# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATOR INFORMATION DISTRIBUTION STEM (RIDS)

ACCESSION NBR:8907310391DOC.DATE: 89/06/30NOTARIZED: NODOCKET #FACIL:50-331Duane Arnold Energy Center, Iowa Electric Light & Pow05000331AUTH.NAMEAUTHOR AFFILIATIONMILLER,L.Iowa Electric Light & Power Co.HANNEN,R.L.Iowa Electric Light & Power Co.RECIP.NAMERECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for June 1989 for Duane Arnold Energy Ctr.W/890715 ltr.

DISTRIBUTION CODE: IE24D COPIES RECEIVED:LTR / ENCL / SIZE:\_\_\_\_ TITLE: Monthly Operating Report (per Tech Specs)

NOTES:

	RECIPIENT ID CODE/NAME PD3-3 LA HALL,J.R.	COPI LTTR 3 1	ES ENCL 3 1	RECIPIENT ID CODE/NAME PD3-3 PD	COPI LTTR 1	IES ENCL 1
INTERNAL:	ACRS	10	10	AEOD/DOA	1	
	AEOD/DSP/TPAB	1	1	IRM TECH ADV	2	2
	NRR/DLPO/PEB 10	1	ī	NRR/DOEA/EAB 11	· 1	ī ·
	NRR/DREP/RPB 10	1	1	NUDOCS-ABSTRACT	1	ī
	REG FILE 01	1	1	RGN3	ī	ī
EXTERNAL:	EG&G SIMPSON,F	1	1	LPDR	1	1
	NRC PDR	1	1	NSIC	1	1

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

R

I

D

S

Å

D

D

S

R

I

D

S

D

D

S

TOTAL NUMBER OF COPIES REQUIRED: LTTR 29 ENCL 29

### Iowa Electric Light and Power Company

July 15, 1989 DAEC-89-0529

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 June 1989 Monthly Operating Report

Dear Sirs:

Please find enclosed the Duane Arnold Energy Center Monthly Operating Report for June, 1989. The report has been prepared in accordance with the guidelines of Regulatory Guide 1.16 and distribution has been made in accordance with DAEC Technical Specifications, Section 6.11.1.c.

Very truly\_yours, - 7-14-89 Rick L! Hannen

Plant Superintendent - Nuclear

RLH/LDM/go Enclosures File A-118d

U. S. NRC cc: ATTN: Document Control Desk Washington, D. C. 20555

> Mr. J. R. Hall Project Manager 1 Whiteflint North Mail Stop 13E21 11555 Rockville Pike Rockville, MD 20852

INPO Records Center 1100 Circle 75 Parkway Suite 1500 Atlanta, GA 30339

8907310391 890630

ADOCK 05000331

PDR

Steve Brown Iowa State Utilities Board Lucas State Office Building Des Moines, IA 50319

PNU

Mr. Phillip Ross U.S. NRC Maryland National Bank Building Washington, D.C. 20555 (2)

NRC Resident Inspector

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

Mr. Russ Gamble Corn Belt Power Cooperative 1300 13th Street North Humboldt, IA 50548

## OPERATING DATA REPORT

		DOCKET NO. ( DATE 07 COMPLETED BY LC TELEPHONE (3	950-0331 -15-89 Mnnie Miller 19) 851-7204			
OPERATING STATUS		Notes				
OPERATING STATUS  Notes    1. Unit Name: Duane Arnold Energy Center						
9. Power Level to Which Restricted, If Any (Net MWe): <u>N/A</u> 10. Reasons for Restrictions, If Any: <u>N/A</u> This Month Yr-to-Date Cumulative						
11. Hours in Reporting Period	720.0	4343.0	126335.0			
12. Number of Hours Reactor Was Critical	639.5	3843.9	90792.4			
13. Reactor Reserve Shutdown Hours	0	0	192.8			
14. Hours Generator On-Line	633.6	3566.6	88208.2			
15. Unit Reserve Shutdown Hours	0	0	0			
16. Gross Thermal Energy Generated (MWH)	1009281.6	5234160.0	115273828.6			
17. Gross Electrical Energy Generated (MWH)	340683.0	1771595.0	38703821.0			
18. Net Electrical Energy Generated (MWH)	319733.6	1618102.9	36241388.9			
19. Unit Service Factor	88.0	82.1	69.8			
20. Unit Availability Factor		82.1	70.0_			
21. Unit Capacity Factor (Using MDC Net)	82.5	69.3	53.3			
22. Unit Capacity Factor (Using DER Net)	82.5	69.3_	53.3			
23. Unit Forced Out <b>age</b> Rate	12.0	13.1	14.2			
24. Shutdowns Scheduled Over Next 6 Nonths (1 of each: <u>October, 1989, Planned Mainten</u>	Type, Date, and ance and Testin	d Duration ng	: 			

25. If Shutdown at End of Report Period, Est. Date of Startup: N/A

(9/77)

### AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	050-0331
DATE	07-15-89
COMPLETED BY	Lonnie Miller
TELEPHONE	(319) 851-7204

MONTH	<u>June 1989</u>
DAY	AVERAGE DAILY POWER LEVEL
	(MWe-Net)
1	529
2	527
3	530
4	509
5.	530
6	519
7	528
8	529
9	540
10	523
11 .	495
12	
13	00
14	0
15	371

DAY AVERAGE DAILY POWER LEVEL

(NWe-Net)

16	
17	493
18	505
19	523
20	524
21	522
22	523
23	524
24	528
25	508
26	457
27	472
28	525
29	532
30	531
31	N/A

#### REFUELING INFORMATION

DOCKET NO.	050-0331
DATE	07-15-89
CONPLETED BY	Lonnie Miller
TELEPHONE	(319) 851-7204

#### 1. Name of facility.

Duane Arnold Energy Center а.

