

OPERATING DATA REPORT

DOCKET NO. 050-0331
DATE 11-15-91
COMPLETED BY Hai Tran
TELEPHONE (319) 851-7491

OPERATING STATUS

1. Unit Name: Duane Arnold Energy Center
2. Reporting Period: October 1991
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: The Gross and Net maximum dependable capacities have been changed to reflect the plant conditions.
9. Power Level to Which Restricted, If Any (Net MWe): N/A
10. Reasons for Restrictions, If Any: N/A

Notes

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	<u>745.0</u>	<u>7296.0</u>	<u>146808.0</u>
12. Number of Hours Reactor Was Critical	<u>745.0</u>	<u>6813.5</u>	<u>107324.3</u>
13. Reactor Reserve Shutdown Hours	<u>.0</u>	<u>.0</u>	<u>192.8</u>
14. Hours Generator On-Line	<u>745.0</u>	<u>6735.9</u>	<u>104444.1</u>
15. Unit Reserve Shutdown Hours	<u>.0</u>	<u>.0</u>	<u>.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1227055.2</u>	<u>10957401.6</u>	<u>140678635.6</u>
17. Gross Electrical Energy Generated (MWH)	<u>410765.0</u>	<u>3608800.0</u>	<u>47162691.0</u>
18. Net Electrical Energy Generated (MWH)	<u>386888.0</u>	<u>3391132.2</u>	<u>44208833.4</u>
19. Unit Service Factor	<u>100.0</u>	<u>92.3</u>	<u>71.1</u>
20. Unit Availability Factor	<u>100.0</u>	<u>92.3</u>	<u>71.1</u>
21. Unit Capacity Factor (Using MDC Net)	<u>100.8</u>	<u>90.3</u>	<u>58.1</u>
22. Unit Capacity Factor (Using DER Net)	<u>96.5</u>	<u>86.4</u>	<u>56.0</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>3.2</u>	<u>13.2</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of each: <u>Refuel Outage 11, February 27, 1992, 59 days</u>			
25. If Shutdown at End of Report Period, Est. Date of Startup: <u>N/A</u>			

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

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MONTH October 1991

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1	522.0
2	518.0
3	528.0
4	518.0
5	524.0
6	513.0
7	528.0
8	520.0
9	521.0
10	527.0
11	519.0
12	525.0
13	505.0
14	523.0
15	526.0

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

16	534.0
17	505.0
18	523.0
19	528.0
20	509.0
21	517.0
22	521.0
23	514.0
24	513.0
25	525.0
26	523.0
27	502.0
28	514.0
29	522.0
30	532.0
31	523.0

REFUELING INFORMATION

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1. Name of facility.
 - a. Duane Arnold Energy Center
2. Scheduled date for next refueling shutdown.
 - a. February 27, 1992
3. Scheduled date for restart following refueling.
 - a. April 26, 1992
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

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

RTS-218: Elimination of scram and Main Steam Isolation Valve (MSIV) isolation on main steam line radiation monitor, submitted on August 30, 1991.

RTS-242: Removal of containment component lists, submitted on September 20, 1991.
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 and (b) in the spent fuel storage pool.
 - a. 368
 - b. 1048
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 1991

Docket No.: 050-0331

Unit: Duane Arnold Energy Center

Date: 11-15-91

Completed By: Hai Tran

Telephone: (319) 851-7491

No.	Date	Type(1)	Duration (Hours)	Reason(2)	Method of Shutting (3) Down Reactor	Licensee Event Report #	System Code (4)	Comp. Code (5)	Cause
None									

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
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DATE	SYSTEM	COMPONENT	DESCRIPTION
10-08-91	Reactor Core Isolation Cooling System (RCIC)	RCIC Turbine Flow Indicating Controller	The controller was calibrated per planned maintenance.
10-13-91	River Water Supply (RWS) System	'B' RWS Discharge Line Control Valve	The discharge line control valve failed to meet the ASME time requirement. The positioner was replaced. The valve was tested and found to be operating satisfactorily.
10-31-91	Residual Heat Removal Service Water System (RHRSW)	'D' RHRSW Pump Motor	The 'D' RHRSW pump motor was taken out for inspection and repair per planned maintenance.

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

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- 10-01-91 The plant was operating at 99.8% of rated thermal power delivering 522 MWe to the grid. There was one 10 CFR 50.73 reportable event during the month. No unplanned Limiting Conditions for Operation (LCO) or significant reduction in power level events during the month.
- 10-18-91 It was noticed that five valves in the fire water system flow path were not listed in the "Fire Water Valve Line-Up Check" surveillance test procedure as required by Technical Specifications. Further investigation is continuing.
- LER 91-011 (pending)
- 10-31-91 The plant was operating at 99.7% of rated thermal power delivering 523 MWe to the grid.