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REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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ACCESSION NBR:8801200350 DOC.DATE: 87/12/31 NOTARIZED: NO DOCKET # FACIL: 50-331 Duane Arnold Energy Center, Iowa Electric Light & Pow 05000331 AUTH.NAME AUTHOR AFFILIATION

MILLER, L.

Iowa Electric Light & Power Co. Iowa Electric Light & Power Co. HANNEN, R.L.

RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for Dec 1987.W/880115 ltr.

DISTRIBUTION CODE: IE24D COPIES RECEIVED:LTR J ENCL L SIZE: TITLE: Monthly Operating Report (per Tech Specs)

NOTES:

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OPERATING DATA REPORT

DOCKET NO. 050-0331

DATE 1-15-88

COMPLETED BY Lonnie Miller

TELEPHONE 319-851-7204

	Unit Name Duane Arnold Energy Center	Note	S	
	Unit Name Duane Arnold Energy Center			,
2.	The state stricts are go to the state of the			
	Reporting Period <u>December</u> , 1987			
3.	Licensed Thermal Power (MWt): 1658			
4.	Nameplate Rating (Gross MWe):565 (Turbine)			
5.	Design Electrical Rating (Net MWe): <u>538</u>			
6.	Maximum Dependable Capacity (Gross MWe: 545			!
7.	Maximum Dependable Capacity (Net MWe): 515			
8.	If Changes Occur in Capacity Ratings (Items Nur	mber 3 through 7) Sin	ce the Last Report,	Give Reasons:
9.	Power Level to Which Restricted, If Any (Net MV	Ne):		
	Reasons For Restrictions, If Any:			
				W. 2 W. 11.
		This Month	Yr-to-Date	Cumulative
11. 1	Hours in Reporting Period	744	8760	113208
12. !	Number of Hours Reactor Was Critical	744	5668.3	80338.6
13. [Reactor Reserve Shutdown Hours	0	0	192.8
14.	Hours Generator On-Line	744	5514.8	78255.4
15. l	Unit Reserve Shutdown Hours	0	0	0
16. (Gross Thermal Energy Generated (MWH)	1145032.8	7955121.6	100037315
17. (Gross Electrical Energy Generated (MWH)	392852	2701743	33559828
18. 1	Net Electrical Energy Generated (MWH)	371829.8	2540841.1	31445641.5
19 . l	Unit Service Factor	100	63	69.1
20 . l	Jnit Availability Factor	100	63	69.1
21 . l	Jnit Capacity Factor (Using MDC Net)	97	56.3	53.9
22 . l	Unit Capacity Factor (Using DER Net)	92.9	53.9	51.6
23. L	Init Forced Outage Rate	0	19.4	15.2
24. 9	Shutdowns Scheduled Over Next 6 Months (Type, D	ate, and Duration of		
			•	
N	None			-
				

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25. If Shut Down At End of Report Period, Estimated Date Of Startup: N/A

DOCKET NO. <u>050-0331</u>

UNIT <u>Duane Arnold Energy Center</u>

DATE 1-15-88

COMPLETED BY Lonnie Miller

TELEPHONE 319-851-7204

MONT	H December, 1987	
DAY	AVERAGE DAILY POWER LEVEL	DAY AVERAGE DAILY POWER LEVEL
	(MWe-Net)	(MWe-Net)
1	543	17542
2	510	18
3	172	542
4	246	20525
5	458	21 547
6	520	22 536
7	541	23 543
8	534	
9	537	125 538
10	541	26540
11	536	27524
12	538	28542
13	523	
14	545	30 244
15	540	31 481
16	542	_

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute the nearest whole megawatt.

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December, 1987

Docket No. 050-0331

Unit Name Duane Arnold Energy Center

Date 1/15/88

Completed by Lonnie Miller

Telephone 319-851-7204

No.	Da te	Туре	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report #	System Code4	Componen† Code5	Cause
1	12-3-87	F	0.0	В	5	N/A			MSIV leakage control system valve lineup change to prevent leakage control system from pressurizing.
2	12-30-87	F	0.0	А	5	N/A			Went down in power to do repairs on the Standby Gas Treatment System.

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)

Method:

1-Manual

2-Manual Scram

3-Automatic Scram

4-Continued

5-Reduced Load

Exhibit G-instructions

for Preparation of Data

Entry Sheets for Licensee

Event Report (LER) FIle (NUREG-

0161)

9-Other (Explain)

Exhibit 1-Same Source

(9/77)

MAJOR/SAFETY RELATED MAINTENANCE

Docket No. 050-0331

Unit <u>Duane Arnold Energy Center</u>

Date 1-15-88

Completed By Lonnie Miller
Telephone 319-851-7204

			Telephone <u>319-851-72U4</u>
DATE	SYSTEM	COMPONENT	DESCRIPTION
12-30-87	Standby Gas Treatment System	Duct	A hole was found in the Standby Gas Treatment System Exhaust. The hole was repaired.
12-31-87	Reactor Building Exhaust Radiation Monitoring System	Radiation Monitor and Indicator	Radiation monitor and indicator gave erratic output causing inaccurage readings. Bad switches were discovered and replaced.
·			

DOCKET NO. 050 31

UNIT Duane Arnold Energy Center
DATE 1-15-88

COMPLETED BY Lonnie Miller
TELEPHONE 319-851-7204

REFUELING INFORMATION

- 1. Name of facility.
 - A. Duane Arnold Energy Center
- 2. Scheduled date for next refueling shutdown.
 - A. Fall, 1988
- 3. Scheduled date for restart following refueling.
 - A. Fall, 1988
- 4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? N/A
- 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.