- 2. Scheduled date for next refueling shutdown.
  - a. April, 1990
- 3. Scheduled date for restart following refueling.
  - a. July, 1990
- 4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

Cycle 10/11 reload submittal.

- Scheduled date(s) for submitting proposed licensing action and supporting information. 12/31/89
- 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.

We will be getting GE 10 fuel.

7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.

a. 368 b. 944

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

 The projected date of the last refueling thet can be discharged to the spent fuel pool assuming the present licensed capacity.

a. 2000

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: June 1989

.

Docket No.: 050-0331 Unit: Duane Arnold Energy Center Date: 06-15-89 Completed By: Lonnie Miller Telephone: (319) 851-7204

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	6-12-89	F	86.4	H.	3	89-009	N/A	N/A	On 6-12-89 the plant went off
			-						Iline due to a signal being received by the RPS logic. The signal was determined to be due to use of a hand-held radio interfering with components within the RPS.
				:	· ·				
				-					
- F: S:	Forced Scheduled	2 - F 2 - F 1 1 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Reason: A-Equipment B-Maintenand C-Refueling D-Regulatory C-Operator Administra D-Operationa D-Operationa	Failure (Ex ce or Test Restrictio raining & L tive 1 Error (Ex plain)	plain) n icense Examina plain)	13 - 3 -	Method 1-Manual 2-Manual 3-Automa 4-Contin 5-Reduce 9-Other	Scram tic Scra ued Load (Explain	4 - Exhibit G- Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG- 0161) 5 - Exhibit 1- Same Source

(9/77)

### MAJOR/SAFETY RELATED MAINTENANCE

Т

Docket No.: 050-0331 Unit: Duane Arnold Energy Center Date: 07-15-89 Completed By: Lonnie Miller Telephone: (319) 851-7204

DATE	SYSTEM	COMPONENT	DESCRIPTION
06-02-89	Diesel Generator	Cooling Water Jacket	The "B" Diesel Generator was conservatively declared inoperable to fix a small leak on the cooling water jacket. The diesel would have been able to perform its intended function in spite of the leak. The diesel generator was declared operable at 2020 hours after repair work was completed.
06-27-89	"A" Standby Filter Unit	Fan	The fan unit was starting to make "noise" so the "A" SFU was declared inoperable. The unit was declared operable on 7-2-89 at 1347 hours. The cause of the problem was due to a worn bushing. The fan had a new bushing installed.

#### NARRATIVE SUMMARY OF OPERATING EXPERIENCE

DOCKET NO.	050-0331
DATE	07-15-89
COMPLETED BY	Lonnie Miller
TELEPHONE	(319) 851-7204

06-01-89 At the beginning of the month the plant was operating at 99.9% thermal power with 529 MWe-net being supplied by the plant for customers connected to the grid. There was one reportable event during the month.

06-02-89 At 0859 hours the "B" Diesel Generator was conservatively declared inoperable to fix a small leak in its cooling water jacket. The diesel would have been able to perform its intended function in spite of the leak. The diesel generator was declared operable at 2020 hours the same day after repair work was completed.

06-12-89

At 0016:54 hours, while at full power a Reactor Protection System (RPS) actuation and reactor scram occurred. Two ITT Barton Model 764 flow transmitters which help to determine the Average Power Range Monitor upscale setpoint were affected by hand-held radio frequency interference. Primary Containment Isolation System Groups II through V isolated and the Standby Gas Treatment System initiated as expected on low level following void collapse. Some feedwater control problems during recovery resulted in vessel level approaching the low level setpoint thirty-eight minutes after the reactor scram. Due to conservative instrument setpoints, an RPS trip and the aforementioned safety systems were initiated. The root cause of the scram was the unanticipated response of the flow transmitters to hand-held radio frequencies. The transmitters were in a low traffic area where radios are infrequently used. The root cause of the sacond low level event was inadequate preventive maintenance on a feedwater valve position indicator in the Control Room. A loose adjustment spring locknut on a feedwater valve pneumatic positioner also contributed. Corrective actions were to place further restrictions on hand-held radio use, shorten the calibration frequency of the position indicator, and require the use of Loctite when adjusting the pneumatic positioner.

#### LER 89-009

06-26-89

Several temperature switches were not adequately documented for seismic qualification in the installed configuration. The switches have been restored to a qualified configuration. Analysis has been performed to determine the affect of the different configuration on the ability of the instruments to perform their design function during a seismic event. It has been determined that these instruments would have remained operable during a seismic event.

06-27-89 At 0928 hours the "A" Standby Filter Unit (SFU) was declared inoperable when excessive noise from the exhaust fan was detectad during testing. The unit was declared operable on 7-2-89 at 1347 hours after repairs were made.

06-30-89

At the end of the month the plant was operating at 99.8% thermal power with 531 MWe-net being supplied by the plant for customers connected to the grid.