

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

50-331

FILE NUMBER  
INCIDENT REPORT

TO:  
Mr. James G. Keppler

FROM:  
Iowa Electric Light & Power Co.  
Cedar Rapids, Iowa  
G. G. Hunt

DATE OF DOCUMENT

10/1/76

DATE RECEIVED

10/6/76

LETTER  
 ORIGINAL  
 COPY

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 UNCLASSIFIED

PROP

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DESCRIPTION

Ltr. trans the following:

**ACKNOWLEDGED**  
**DO NOT REMOVE**

(1-P)

PLANT NAME:  
Duane Arnold

ENCLOSURE

Licensee Event Report (RO 50-331/76-55)  
(UPDATE REPORT) on 9/3/76 concerning drywell  
oxygen concentration exceeding 4%.

(1-P)

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED  
SEND DIRECTLY TO KREGER/J. COLLINS

FOR ACTION/INFORMATION 10/7/76

RJL

BRANCH CHIEF: Lear  
W/3 CYS FOR ACTION

LIC. ASST.: Parrish  
W/1 CYS  
ACRS/6 CYS ~~HOLDING~~/SENT TO IA

INTERNAL DISTRIBUTION

REG FILE

NRC PDR

I & E (2)

MIPC

SCHROEDER/IPPOLITO

HOUSTON

NOVAK/CHECK

GRIMES

CASE

BUTLER

HANAUER

TEDESCO/MACCARY

EISENHUT

BAER

SHAO

VOLLMER/BUNCH

KREGER/J. COLLINS

EXTERNAL DISTRIBUTION

LPDR: Cedar Rapids, IO.

TIC:

NSIC:

CONTROL NUMBER

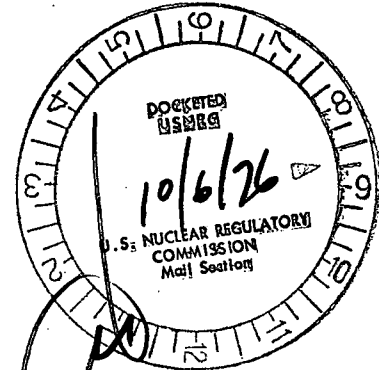
10134

12

# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER  
P. O. Box 351  
Cedar Rapids, Iowa 52406  
October 1, 1976  
DAEC -76-311

Mr. James G. Keppler, Director  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission - Region III  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137



Subject: Licensee Event Report No. 76-55  
(30 day) UPDATE REPORT - PREVIOUS  
REPORT DATE 091676

File: A-118a

Dear Mr. Keppler:

**REGULATORY DOCKET FILE COPY**

In accordance with Appendix A to Operating License DPR-49, Technical Specifications and Bases for Duane Arnold Energy Center and Regulatory Guide 10.1, please find attached a copy of the subject Licensee Event Report. (Total of 3 copies transmitted)

Very truly yours,

G. G. Hunt  
Chief Engineer  
Duane Arnold Energy Center



Docket 50-331

attachment

GGH/DLW/mg

cc: Director, Office of Inspection and Enforcement (30)  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Director, Management Information and Program Control (3)  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

10134

X

# LICENSEE EVENT REPORT

Update Report - Previous:  
Report Date 091676

CONTROL BLOCK: 

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[PLEASE PRINT ALL REQUIRED INFORMATION]

LICENSEE NAME						LICENSE NUMBER						LICENSE TYPE			EVENT TYPE							
01	I	A	D	A	C	0	0	-	0	0	0	0	-	0	0	4	1	1	1	1	0	3
7	8	9			14	15									25	26				30	31	32

CATEGORY		REPORT TYPE	REPORT SOURCE	DOCKET NUMBER				EVENT DATE			REPORT DATE												
01	CONT	L	L	0	5	0	-	0	3	3	1	0	9	0	3	7	6	1	0	0	1	7	6
7	8	57	58	59	60	61		68	69			74	75				80						

**EVENT DESCRIPTION**

02	Drywell oxygen concentration exceeded 4%. The condition was discovered	80
03	at 1200 090376. Nitrogen purge was commenced and concentration was less	80
04	than 4% by 1350 090376. Oxygen concentration exceeded 4% at 1600 092776.	80
05	Engineering has initiated study to determine causes and corrective act	80
06	ion required to stop oxygen in-leakage. Operators have been reinstructe	80

SYSTEM CODE	CAUSE CODE	COMPONENT CODE					PRIME COMPONENT SUPPLIER	COMPONENT MANUFACTURER			VIOLATION				
07	S	E	A	V	E	S	S	E	L	N	C	3	1	0	Y
7	8	9	10	11	12		17	43	44		47			48	

**CAUSE DESCRIPTION**

08	Operator miscalculated oxygen concentration. This is compounded by desi	80
09	gn problem which allows air to leak past the seals on the suction side	80
10	of the compressor used to maintain the drywell-torus DP.	80

FACILITY STATUS	% POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION					
11	E	0	9	2	NA	B	Surveillance Testing		
7	8	9	10	12	13	44	45	46	80

