

OPERATING DATA REPORT

DOCKET NO. 050-0331

DATE 07-15-85

COMPLETED BY Bradford Thomas

TELEPHONE 319-851-7339

OPERATING STATUS

1. Unit Name Duane Arnold Energy Center
2. Reporting Period June, 1985
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>720.0</u>	<u>4343.0</u>	<u>91271.0</u>
12. Number of Hours Reactor Was Critical	<u>0</u>	<u>773.8</u>	<u>63362.5</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>150.3</u>
14. Hours Generator On-Line	<u>0</u>	<u>773.1</u>	<u>61620.8</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0</u>	<u>1005468</u>	<u>77465403</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>335850</u>	<u>25923204</u>
18. Net Electrical Energy Generated (MWH)	<u>0</u>	<u>313652</u>	<u>24269804</u>
19. Unit Service Factor	<u>0</u>	<u>17.8</u>	<u>67.5</u>
20. Unit Availability Factor	<u>0</u>	<u>17.8</u>	<u>67.5</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0</u>	<u>14.0</u>	<u>51.6</u>
22. Unit Capacity Factor (Using DER Net)	<u>0</u>	<u>13.4</u>	<u>49.4</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0</u>	<u>16.8</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

8507260394 850630
PDR ADOCK 05000331
R PDR

25. If Shut Down At End Of Report Period, Estimated Date of Startup: July 16, 1985

IE24
111
(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331

UNIT Duane Arnold Energy Center

DATE 07-15-85

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TELEPHONE 319-851-7339

MONTH June, 1985

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	0
31	-

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.

(9/77)

Docket No. 050-0331
Unit Name Duane Arnold Energy Center
Date 07-15-85
Completed by Bradford Thomas
Telephone 319-851-7339

REFUELING INFORMATION

1. Name of facility.
 - A. Duane Arnold Energy Center
2. Scheduled date for next refueling shutdown.
 - A. Currently in progress.
3. Scheduled date for restart following refueling.
 - A. July 16, 1985.
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

Yes.

 - A. Reload license submittal.
 - B. Additional MAPLHGR curves for new fuel bundles being introduced for Cycle 8.
 - C. Revised spent fuel storage technical specifications.
 - D. Supplemental Reload license submittal for Cycle 8 lead test fuel assemblies including MAPLHGR curves.
5. Scheduled date(s) for submitting proposed licensing action and supporting information.

A. Submitted and approved	C. Submitted and approved
B. Submitted and approved	D. Submitted and approved
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.

5 GE Lead test assemblies which incorporate advanced fuel designs were loaded for Cycle 8.
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.

A. a) 368	b) 696
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REFUELING INFORMATION (Continued)

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

Docket No. 050-0331

Unit Name Duane Arnold Energy Center

Date 07-15-85

Completed by Bradford Thomas

Telephone 319-851-7339

REPORT MONTH June, 1985

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licenses Event Report #	System ⁴ Code	Component ⁵ Code	Cause
1	02/02/85	S	720.0	C	1	-	-	-	Continued Refuel Outage

1
F: Forced
S: Scheduled2
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-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

(9/77)

MAJOR/SAFETY RELATED MAINTENANCE

Docket No. 050-0331

Unit Name Duane Arnold Energy Center

Date 07-15-85

Completed by Bradford Thomas

Telephone 319-851-7339

DATE	SYSTEM	COMPONENT	DESCRIPTION
Prior to 6/04/85	Recirculation	Piping	Weld overlay repair of areas of recirculation piping in which defects had been detected were completed on 6/04/85. (See LER 85-010)
6/02/85	Control Rod Drives	Control Rods	Inspection and refurbishing of several control rod drive mechanisms occurred prior to fuel loading.

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NARRATIVE SUMMARY OF OPERATING EXPERIENCE

- 06/01/85 At the beginning of the month the Duane Arnold Energy Center was continuing an extended refuel and maintenance outage with the reactor partially refueled.
- 06/06/85 At 0928 hours a full Reactor Protection System (RPS) trip occurred due to a spurious high (>15% power) Average Power Range Monitor (APRM) trip. This was during the time that maintenance was being performed on a Local Power Range Monitor (LPRM). The cause of the trip is believed to be the LPRM spiking high when it was placed back into service.
(LER 85-018)
- 06/07/85 At 1738 hours maintenance was performed on CRD 18-11, without electrically tagging out other control rods centered around the cell. The cause of the event was operator error.
(LER 85-019)
- 06/10/85 At 1450 hours while going to the aid of an injured co-worker a second worker inadvertently manually tripped (bumped) the supply feeder breaker from the startup transformer. The "B" side of the Reactor Protection system actuated on loss of power. The "B" Emergency Diesel Generator auto-started. Groups 2, 3, 4, and 5 isolations and the "B" Standby Gas treatment system actuated. At 1505 hours, a momentary upscale signal from the "A" Average Power Range Monitor actuated the "A" Reactor Protection System, resulting in a full scram.
(LER 85-020)
- 06/13/85 At 1911 hours core refueling was completed.
- 06/14/85 At 1800 hours the spent fuel water level was inadvertently allowed to decrease slightly below technical specification level of 36 feet.
(LER 85-021)
- 06/17/85 At 1358 hours the "B" side logic caused associated Group 3 primary containment isolation valves to close and the Standby Gas Treatment system to initiate. The cause of the isolation signal was the loosening of a screw to accommodate the installation of a jumper, which caused a momentary loss of power to the "B" logic. During the installation of a second jumper an alligator clip was grounded out causing a fuse to blow. On 6/20/85 while performing Refuel Floor Exhaust Radiation Monitor checks, a jumper was removed before returning the instrument to operation causing a Group 3 isolation signal.
(LER 85-022)
- 06/23/85 At 1534 hours the plan for startup transformer reenergization was complete.
- 06/24/85 At 1236 hours the reactor vessel and head flange thermal limitation test was initiated in preparation for reactor vessel head installation.
- 06/26/85 At 0401 hours all vessel head bolt tensioning was complete.
- 06/26/85 At 1916 hours, hydrostatic testing of the reactor pressure vessel and Class 1 piping commenced.
- 06/30/85 At the end of the month the reactor core was fully loaded, and the vessel head in place.

Iowa Electric Light and Power Company

July 15, 1985
DAEC-85-622

Director, Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

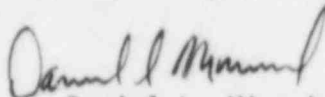
Attn: Document Control Desk

Subject: Duane Arnold Energy Center
Docket No. 50-331
Op. License DPR-49
June, 1985 Monthly Operating Report

Dear Sirs:

Please find enclosed 12 copies of the Duane Arnold Energy Center Monthly Operating Report for June, 1985. The report has been prepared in accordance with the guidelines of Regulatory Guide 1.16 and distribution has been made in accordance with DAEC Technical Specifications, Appendix A, Section 6.11.1.c and Regulatory Guide 10.1.

Very truly yours,



Daniel L. Mineck
Plant Superintendent - Nuclear
Duane Arnold Energy Center

DLM/BNT/kp*
Enclosures
File A-118d, TE-5

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