None

- 7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.
 - A. a) 368 b) 824
- 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
- The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity.
 - A. 1998

DOCKET NO. 050 31

UNIT Duane Arnold Energy Center
DATE 1-15-88

COMPLETED BY Lonnie Miller
TELEPHONE 319-851-7204

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

- 12-1-87 At the beginning of the month the Duane Arnold Energy Center (DAEC) was operating at 100% rated thermal power with 543 MWe being supplied to the grid. There was one reportable event during the month.
- 12-2-87 At 1920 hours a 24 hour Limiting Condition for Operation (LCO) was entered when the Main Steam Isolation Valve (MSIV) Leakage Control System (LCS) was declared inoperable due to water in the low pressure manifold. A valve lineup change was performed to prevent the LCS from pressurizing.
- 12-3-87 At 1103 hours the MSIV-LCS was declared operable and the 24 hour LCO was exited.
- 12-15-87 On December 15, 1987 at 0013 hours the plant was operating at 100% power, when the control building ventilation isolated and the "A" control building Standby Filter Unit (SFU) initiated unexpectedly. Investigation of the trip revealed that it had occurred due to a downscale signal on the "A" control building air intake radiation monitor. The cause of the downscale signal is suspected to be a temporary malfunction in the artificial background source.

(LER 87-030)

- 12-21-87 At 1043 hours a 24 hour LCO was entered when the Recirc pump D/P Surveillance Test was missed. At 1409 hours the Recirc pump D/P surviellance completed satisfactorily, ending the 24 hour LCO.
- 12-22-87 At 0934 hours two 7 day LCOs were entered when the 'A' Standby Gas
 Treatment (SBGT) system and the 'A' SFU were taken out-of-service for a
 minor alarm modification. At 1932 hours the 'A' SBGT was declared operable
 and at 2027 hours the 'A' SFU was declared operable, ending the 7 day
 LCOs.
- 12-23-87 At 0915 hours a 7 day LCO was entered when the 'B' SFU was taken out-of-service to work on the alarm system. At 1339 hours the 'B' SFU was declared operable, ending the 7 day LCO.
- 12-28-87 At 0808 hours a 7 day LCO was entered when the 'A' SBGT was taken out-ofservice to perform maintenance on alarms. At 2202 hours the 'A' SBGT was declared operable, ending the 7 day LCO.
- 12-30-87 On December 30, 1987 the plant reduced power to 30% rated thermal power to do repairs on a hole discovered in the SBGT Exhaust Duct. Repair work was finished and the Unusual Event A-10 was cancelled. This Unusual Event was conservatively declared and was later determined that the hole did not render the SBGT inoperable.
- 12-31-87 At the end of the month the plant was operating at 89% rated thermal power with 481 MWe-net being supplied to the grid.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH November, 1987

Docket No. 050-0331

Unit Name Duane Arnoid Energy Center

Date 1/15/88

Completed by Japaie Miller

Telephone 319-851-7204

No.	Da te	Туре	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report #	System Code4	Componen† Code5	Cause
2	11–3–87 11–10–87	F F	50.4 0.0	В	4 5	N/A N/A			Continuation of outage to repair EHC System. Decreased in power to do repair work on a Motor Operator RCIC Steam Supply Line Isolation Valve.

F: Forced S: Scheduled

Reason:

2

A-Equipment Fallure (Explain)

B-Maintenance or Test

C-Refueling

D-Regulatory Restriction

E-Operator Training & License Examination

F-Administrative

G-Operational Error (Explain)

H-Other (Explain)

Method:

1-Manual

2-Manual Scram

3-Automatic Scram

4-Continued

5-Reduced Load

9-Other (Explain)

Exhibit G-instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

Exhibit 1-Same Source

(9/77)

Iowa Electric Light and Power Company

January 15, 1988 DAEC-88-0091

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D. C. 20555

Subject: Duane Arnold Energy Center

Docket No. 50-331 Op. License DPR-49

December, 1987 Monthly Operating Report

Dear Sirs:

Please find enclosed the Duane Arnold Energy Center Monthly Operating Report for December, 1987. 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, Section 6.11.1.c. Also enclosed is a copy of page three of the November, 1987 Operating Report. This page was revised to correct the duration of outages listed.

Rick \L. Hannen

Plant Superintendent - Nuclear Duane Arnold Energy Center

RLH/LM/go* Enclosures File A-118d

cc: Mr. A. Bert Davis Regional Administrator Region III U. S. Nuclear Regulatory Commission 799 Roosevelt Road Glen Ellyn, IL 60137 (1)

> Mr. Anthony J. Cappucci Project Manager BWR Project Directorate #2 U. S. Nuclear Regulatory Commission 7920 Norfolk Avenue Bethesda, MD 20814

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Mr. Russ Gamble Corn Belt Power Cooperative 1300 13th Street North Humboldt, IA 50548