

R  
 B310170405 B30931  
 PDR ADDCK 05000331  
 PDR

STATE OF IOWA  
 DEPARTMENT OF ENVIRONMENTAL QUALITY  
 WATER QUALITY MANAGEMENT DIVISION

## OPERATION PERMIT SYSTEM MONTHLY MONITORING REPORT

AUGUST      1983  
 MONTH              YEAR

FACILITY NAME DUANE ARNOLD ENERGY CENTER

FACILITY NUMBER 5700104

DISCHARGE SERIAL NUMBER 001

DATE	DAY OF WEEK	Dissolved Oxygen (mg/L)		TEMP (MUM)	pH	5-D BOD (mg/L)		SOLUBLE CHLORINE (mg/L)																DATE
		UNITS	UNITS			UNITS	UNITS	UNITS	UNITS															
1			2.17				83.8																	1
2	Tue		4.62			7.4	83.7		2.05															2
3			6.62				83.7																	3
4			2.17				83.4																	4
5			3.41				84.3																	5
6			6.55				84.4																	6
7			2.12				83.7																	7
8			2.58				84.1																	8
9	Wed		3.54			7.2	83.6		5.05															9
10			5.12				83.9																	10
11			3.44				83.5																	11
12			3.91				83.7																	12
13			2.77				81.6																	13
14			3.33				84.1																	14
15			2.56				83.6																	15
16	Thu		2.12			7.5	83.4		5.65															16
17			4.23				82.6																	17
18			2.32				83.3																	18
19			1.72				83.5																	19
20			3.43				82.3																	20
21			2.98				81.1																	21
22			2.18				84.7																	22
23	Fri		3.31			7.7	81.1		5.65															23
24			3.27				81.7																	24
25			2.33				81.3																	25
26			2.73				81.5																	26
27			2.12				83.4																	27
28			2.54				83.4																	28
29			1.56				81.7																	29
30	Sat		3.66			7.6	83.5		5.65															30
31			5.24				83.7																	31
TOTAL			123.71																					
AVERAGE			3.99			7.5	86.4		5.65															
MAXIMUM			6.62			7.7	91.5		5.65															
MINIMUM			1.22			7.2	81.6		5.65															

FORM WQMD IV  
WQ-210 (6/79)

60-23  
 1

RALPH POHIO  
 SIGNATURE OF EXECUTIVE OFFICER OR AGENT  
CHEMIST  
 TITLE

IF HQ FILE COPY

STATE OF IOWA  
 DEPARTMENT OF ENVIRONMENTAL QUALITY  
 WATER QUALITY MANAGEMENT DIVISION

5750184  
 001

OPERATION  
 MONTHLY MONITORING

August  
 MONTH

DATE	DAY OF WEEK	BIODIVERSITY FLOW			TEMP (MM)	pH	RESIDUAL CHLORINE (mg/l or ppm)		UNITS	UNITS	UNIT
		UNITS	UNITS	UNITS	OF		UNITS	UNITS			
1			2.17		83.8						
2	TUES		4.62		83.1	7.4		2.05			
3			6.62		83.7						
4			2.17		83.9						
5			6.44		84.3						
6			6.58		84.4						
7			2.12		83.7						
8			2.54		84.1						
9	TUES		3.54		83.6	7.2		2.05			
10			3.02		83.9						
11			3.44		83.8						
12			3.31		82.7						
13			2.77		81.6						
14			2.89		81.9						
15			2.56		83.0						
16	TUES		2.16		85.4	7.5		2.05			
17			4.88		87.6						
18			2.32		88.3						
19			1.22		88.5						
20			3.93		89.3						
21			2.98		91.1						
22			2.18		90.7						
23	TUES		3.01		91.1	7.7		2.05			
24			2.61		90.7						
25			2.33		91.3						
26			2.98		91.5						
27			2.12		88.4						
28			4.54		88.9						
29			1.50		89.7						
30	TUES		3.66		88.3	7.6		2.05			
31			5.04		86.7						
TOTAL			112.31		—	—					
AVERAGE			3.30		86.4	7.5		2.05			
MAXIMUM			6.62		91.5	7.7		2.05			
MINIMUM			1.22		81.6	7.2		2.05			

DmB

**Iowa Electric Light and Power Company**

October 6, 1983

NG-83-3357

PRINCIPAL STAFF	
RA	ENF
D/RA	SCS
A/RA	PAO
DPRP	SLO
DRMA	RC
DRMSP	
DE	
ML	
OL	FILE

*right*

Mr. James G. Keppler  
 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 No: DPR-49  
 National Pollutant Discharge Elimination System  
 (NPDES) Violation Report

Reference: Letter, L. Root to H. Denton, "License Amendment  
 84 Regarding Water Quality Requirements,"  
 NG-83-1424, April 25, 1983.

Dear Mr. Keppler:

Per our referenced letter, Iowa Electric Light and Power Company agreed to submit to your office all NPDES violations reports. Transmitted herewith, is a copy of the monthly monitoring report for August. This report shows the monthly average temperature of the cooling tower blowdown was 86.4°F; 1.4 degrees higher than the established standard of 85 degrees. The maximum daily limit of 95°F (for summer months) was never exceeded. The violation was due to the prolonged period of unusually high ambient temperatures experienced during the month of August.

Please contact this office if you have any questions pertaining to this matter.

Very truly yours,

Richard W. McGaughy  
 Manager, Nuclear Division

RWM/JDC/dmh\*

Attachment: 1) Monthly monitoring report for August

cc: J. Christensen  
 L. Liu  
 S. Tuthill  
 H. Denton  
 M. Thadani  
 NRC Resident Office  
 Commitment Control No. 83-0069

IE: 25  
||

OCT 11 1983