

# OPERATING DATA REPORT

DOCKET NO. 050-0331  
 DATE Sept. 13, 1979  
 COMPLETED BY J. Van Sickle  
 TELEPHONE 319-851-5611

## OPERATING STATUS

1. Unit Name: Duane Arnold Energy Center
2. Reporting Period: August, 1979
3. Licensed Thermal Power (MWt): 1658
- \* 4. Nameplate Rating (Gross MWe): 565 (Turbine Rating)
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 Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe): 510
10. Reasons For Restrictions, If Any: Thermal power limited to approximately 95% due to MCPR operating limit restrictions.

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	5,831	40,151
12. Number Of Hours Reactor Was Critical	744	4,108.3	27,721.1
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	744	4,012.3	26,996.3
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,279,032	5,676,192	33,737,832
17. Gross Electrical Energy Generated (MWH)	379,710	1,925,340	11,262,769
18. Net Electrical Energy Generated (MWH)	357,322	1,811,632	10,527,932
19. Unit Service Factor	100%	68.8%	67.2%
20. Unit Availability Factor	100%	68.8%	67.2%
21. Unit Capacity Factor (Using MDC Net)	93.3%	60.3%	50.9%
22. Unit Capacity Factor (Using DER Net)	89.3%	57.7%	48.7%
23. Unit Forced Outage Rate	0%	31.2%	22.4%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):  
Refueling, February 9, 1979, 12 weeks

25. If Shut Down At End Of Report Period, Estimated Date of Startup: \_\_\_\_\_

\* Turbine Rating: 565.7 MWe  
 Generator Rating: 663.5 (MVA) x .90 (Power Factor) = 597 MWe

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331

UNIT Duane Arnold Energy Center

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MONTH August, 1979

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>475</u>
2	<u>472</u>
3	<u>472</u>
4	<u>469</u>
5	<u>459</u>
6	<u>462</u>
7	<u>463</u>
8	<u>472</u>
9	<u>469</u>
10	<u>482</u>
11	<u>493</u>
12	<u>484</u>
13	<u>492</u>
14	<u>501</u>
15	<u>501</u>
16	<u>485</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>487</u>
18	<u>481</u>
19	<u>464</u>
20	<u>480</u>
21	<u>483</u>
22	<u>484</u>
23	<u>489</u>
24	<u>487</u>
25	<u>486</u>
26	<u>476</u>
27	<u>488</u>
28	<u>486</u>
29	<u>487</u>
30	<u>483</u>
31	<u>477</u>

## INSTRUCTIONS

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

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH August, 1979

DOCKET NO. 050-0331

UNIT NAME Duane Arnold Energy Center

DATE Sept. 13, 1979

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No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
	None								

<sup>1</sup>  
F: Forced  
S: Scheduled

<sup>2</sup>  
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)

<sup>3</sup>  
Method:  
1-Manual  
2-Manual Scram.  
3-Automatic Scram.  
4-Other (Explain)

<sup>4</sup>  
Exhibit G - Instructions  
for Preparation of Data  
Entry Sheets for Licensee  
Event Report (LER) File (NUREG-  
0161)

<sup>5</sup>  
Exhibit I - Same Source

REFUELING INFORMATION

Docket No. 050-0331  
Unit Duane Arnold Energy Center  
Date Sept. 13, 1979  
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1. Name of facility.  
A. Duane Arnold Energy Center
2. Scheduled date for next refueling shutdown.  
A. February 9, 1980
3. Scheduled date for restart following refueling.  
A. May 3, 1980
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?  
A. Yes. MCPR and MAPLHGR operating limits as derived from transient and accident analyses.
5. Scheduled date(s) for submitting proposed licensing action and supporting information.  
A. Unknown
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.  
A. The reload will consist of up to 92 8x8 2 water rod bundles.
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.  
A. a) 368      b) 276
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

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

- 8-1 At the beginning of the report period the plant was operating at 507 MWe.
- 8-10 During normal operation, operations personnel noted the suppression chamber water level indication on LR 4385 was drifting downscale while redundant indication on LR 4384 was stable.

RO 79-017

- 8-22 The "A" River Water Supply Pump was declared inoperable due to motor problems.
- 8-30 The plant operated base loaded throughout the report period with brief power reductions for turbine control valve and control rod testing.

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MAJOR SAFETY RELATED MAINTENANCE

DATE	SYSTEM	COMPONENT	DESCRIPTION
8-01-79	Containment Atmosphere Control	Drywell Rad Monitor IC-219A Relay K1 and K2	Installed new contacts and coils
8-13-79	Containment Atmosphere Control	1K-18A containment differential pressure compressor	Replaced unloader valve
8-13-79	Primary Containment	LT 2325	Replaced amplifier card
8-13-79	RHR Service Water	1S-90B	Cleaned Strainer
8-14-79	Containment Atmosphere Control	AN-8181A	Installed new potassium hydroxide solution in cell and recalibrated analyzer.
8-15-79	Containment Atmosphere Control	AN-8181B	Installed new potassium hydroxide solution in cell and recalibrated analyzer.
8-17-79	Standby Diesel Generators	PS-3224A	Replaced pressure switch
8-20-79	RHR Service Water	1S-90B	Cleaned strainer
8-20-79	ESW	1S-89B	Cleaned strainer
8-22-79	RHR	PS-1955	Replaced pressure switch
8-23-79	Neutron Monitoring	RBM "A" Power Supply	Replaced diode
8-23-79	Containment Atmosphere Control	AN-8181A, AN-8181B	Recalibrated oxygen analyzers
8-24-79	Containment Atmosphere Control	AN-8181B	Adjusted flow and span gas pressure, recalibrated