

OPERATING DATA REPORT

DOCKET NO. 050-0331
 DATE November 15, 1979
 COMPLETED BY J. Van Sickle
 TELEPHONE 319-851-5611

OPERATING STATUS

1. Unit Name: Duane Arnold Energy Center
2. Reporting Period: October, 1979
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	745	7,296	41,616
12. Number Of Hours Reactor Was Critical	719.2	5,547.5	29,160.3
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	714.4	5,446.7	28,433.7
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	626,808	7,119,096	35,180,736
17. Gross Electrical Energy Generated (MWH)	206,765	2,406,628	11,744,057
18. Net Electrical Energy Generated (MWH)	190,967	2,258,512	10,974,812
19. Unit Service Factor	95.9%	74.7%	68.3%
20. Unit Availability Factor	95.9%	74.7%	68.3%
21. Unit Capacity Factor (Using MDC Net)	49.8%	60.1%	51.2%
22. Unit Capacity Factor (Using DER Net)	47.6%	57.5%	49.0%
23. Unit Forced Outage Rate	4.1%	25.3%	21.6%

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

Refueling, February 9, 1980, 12 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

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7911200 406

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-331

UNIT Duane Arnold Energy

DATE November 15, 1979

COMPLETED BY J. Van Sickle

TELEPHONE 319-851-5611

MONTH October, 1979

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>192</u>
2	<u>210</u>
3	<u>220</u>
4	<u>199</u>
5	<u>220</u>
6	<u>167</u>
7	<u>158</u>
8	<u>186</u>
9	<u>198</u>
10	<u>196</u>
11	<u>193</u>
12	<u>207</u>
13	<u>210</u>
14	<u>170</u>
15	<u>283</u>
16	<u>270</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>305</u>
18	<u>314</u>
19	<u>309</u>
20	<u>203</u>
21	<u>183</u>
22	<u>278</u>
23	<u>220</u>
24	<u>0</u>
25	<u>190</u>
26	<u>407</u>
27	<u>389</u>
28	<u>491</u>
29	<u>477</u>
30	<u>471</u>
31	<u>434</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.

(9/77)

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October, 1979DOCKET NO. 050-0331UNIT NAME Duane Arnold Energy CenterDATE November 15, 1979COMPLETED BY J. Van SickleTELEPHONE 319-851-5611

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
14.	791006	S	0	F	4	N/A	ZZ	ZZZZZZ	Power reduced due to lack of demand and to conserve fuel for winter peak loads
15.	791020	S	0	F	4	N/A	ZZ	ZZZZZZ	Power reduced due to lack of demand and to conserve fuel for winter peak loads.
16.	791023	F	0	A	4	N/A	ZZ	ZZZZZZ	Power reduced in preparation for plant shutdown.
17.	791024	F	28.8	A	1	N/A	CH	PIPEXX	Plant shutdown to repair "B" feed pump seal water line.
18.	791031	F	1.8	A	3	N/A	HA	INSTRU	Turbine trip and reactor scram during turbine stop valve testing due to EHC low pressure indication.

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

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REFUELING INFORMATION

Docket NO. 050-0551
Unit Duane Arnold Energy Cen
Date November 15, 1979
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. February 9, 1980
3. Scheduled date for restart following refueling.
A. May 3, 1980
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?
A. Yes. MCPR and MAPLHGR operating limits as derived from transient and accident analyses.
5. Scheduled date(s) for submitting proposed licensing action and supporting information.
A. Unknown.
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. The reload will consist of up to 92 8 x 8 2 water rod bundles.
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.
A. a) 368 b) 276
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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NARRATIVE SUMMARY OF OPERATING EXPERIENCE

- 10-1 At the beginning of the report period the plant was operating at 209 MWe. Plant load was administratively limited in order to conserve fuel for winter peak loads. The plant was following load to the extent possible while staying within administrative limits.
- 10-3 During surveillance testing "B" rod block monitor (RBM) was found to be inoperable and generating a continuous rod withdrawal block. "A" RBM was tested and found to be operable.
- RO 79-028
- 10-15 The "A" feed pump was started. Plant load was increased due to increasing system demand.
- 10-20 Plant load was reduced due to lack of demand and to conserve fuel for winter peak loads.
- 10-23 The "B" feedwater pump seal water return line was found leaking. The leak was in an unisolable location so preparations for a plant shutdown were begun.
- 10-24 The main generator was tripped at 0117 hours. The reactor was subcritical at 0215 hours. The RCIC turbine was operated from 0348 hours to 0520 hours for vessel pressure control.
- 10-25 Repairs were completed and plant startup begun. The reactor was critical at 0219 hours. The main generator was placed on the line at 0607 hours and a power increase was begun. The plant was at 388 MWe at 2230 hours. A fuel preconditioning ramp was begun at 2345 hours.
- 10-26 At 1100 hours "B" rod block monitor was found inoperable. An RO investigation is in progress.
- During the performance of a special test of standby diesel generator 1G-21, the fuel oil level in the diesel fuel storage tank dropped below the 35,000 gallon technical specification limit. An RO investigation is in progress.
- 10-28 The plant was operating at 508 MWe.
- 10-29 The RCIC system was declared inoperable due to a packing leak on CV-2409. A seven day LCO was started.
- 10-30 CV-2409 was repaired and the RCIC system tested with satisfactory results. The seven day LCO was cancelled.
- 10-31 At 2214 hours a turbine trip and reactor scram occurred during turbine stop valve testing. The turbine supervisory instrument system first hit was EHC low pressure. An investigation was begun.

Docket No. 950-0331
 Unit Duane Arnold Energy Center
 Date November 15, 1979
 Completed by J. Van Sickle
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MAJOR SAFETY RELATED MAINTENANCE

DATE	SYSTEM	COMPONENT	DESCRIPTION
10-3-79	Containment Atmospheric Control	LR 4385	Replaced pen and tape assembly
10-4-79	Neutron Monitoring	Rod block Monitoring "B"	Reconnected pin connector
10-6-79	Containment Atmospheric Control	AN-8181B	Changed chemicals and calibrated
10-9-79	Containment Atmospheric Control	AN-8181B	Checked span and recalibrated
10-9-79	RHR	MOV-2009	Rebuilt valve operator
10-19-79	ESW	1S-89A, 1S-89B	Cleaned strainers
10-23-79	River water supply	1P-117B	Adjusted impeller
10-23-79	RHR	1S-90A, 1S-90B	Cleaned strainers
10-25-79	ESW	1S-89A, 1S-89B	Cleaned strainers
10-26-79	Neutron Monitoring	Rod Block Monitor "B"	Installed new amplifier card
10-29-79	Fuel pool cooling and cleanup	Wall penetration on HCD-23	Installed grout
10-30-79	ESW	1S-89B	Cleaned strainer

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