

OPERATING DATA REPORT

DOCKET NO. 050-0331

DATE 05-15-85

COMPLETED BY Kenneth S. Putnam

TELEPHONE 319-851-7456

OPERATING STATUS

Notes

1. Unit Name Duane Arnold Energy Center
2. Reporting Period April, 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:

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>719.0</u>	<u>2879.0</u>	<u>89807.0</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>26.9</u>	<u>68.6</u>
20. Unit Availability Factor	<u>0</u>	<u>26.9</u>	<u>68.6</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0</u>	<u>21.2</u>	<u>52.5</u>
22. Unit Capacity Factor (Using DER Net)	<u>0</u>	<u>20.2</u>	<u>50.2</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0</u>	<u>10.8</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

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

8505280402 850430
PDR ADOCK 05000331
R PDR

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331

UNIT Duane Arnold Energy Center

DATE 05-15-85

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MONTH April, 1985

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

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

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH April, 1985

Docket No. 050-0331
Unit Name Duane Arnold Energy Center
Date 05-15-85
Completed by Kenneth S. Putnam
Telephone 319-851-7456

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component ⁵ Code	Cause
1	02/02/85	S	719	C	I	-	-	-	Continued Refuel Outage

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure(Explain)
B-Maintenance or Test
C-Retueling
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

MAJOR/SAFETY RELATED MAINTENANCE

Docket No. 050-0331
Unit Duane Arnold Energy Center
Date 05-15-85
Completed by Kenneth S. Putnam
Telephone 319-851-7456

DATE	SYSTEM	COMPONENT	DESCRIPTION
4/02/85	Recirculation	Piping Welds	Completed Induction Heat Stress Improvement of heat-affected zones of recirculation piping welds.
4/09, 4/11 & 4/16/85	Reactor Overpressure Protection	Safety Relief Valves	Duane Arnold Energy Center personnel were notified by Wyle Laboratories that off-site lab testing of the safety relief valves had found that several of the valves were more than the Tech Spec prescribed limit below the setpoint. The Tech Spec setpoints are 1090, 1100, and 1110 psig. Testing found setpoints of 1057, 1060, and 1075 respectively on first runs. In addition, safety relief valve 4406 failed to reseal under the test conditions. Duane Arnold Energy Center personnel are awaiting formal evaluation reports from Wyle Laboratories to determine if additional reporting requirements exist. Wyle Laboratories will refurbish and recalibrate the valves for installation.
4/19/85	Main Steam	Outboard Main Steam Isolation Valves	Outboard Isolation Valves were taken apart, inspected, refurbished, reassembled and leak rate tested.
4/1 to 4/30/85	Torus	Torus	The torus was stripped, welds inspected, repaired, and recoated. Work was in progress throughout the month and essentially complete at the end of the month.

Docket No. 050-
Unit Duane Arnold Energy Ctr
Date 05-15-85
Completed by Kenneth Putnam
Telephone 319-851-7456

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. June, 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 will be loaded for Cycle 8.
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.
A. a) 0 b) 961

Docket No. 055-0331
Unit Duane Arnold Energy Ctr
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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

Docket No. 055-0331
Unit Duane Arnold Energy Ctr
Date 05-15-85
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NARRATIVE SUMMARY OF OPERATING EXPERIENCE

- 04/01/85 At the beginning of the month the Duane Arnold Energy Center was continuing a Refuel Outage with the reactor vessel defueled.
- 04/23/85 At 0955 hours the reactor vessel head was in place on the reactor vessel in preparation for draindown of the vessel to permit seal welding on the recirculation piping and other maintenance activities.
- 04/24/85 Seal welding of two through wall defects was begun in the initial repair work for recirculation system piping.
(LER 85-010
update pending)
- 04/24/85 Four objects were discovered in the jet pump annulus area during remote visual inspection. A loose parts analysis is in progress.
- 04/25/85 At 0045 hours a primary containment isolation of Group III valves and an auto-initiation of the Standby Gas Treatment System occurred when power was inadvertently removed from the Reactor Building ventilation radiation monitors.
(LER 85-012
pending)
- 04/26/85 At 0920 hours a freeze seal in use on piping on the reactor water cleanup bottom head drain line failed. The resultant fluid leakage of approximately 700 gallons drained to the drywell drain sump. A mechanical seal was temporarily used to stop flow and level was fully restored within 30 minutes. No personnel contamination or safety hazard existed.
- 04/27/85 At 1505 hours a deluge system unexpectedly actuated in the Reactor Building. No fire existed and the deluge system was isolated within a few minutes.
- 04/28/85 At 0045 hours surveillance testing of the Standby Liquid Control System was in progress. The testing included firing of the explosive squib valves. When this step of the test was performed, indication lights failed to indicate proper valve performance. Additional investigation revealed that both valves had performed fully satisfactorily and that the problems that existed were purely indication problems.
- 04/30/85 At 1025, while clearing lifted leads, a 1/2 amp fuse was found in ADS initiation logic where a 10 amp fuse belonged. Redundant initiation logic was available and alternate power to the circuit would have been available had the fuse blown.
- 04/30/85 At the end of the month the plant was continuing its refuel outage with all fuel out of the vessel.

Iowa Electric Light and Power Company

May 15, 1985

DAEC-85- 0379

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

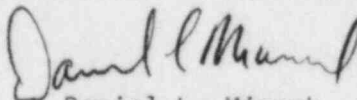
Attn: Document Control Desk

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

Dear Sirs:

Please find enclosed 12 copies of the Duane Arnold Energy Center Monthly Operating Report for April, 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/KSP/kp*
Enclosures
File A-118d, TE-5

cc: Director, Office of Inspection
and Enforcement
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May 15, 1985

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FROM: D. Mineck
Plant Superintendent - Nuclear

FILE: A-118d, TE-5

Please find attached one copy of the Monthly Operating Report for April, 1985, that has been transmitted to the NRC.

kp*