OPERATING DATA REPORT

DOCKET NO. 050-0331
DATE 03-15-85
COMPLETED BY Kenneth S. Putnam
TELEPHONE 319-851-7456

OPERATING STATUS

Notes

1. Unit Name Duane Arnold Energy Center
2. Reporting Period February, 1985
3. Licensed Thermal Power (MWt): 1658
4. Nameplate Rating (Gross MWe): 565
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): Maximum attainable power approximately 79%.
10. Reasons For Restrictions, If Any: Coastdown due to fuel depletion.

	This Month	Yr-to-Date	Cumulative
11. Hours In Reporting Period	672.0	1416.0	88344.0
12. Number of Hours Reactor Was Critical	29.8	773.8	63362.5
13. Reactor Reserve Shutdown Hours	0	0	150.3
14. Hours Generator On-Line	29.1	773.1	61620.8
15. Unit Reserve Shutdown Hours	0	0	0.0
16. Gross Thermal Energy Generated (MWH)	30900	1005468	77465403
17. Gross Electrical Energy Generated (MWH)	10264	335850	25923204
18. Net Electrical Energy Generated (MWH)	9507	313653	24269804
19. Unit Service Factor	4.3	54.6	69.8
20. Unit Availability Factor	4.3	54.6	69.8
21. Unit Capacity Factor (Using MDC Net)	2.7	43.0	53.3
22. Unit Capacity Factor (Using DER Net)	2.6	41.2	51.1
23. Unit Forced Outage Rate	0	0	16.8

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Continued refuel outage.

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

IE24 (9/77)
11

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331
UNIT Duane Arnold Energy Center
DATE 03-15-85
COMPLETED BY Kenneth S. Putnam
TELEPHONE 319-851-7456

MONTH February, 1985

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	373	17	0
2	12	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	-
14	0	30	-
15	0	31	-
16	0		

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 February, 1985

Docket No. 050-0331
Unit Name Duane Arnold Energy Center
Date 03-15-85
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 Code[5]	Cause
1	02/02/85	S	642.9	C	1	-	-	-	-

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-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)

Docket No. 050-0331
Unit Duane Arnold Energy Center
Date 03-15-85
Completed by Kenneth S. Putnam
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MAJOR/SAFETY RELATED MAINTENANCE

DATE	SYSTEM	COMPONENT	DESCRIPTION
Ongoing	Main Steam	Main Steam Isolation Valves	Began teardown and rebuilding MSIV's
	Torus Vacuum Breakers	Torus Vacuum Breakers	Began rebuilding torus vacuum breakers
	HPCI	HPCI Turbine	Scheduled comprehensive inspection and repair of HPCI turbine
	Suppression Pool	Torus	Hydrolasing of torus and inspection and repair of welds in preparation for torus recoating

Docket No. 055-0331
Unit Duane Arnold Energy Ctr
Date 03-15-85
Completed by Kenneth S. Putnam
Telephone 319-851-7456

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

02/01/85 At 0000 hours the plant was in normal operation at 425 MWe (gross).

02/02/85 AT 0507 hours the main generator was taken off line. At 0548 hours the reactor was driven subcritical. At 1845 hours all control rods were fully inserted. After shutdown a spurious Reactor Protection System trip was experienced due to a failed LPRM (resulting in APRM 15% trip) at 2351 hours.

(LER 85-04)

02/03/85 At 0402 hours the reactor vessel head vents were opened placing the plant in cold shutdown.

02/05/85 AT 0430 hours the mode switch was placed in the refuel position.

02/07/85 The reactor vessel head bolts were detensioned.

02/09/85 The removal of the reactor vessel head was completed by 1700 hours.

02/10/85 At 0145 hours the steam dryer was removed from the vessel.

02/15/85 At 2107 hours, defueling of the reactor vessel commenced.

02/16/85 Personnel erroneously utilized an internally contaminated hose to flush a nonradioactive floor drain. The effluent from the drain is routed to a holding tank. Sampling of the tank confirmed no detectable contamination.

02/19/85 The reactor vessel was fully defueled by 0940 hours. (Normal DAEC refueling practice is full core defuel to spent fuel pool.)

02/22/85 Planned comprehensive refueling outage inspection of the HPCI turbine discovered cracked reversing chambers. This problem has been reported previously in DAEC-unique reports.

(LER 85-07 pending)

02/28/85 At the end of the month the refuel outage continued with the vessel defueled.

Docket No. 050-0331
Unit Duane Arnold Energy Ctr
Date 03-15-85
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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. May, 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
   B. Submitted
   C. Submitted
   D. Submitted

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

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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

Iowa Electric Light and Power Company

March 15, 1985

DAEC-85-0217

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
February, 1985 Monthly Operating Report

Dear Sirs:

Please find enclosed 12 copies of the Duane Arnold Energy Center Monthly Operating Report for February, 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
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Region III
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Director, Office of Management and
Program Analysis
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IE24
1/1