OPERATING DATA REPORT

DOCKET NO.	050-0331
DATE	6-13-80
COMPLETED BY	<u>J. Van Sickel</u> <u>319-851-</u> 5611
TELEPHONE	<u>_319-851-</u> 5611

OPERATING STATUS

1. Unit Name: Duane Arnold Energy Center	Notes	
2. Reporting Period: <u>May, 1980</u>		
3. Licensed Thermal Power (MWt):		
4. Nameplate Rating (Gross MWe): <u>565 (Turbine Rating)</u>		
5. Design Electrical Rating (Net MWe): 538		
6. Maximum Dependable Capacity (Gross MWe): 545		
7. Maximum Dependable Capacity (Net MWe): 515	L	

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

9. Power Level To Which Restricted, If Any (Net MWe): <u>50% from 5/7/80 to 5/16/80</u>
 10. Reasons For Restrictions, If Any: <u>Technical specification restriction for operation</u> with one recirculation system inoperable.

	This Month	Yrto-Date	Cumulative
11. Hours In Reporting Period 12. Number Of Hours Reactor Was Critical	<u> 744 </u>	<u>3,647</u> 1,848.8	46,727
13. Reactor Reserve Shutdown Hours	0	0	0
 Hours Generator On-Line Unit Reserve Shutdown Hours 	<u> </u>	<u> 1,766.3 </u> 0	31,585.5
16. Gross Thermal Energy Generated (MWH)	<u>563,184</u> 183,696	2,041,176 696,326	<u>39,170,736</u> 13,120,692
17. Gross Electrical Energy Generated (MWH) 18. Net Electrical Energy Generated (MWH)	170,283	649,673	12,264,736
19. Unit Service Factor 20. Unit Availability Factor	<u>74.6%</u> 74.6%	48.4%	67.6%
21. Unit Capacity Factor (Using MDC Net)	44.4%	<u>34.6%</u> 33.1%	<u>51.0%</u> 48.8%
22. Unit Capacity Factor (Using DER Net)23. Unit Forced Outage Rate	23.2%	8.7%	20.4%
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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.

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	050-0331
UNIT	Duane Arnold Engy. Ctr.
DATE	6-13-80
COMPLETED BY	<u>J. Van Sickel</u>
TELEPHONE	319-851-5611

MONT	Г н <u>May, 1980</u>		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	40	17	0
2	0	18	195
3	0	19	390
4	00	20	465
5	0	21	462
6	0	22	457
7		23	452
8	195	24	220
9	217	25	340
10	224	26	445
11	226	27	478
12	224	28	465
13	231	29	198
14	233	30	59
15	234	31	365
16	220		

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

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050-0331

Duane Arnold Energy Ctr.

DOCKET NO. UNIT NAME

			• .			REPORT MONTH	<u>May</u> ,	1980	UNIT NAME <u>Duane Arnold</u> En DATE <u>6-13-80</u> COMPLETED BY <u>J Van Sickel</u> TELEPHONE <u>319-851-5611</u>
No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor-3	Licensee Event Report #	System Code ⁴	Component Cude ⁵	Cause & Corrective Action to Prevent Recurrence
5.	800501	F	151.3	Å	1	80-017	СВ	MOTORX	Shutdown due to the failure of the "A" recirculation system M-G set drive motor.
6.	800517	S	21.3	H	1.				Shutdown to place "A" recirc. system back in service.
7.	800524	S	0	В	4				Power reduced to perform maintenance on the "A" feedwater pump.
8.	800529	Ŧ	16.4	A	1				Power reduced and plant shutdown due to high/low oil level alarm on "B" recirc. pump motor.
								•	
F: Fo. S: Sch	rced neduled	B-Mai C-Ref D-Reg E-Ope F-Adı G-Ope	on: uipment Fai intenance of ueling gulatory Res erator Train ministrative erational Er her (Explain	Test striction ing & Li ror (Exp	icense Exar	3 nination	3-Auto		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)

REFUELING INFORMATION

Docket No. 050-0331 Unit <u>Duane Arnold Energy Center</u> Date <u>June 13, 1980</u> Completed by <u>J. Van Sickel</u> Telephone <u>319-851-5611</u>

- 1. Name of facility.
 - A. Duane Arnold Energy Center
- 2. Scheduled date for next refueling shutdown.
 - A. Spring, 1981
- 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. No

5. Scheduled date(s) for submitting proposed licensing action and supporting information.

A. N/A

 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

Docket No.	050-0331
Date June	13, 1980
	Arnold Energy Center
Completed by	/ J. Van Sickel
Telephone	319-851-5611

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

At the beginning of the report period the plant was operating at 254 MWe. Preparations for plant shutdown were in progress due to the "A" Reactor Recirculation System M-G Set Drive Motor being out of commission. The generator was taken off the line at 0645 hours. All control rods were inserted by 1454 hours. The reactor was in cold shutdown by 2235 hours.

