

REGULATOR INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8105150162 DOC. DATE: 81/05/11 NOTARIZED: NO DOCKET #
 FACIL: 50-331 Duane Arnold Energy Center, Iowa Electric Light & Pow 05000331
 AUTH. NAME: AUTHOR AFFILIATION
 VAN SICKEL, J. Iowa Electric Light & Power Co.
 RECIP. NAME: RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for Apr 1981.

DISTRIBUTION CODE: A008S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 1+7
 TITLE: Annual, Semi-Annual & Monthly Operating Reports (OL Stage)

NOTES:

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MAY 18 1981

MR

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MR

OPERATING DATA REPORT

DOCKET NO. 050-0331
 DATE May 11, 1981
 COMPLETED BY J. Van Sickle
 TELEPHONE 319-851-5611

OPERATING STATUS

1. Unit Name: Duane Arnold Energy Center
2. Reporting Period: April, 1981
3. Licensed Thermal Power (MWt): 1658
- * 4. Nameplate Rating (Gross MWe): 565 (Turbine Rating)
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 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	720	2,880	54,744
12. Number Of Hours Reactor Was Critical	0	1,873	39,041.7
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	0	1,857.5	38,134.5
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	2,733,428	48,732,066
17. Gross Electrical Energy Generated (MWH)	0	931,165	16,333,852
18. Net Electrical Energy Generated (MWH)	0	877,883	15,289,921
19. Unit Service Factor	0%	64.5%	69.7%
20. Unit Availability Factor	0%	64.5%	69.7%
21. Unit Capacity Factor (Using MDC Net)	0%	59.2%	54.2%
22. Unit Capacity Factor (Using DER Net)	0%	56.7%	51.9%
23. Unit Forced Outage Rate	0%	2.1%	18.3%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

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

8105150/62

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331

UNIT Duane Arnold Energy Center

DATE May 11, 1981

COMPLETED BY J. Van Sickle

TELEPHONE 319-851-5611

MONTH April, 1981

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>0</u>

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.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0331

UNIT NAME Duane Arnold Energy Center

DATE May 11, 1981

COMPLETED BY J. Van Sickle

TELEPHONE 319-851-5611

REPORT MONTH April, 1981

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
6.	810321	S	720	C	1				Unit remained shutdown for a refueling and maintenance outage

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)

⁵
Exhibit I - Same Source

REFUELING INFORMATION

Docket No. 050-0331
Unit Duane Arnold Energy Cent
Date May 11, 1981
Completed by J. Van Sickle
Telephone 319-851-5611

1. Name of facility.
A. Duane Arnold Energy Center
2. Scheduled date for next refueling shutdown.
A. Spring, 1982
3. Scheduled date for restart following refueling.
A. Unknown
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?
A. Unknown
5. Scheduled date(s) for submitting proposed licensing action and supporting information.
A. 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.
A. Unknown
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.
A. a) 368 b) 448
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

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

- 4-1 At the beginning of the report period the plant was shutdown for refueling and maintenance.
- 4-2 Suppression chamber draining was completed.
- 4-3 The moisture separator was removed from the reactor vessel.
- 4-4 Reactor core unloading began at 2310 hours.
- 4-8 Reactor core unloading was completed at 0020 hours.

At 0222 hours it was determined that 9 control rods had inserted partially. The rods were inspected and fully withdrawn.

During an inspection of the HPCI turbine, it was determined a reversing chamber cap screw head was missing.

Unique Report Pending

During testing of main steam relief and safety valves, four relief valves and one safety valve were found with out of tolerance as found setpoints.

RO Report 81-014

- 4-21 During breaker testing essential bus 1B-34A breaker 52-3401 did not close when breaker 52-4401 from the redundant power supply was opened.

RO Report 81-017

During a surveillance test review it was determined that required testing of HPCI steam supply isolation valves MOV 2238 and MOV 2239 was not completed due to an error in the surveillance test procedure.

RO Report Pending

- 4-21 During the annual inspection of standby diesel generators 1G-31 and 1G-21, it was determined the #14 lower crankshaft main bearing was wiped on 1G-21 and the #12 and #13 lower crankshaft main bearings on 1G-31 were wiped.

RO Reports 81-015 and 81-016

- 4-23 All new fuel assemblies were placed in the spent fuel pool.
- 4-25 Reloading of the reactor core began at 2153 hours.
- 4-27 During a weekly particulate filter and iodine cartridge change out, the offgas stack radiation monitor sample pumps were found not running.

ETSV Report 81-2

Docket No. 050-0331
Unit Duane Arnold Energy Ctr
Date May 11, 1981
Completed by J. Van Sickle
Telephone 319-851-5611

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

Electric fire pump 1P-48 was out of service more than seven days to allow work on the pump discharge check valve.

Unique Report Pending

MAJOR SAFETY RELATED MAINTENANCE

Docket No. 050-0331
Unit Duane Arnold Energy Center
Date May 11, 1981
Completed by J. Van Sickle
Telephone 319-851-5611

DATE	SYSTEM	COMPONENT	DESCRIPTION
4-2-81	Reactor Vessel Recirculation	MOV-4628 MCC	Replaced contacts in close starter.
4-9-81	CRD Hydraulic	CRD S/N 3522	Overhauled CRD.
4-9-81	CRD Hydraulic	CRD S/N 4799	Overhauled CRD
4-9-81	Control Building H & V	"A" Control Building Chiller	Replaced Oil Pump and Compressor
4-22-81	Core Spray	ZS-2143	Replaced limit switches
4-25-81	Neutron Monitoring	SRM "D"	Replaced preamplifier
4-25-81	Standby Diesel Generators	TS-3239A	Replaced switch
4-25-81	Standby Diesel Generators	1G-31	Performed annual inspection, replaced #14 lower crankshaft main bearing.
4-27-81	Standby Diesel Generators	1G-21	Performed annual inspection, replaced #12 and #13 lower crankshaft main bearings.
4-27-81	CRD Hydraulic	CRD S/N 3920	Overhauled CRD