OPERATING DATA REPORT

DOCKET NO. 050-0331
DATE March 12, 1981
COMPLETED BY J. Van Sickel
TELEPHONE 319-851-5611

OPERATING STATUS

1. Unit Name: Duane Arnold Energy Center
2. Reporting Period: February, 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	672	1,416	53,280
12. Number Of Hours Reactor Was Critical	661.1	1,405.1	38,573.8
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	655.6	1,399.6	37,676.6
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	947,410	2,462,652	48,097,290
17. Gross Electrical Energy Generated (MWH)	320,422	715,609	16,118,296
18 Net Electrical Energy Generated (MWH)	301,841	675,277	15,087,315
19. Unit Service Factor	97.6%	98.8%	70.7%
20. Unit Availability Factor	97.6%	98.8%	70.7%
21. Unit Capacity Factor (Using MDC Net)	87.2%	92.6%	55.0%
22. Unit Capacity Factor (Using BER Net)	83.5%	88.6%	52.6%
23. Unit Forced Outage Rate	2.4%	1.2%	18.5%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Refueling, March 20, 1981, 8 weeks

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331
UNIT Duane Arnold Energ Cente
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MONTH February, 1981

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	501	17	499
2	505	18	486
3	504	19	487
4	505	20	486
5	502	21	485
6	497	22	478
7	393	23	486
8	501	24	485
9	505	25	483
10	501	26	432
11	502	27	484
12	385	28	480
13	229	29	
14	13	30	
15	336	31	
16	414		

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.

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February, 1981

DOCKET NO. 050-0331
UNIT NAME Duane Arnold Energy Center
DATE March 12, 1981
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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
2.	810207	S	0	H	4				Power was reduced to perform CRD exercise and control rod withdrawals.
3.	810212	F	16.4	B	1	81-008	CB	MOTORX	The "B" Recirc pump was shutdown due to an oil level alarm on the pump motor. The plant was subsequently shutdown in accordance with Technical Specification LCO requirements.

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

(9/77)

Docket No. 050-0331
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REFUELING INFORMATION

1. Name of facility.

   A. Duane Arnold Energy Center

2. Scheduled date for next refueling shutdown.

   A. March 20, 1981

3. Scheduled date for restart following refueling.

   A. May 15, 1981

4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

   A. No

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. No licensing action is anticipated.

7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.

   A. a) 368 b) 364

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

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MAJOR SAFETY RELATED MAINTENANCE

DATE	SYSTEM	COMPONENT	DESCRIPTION
2-4-81	Containment Atmospheric Control	AN-8181A	Installed new chemicals.
2-7-81	River Water Supply	CV-4909, CV-4910A, CV-4910B	Replaced position indication switches.
2-10-81	Containment Atmospheric Control	AN-8181A	Installed new chemicals.
2-23-81	RHR Service Water	1S-90B	Disassembled and cleaned strainer.
2-24-81	Drywell Radiation Monitors	RE-8101A	Replaced detector.
2-27-81	Containment Atmospheric Control	AN-8181A	Installed new chemicals.

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NARRATIVE SUMMARY OF OPERATING EXPERIENCE

2-1 At the beginning of the report period the plant was operating at 541 MWe.

2-2 During a routine instrument check, off gas stack flow recorder FR-4133 was found indicating upscale. The cause was a frozen sensor line.

ETSV Report 81-1

2-6 The HPCI system started inadvertently during surveillance testing. Special testing was subsequently performed to demonstrate the system had performed properly.

2-6 A load reduction was begun at 2250 hours in preparation for control rod withdrawals.

2-7 Control rod withdrawals were completed and a power increase begun.

2-9 The plant was operating at 534 MWe.

2-10 Due to a fault, five switchyard breakers opened. The fault was identified and isolated. Plant operation was not affected.

2-12 Operations personnel found isolation valve V-18-19 to scram discharge instrument volume high level switch LS-1861D closed. The cause was personnel error.

RO Report 81-009

2-12 The "B" recirculation system M-G set tripped during maintenance. The M-G set was restarted. Following the restart the "B" recirc pump motor "Hi/Lo Oil Level" alarm came in and would not clear. The "B" recirc pump was subsequently secured and preparations for a plant shutdown begun.

2-14 The generator was taken off line at 0341 hours. The reactor was shutdown and a drywell entry made to add oil to the "B" recirc. pump motor. The reactor was critical at 1556 hours and the generator placed on line at 2003 hours. A power increase was begun.

RO Report 81-008

2-16 All control rods were full out at 0115 hours.

2-17 The plant was operating at 537 MWe.

2-19 During testing the pressure differential across the "B" RHR service water strainer was reading high which indicated a plugged strainer. Sand a little larger than the strainer's mesh had become lodged in the mesh and could not be backwashed. The strainer was disassembled and manually cleaned.

RO Report 81-007

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NARRATIVE SUMMARY OF OPERATING EXPERIENCE

2-24 The fan breaker for the "B" control building standby filter unit was found open at 1916 hours. Investigation revealed the breaker had been opened to perform authorized preventive maintenance earlier in the day and had inadvertently not been closed again.

RO Report Pending

2-26 At 0934 hours the "A" recirculation pump automatically ran back to 42% speed. No cause could be found. Pump speeds were matched and a power increase begun at 1520 hours.

2-28 At the end of the report period, the plant was operating at 510 MWe.