5-1

5-19

5-1

The plant was shutdown due to the failure of the "A" Recirculation System M-G Set Drive Motor. The motor failed due to a short within the motor field. The motor was rewound and returned to service.

RO Report 80-017

5-6 Preparations for plant startup were begun. Control rod withdrawals were begun at 2227 hours. The reactor was critical at 2303 hours.

- 5-7 The main generator was placed on the line at 1403 hours and a power increase was begun. The plant was operating with only one recirculation system in service and power was administratively limited to 50 per cent.
- 5-11 The plant was operating at 249 MWe.
- 5-16 A power reduction was begun at 2033 hours in preparation for plant shutdown.
- 5-17 The generator was taken off the line Oll7 hours. Repairs to the "A" Recirculation System M-G Set Drive Motor were completed and preparations for plant startup were begun. The reactor was critical at 1730 hours. The main generator was placed on the line at 2237 hours and a power increase begun.

During a weekly inspection the oil drain petcock on the governor for standby diesel generator 1G-31 was found open slightly and a small amount of oil had drained from the governor. One half pint of oil was added to restore normal oil level.

RO Report 80-018

- 5-20 The plant was operating at 500 MWe.
- 5-22 The HPCI system was taken out of service for maintenance.
- 5-23 During operability testing following maintenance the HPCI system would not come up to rated speed. The limiting condition for operation, already | in effect, was continued and an investigation was begun.

Docket No.			
Data June	13, 198	0	
Un Duane	e Arnold	Energy	Center
Completed	J. Van	Sickel	
Telephone]	319-851	-5611	

5-24 Power was reduced in order to perform maintenance on the "A" feedwater pump. The plant was at 46 per cent power at 0050 hours. The "A" feedwater pump was placed back in service at 2304 hours and a power increase was begun.

5-27 The plant was operating at 526 MWe.

5-28 The HPCI system was repaired, tested and returned to service. At 2230 hours the "B" Recirculation System Pump Motor high/low oil level alarm came in. The "B" Recirculation System was reduced to minimum speed.

5-28 During alarm testing three 5 AMP fuses which service the A, B and C annunciator cabinets in panel 1C-03 opened.

RO Report 80-019

The "B" Recirculation System was removed from service at 0059 hours. A power decrease was begun at 1922 hours in preparation for a plant shutdown. The main generator was removed from the line at 2232 hours.

During surveillance testing the setpoint of instruments controlling the suppression chamber to reactor building vacuum breakers were found to be out of specification.

RO Report Pending

Oil was added to the"B" Recirculation System Pump Motor at O350 hours and preparations for plant startup were begun. The reactor was critical at 1058 hours. The main generator was placed on the line at 1459 hours and a power increase was begun.

During the morning hours problems were experienced with the radwaste building sump pumps which resulted in a small amount of contaminated water being spilled just outside the radwaste building truck bay. The area was surveyed and contaminated material was placed in barrels. The area was again surveyed to insure no contamination remained which was above background levels. At 2236 hours the plant was operating at 438 MWe.

5-29

5 - 29

5-31

5-30

MAJOR SAFETY RELATED MAINTENANCE

Docket No. 050-0331 Unit Duane Arnold Energy Center Date June 13, 1980 Completed by J. Van Sickel Telephone 319-851-5611

DATE	SYSTEM	COMPONENT	DESCRIPTION
5-10-80	Reactor Protection	Relay C71A-K1B	Replaced Relay
5-14-80	Area Radiation Monitoring	ARM-9164	Installed New Detector Tube
5-23-80	Containment Atmospheric Control	LR4384C and LR4385B	Recalibrated Recorders
5-23-80	Containment Atmospheric Control	AR 4382A	Recalibrated Analyzer
5-23-80	Containment Atmospheric Control	AR4381A	Recalibrated Analyzer
5-27-80	Containment Atmospheric Control	AR4381A	Recalibrated Analyzer
5-28-80	Reactor Building Radiation Monitoring	RIM 7606A	Replaced Detector Tube
5-28-80	HPCI	CV-2201	Replaced Hydraulic Actuator Piston Seals
5-29-80	HPCI	HPCI Turbine	Replaced Lube Oil
5-30-80	Containment Atmospheric Control	AR-4382A	Recalibrated Analyzer