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ACCESSION NBR: 9112190330 DOC. DATE: 91/11/30 NOTARIZED: NO DOCKET #
 FACIL: 50-331 Duane Arnold Energy Center, Iowa Electric Light & Pow 05000331
 AUTH. NAME AUTHOR AFFILIATION
 TRAN, H. Iowa Electric Light & Power Co.
 WILSON, D.L. Iowa Electric Light & Power Co.
 RECIP. NAME RECIPIENT AFFILIATION

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

SUBJECT: Monthly operating rept for Nov 1991 for Duane Arnold Energy
 Ctr.W/911215 ltr.

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Iowa Electric Light and Power Company

December 15, 1991

DAEC-91-0914

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
November 1991 Monthly Operating Report

Dear Mr. Davis:

Please find enclosed the Duane Arnold Energy Center Monthly Operating Report for November 1991. 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

David L. Wilson
Plant Superintendent - Nuclear

DLW/HT/eah
Enclosures
File A-118d

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2000005

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

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OPERATING DATA REPORT

DOCKET NO. 050-0331
DATE 12-15-91
COMPLETED BY Hai Tran
TELEPHONE (319) 851-7491

OPERATING STATUS

Notes

1. Unit Name: Duane Arnold Energy Center
2. Reporting Period: November 1991
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
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>720.0</u>	<u>8016.0</u>	<u>147528.0</u>
12. Number of Hours Reactor Was Critical	<u>720.0</u>	<u>7533.5</u>	<u>108044.3</u>
13. Reactor Reserve Shutdown Hours	<u>.0</u>	<u>.0</u>	<u>192.8</u>
14. Hours Generator On-Line	<u>720.0</u>	<u>7455.9</u>	<u>105164.1</u>
15. Unit Reserve Shutdown Hours	<u>.0</u>	<u>.0</u>	<u>.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1187812.8</u>	<u>12145214.4</u>	<u>141866448.4</u>
17. Gross Electrical Energy Generated (MWH)	<u>401951.0</u>	<u>4010751.0</u>	<u>47564642.0</u>
18. Net Electrical Energy Generated (MWH)	<u>378493.9</u>	<u>3769626.2</u>	<u>44587327.4</u>
19. Unit Service Factor	<u>100.0</u>	<u>93.0</u>	<u>71.3</u>
20. Unit Availability Factor	<u>100.0</u>	<u>93.0</u>	<u>71.3</u>
21. Unit Capacity Factor (Using MDC Net)	<u>102.1</u>	<u>91.3</u>	<u>58.3</u>
22. Unit Capacity Factor (Using DER Net)	<u>97.7</u>	<u>87.4</u>	<u>56.2</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>2.9</u>	<u>13.2</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>N/A</u>			

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331
DATE 12-15-91
COMPLETED BY Hai Tran
TELEPHONE (319) 851-7491

MONTH November 1991

OAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	526
2	529
3	517
4	530
5	526
6	530
7	530
8	529
9	528
10	514
11	530
12	526
13	526
14	525
15	522

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

16	527
17	509
18	525
19	525
20	530
21	528
22	531
23	523
24	518
25	531
26	528
27	529
28	528
29	526
30	529
31	N/A

REFUELING INFORMATION

DOCKET NO. 50-0331
DATE 12-15-91
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. February 27, 1992
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.
5. Scheduled date(s) for submitting proposed licensing action and supporting information.
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 and (b) in the spent fuel storage pool.
 - a. 368
 - b. 1048
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: November 1991

Docket No.: 050-0331

Unit: Duane Arnold Energy Center

Date: 12-15-91

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
None									

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 I-
Same Source

MAJOR/SAFETY RELATED MAINTENANCE

Docket No.: 050-0331
 Unit: Duane Arnold Energy Center
 Date: 12-15-91
 Completed By: Hai Tran
 Telephone: (319) 851-7491

DATE	SYSTEM	COMPONENT	DESCRIPTION
11-03-91	Standby Transformer Breaker	Air Receiver Tank	The Standby Transformer supply breaker was opened due to an air leak in the air receiver. The receiver was repaired per maintenance instruction.
11-11-91	Residual Heat Removal (RHR) System	RHR System Motor Operated Valves (MOV's)	Preventive maintenance was performed on selected RHR MOV's.
11-14-91	River Water Supply (RWS) System	'B' RWS Pump	The 'B' RWS pump failed to meet the surveillance criteria. The pump was refurbished per planned maintenance.

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

DOCKET NO. 050-0331
DATE 12-15-91
COMPLETED BY Hai Tran
TELEPHONE (319) 851-7491

- 11-01-91 The plant was operating at 99.9% of rated thermal power delivering 526 MWe to the grid. There were no 10 CFR 50.7 reportable events, unplanned Limiting Conditions for Operation (LCO) for the Emergency Core Cooling Systems (ECCS), or unplanned significant reductions in power level event during the month.
- 11-30-91 The plant was operating at 99.9% of rated thermal power delivering 529 MWe to the grid.