

OPERATING DATA REPORT

DOCKET NO. 050-0331

DATE 06-15-85

COMPLETED BY Kenneth S. Putnam

TELEPHONE 319-851-7456

OPERATING STATUS

Notes

1. Unit Name Duane Arnold Energy Center
2. Reporting Period May, 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	744.0	3623.0	90551.0
12. Number of Hours Reactor Was Critical	0	773.8	63362.5
13. Reactor Reserve Shutdown Hours	0	0	150.3
14. Hours Generator On-Line	0	773.1	61620.8
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	1005468	77465403
17. Gross Electrical Energy Generated (MWH)	0	335850	25923204
18. Net Electrical Energy Generated (MWH)	0	313652	24269804
19. Unit Service Factor	0	21.3	68.1
20. Unit Availability Factor	0	21.3	68.1
21. Unit Capacity Factor (Using MDC Net)	0	16.8	52.0
22. Unit Capacity Factor (Using DER Net)	0	16.1	49.8
23. Unit Forced Outage Rate	0	0	16.8
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

8506240060 850531
PDR ADOCK 05000331
R PDR

25. If Shut Down At End Of Report Period, Estimated Date of Startup: July 3, 1985

IE24
1/1

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331

UNIT Duane Arnold Energy Center

DATE 06-15-85

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MONTH May, 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	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 May, 1985

Docket No. 050-0331
Unit Name Duane Arnold Energy Center
Date 06-13-85
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 ⁴ Code	Component ⁵ Code	Cause
1	02/02/85	S	744	C	1	-	-	-	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)

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Exhibit I-Same Source

(9/77)

MAJOR/SAFETY RELATED MAINTENANCE

Docket No. 050-0331

Unit Duane Arnold Energy Center

Date 06-15-85

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DATE	SYSTEM	COMPONENT	DESCRIPTION
Ongoing	Recirculation	Piping	Weld overlay repair of areas of recirculation piping in which defects had been detected were in progress throughout the month. (See LER 85-010)
Prior to 5/25/85	Control Rod Drives	Control Rod Drive Mechanisms	Inspection and refurbishing of several control rod drive mechanisms occurred prior to fuel loading.

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Unit Duane Arnold Energy Ctr
Date 06-15-85
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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. July 3, 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) 261 b) 803

Docket No. 055-0331
Unit Duane Arnold Energy Ctr
Date 06-15-85
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Telephone 319-851-7456

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

- 05/01/85 At the beginning of the month the Duane Arnold Energy Center was continuing an extended refuel and maintenance outage with the reactor fully defueled.
- At 1750 hours the Reactor Water Cleanup System isolated on a high differential flow indication in its leakage detection instrumentation. Investigation revealed that the cause of the indication was that one of the system's pump speed controllers had been inadvertently bumped from 35% of rated speed to 63%. The resulting system perturbations led to normal system isolation.
- (LER 85-013)
- 05/06/85 At 0910 hours the "A" side logic caused associated Group III primary containment isolation valves to close and the Standby Gas Treatment system to initiate. The cause of the isolation signal was a temporary jumper coming disconnected when the door of the control panel in which it was located was opened.
- (LER 85-014)
- 05/07/85 At 1219 hours a light being used to inspect the reactor vessel was accidentally allowed to enter a shutdown cooling suction line where system flow pulled it an extended distance into the line. Affected operations were stopped to permit recovery of the light.
- 05/09/85 At 1840 hours reflooding of the torus was initiated with extensive inspection and recoating work completed.
- 05/14/85 At 0605 hours maintenance work on an RHR service water cross-tie valve resulted in the leakage of approximately 1,000 gallons of service water inside the Reactor Building. Although the system was properly isolated, inadequate checks were done to ensure that the piping was drained. Equipment in the flooded area was dried out and inspected and work continued without further problems.
- 05/17/85 At 1620 hours the movement of new fuel from the storage vault to the spent fuel pool began in preparation for reloading the core. New fuel movement to the spent fuel pool continued intermittently through 5/21/85.
- 05/25/85 At 1430 hours fuel movement to reload the core commenced.

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NARRATIVE SUMMARY OF OPERATING EXPERIENCE (Continued)

- 05/29/85 At 1712 hours both the diesel and electric fire pumps were removed from service to permit maintenance activities on the circulation water pit (both pumps use this pit as a water source). A well water pump was aligned to the fire main to provide backup fire suppression capability.
(Special Report
LER 85-015 pending)
- 05/30/85 At 0240 hours Operations personnel discovered that contract personnel were mistakenly pumping water from the hotwell side of the condenser to the circulation water pit, rather than water from the cooling water side of the condenser as intended. Work was immediately stopped and an investigation of the cause and consequences of the event was initiated. The investigation revealed that no unmonitored release had occurred and that no measurable contamination was detectable in the water in the circulation pit.
- 5/31/85 At 1329 hours, during construction of a new site building, pile driving resulted in the rupture of the yard main fire header. The damaged section of the fire main was isolated and the remainder of the header was repressurized by 1650 hours. Alternate fire suppression capabilities and watches were established to protect affected areas. By 2117 hours the fire suppression system was restored to pre-rupture condition with the damaged section of the fire main repaired.
(Special Report
LER 85-015 pending)
- 5/31/85 At the end of the month the reactor remained in refuel mode with the reload of the core approximately two-thirds complete.

Iowa Electric Light and Power Company

June 15, 1985
DAEC-85- 0500

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

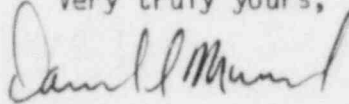
Attn: Document Control Desk

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

Dear Sirs:

Please find enclosed 12 copies of the Duane Arnold Energy Center Monthly Operating Report for May, 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

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IE24
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