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DAVIS,A	.B. Region 3	(Post	820201	L)			I
SUBJECT	<pre>: Monthly operating Ctr.W/911015 ltr</pre>		for Se	ept 1991 for Duane	Arnold	Energy	D
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	Monthly Operating E				. 0122.		
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Iowa Electric Light and Power Company

October 15, 1991 DAEC-91-0794

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

September Monthly Operating Report

Dear Mr. Davis:

Please find enclosed the Duane Arnold Energy Center Monthly Operating Report for September 1991. 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.

Very truly yours,

David L. Wilson

Plant Superintendent - Nuclear

DLW/HT/pwj+ Enclosures File A-118d

cc.

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NRC Resident Inspector

Mr. Dennis Murdock Central Iowa Power Cooperative Box 2517 Cedar Rapids, IA 52406

Nr. Dale Aherns Corn Belt Power Cooperative 1300 13th Street North Humboldt, IA 50548

Dr. William R. Jacobs, Jr. GDS Associates, Inc. Suite 720 1850 Parkway Place Marietta, GA 30068-8237

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OPERATING DATA REPORT

DOCKET NO. 050-0331
DATE 10-15-91
COMPLETED BY Hai Tran
TELEPHONE (319) 851-7491

OPERATING STATUS		Notes		
1. Unit Name: <u>Duane Arnold Energy Center</u>				.
		·		
2. Reporting Period: <u>September 1991</u> 3. Licensed Thermal Power (MWt): <u>1658</u>				Ì
			• 1	
4. Nameplate Rating (Gross MWe): 565 (Turbine)				.
5. Design Electrical Rating (Net MWe): 538	 .			
6. Maximum Dependable Capacity (Gross MWe):565	<u>.</u>			- 1
7. Maximum Dependable Capacity (Net MWe): <u>538</u>	 			
8. If Changes Occur in Capacity Ratings (Items Nu	mber 3 through	7) Since		
the Last Report, Give Reasons: N/A				<u>: </u>
<u> </u>	· .			
9. Power Level to Which Restricted, If Any (Net M	We): <u>N/A</u>			· ·
10. Reasons for Restrictions, If Any: N/A	· · · · · · · · · · · · · · · · · · ·			·
Thi	s Month Yr	-to-Date (Cumulative	,
	720.0	6551.0	146063.0	
12. Number of Hours Reactor Was Critical	720.0	6068.5	106579.3	
13. Reactor Reserve Shutdown Hours		.0	192.8	
14. Hours Generator On-Line	720.0	5990.9	103699.1	
15. Unit Reserve Shutdown Hours		.0		•
16. Gross Thermal Energy Generated (MWH) 118	<u>32408.0 97.</u>	30346.4 1	39451580.4	
17. Gross Electrical Energy Generated (MWH) 39	92160.0 319	98035.0	46751926.0	•
18. Net Electrical Energy Generated (MWH) 36	<u> </u>	04244.2	43821945.4	
19. Unit Service Factor	100.0	91.5	71.0	-
20. Unit Availability Factor	100.0	91.5	71.0	
21. Unit Capacity Factor (Using MDC Net)	95.3	85.2	57.8	
22. Unit Capacity Factor (Using DER Net)	95.3	85.2	55.8	
23. Unit Forced Outage Rate	0.0	3.6	13.3	
24. Shutdowns Scheduled Over Next 6 Months (Type, of each: <u>Refuel Outage 11, March 1, 1992, 6</u>	Date, and Dur	ation		
25. If Shutdown at End of Report Period, Est. Date	of Startup:	N/A		

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-033I

DATE 10-15-91

COMPLETED BY Hai Tran

TELEPHONE (319) 851-7491

DAILY POWER LEVEL
DWILL LOWER FEAFF
We-Net)
515.0
519.0
521.0
527.0
527.0
524.0
509.0
528.0
521.0
521.0
525.0
527.0
469.0
518.0
506.0
N/A

REFUELING INFORMATION

50-0331 10-15-91 Hai Tra (31° DOCKET NO. DATE COMPLETEO BY TELEPHONE (

- 1. Name of facility.
 - Duane Arnold Energy Center
- 2. Scheduled date for next refueling shutdown.
 - March 1, 1992
- 3. Scheduled date for restart following refueling.
 - May 1, 1992
- Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? 4.

Yes

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

RTS-218: Elimination of scram and Main Steam Isolation Valve (MSIV) isolation on main steam line radiation monitor, submitted on August 30, 1991.

RTS-242: Removal of containment component lists, submitted on September 20, 1991.

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 and (b) in the spent fuel storage pool.
 - 368 1048
- 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.

 - $2050\,$ Licensed Capacity or 1898 under the presently installed storage rack capacity.
- 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.

MAJOR/SAFETY RELATED MAINTENANCE

Docket No.: 050-0331 Unit: Duane Arnold Energy Center Date: 10-15-91 Completed By: Hai Tran Telephone: (319) 851-7491

DATE	SYSTEM	COMPONENT	DESCRIPTION			
09-18-91	Accident Monitoring Instrumentation	Foxboro Instruments	Various dummy equipment was installed in four Foxboro instrument nests to match the Foxboro seismic qualification report test configuration. A radioactive tracer test on the feedwater flow measurement system was conducted to confirm flow measurement accuracy. Preliminary data examination and independent review have indicated the instrumentation is calibrated conservatively.			
09-20-91	Feedwater System	N/A				
y 1.						

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: September 1991

Docket No.: 050-0331

Unit: Duane Arnold Energy Center Date: 10-15-91

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
None			1						
						1.]]] 		
							i ! !		
	<u> </u>	 	. ,	 					

- 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

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

DOCKET NO. 050-0331

DATE 10-15-91

COMPLETED BY Hai Tran

TELEPHONE (319) 851-7491

- 09-01-91 The plant was operating at 98.1% of rated thermal power delivering 505 MWe to the grid. There was one 10 CFR 50.73 reportable event during the month.
- O9-18-91 The plant was operating at approximately 100% power. It was found that four Foxboro nests which house class IE component cards were not configured to meet all of the Foxboro configuration requirements. Upon the discovery, dummy loads, slots, and rubber bumpers were installed in order to match the qualification report test configuration. The corrective action was complete on the day it was discovered. Further review of qualification is continuing.

LER 91-10 (pending)

- 09-20-91 A radioactive tracer test on the feedwater flow measurement system was conducted. The purpose of this test is to provide an independent verification of feedwater flow in order to assure the installed feedwater flow instrumentation is accurate. Preliminary data examination and independent review have indicated the instrumentation is calibrated conservatively.
- 09-30-91 The plant was operating at 97.6% of rated thermal power delivering 506 MWe to the grid.