

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

SUBJECT: Monthly operating rept for May 1992 for Duane Arnold Energy
Ctr.W/920615 ltr.

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June 15, 1992

Duane Arnold Energy Center 277327 E. D.A.E.G. Road, Palo Alto, CA 94302-3279 / 819/851-7611

190006

OPERATING DATA REPORT

DOCKET NO. 050-0331
DATE 06-15-92
COMPLETED BY Hai Tran
TELEPHONE (319) 851-7491

OPERATING STATUS

Notes

1. Unit Name: Duane Arnold Energy Center
2. Reporting Period: May 1992
3. Licensed Thermal Power (MWt): 1658
4. Nameplate Rating (Gross MWe): 565 (Turbine)
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: N/A

9. Power Level to Which Restricted, If Any (Net MWe): N/A
10. Reasons for Restrictions, If Any: N/A

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	<u>744.0</u>	<u>3647.0</u>	<u>151919.0</u>
12. Number of Hours Reactor Was Critical	<u>744.0</u>	<u>2268.4</u>	<u>111056.7</u>
13. Reactor Reserve Shutdown Hours	<u>.0</u>	<u>.0</u>	<u>192.8</u>
14. Hours Generator On-Line	<u>744.0</u>	<u>2223.2</u>	<u>108131.3</u>
15. Unit Reserve Shutdown Hours	<u>.0</u>	<u>.0</u>	<u>.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1194357.6</u>	<u>3156847.2</u>	<u>146210443.6</u>
17. Gross Electrical Energy Generated (MWH)	<u>398358.0</u>	<u>1049809.0</u>	<u>49016135.0</u>
18. Net Electrical Energy Generated (MWH)	<u>374993.6</u>	<u>974918.5</u>	<u>45939430.6</u>
19. Unit Service Factor	<u>100.0</u>	<u>61.0</u>	<u>71.2</u>
20. Unit Availability Factor	<u>100.0</u>	<u>61.0</u>	<u>71.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>97.9</u>	<u>51.9</u>	<u>58.4</u>
22. Unit Capacity Factor (Using DER Net)	<u>93.7</u>	<u>49.7</u>	<u>56.2</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>0.0</u>	<u>12.8</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of each: <u>N/A</u>)			
25. If Shutdown at End of Report Period, Est. Date of Startup: <u>N/A</u>			

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

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MONTH May 1992

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1	478
2	512
3	453
4	515
5	510
6	509
7	510
8	500
9	505
10	483
11	490
12	490
13	495
14	506
15	480

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

16	485
17	491
18	517
19	514
20	511
21	511
22	508
23	481
24	511
25	528
26	528
27	527
28	534
29	517
30	524
31	505

REFUELING INFORMATION

DOCKET NO. 50-0331
DATE 06-15-92
COMPLETED BY Hai Tran
TELEPHONE (319) 851-7491

1. Name of facility.
 - a. Duane Arnold Energy Center
2. Scheduled date for next refueling shutdown.
 - a. September, 1993
3. Scheduled date for restart following refueling.
 - a. October, 1993
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

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

N/A
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.

N/A
7. The number of fuel assemblies (a) in the core, (b) in the spent fuel storage pool.
 - a. 368 b. 1152
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 - Licensed Capacity or
 - b. 1898 under the presently installed storage rack capacity.
9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity.
 - a. 2000 - Licensed Capacity or
 - b. 1997 under the presently installed storage rack capacity.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: May 1992

Docket No.: 050-0331

Unit: Duane Arnold Energy Center

Date: 06-15-92

Completed By: Hai Tran

Telephone: (319) 851-7491

No.	Date	Type(1)	Duration (Hours)	Reason(2)	Method of Shutting (3) Down Reactor	Licensee Event Report #	System Code (4)	Comp. Code (5)	Cause
1.	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-Continued
5-Reduced Load
9-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

MAJOR/SAFETY RELATED MAINTENANCE

Docket No.: 050-0331
Unit: Duane Arnold Energy Center
Date: 06-15-92
Completed By: Hai Tran
Telephone: (319) 851-7491

DATE	SYSTEM	COMPONENT	DESCRIPTION
05-05-92	'B' Recirculation Pump Motor - Generator (MG) Set Cooler	Cooling Water Inlet Control Valve	The 'B' recirculation MG set tripped on high lube oil temperature due to the Control Valve not operating properly. The Woodruff key in the valve's stem was found to be sheared. The key and valve operator were replaced. The valve was tested and found to be operating properly.
05-30-92	Local Power Range Monitor (LPRM) System	'D' LPRM Detector	'D' LPRM detector spiked and caused a spurious half scram. The detector was bypassed. After a current/voltage test was completed satisfactorily, the detector was returned to service.
05-31-92	Control Rod Drive (CRD) System	Pressure Switch for 'B' CRD Pump	'B' CRD pump was found tripped. Excessive moisture was found in the pressure switch housing. A new switch, bench calibrated, was installed. The pump was tested and found to be operating satisfactorily.

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

DOCKET NO. 050-0331
DATE 06-15-92
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05-01-92 The plant was operating at 93% of rated thermal power delivering 478 MWe to the grid. One 10 CFR 50.73 reportable event occurred during this reporting period. There were no unplanned Limiting Conditions for Operation (LCOs) associated with the Emergency Core Cooling Systems (ECCSs) or significant reduction in power level event during the month.

05-07-92 On May 7, 1992, during maintenance on an instrument air pipe, its fire barrier penetration was found unsealed. After this discovery, a limited number of additional fire barrier penetration inspections were performed and five additional unsealed penetrations were identified. Upon discovery of unsealed penetrations, appropriate fire watches were initiated. Review of the analysis for the barriers in which the unsealed penetrations are located determined the open penetrations had not been previously evaluated. Therefore the barriers were considered inoperable. The penetrations in question appear to have been open since original plant construction. Improvements have been made to the fire protection program at the Duane Arnold Energy Center since 1990 to help ensure fire penetrations are adequately inspected.

LER 92-007

05-31-92 The plant was operating at 97% of rated thermal power delivering 505 NWe to the grid.