

OPERATING DATA REPORT

DOCKET NO. 050-0331

DATE April 15, 1983

COMPLETED BY Matt Andersen

TELEPHONE 319-851-7308

OPERATING STATUS

1. Unit Name Duane Arnold Energy Center
2. Reporting Period March, 1983
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 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	<u>744.0</u>	<u>2160.0</u>	<u>71544.0</u>
12. Number of Hours Reactor Was Critical	<u>0.0</u>	<u>1010.7</u>	<u>51267.0</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>0.0</u>	<u>1010.7</u>	<u>49945.9</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>0.0</u>	<u>1194016.8</u>	<u>61567456.0</u>
17. Gross Electrical Energy Generated (MWH)	<u>0.0</u>	<u>410045.0</u>	<u>20624962.0</u>
18. Net Electrical Energy Generated (MWH)	<u>0.0</u>	<u>380160.6</u>	<u>19294433.0</u>
19. Unit Service Factor	<u>0.0%</u>	<u>46.8%</u>	<u>69.8%</u>
20. Unit Availability Factor	<u>0.0%</u>	<u>46.8%</u>	<u>69.8%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0.0%</u>	<u>34.2%</u>	<u>52.4%</u>
22. Unit Capacity Factor (Using DER Net)	<u>0.0%</u>	<u>32.7%</u>	<u>50.1%</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>0.0</u>	<u>17.5</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			
<u>Refueling commenced on February 11, 1983</u>			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: April 25, 1983

*Turbine Rating: 565.7 MWe

Generator Rating: 663.5 (MVA) x .90 (Power Factor) = 597 MWe

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331UNIT Duane Arnold Energy CenterDATE April 15, 1983COMPLETED BY Matt AndersenTELEPHONE 319-851-7308MONTH March, 1983

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 April 15, 1983

Completed by Matt Andersen

Telephone 319-851-7308

REPORT MONTH March, 1983

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
5	3-1-83	S	744.0	C	1	N/A	N/A	N/A	Scheduled refueling shutdown

1 F: Forced
S: Scheduled

2 Reason:
A-Equipment Failure(Explain)
B-Maintenance of 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

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Unit Duane Arnold Energy Ctr
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REFUELING INFORMATION

1. Name of facility.
A. Duane Arnold Energy Center
2. Scheduled date for next refueling shutdown.
A. Fall, 1984 (Note - current refueling outage will extend through April 25, 1983)
3. Scheduled date for restart following refueling.
A. April 25, 1983
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?
Yes, current outage requires approval of two pending amendments: RTS-147 on the reload license and RTS-146 on load case avoidance.
5. Scheduled date(s) for submitting proposed licensing action and supporting information.
All outstanding amendments and supporting information has been 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 (On 3/31/83 refueling was in progress.
Number shown represents totals at
conclusion of refueling on 4/9/83)
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

MAJOR SAFETY RELATED MAINTENANCE

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DATE	SYSTEM	COMPONENT	DESCRIPTION
3/5/83	CRD	CRDs 30-27, 26-03, 26-15, 06-23, 38-27, 34-27, 14-35, 18-23, 26-23, 38-31, 02-27, 18-11, 26-07, 06-19, 18-15, 10-19 and 22-35	Rebuild of tube and rod assemblies (17 CRDs)
3/7/83	CRD	Blades 18-15, 10-23, 18-31, 26-15, 26-31, and 34-23	Blade changeouts
3/8/83	Nuclear Instrumentation	LPRMs 24-09, 08-25, 08-33, 16-41, 16-33, and 32-25	LPRM changeouts
3/11/83	CRD	CRDs 26-15 & 30-27	Overtravel alarms when being withdrawn; 26-15 rebuilt & installed, 30-27 (bent tube & rod) replaced with spare - repairs pending
3/19/83	SGTS	"A" Charcoal Bed	Replaced with new charcoal (degradation due to smoke from minor torus fire on 3/10/83)
3/24/83	SGTS	"B" Charcoal Bed	Replaced with new charcoal (RO 83-011 pending)
3/28/83	SBDG	Diesel Generator 1G-21	Annual inspection performed including LER 81-015 inspection of Journals
3/31/83	SBDG	Diesel Generator 1G-31	Annual inspection performed including LER 81-016 inspection of Journals

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NARRATIVE SUMMARY OF OPERATING EXPERIENCE

3-1-83 1558 Commenced defueling reactor.
3-4-83 1535 Fuel movement from reactor to spent fuel pool complete.
3-5-83 CRD maintenance commenced. 17 CRDs scheduled for repairs.
3-7-83 CRD blade changeout initiated for the following blades: 18-15, 10-23, 18-31, 26-15, 26-31 and 34-23.
3-8-83 LPRM changeouts 24-09, 08-25, 08-33, 16-41, and 32-25.
3-10-83 2345 Minor fire reported inside the torus during construction activities.
3-11-83 River Water Supply System pumps 1P-117B and 1P-117D declared inoperative (2/11/83) when ASME allowables were exceeded.

RO Report 83-005

3-20-83 Maintenance on CRD drives completed.
3-22-83 Two SRVs found to have setpoints conservatively below setpoints specified in tech spec.
3-23-83 Identified one repairable pipe weld crack in RWCU system (outside containment isolation valves). Pipe replacement in progress.
3-24 - "A" & "B" RPS to MG set breakers failed to trip during surveillance
3-25-83 testing. These non-safety related breakers are being removed this outage and replaced with safety grade EPAs.
3-24-83 "B" RPS MG set returned to service.
3-24-83 "B" Standby Gas train charcoal found saturated with water. Charcoal was replaced with new charcoal and design of overhead fire protection system changed (A train operable since last inspection of B train).

RO Report 83-011 Pending

3-26-83 Engineering evaluation of deficiencies identified during February inspection of safety related snubbers identified 4 inoperative and 4 indeterminate as to operability.

RO Report Pending