

OPERATING DATA REPORT

DOCKET NO. 050-0331
 DATE: 12-15-92
 COMPLETED BY: Richard Woodward
 TELEPHONE: (319) 851-7318

OPERATING STATUS

1. Unit Name: Duane Arnold Energy Center
2. Reporting Period: October 1992
3. Licensed Thermal Power (MWt): 1658
4. Nameplate Rating (Gross MWe): 565 (Turbine)
5. Design Electrical Rating (Net MWe): 538
6. Maximum Dependable Capacity (Gross MWe): 545
7. Maximum Dependable Capacity (Net MWe): 515

Notes

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 MWe): N/A

10. Reasons for Restrictions, If Any: N/A

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	745	7,320.0	155,592.0
12. Number of Hours Reactor Was Critical	745	5,809.8	114,598.1
13. Reactor Reserve Shutdown Hours	0	0.0	192.8
14. Hours Generator On-Line	745	5,740.1	111,648.2
15. Unit Reserve Shutdown Hours	0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,215,425.0	8,825,405.7	150,879,002.1
17. Gross Electrical Energy Generated (MWH)	409,033.0	2,933,928.5	50,900,254.5
18. Net Electrical Energy Generated (MWH)	385,720.6	2,748,576.3	47,713,088.4
19. Unit Service Factor	100.0%	78.4%	71.8%
20. Unit Availability Factor	100.0%	78.4%	71.8%
21. Unit Capacity Factor (Using MDC Net)	100.5%	72.9%	61.0%
22. Unit Capacity Factor (Using DER Net)	96.2%	69.8%	58.4%
23. Unit Forced Outage Rate	0.0%	1.7	12.6
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of each): <u>N/A</u>			
25. If Shutdown at End of Report Period, Est. Date of Startup: <u>N/A</u>			

AVERAGE DAILY UNIT POWER LEVEL

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1 MONTH: October 1992

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>468</u>
2	<u>459</u>
3	<u>513</u>
4	<u>518</u>
5	<u>518</u>
6	<u>524</u>
7	<u>520</u>
8	<u>523</u>
9	<u>487</u>
10	<u>522</u>
11	<u>526</u>
12	<u>528</u>
13	<u>525</u>
14	<u>527</u>
15	<u>526</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

16	<u>530</u>
17	<u>529</u>
18	<u>529</u>
19	<u>531</u>
20	<u>528</u>
21	<u>528</u>
22	<u>523</u>
23	<u>519</u>
24	<u>457</u>
25	<u>521</u>
26	<u>527</u>
27	<u>530</u>
28	<u>529</u>
29	<u>530</u>
30	<u>530</u>
31	<u>527</u>

REFUELING INFORMATION

DOCKET NO. 50-0331
 DATE: 12/15/92
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 TELEPHONE: (319) 851-7318

1. Name of facility.
 - a. Duane Arnold Energy Center
2. Scheduled date for next refueling shutdown.
 - a. July, 1993
3. Scheduled date for restart following refueling.
 - a. September, 1993
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?
N/A
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. The number of fuel assemblies (a) in the core, (b) in the spent fuel storage pool.
 - a. 368 b. 1152
8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies.
 - a. 2050 - Licensed Capacity or
 - b. 1898 under the presently installed storage rack capacity.
9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity.
 - a. 2000 - Licensed Capacity or
 - b. 1997 under the presently installed storage rack capacity.

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: October 1992

Docket No: 050-0331
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No.	Date	Type(1)	Duration (Hours)	Reason(2)	Method of Shutting (3) Down Reactor	Licensee Event Report #	System Code (4)	Comp. Code (5)	Cause
	N/A								

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)

1-Manual

2-Manual Scram

3-Automatic Scram

4-Continued

3 - Method:

Instructions for

Preparation of Data

Entry Sheets for

Licensee Event Report

5-Reduced Load

9-Other (Explain)

5 - Exhibit 1

(Same Source)

4 - Exhibit G-

(LER) File (NUREG-0161)

Docket No.: 050-033: Unit: Duane Arnold Energy Center DATE: 12-15-92 COMPLETED BY: Richard Woodward Telephone: (319) 851-7318			
MAJOR/SAFETY RELATED MAINTENANCE			
DATE	SYSTEM	COMPONENT	DESCRIPTION
N/A			

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Monthly Operational Overview of October 1992

The DAEC operated at 97% capacity factor (DER - gross). Power was reduced to 60% for the equivalent of eight hours on October 1, on October 9, and on October 24 to enter the heater bay for maintenance and testing. Except for other minor reductions to perform CRD exercises, surveillances, and load following, the plant remained at full thermal power for rest of the month. The following table summarizes operation:

	MWe	% of 565.7 MWe	% of 745 Full Power Equivalent Hours
Weather, Load Following	4.5	0.8%	5.9
Equipment Limitation	12.2	2.2	16.1
Gross Electric Output	<u>549.0</u>	<u>97.0%</u>	<u>723.0</u>
Design Rated Electric Output	565.7	100.0%	745.0

On October 19 the plant entered a 30 day administrative limiting condition for operation (LCO) for maintenance on the out of service "A" Control Building Chiller. The LCO was required by a plant special order and operating instructions, but not by the technical specifications. The "B" Control Building Chiller was in service to supply chilled water for the cooling coils of the associated air conditioning unit. The chilled water system and air conditioning units maintain acceptable temperature for control room plant personnel equipment.

On October 22 at 12:56 hours, with the plant at 99.9% thermal power and the "A" chiller still out of service, the "B" chiller tripped. Attempts to re-start the chiller were successful, but it tripped again, after a short period of time, for unknown reasons. At 13:21 the "B" chiller was declared inoperable since operation could not be maintained, and a 72 hour administrative LCO was entered. As part of trouble shooting activities, maintenance personnel discovered air in the chilled water piping which they vented. The "B" chiller was restarted at 15:10. At 16:10 the "B" chiller was declared operable and the 72 hour LCO was exited. The 30 day LCO for the "A" chiller remained in effect. LER 92-016 (pending)

On October 26 with the reactor operating at 100% a quality assurance surveillance identified four missed hourly firewatches, two in the Residual Heat Removal Valve Room on October 10, and two in the High Pressure Coolant Injection Room on October 7 and 10. The personnel who performed the firewatches failed to properly use the firewatch checklist. All personnel who perform firewatches have since been instructed on the use of and adherence to the firewatch checklist. All firewatch personnel will have additional formal training on the proper firewatch methods and checklist usage. Fire detection and suppression equipment in the affected areas was operable throughout the event. The event had no effect on the safe continued operation of the facility. LER 92-017 (pending)