

OPERATING DATA REPORT

DOCKET NO. 050-0331

DATE 4-15-88

COMPLETED BY Lonnie Miller

TELEPHONE 319-851-7204

OPERATING STATUS

1. Unit Name Duane Arnold Energy Center
2. Reporting Period March 1988
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
8. If Changes Occur in Capacity Ratings (Items Number 3 through 7) Since the Last Report, Give Reasons:

Notes

9. Power Level to Which Restricted, If Any (Net MWe):

10. Reasons For Restrictions, If Any:

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	<u>744.0</u>	<u>2184.0</u>	<u>115392.0</u>
12. Number of Hours Reactor Was Critical	<u>744.0</u>	<u>2184.0</u>	<u>82522.6</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>192.8</u>
14. Hours Generator On-Line	<u>744.0</u>	<u>2184.0</u>	<u>80439.4</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1204548.0</u>	<u>3549047.8</u>	<u>103586363.8</u>
17. Gross Electrical Energy Generated (MWH)	<u>410175.0</u>	<u>1216071.0</u>	<u>34775899.0</u>
18. Net Electrical Energy Generated (MWH)	<u>387264.2</u>	<u>1152482.7</u>	<u>32597874.3</u>
19. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>69.7</u>
20. Unit Availability Factor	<u>100.0</u>	<u>100.0</u>	<u>69.7</u>
21. Unit Capacity Factor (Using MDC Net)	<u>101.1</u>	<u>102.5</u>	<u>54.9</u>
22. Unit Capacity Factor (Using DER Net)	<u>96.8</u>	<u>98.1</u>	<u>52.5</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0</u>	<u>14.9</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

None

25. If Shut Down At End of Report Period, Estimated Date Of Startup: N/A

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(9/77)

RAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331

UNIT Duane Arnold Energy Center

DATE 4-15-88

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MONTH March 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
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1	<u>535</u>
2	<u>536</u>
3	<u>531</u>
4	<u>537</u>
5	<u>535</u>
6	<u>483</u>
7	<u>529</u>
8	<u>528</u>
9	<u>483</u>
10	<u>530</u>
11	<u>530</u>
12	<u>534</u>
13	<u>519</u>
14	<u>536</u>
15	<u>537</u>
16	<u>537</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
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17	<u>536</u>
18	<u>544</u>
19	<u>399</u>
20	<u>480</u>
21	<u>545</u>
22	<u>527</u>
23	<u>531</u>
24	<u>522</u>
25	<u>528</u>
26	<u>537</u>
27	<u>484</u>
28	<u>507</u>
29	<u>526</u>
30	<u>534</u>
31	<u>530</u>

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute the nearest whole megawatt.

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

Docket No. 050-0331

Unit Name Duane Arnold Energy Center

Date 4/15/88

REPORT MONTH March 1988

Completed by Lonnie Miller

Telephone 319-851-7204

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause
1	3-19-88	S	0	B	5	N/A	N/A	N/A	Decreased power to perform an inspection of the steam tunnel and a CRD exercise.

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

MAJOR/SAFETY RELATED MAINTENANCE

Docket No. 050-0331
Unit Duane Arnold Energy Center
Date 4-15-88
Completed By Lonnie Miller
Telephone 319-851-7204

DATE	SYSTEM	COMPONENT	DESCRIPTION
03-01-88	Diesel Generator	Filters for Blower	Filters were causing a high DP. The filters were replaced and the system was returned to service.
03-22-88 thru 03-24-88	Secondary Containment Ventilation Ducting	HVAC Hangers	The hangers for Secondary Containment ventilation ducting were identified as not meeting design requirements. The hanger supports were modified with additional reinforcement to correct the problem.

DOCKET NO. 05-331

UNIT Duane Arnold Energy Center

DATE 4-15-88

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REFUELING INFORMATION

1. Name of facility.
A. Duane Arnold Energy Center
2. Scheduled date for next refueling shutdown.
A. Fall, 1988
3. Scheduled date for restart following refueling.
A. Fall, 1988
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.

None
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.
A. a) 368 b) 824
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
9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity.
A. 1998

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NARRATIVE SUMMARY OF OPERATING EXPERIENCE

- 03-01-88 At the beginning of the month the Duane Arnold Energy Center (DAEC) was operating at 100% rated thermal power with 535 MWe being supplied to the grid. There were no reportable events during the month.
- 03-01-88 At 1122 hours the "B" diesel was taken inoperable for preplanned maintenance, entering a 7 day LCO. Filters were replaced in the blowers and the diesel was declared operable at 1942 hours, ending the 7 day LCO.
- 03-02-88 At 0859 hours the "A" Standby Liquid Control (SBLC) pump was removed from service for maintenance on an accumulator valve, entering a 7 day LCO. At 2204 hours, after replacing the valve, the SBLC pump was declared operable, ending the 7 day LCO.
- 03-22-88 The hangers for Secondary Containment ventilation ducting were identified as not meeting design requirements. The hanger supports were modified with additional reinforcement to correct the problem.