ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8802180289 DOC.DATE: 88/01/31 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.
HANNEN,R.L. Iowa Electric Light & Power Co.
RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for Jan 1988.W/880215 ltr.

DISTRIBUTION CODE: IE24D COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 7
TITLE: Monthly Operating Report (per Tech Specs)

NOTES:

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	NRR/DOEA/EAB	1	1	NRR/DREP/RPB	1	1
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RIDS/ADDS

OPERATING DATA REPORT

DOCKET NO. 050-0331
DATE 2-15-88
COMPLETED BY Lonnie Miller
TELEPHONE 319-851-7204

OPERATING STATUS

1. Unit Name Duane Arnold Energy Center
2. Reporting Period January, 1988
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:

Notes

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	744.0	113952.0
12. Number of Hours Reactor Was Critical	744.0	744.0	81082.6
13. Reactor Reserve Shutdown Hours	0	0	192.8
14. Hours Generator On-Line	744.0	744.0	78999.4
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1202306.4	1202306.4	101239621.4
17. Gross Electrical Energy Generated (MWH)	413551.0	413551.0	33973379.0
18. Net Electrical Energy Generated (MWH)	393000.4	393000.4	31838642.0
19. Unit Service Factor	100.0	100.0	69.3
20. Unit Availability Factor	100.0	100.0	69.3
21. Unit Capacity Factor (Using MDC Net)	102.6	102.6	54.3
22. Unit Capacity Factor (Using DER Net)	98.2	98.2	51.9
23. Unit Forced Outage Rate	0	0	15.1

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

None

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

JE24
1/1

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331
UNIT Duane Arnold Energy Center
DATE 2-15-88
COMPLETED BY Lonnie Miller
TELEPHONE 319-851-7204

MONTH January, 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	494	17	413
2	488	18	535
3	487	19	516
4	505	20	539
5	532	21	542
6	541	22	539
7	540	23	529
8	541	24	541
9	545	25	541
10	502	26	541
11	535	27	535
12	538	28	538
13	544	29	537
14	541	30	533
15	539	31	521
16	532		

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 January, 1988

Docket No. 050-0331
Unit Name Duane Arnold Energy Center
Date 2/15/88
Completed by Lonnie Miller
Telephone 319-851-7204

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	System Code[4]	Component Code[5]	Cause
1	01-16-88	S	0.0	B	5	N/A			Went down in power to perform a control rod sequence exchange

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

(9/77)

Docket No. 050-0331
Unit Duane Arnold Energy Center
Date 2-15-88
Completed By Lonnie Miller
Telephone 319-851-7204

MAJOR/SAFETY RELATED MAINTENANCE

DATE	SYSTEM	COMPONENT	DESCRIPTION
01-11-88	High Pressure Coolant Injection (HPCI) System	Manual Test Potentiometer	Control Room panel terminal connections were found loose and were tightened.
01-15-88	Reactor Core Isolation Cooling (RCIC) System	Motor Operator	Bad bearing was discovered and replaced.
01-19-88	High Pressure Coolant Injection (HPCI) System	Control Valve Operator Air Supply Line	Air Supply line had two kinks in it, the air line was replaced.

DOCKET NO. 050-03
UNIT Duane Arnold Energy Center
DATE 2-15-88
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

9. 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. 050-03
UNIT Duane Arnold Energy Center
DATE 2-15-88
COMPLETED BY Lonnie Miller
TELEPHONE 319-851-7204

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

01-01-88 At the beginning of the month the Duane Arnold Energy Center (DAEC) was operating at 91% rated thermal power with 494 MWe being supplied to the grid. There was one reportable event during the month.

01-11-88 At 0405 hours, the plant was operating at 99.9% power with a scheduled High Pressure Coolant Injection (HPCI) Operability Test in progress. The HPCI turbine tripped due to Steam Supply High Flow. The HPCI System was declared inoperable and a 7 day LCO was entered. Investigation revealed loose control room panel terminal connections for the speed control potentiometer, used to control turbine speed during testing, which ultimately caused the turbine trip.

On the same day at 1540 hours, with the plant operating at 99.8% power, the Reactor Core Isolation Cooling (RCIC) Operability Test was being performed. At 1543 hours, a RCIC Steam Supply Isolation Valve was shut per the test. Coincidentially the valve motor-operator torque switch caused the breaker to trip and de-activate the valve closing circuit. A 24 hour LCO and Emergency Action Level A-11 was entered due to HPCI and RCIC both being inoperable.

At 2216 hours HPCI was declared operable, ending the 24 hour LCO on HPCI and RCIC. RCIC remained out of service continuing the 7 day LCO.

On 1-15-88, at 1827 hours the RCIC System was returned to service following replacement of a bearing in the motor-operator, ending the 7 day LCO.

(LER 88-001)

01-19-88 At 0400 hours the HPCI System was declared inoperable, entering a 7 day LCO.

01-20-88 After repair work on a control valve, the HPCI System was declared operable, ending the 7 day LCO.

01-23-88 The "B" SFU was declared inoperable due to a failed relay in the heater circuit, entering a 7 day LCO.

01-28-88 At 1837 hours the relay repair and post-testing for the "B" SFU was completed satisfactorily, ending the 7 day LCO.

01-31-88 At the end of the month the plant was operating at 96.9% of rated thermal power with 521 MWe-net being supplied to the grid.

Iowa Electric Light and Power Company

February 15, 1988
DAEC-88-0201

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
January, 1988 Monthly Operating Report

Dear Sirs:

Please find enclosed the Duane Arnold Energy Center Monthly Operating Report for January, 1988. 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.

Very truly yours,

Rick Hannen 2-12-88

Rick L. Hannen
Plant Superintendent - Nuclear
Duane Arnold Energy Center

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

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