

50-331

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

INCIDENT REPORT

TO:

Mr. James P. Keppler

FROM:

Iowa Electric Light & Power Co.
Cedar Rapids, Iowa
Ellery L. Hammond

DATE OF DOCUMENT

2/2/77

DATE RECEIVED

2/4/77

☒ LETTER☐ NOTORIZED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

☐ ORIGINAL☒ UNCLASSIFIED☒ COPY

One signed copy

DESCRIPTION

Ltr. trans the following:

PLANT NAME:

Duane Arnold

(1-P)

ENCLOSURE

Licensee Event Report (RO 50-331/77-3) on
1/7/77 concerning RR4379B being found
downscale on the drywell particulate channel
and RE 8101B and its associated particulate
collector being found to contain condensate..**ACKNOWLEDGED**
Do Not Remove

(1-P)

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

FOR ACTION/INFORMATION 2/7/77

RJL

☒ BRANCH CHIEF: Lear
☒ W/3 CYS FOR ACTION
☒ LIC. ASST.: Parrish
☒ W/ CYS
☒ ACRS 16 CYS HOLDING/SENT: (AT. B. (2/7/77))

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, Iowa
☒ TIC:
☒ NSIC:

CONTROL NUMBER

1254

a/o

NOV 9 . 1967

[illegible][illegible]

Figure 1 consists of two line graphs, (a) and (b), plotting the rate of reaction against temperature. Both graphs have a y-axis labeled 'Rate of reaction' and an x-axis labeled 'Temperature / °C'.

Graph (a) shows a bell-shaped curve. The rate of reaction starts at 0 at 0°C, rises to a peak of 10 at 40°C, and then falls to 0 at 80°C. The data points are approximately: (0, 0), (10, 4), (20, 8), (30, 10), (40, 10), (50, 8), (60, 4), (70, 2), (80, 0).

Graph (b) shows a curve that rises sharply and then levels off. The rate of reaction starts at 0 at 0°C, rises to 4 at 10°C, 8 at 20°C, 12 at 30°C, and then levels off at 12 for temperatures from 40°C to 80°C. The data points are approximately: (0, 0), (10, 4), (20, 8), (30, 12), (40, 12), (50, 12), (60, 12), (70, 12), (80, 12).

71. 72.

1. *Journal of the American Medical Association*, 1997; 277: 1033-1036.

• Prevalence = the proportion of a population that has a disease at a particular point in time

IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER

P. O. Box 351

Cedar Rapids, Iowa 52406

February 2, 1977

DAEC - 77 - 86

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. 77-3
(30 day)

File: A-118a

Dear Mr. Keppler:

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,

Ellery L. Hammond
Chief Engineer
Duane Arnold Energy Center

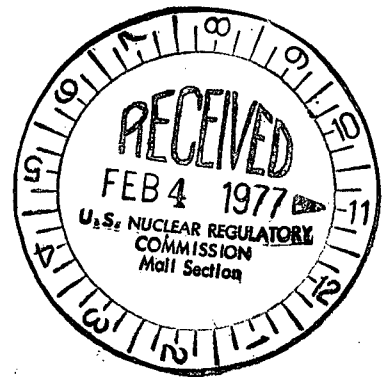
Docket 50-331

attachment

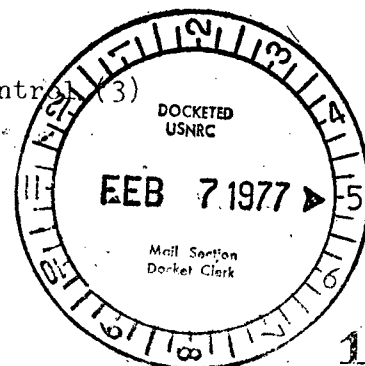
ELH/JVS/mg

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



Regulatory Docket File



1254

LICENSEE EVENT REPORT

CONTROL BLOCK:

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1 6

[PLEASE PRINT ALL REQUIRED INFORMATION]

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

CATEGORY		REPORT TYPE	REPORT SOURCE	DOCKET NUMBER						EVENT DATE					REPORT DATE								
01	CON'T	L	L	0	5	0	-	0	3	3	1	0	1	0	7	7	7	0	2	0	1	7	7
57	58	59	60	61							68	69					74	75					80

