

OPERATING DATA REPORT

DOCKET NO. 050-0331

DATE 9-15-84

COMPLETED BY Ken S. Putnam

TELEPHONE 319-851-7456

OPERATING STATUS

Notes

1. Unit Name Duane Arnold Energy Center
2. Reporting Period August, 1984
3. Licensed Thermal Power (MWT): 1658
4. Nameplate Rating (Gross MWe): 565
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:

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	<u>744.0</u>	<u>5855.0</u>	<u>83999.0</u>
12. Number of Hours Reactor Was Critical	<u>744.0</u>	<u>4477.5</u>	<u>60249.0</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>150.3</u>	<u>150.3</u>
14. Hours Generator On-Line	<u>744.0</u>	<u>4365.6</u>	<u>58808.3</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1161298</u>	<u>6461515</u>	<u>74210076</u>
17. Gross Electrical Energy Generated (MWH)	<u>384086</u>	<u>2169351</u>	<u>24863408</u>
18. Net Electrical Energy Generated (MWH)	<u>361015</u>	<u>2042421</u>	<u>23281011</u>
19. Unit Service Factor	<u>100.0</u>	<u>74.6</u>	<u>70.0</u>
20. Unit Availability Factor	<u>100.0</u>	<u>74.6</u>	<u>70.0</u>
21. Unit Capacity Factor (Using MDC Net)	<u>94.2</u>	<u>67.7</u>	<u>53.8</u>
22. Unit Capacity Factor (Using DER Net)	<u>90.2</u>	<u>64.8</u>	<u>51.5</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>15.3</u>	<u>17.2</u>

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

Maintenance Outage September 28 to October 21, 1984

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

8409270719 840915
 PDR ADOCK 05000331
 R PDR

AVERAGE DAILY UNIT POWER LEVEL

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UNIT Duane Arnold Energy Center

DATE 9-15-84

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MONTH August, 1984

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	499
2	489
3	494
4	490
5	477
6	478
7	461
8	472
9	488
10	493
11	486
12	411
13	488
14	495
15	492
16	491

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	487
18	482
19	487
20	490
21	495
22	499
23	502
24	501
25	498
26	488
27	469
28	481
29	472
30	497
31	496

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 9-15-84
 Completed by Kenneth S. Putnam
 Telephone 319-851-7456

REPORT MONTH August, 1984

No.	Date					Licensee Event Report #			Cause & Corrective Action to Prevent Recurrence
None	-	-	-	-	-	-	-	-	-

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 1-Same Source

Docket No. 050-0331
Unit Duane Arnold Energy Center
Date September 15, 1984
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*MAJOR SAFETY RELATED MAINTENANCE

DATE	SYSTEM	COMPONENT	DESCRIPTION
8-8-84	Reactor Core Isolation Cooling	Steam Supply Valve Motor Operator	Torque switch adjusted. (LER 84-025)
8-20-84	Electric Fire Pump	Minimum Flow Valve (PSV-3301	Repaired air line to valve.
8-30-84	Electric Fire Pump	Electric Fire Pump Impeller	Began repairs to electric fire pump which were completed 9-6-84 with adjustment of impeller to improve flow rate and pressure.

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Unit Duane Arnold Energy Ctr
Date September 15, 1984
Completed by Kenneth Putnam
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REFUELING INFORMATION

1. Name of facility.
A. Duane Arnold Energy Center
2. Scheduled date for next refueling shutdown.
A. February, 1985
3. Scheduled date for restart following refueling.
A. May, 1985
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?
Yes.
A. Reload license submittal.
B. Additional MAPLHGR curves for new fuel bundles being introduced for Cycle 8.
5. Scheduled date(s) for submitting proposed licensing action and supporting information.
A. Submitted
B. Submitted
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) 576
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

- 08-01-84 At 0000 hours, normal plant operation at 534 MWe (gross).
- 08-07-84 At 1504 hours diesel generator 1G-31 was declared inoperable due to room ventilation supply fan 1V-SF-20 being inoperable due to SV-7000A which affected the fan control. This commenced a 7-day LCO. At 1824 hours 1G-31 was restored to operable status ending the 7-day LCO.
- 08-08-84 At 0319 hours surveillance testing discovered that the electrical supply breaker to the RCIC steam supply valve MO-2404 tripped out each time the valve was closed. The valve torque switch was out of adjustment. RCIC was declared inoperable, commencing a 7-day LCO.
- At 1414 hours RCIC was fully operable ending the 7-day LCO.
- 08-20-84 In association with repairs to the off-gas chiller a small volume of glycol (on the order of 1 quart) passed into the radwaste system. This resulted in the total organics concentration exceeding administrative limits. Processing of the effluent is being investigated.
- At 1717 hours the electric fire pump was declared inoperable when it was found that there was a break in the air line to the minimum flow valve. This commenced a 7-day LCO. By 2229 hours the air line was repaired ending the 7-day LCO.
- 08-21-84 At 0530 hours the diesel fuel oil transfer pump 1P-44A was found to exceed the upper limit of ASME flow rate specifications. The corresponding diesel generator was conservatively declared inoperable beginning a 7-day LCO. By 1138 hours Plant Performance engineers determined that the pump was fully capable of performing its function thus ending the LCO on inoperability of the diesel generator.
- At 1148 hours a personnel error resulted in secondary containment being momentarily violated via the railway airlock.
(LER 84-030 pending)
- 08-27-84 At 0854 hours a mechanical failure of airlock door interlock failed during maintenance resulting in a momentary secondary containment violation.
(LER pending)
- 08-30-84 At 0930 hours while troubleshooting difficulties with the electric fire pump it was found that the electric fire pump (1P-48) discharge was slightly below the minimum T.S. flow requirements. The pump was declared inoperable commencing a 7-day LCO.
(Special Report pending)
- 08-31-84 At 2400 hours the plant was in normal operation at 524 MWe (gross).