

OPERATING DATA REPORT

DOCKET NO. 050-0331
 DATE 02-15-89
 COMPLETED BY Lonnie Miller
 TELEPHONE (319) 851-7204

OPERATING STATUS

Notes

1. Unit Name: Duane Arnold Energy Center
2. Reporting Period: December 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): 565
7. Maximum Dependable Capacity (Net MWe): 538
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): Reactor shutdown for refueling/maintenance.
10. Reasons for Restrictions, If Any: Reactor shutdown for refueling/maintenance.

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	<u>744.0</u>	<u>8784.0</u>	<u>121992.0</u>
12. Number of Hours Reactor Was Critical	<u>172.5</u>	<u>6609.5</u>	<u>86948.5</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>192.8</u>
14. Hours Generator On-Line	<u>0.0</u>	<u>6386.2</u>	<u>84641.6</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0.0</u>	<u>10002352.2</u>	<u>110039668.6</u>
17. Gross Electrical Energy Generated (MWH)	<u>0.0</u>	<u>3372398.0</u>	<u>36932226.0</u>
18. Net Electrical Energy Generated (MWH)	<u>0.0</u>	<u>3177895.3</u>	<u>34623286.9</u>
19. Unit Service Factor	<u>0.0</u>	<u>72.7</u>	<u>69.4</u>
20. Unit Availability Factor	<u>0.0</u>	<u>72.7</u>	<u>69.4</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0.0</u>	<u>67.2</u>	<u>52.8</u>
22. Unit Capacity Factor (Using DER Net)	<u>0.0</u>	<u>67.2</u>	<u>52.8</u>
23. Unit Forced Outage Rate	<u>100.0</u>	<u>2.0</u>	<u>14.4</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of each: <u>Present Refueling Outage started September 29, 1988.</u>			
25. If Shutdown at End of Report Period, Est. Date of Startup: <u>January 10, 1989</u>			

(9/77)

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: December 1988

Docket No.: 050-0331
 Unit: Duane Arnold Energy Center
 Date: 02-15-89
 Completed By: Lonnie Miller
 Telephone: (319) 851-7204

No.	Date	Type(1)	Duration (Hours)	Reason(2)	Method of Shutting (3) Down Reactor	Licensee Event Report #	System Code (4)	Comp. Code (5)	Cause
1	12-01-88	S	679.5	C	4	N/A	N/A	N/A	Refueling and maintenance outage.
2	12-29-88	F	64.5	A	4	N/A	N/A	N/A	While attempting to balance the turbine generator after an extensive overhaul, high vibration was discovered.

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