

OPERATING DATA REPORT

DOCKET NO. 050-0331
 DATE 9-15-82
 COMPLETED BY Kimuel Hill
 TELEPHONE 319-851-5611

OPERATING STATUS

1. Unit Name: Duane Arnold Energy Center
2. Reporting Period: August 1982
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	744.0	5831.0	6645.0
12. Number Of Hours Reactor Was Critical	695.6	4101.1	47579.8
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	667.7	3884.3	46273.7
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	573770.4	4835990.8	57889388.8
17. Gross Electrical Energy Generated (MWH)	** 181697.0	1619719.0	19394759.0
18. Net Electrical Energy Generated (MWH)	** 168300.9	1520643.0	18152228.4
19. Unit Service Factor	89.7	66.6	69.6
20. Unit Availability Factor	89.7	66.6	59.6
21. Unit Capacity Factor (Using MDC Net)	43.9	50.6	53.0
22. Unit Capacity Factor (Using DER Net)	42.0	48.5	50.8
23. Unit Forced Outage Rate	10.3	28.9	18.3

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

First Quarter 1983 Refueling

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

** Includes 2 MWe correction from July 1982

8209210238

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331
UNIT Duane Arnold
Energy Center
DATE 9-15-82
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MONTH August 1982

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>384</u>
2	<u>413</u>
3	<u>421</u>
4	<u>468</u>
5	<u>494</u>
6	<u>467</u>
7	<u>25</u>
8	<u>290</u>
9	<u>401</u>
10	<u>335</u>
11	<u>173</u>
12	<u>171</u>
13	<u>177</u>
14	<u>179</u>
15	<u>178</u>
16	<u>223</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>202</u>
18	<u>247</u>
19	<u>237</u>
20	<u>245</u>
21	<u>233</u>
22	<u>192</u>
23	<u>227</u>
24	<u>224</u>
25	<u>233</u>
26	<u>135</u>
27	<u>0</u>
28	<u>2</u>
29	<u>175</u>
30	<u>207</u>
31	<u>211</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

REPORT MONTH August 1982DOCKET NO. 050-0331UNIT NAME Duane Arnold Energy Ctr.DATE 9-15-82COMPLETED BY Kimuel HillTELEPHONE 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
13	820807	F	19.3	H	1	N/A	CC	N/A	Drywell and Condenser Bay Inspection
14	820810	F	0.0	H	N/A	N/A	N/A	N/A	Load reduction by load dispatcher
15	820826	F	57.0	D	3	N/A	CA	N/A	Reactor Scram from high level turbine trip

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)

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Exhibit I - Same Source

(9/77)

Docket No. 050-0331
 Unit Duane Arnold Energy Center
 Date 9-15-82
 Completed by Kimuel Hill
 Telephone 319 581-5611

MAJOR SAFETY RELATED MAINTENANCE

Date	System	Component	Description
8/7/82	Primary Containment	Airlock	Local Leak Rate Tested
8/7/82	Reactor Protection System	Main steam isolation valve position switch	Readjusted
8/9/82	Reactor Vessel Recirculation	Instrument isolation valve	Replaced
8/11/82	CRD Hydraulic	Discharge filter	Replaced
8/13/82	River Water Supply	River water makeup isolation valve CV-4915	Adjusted air pressure to operator
8/17/82	RHR Service Water	Pump 1P-22A	Reset impeller
8/20/82	RHR	Insulated piping attached to torus	Pipe wall thickness checked
8/24/82	River Water Supply	MOV-2903	Repacked

REFUELING INFORMATION

1. Name of facility.
A. Duane Arnold Energy Center
2. Scheduled date for next refueling shutdown.
A. 1st quarter, 1983
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. Yes. New MAPLHGR tables will have to be included in Technical Specifications.
5. Scheduled date(s) for submitting proposed licensing action and supporting information.
A. Unknown at this time.
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. New fuel assemblies to be placed in the reactor will be more highly enriched than those currently in use.
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.
A. a) 368 b) 448
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

- 8-1 Normal operation at 384 MWe
- 8-7 Shutdown for Drywell and Condenser Bay inspection for leaks.
No leaks found.
- 8-8 Power increasing to 350 MWe.
- 8-9 During normal operation surveillance testing, reactor core isolation cooling steam line high pressure differential indicating switch tripped out-of-spec.
RO Report 82-51
During normal operation surveillance testing, drywell pressure switch PS-4312C tripped out-of-spec.
RO Report 82-52
- 8-13 During normal operation, train 'A' of the river water supply steam was found to be inoperable when CV-4915 failed to open.
RO Report 82-53
- 8-15 During normal operation surveillance testing RHR service water pump 1P-22A failed to provide rated pressure at rated flow.
RO Report 82-54
- 8-18 During normal operation torus level recorder LR-4384 drifted down and remained at a new lower level.
RO Report Pending
- 8-23 Normal operation at 230 MWe.
- 8-26 Reactor scram on turbine trip from high water level during surveillance testing.
- 8-28 Startup from scram of 8-26.
- 8-31 Normal operation at 210 MWe.