Capacity of Spent Fuel Storage Pool (with reracking)	2829	2006
Licensed Capacity of Spent Fuel Storage Pool and Cask Pool (with reracking)	3152	2010

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: October 1997

(There were no shutdowns or power reductions during the month.)

No.	Date	Type (1)	Duration (Hours)	Reason (2)	Method of Shutting Down Reactor (3)	Licensee Event Report #	System Code (4)	Comp. Code (5)	Cause
12									

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)

4 - Exhibit G- Instructions for
 Preparation of Data Entry
 Sheets for Licensee Event
 Report (LER) File (NUREG-
 0161)
 5 - Exhibit 1 (Same Source)

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Monthly Operational Overview for October 1997:

Except for minor downpowers to reduce recirculation flow and withdraw control rods, the plant operated at full licensed thermal power throughout the month.

Allocation of Production & Losses:

	Electrical Output MWe	Capacity Factor % of 565.7 MWe (Design Rating)	Full Power Equivalent Hours (FPH _{eq})
Actual Metered Net Electric Output	530.6	93.9%	698.8
Actual Metered Plant Electric Loads	31.2	5.5%	41.1
Off-Line Capacity Losses:	0.0	0.0%	0.0
Unplanned On-Line Capacity Losses:	0.0	-0.1%	0.0
Normal Capacity Losses (Avg. "Full Power" MWth < 1658)	0.3	0.1%	0.4
Other Planned On-Line Capacity Losses:	0.2	0.0%	0.3
Weather losses -- condenser pressure > 2.75 In Hg / Circ Water Temp > 74.°F	1.0	0.2%	1.3
Efficiency Losses (Weather-Norm-Full-Power-MWe < 565.7 Design)	0.1	0.0%	0.1
Metering Losses (Avg indic MWe - Avg MWe)	2.3	0.4%	3.0
Excluded losses (coast-down, lack of grid demand, etc.)	0.0	0.0%	0.0
Design Gross Electric Output	565.7	100.0%	745.0

There were no Licensee Event Reports in October.

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