

OPERATING DATA REPORT

DOCKET NO. 050-0331

DATE 5-15-84

COMPLETED BY Ken S. Putnam

TELEPHONE 319-851-7456

OPERATING STATUS

Notes

1. Unit Name Duane Arnold Energy Center
2. Reporting Period April, 1984
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):
10. Reasons For Restrictions, If Any:

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	<u>719.0</u>	<u>2903.0</u>	<u>81047.0</u>
12. Number of Hours Reactor Was Critical	<u>323.8</u>	<u>2342.4</u>	<u>58277.4</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>307.3</u>	<u>2300.2</u>	<u>56742.9</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWh)	<u>478944</u>	<u>3523560</u>	<u>71272122</u>
17. Gross Electrical Energy Generated (MWh)	<u>161951</u>	<u>1198625</u>	<u>23892682</u>
18. Net Electrical Energy Generated (MWh)	<u>152885</u>	<u>1131463</u>	<u>22370054</u>
19. Unit Service Factor	<u>42.7</u>	<u>79.2</u>	<u>70.0</u>
20. Unit Availability Factor	<u>42.7</u>	<u>79.2</u>	<u>70.0</u>
21. Unit Capacity Factor (Using NDC Net)	<u>41.3</u>	<u>75.7</u>	<u>53.6</u>
22. Unit Capacity Factor (Using DER Net)	<u>39.5</u>	<u>72.4</u>	<u>51.3</u>
23. Unit Forced Outage Rate	<u>57.3</u>	<u>20.8</u>	<u>17.4</u>

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

Maintenance outage beginning May 16, 1984, lasting 2 to 4 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

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331

UNIT Duane Arnold Energy Center

DATE 5-15-84

COMPLETED BY Ken S. Putnam

TELEPHONE 319-851-7456

MONTH April, 1984

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	484
2	505
3	507
4	508
5	511
6	511
7	506
8	482
9	508
10	506
11	507
12	502
13	324
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)

UNIT SHUTDOWNS AND POWER REDUCTIONS

Docket No. 050-0331Unit Name Duane Arnold Energy CenterDate 5-15-84Completed by Ken S. PutnamTelephone 319-851-7456REPORT MONTH April

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting ³ Down Reactor	Licensee Event Report #	System ⁴ Code	Component ⁵ Code	Cause & Corrective Action to Prevent Recurrence
3	84-04-13	F	411.7	A	1	LER 84-013	AD	FCV, VTV	"A" recirculation bypass valve and its associated vent valve had packing, leakage. The packing was repaired, stopping the leakage.

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)

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Exhibit 1-Same Source

Docket No. 050-0331
Unit Duane Arnold Energy Ctr
Date May 15, 1984
Completed by Ken S. Putnam
Telephone 319-851-7456

REFUELING INFORMATION

1. Name of facility.
A. Duane Arnold Energy Center
2. Scheduled date for next refueling shutdown.
A. January, 1985
3. Scheduled date for restart following refueling.
A. April, 1985
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?
Yes.
A. Reload license submittal including power uprate.
B. Additional MAPLHGR curves for new fuel bundles being introduced for Cycle 8.
5. Scheduled date(s) for submitting proposed licensing action and supporting information.
July, 1984
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.
None
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.
A. a) 368 b) 576
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

MAJOR SAFETY RELATED MAINTENANCE

Docket No. 050-0331
Unit Duane Arnold Energy Center
Date May 15, 1984
Completed by Kenneth S. Putnam
Telephone 319-851-7456

DATE	SYSTEM	COMPONENT	DESCRIPTION
04-13-84 to 04-29-84	Diesel Generator	Diesel Generator	Annual Inspection and Overhaul
04-18-84	MSIV	MSIV Actuators	Cleaned and lubricated spring guides
04-21-84	"A" Recirculation System	Discharge Bypass Valve (MO-1629)	Repacked valves. Inspected and repaired nearby electrical components for steam damage. (LER 84-013)
04-29-84	APRM	APRM "E" Power Supply	Repaired power supply to prevent voltage ripple.

Docket No. 055-0331
Unit Duane Arnold Energy Ctr
Date May, 1984
Completed by Ken Putnam
Telephone 319-851-7456

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

- 04-01-84 Normal plant operation at 550 MWe (gross).
- 04-04-84 At 0517 hours, at approximately 95% power, the automatic control of the scoop tube position for controlling recirculation flow became erratic. The scoop tube was manually positioned and locked prior to excessive power build-up. A mild reactor transient resulted in neutron flux swinging from approximately 80% to approximately 117% power (scram did not occur as the transient was insufficient for RPS initiation).
- 04-13-84 During normal full power operation, the unidentified leakage to the drywell floor drain sump increased to greater than the 5 gpm limit set by technical specifications. A controlled shutdown commenced. At 1451 hours an unusual event was declared due to a 45 minute drywell floor drain "unidentified" leakage rate of 9 gpm. The unidentified leakage was later found to be gross packing leaks on the "A" recirculation pump discharge bypass valve and its associated vent valve. (LER 84-013)
- At 1717 hours the main generator was taken off line commencing an outage for repair of the unidentified leakage and performance of annual surveillance testing.
- At 1916 hours the reactor was subcritical.
- 04-14-84 The unusual event was cancelled at 1408 hours with the reactor shutdown and leakage identified.
- 04-16-84 During surveillance testing of Group 5 isolation (secondary containment integrity) a partial Group 3 isolation of the Reactor Water Cleanup system spuriously occurred. This deviation was repeated on 4-23-84 and 4-25-84 for diagnostic purposes. (LER-84-014 pending).
- 04-29-84 At 1831 hours the reactor was critical.
- 04-30-84 At 0018 hours the reactor was driven subcritical for inspection of the drywell.
- At 0235 hours the reactor was critical.
- At 0237 hours the reactor scrammed due to an IRM-upscale trip. (LER 84-015 pending)
- At 1315 hours the reactor was critical.
- At 2201 hours the main generator was brought on-line.
- At 2400 hours, normal plant start-up was continuing with operation at 64 MWe gross.

Iowa Electric Light and Power Company

DAEC-84-298

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

DESIGNATED ORIGINAL
Certified By *MR Beebe* 06/06/84

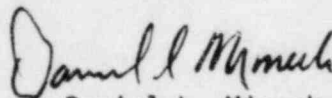
Attn: Document Control Desk

Subject: Duane Arnold Energy Center
Docket No. 50-331
Op. License DPR-49
April, 1984 Monthly Operating Report

Dear Sirs:

Please find enclosed 12 copies of the Duane Arnold Energy Center Monthly Operating Report for April, 1984. 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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