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 WILSON, D. L. Iowa Electric Light & Power Co.
 RECIP. NAME RECIPIENT AFFILIATION

DAVIS, A. B. Region 3 (Post 820201)

SUBJECT: Monthly operating rept for Mar 1992 for Duane Arnold Energy
 Ctr. W/ 920415 ltr.

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Iowa Electric Light and Power Company

April 15, 1992

NG-92-1759

Mr. A. Bert Davis
Regional Administrator
Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Subject: Duane Arnold Energy Center
Docket No: 50-331
Op. License DPR-49
March 1992 Monthly Operating Report

Dear Mr. Davis:

Please find enclosed the Duane Arnold Energy Center Monthly Operating Report for March 1992. The report has been prepared in accordance with the guidelines of NUREG-0020 and distribution has been made in accordance with DAEC Technical Specifications, Section 6.11.1.c.

Very truly yours,



David L. Wilson
Plant Superintendent - Nuclear

DLW/HT/eah
Enclosures
File A-118d

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Duane Arnold Energy Center • 3277 DAEC Road • Palo, Iowa 52324 • 319/851-7611



OPERATING DATA REPORT

DOCKET NO. 050-0331
DATE 04-15-92
COMPLETED BY Hai Tran
TELEPHONE (319) 851-7491

OPERATING STATUS

1. Unit Name: Duane Arnold Energy Center
2. Reporting Period: March 1992
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: N/A

Notes

9. Power Level to Which Restricted, If Any (Net MWe): N/A
10. Reasons for Restrictions, If Any: N/A

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	<u>744.0</u>	<u>2184.0</u>	<u>150456.0</u>
12. Number of Hours Reactor Was Critical	<u>0.0</u>	<u>1378.5</u>	<u>110166.8</u>
13. Reactor Reserve Shutdown Hours	<u>.0</u>	<u>.0</u>	<u>192.8</u>
14. Hours Generator On-Line	<u>0.0</u>	<u>1376.5</u>	<u>107284.6</u>
15. Unit Reserve Shutdown Hours	<u>.0</u>	<u>.0</u>	<u>.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0.0</u>	<u>1866739.2</u>	<u>144920335.6</u>
17. Gross Electrical Energy Generated (MWH)	<u>0.0</u>	<u>622866.0</u>	<u>48589192.0</u>
18. Net Electrical Energy Generated (MWH)	<u>-2501.3</u>	<u>576398.5</u>	<u>45540910.6</u>
19. Unit Service Factor	<u>0.0</u>	<u>63.0</u>	<u>71.3</u>
20. Unit Availability Factor	<u>0.0</u>	<u>63.0</u>	<u>71.3</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0.0</u>	<u>51.2</u>	<u>58.4</u>
22. Unit Capacity Factor (Using DER Net)	<u>0.0</u>	<u>49.1</u>	<u>56.3</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>0.0</u>	<u>12.9</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of each: <u>Refuel Outage 11, February 27, 1992, 59 days</u>)			
25. If Shutdown at End of Report Period, Est. Date of Startup: <u>April 26, 1992</u>			

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331
DATE 04-15-92
COMPLETED BY Hai Tran
TELEPHONE (319) 851-7491

MONTH March 1992

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

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

16	0
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

REFUELING INFORMATION

DOCKET NO. 50-0331
DATE 04-15-92
COMPLETED BY Hai Tran
TELEPHONE (319) 851-7491

1. Name of facility.
 - a. Duane Arnold Energy Center
2. Scheduled date for next refueling shutdown.
 - a. September, 1993
3. Scheduled date for restart following refueling.
 - a. April 26, 1992
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

Yes, RTS-218 and RTS-242 have been submitted and received back from NRC on 03/31/92 and 03/17/92, respectively.
5. Scheduled date(s) for submitting proposed licensing action and supporting information.

N/A
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.

N/A
7. The number of fuel assemblies (a) in the core, (b) in the spent fuel storage pool.
 - a. 0
 - b. 1520
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 - Licensed Capacity or
 - b. 1898 under the presently installed storage rack capacity.
9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity.
 - a. 2000 - Licensed Capacity or
 - b. 1997 under the presently installed storage rack capacity.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: March 1992

Docket No.: 050-0331

Unit: Duane Arnold Energy Center

Date: 04-15-92

Completed By: Hai Tran

Telephone: (319) 851-7491

No.	Date	Type(1)	Duration (Hours)	Reason(2)	Method of Shutting (3) Down Reactor	Licensee Event Report #	System Code (4)	Comp. Code (5)	Cause
1.	02-27-92	S	744.0	C	1	N/A	N/A	N/A	The Plant was shutdown for refuel outage 11 on February 27, 1992.

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-Continued
5-Reduced Load
9-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: 04-15-92
Completed By: Hai Tran
Telephone: (319) 851-7491

DATE	SYSTEM	COMPONENT	DESCRIPTION
03-22-92	Carbon Dioxide Fire Suppression System	CO2 Fire Suppression System	A test of the cable spreading room CO2 Fire Suppression System was performed to verify its adequacy. However, due to CO2 leaking into the Control Room from cabling penetrations, the test was re-performed on 04/05/92 and completed without complications.
03-25-92	Main Turbine	Main Turbine	The Main Turbine was inspected and repair work is in progress. Some of the work was to repair the damaged steam seal, low pressure turbine last-stage blading and high pressure diaphragm.
03-29-92	Reactor Vessel & Primary Piping	Internals Inspection Weld Inspection	In-Vessel Visual Inspection and inservice inspections revealed no reportable indications.
03-30-92	Control Rod Drive (CRD) System	CRD Drive Mechanism	Twenty CRD drives were replaced.
03-31-92	CRD System	CRD Blades and Local Power Range Monitor (LPRM)	Thirty two CRD blades and one LPRM string were replaced.

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

DOCKET NO. 050-0331
DATE 04-15-92
COMPLETED BY Hai Tran
TELEPHONE (319) 851-7491

- 03-01-92 The plant was in shutdown condition for refuel outage 11. There was one 10 CFR 50.73 reportable event. No unplanned LCO event (Limiting Conditions for Operation) for the Emergency Core Cooling Systems (ECCSs) or significant reduction in power level event during the month.
- 03-22-92 A test of the Cable Spreading Room CO2 fire suppression system was performed to verify its adequacy. At the time of the test the reactor vessel was defueled. Based on a previous event, there was some concern about CO2 intrusion into the Control Room during the test, and contingency measures were planned as part of the test preparation. Control Room oxygen levels were monitored during the test. Oxygen levels decreased in the Control Room during the test and resulted in the area being cleared of non-essential personnel as a cautionary measure. Minimum staffing levels were maintained for several minutes through the pre-planned use of self-contained breathing apparatus. Control Room ventilation was increased and oxygen levels restored within thirty minutes. Corrective action are being reviewed.
- LER 92-004 (pending)
- 03-31-92 The plant was in cold shutdown condition for the refuel outage and various maintenance activities were in progress.