FORM OF ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY	LOCATION OF RELEASE				
12	Z	Z	NA				
7	8	9	10	11	44	45	80

**PERSONNEL EXPOSURES**

NUMBER	TYPE	DESCRIPTION				
13	0	0	0	Z	NA	
7	8	9	11	12	13	80

**PERSONNEL INJURIES**

NUMBER	DESCRIPTION				
14	0	0	0	NA	
7	8	9	11	12	80

**OFFSITE CONSEQUENCES**

15	NA	80
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**LOSS OR DAMAGE TO FACILITY**

TYPE	DESCRIPTION			
16	NA			
7	8	9	10	80

**PUBLICITY**

17	NA	80
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**ADDITIONAL FACTORS**

18	Event Desc. Cont. - d to pay closer attention when determining oxygen con-	80
19	centration and other daily checks. (RO 76-55)	80

NAME: M. Schwartz PHONE: 319-851-5611

*D. Lammam*

# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER  
P. O. Box 351  
Cedar Rapids, Iowa 52406  
October 1, 1976  
DAEC -76-311

Mr. James G. Keppler, Director  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission - Region III  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

**50-331**

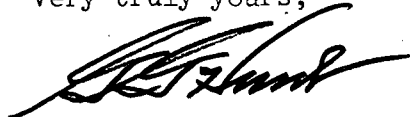
Subject: Licensee Event Report No. 76-55  
(30 day) UPDATE REPORT - PREVIOUS  
REPORT DATE 091676

File: A-118a

Dear Mr. Keppler:

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Very truly yours,



G. G. Hunt  
Chief Engineer  
Duane Arnold Energy Center

Docket 50-331

attachment

GGH/DLW/mg

cc: Director, Office of Inspection and Enforcement (30)  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Director, Management Information and Program Control (3)  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

OCT 7 1976

# LICENSEE EVENT REPORT

Update Report - Previous Report Date 091676

CONTROL BLOCK: 

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[PLEASE PRINT ALL REQUIRED INFORMATION]

LICENSEE NAME <b>01 I A D A C 1</b>														LICENSE NUMBER <b>0 0 - 0 0 0 0 0 0 - 0 0</b>										LICENSE TYPE <b>4 1 1 1 1</b>				EVENT TYPE <b>0 3</b>	
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32				
<b>01</b> CONT		CATEGORY <b> </b>			REPORT TYPE <b>L</b>	REPORT SOURCE <b>L</b>	DOCKET NUMBER <b>0 5 0 - 0 3 3 1</b>				EVENT DATE <b>0 9 0 3 7 6</b>				REPORT DATE <b>1 0 0 1 7 6</b>														
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32				

### EVENT DESCRIPTION

**02** Drywell oxygen concentration exceeded 4%. The condition was discovered  
**03** at 1200 090376. Nitrogen purge was commenced and concentration was less  
**04** than 4% by 1350 090376. Oxygen concentration exceeded 4% at 1600 092776.  
**05** Engineering has initiated study to determine causes and corrective act  
**06** ion required to stop oxygen in-leakage. Operators have been reinstructe

SYSTEM CODE <b>SE</b>		CAUSE CODE <b>A</b>		COMPONENT CODE <b>V E S S E L</b>				PRIME COMPONENT SUPPLIER <b>N</b>	COMPONENT MANUFACTURER <b>C 3 1 0</b>			VIOLATION <b>Y</b>													
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

### CAUSE DESCRIPTION

**08** Operator miscalculated oxygen concentration. This is compounded by desi  
**09** gn problem which allows air to leak past the seals on the suction side  
**10** of the compressor used to maintain the drywell-torus DP.

FACILITY STATUS <b>E</b>		% POWER <b>0 9 2</b>			OTHER STATUS <b>NA</b>				METHOD OF DISCOVERY <b>B</b>		DISCOVERY DESCRIPTION <b>Surveillance Testing</b>														
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
FORM OF ACTIVITY RELEASED <b>Z</b>		CONTENT OF RELEASE <b>Z</b>			AMOUNT OF ACTIVITY <b>NA</b>				LOCATION OF RELEASE <b>NA</b>																
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

### PERSONNEL EXPOSURES

NUMBER <b>0 0 0</b>		TYPE <b>Z</b>	DESCRIPTION <b>NA</b>																						
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

### PERSONNEL INJURIES

NUMBER <b>0 0 0</b>		DESCRIPTION <b>NA</b>																							
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

### OFFSITE CONSEQUENCES

NUMBER <b> </b>		DESCRIPTION <b>NA</b>																							
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

### LOSS OR DAMAGE TO FACILITY

TYPE <b> </b>		DESCRIPTION <b>NA</b>																							
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

### PUBLICITY

NUMBER <b> </b>		DESCRIPTION <b>NA</b>																							
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

### ADDITIONAL FACTORS

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**19** centration and other daily checks. (RO 76-55)

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PHONE: 319-851-5611