EVENT	DESCRIPTION
1	10/10/1964
2	10/10/1964
3	10/10/1964
4	10/10/1964
5	10/10/1964
6	10/10/1964
7	10/10/1964
8	10/10/1964
9	10/10/1964
10	10/10/1964
11	10/10/1964
12	10/10/1964
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91	10/10/1964
92	10/10/1964
93	10/10/1964
94	10/10/1964
95	10/10/1964
96	10/10/1964
97	10/10/1964
98	10/10/1964
99	10/10/1964
100	10/10/1964

02	During normal operation RR 4379B was found downscale on the drywell par	80
03	ticulate channel. RE 8101B and its associated particulate collector	80
04	were found to contain condensate. Repetitive occurrence. The condensate	80
05	was removed from the detector, the particulate filter was replaced a	80
06	nd the detector was made operable. (RO 77-3)	80
PRIME		

SYSTEM CODE		CAUSE CODE		COMPONENT CODE						PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER				VIOLATION	
0	7	C	I	X	X	X	X	X	X	A	N	3	0	5	Y		
7	8	9	10	11	12				17	43	44			47	48		

CAUSE DESCRIPTION

08	Present design allows vapor to collect and condense in the sample lines	80
09	and elements. A design change which should eliminate this problem has	80
10	been developed and will be incorporated during the next refuel outage.	80

FACILITY STATUS		% POWER		OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION	
11	E	0	8	4	NA	B		Routine Check	
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				NA	
7	8	9	10	11	44	45			80

PERSONNEL EXPOSURES

NUMBER				TYPE	DESCRIPTION
1	3	0	0	0	Z NA

PERSONNEL INJURIES

NUMBER			DESCRIPTION
14	0	0	NA

OFFSITE CONSEQUENCES

1	5	NA
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LOSS OR DAMAGE TO FACILITY

TYPE		DESCRIPTION
16	Z	NA

PUBLICITY

17	NA
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ADDITIONAL FACTORS

18 Cause Desc. Cont. - Pending this change the sample lines will be drained
8 9 80
19 at regular intervals to help preclude reoccurrence.
8 9

NAME: J. Van Sickel PHONE: 319-851-5611

E. L. Hammond

IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER
P. O. Box 351
Cedar Rapids, Iowa 52406
February 2, 1977
DAEC - 77 - 86

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. 77-3
(30 day)

File: A-118a

Dear Mr. Keppler:

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Very truly yours,

E. L. Hammond / dh

Ellery L. Hammond
Chief Engineer
Duane Arnold Energy Center

Regulatory Docket File

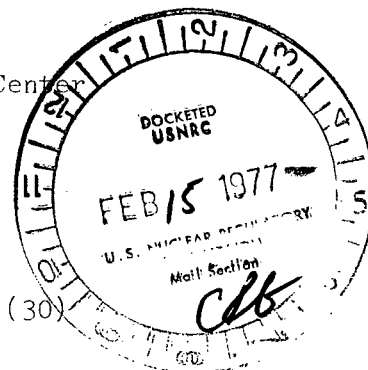
Docket 50-331

attachment

ELH/JVS/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



1598

FEB 4 1977

[PLEASE PRINT ALL REQUIRED INFORMATION]

01		CON'T		CATEGORY		REPORT TYPE		REPORT SOURCE		DOCKET NUMBER								EVENT DATE						REPORT DATE					
7	8	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80				
				L	L	0	5	0	-	0	3	3	1	0	1	0	7	7	7	0	2	0	1	7	7				

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SYSTEM CODE		CAUSE CODE		COMPONENT CODE						PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER				VIOLATION	
07	C I	B		X	X	X	X	X	X	A		N	3	0	5	Y	
7	8	9	10	11	12					17	43					47	48

09 Present design allows vapor to collect and condense in the sample lines
7 6 9
09 and elements. A design change which should eliminate this problem has 80
7 8 9
10 been developed and will be incorporated during the next refuel outage. 80
7 8 9

FACILITY STATUS		% POWER		OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION	
11	E	0	84	NA		B	Routine Check		

FORM OF ACTIVITY RELEASED		CONTENT OF RELEASE		AMOUNT OF ACTIVITY		LOCATION OF RELEASE	
1	2	Z		NA		NA	
7	8	9	10	11	44	45	80

NUMBER			TYPE	DESCRIPTION
13	0	0	0	NA

PERSONNEL INJURIES									
NUMBER			DESCRIPTION						
1	4		0	0	0	NA			

15	NA
89	80

TYPE		DESCRIPTION
16	Z	NA

17 NA 80

18 Cause Desc. Cont. - Pending this change the sample lines will be drained
8 9
19 at regular intervals to help preclude reoccurrence.
8 9

PHONE: 319-851-5611