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RECIP.NAME RECIPIENT AFFILIATION

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

Iowa Electric Light & Power Co.

NOTES:

WILSON, D.L.

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## Iowa Electric Light and Power Company June 15, 1992 NG-92-2698

Mr. A. Bert Davis Regional Administrator Region III U. S. Nuclear Regulatory Commission 799 Roosevelt Road Glen Ellyn, IL 60137

Subject:

Duane Arnold Energy Center

Docket No: 50-331 Op. License DPR-49

May 1992 Monthly Operating Report

Dear Mr. Davis:

Please find enclosed the Duane Arnold Energy Center Monthly Operating Report for May 1992. The report has been prepared in accordance with the guidelines of NUREG-0020 and distribution has been made in accordance with DAEC Technical Specifications, Section 6.11.1.c.

David L. Wilson

Plant Superintendent - Nuclear

DLW/HT/eah Enclosures File A-118d

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## 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: <u>Duane Arnold Energy Center</u>	·			
2. Reporting Period: May 1992		÷		
3. Licensed Thermal Power (MWt): 1658			· .	
4. Nameplate Rating (Gross MWe): 565 (Turbi				
5. Design Electrical Rating (Net MWe): 538				,
6. Maximum Dependable Capacity (Gross MWe):	545			
7. Maximum Dependable Capacity (Net MWe): 5				
8. If Changes Occur in Capacity Ratings (Ite	ems Number 3 th	cough 7) Since		
the Last Report, Give Reasons: N/A		049.177.02.100		
9. Power Level to Which Restricted, If Any (N	let MWe): N/A			٠
10. Reasons for Restrictions, If Any: N/A		1 1		
			,	
	This Month	Yr-to-Date	Cumulative	
11. Hours in Reporting Period	744.0	3647.0	<u> 151919.0</u>	
12. Number of Hours Reactor Was Critical	744.0	2268.4	111056.7	
13. Reactor Reserve Shutdown Hours		.0	192.8	
14. Hours Generator On-Line	744.0	2223.2	108131.3	
15. Unit Reserve Shutdown Hours	.0_		0	
16. Gross Thermal Energy Generated (MWH)	1194357.6	3156847.2	146210443.6	
17. Gross Electrical Energy Generated (MWH)	398358.0	1049809.0	49016135.0	
18. Net Electrical Energy Generated (MWH)	374993.6	974918.5	45939430.6	
19. Unit Service Factor	100.0	61.0	71.2	
20. Unit Availability Factor	100.0	61.0	71.2	
21. Unit Capacity Factor (Using MDC Net)	97.9	51.9_	58.4	
22. Unit Capacity Factor (Using DER Net)	93.7	49.7	56.2	
23. Unit Forced Outage Rate	0.0	0.0	12.8	
24. Shutdowns Scheduled Over Next 6 Months ( of each: N/A	Type, Date, and	Duration		
25			•	

(9/77)

## AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-0331

DATE 06-15-92

COMPLETED BY Hai Tran

TELEPHONE (319) 851-7491

MONTH	May 1992			
DAY	AVERAGE DAILY POWER LEVEL		DAY	AVERAGE DAILY POWER LEVEL
	(MWe-Net)			(MWe-Net)
1	478	. *	16	485
2	512		17	491
3	453		. 18	517
4	515		19	514
5	510	•	20	511
6	509		21	511
7	510		22	508
8	500		23	481
9	505		24	511
10	483		. 25	528
11	490		26	528
12	490 .		27	527
13	495		28	534
14	506		29	517
15	480		30	524
			31	505

#### REFUELING INFORMATION

DOCKET NO. DATE COMPLETED BY TELEPHONE

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

N/A

Scheduled date(s) for submitting proposed licensing action and supporting information.

N/A

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

- The number of fuel assemblies (a) in the core, (b) in the spent fuel storage pool,
  - 368 a. b. 1152
- 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. 8.

  - 2050 Licensed Capacity or 1898 under the presently installed storage rack capacity. Ь.
- The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity.

  - 2000 Licensed Capacity or 1997 under the presently installed storage rack capacity. Ь.

## 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 valves 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 spuri 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 COMPLETED BY Hai Tran TELEPHONE (319) 851-7491

- The plant was operating at 93% of rated thermal power delivering 478 MWe to the grid. One 10 CFR 50.73 reporta ble 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.
- 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.