

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8102120248 DOC. DATE: 81/02/05 NOTARIZED: NO DOCKET #  
 FACIL: 50-331 Duane Arnold Energy Center, Iowa Electric Light & Pow 05000331  
 AUTH. NAME AUTHOR AFFILIATION  
 RAGER, M.S. Iowa Electric Light & Power Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 Region 3, Chicago, Office of the Director

SUBJECT: LER 81-003/03L-0: on 810108, drywell particulate radiation element RE 81018 found inoperable. Caused by sensor failure due to condensation on particulate detector. New radiation element, mylar window & beta phosphor installed.

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	A/D SFTY ASSE12	1	1	ACC EVAL BR 14	1	1
	AE00	3	3	ASLBP/J. HARD	1	1
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	I&E 05	2	2	JORDAN, E./IE	1	1
	LIC GUID BR 30	1	1	MATL ENG BR 32	1	1
	MECH ENG BR 33	1	1	MPA	3	3
	NRC PDR 02	1	1	OP EX EVAL BR34	3	3
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	SFTY PROG EVA42	1	1	STRUCT ENG BR44	1	1
	SYS INTERAC B45	1	1			
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	NSIC 05	1	1	TERA: DOUG MAY	1	1

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Iowa Electric Light and Power Company

February 5, 1981  
DAEC-81-81

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

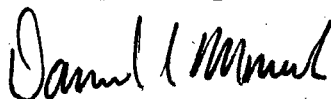
Subject: Licensee Event Report No. 81-003  
(30 day)

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,



Daniel L. Mineck  
Chief Engineer  
Duane Arnold Energy Center

Docket 50-331

attachment

DLM/MSR/pl

cc: Director, Office of Inspection and Enforcement (30)  
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Washington, D. C. 20555

Director, Management Information and Program Control (3)  
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NRC Resident Inspector - DAEC

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FEB 9, 1981

## LICENSEE EVENT REPORT

CONTROL BLOCK: 1

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 I A D A C 1 2 0 0 - 0 0 0 0 0 0 - 0 0 3 4 1 1 1 1 1 1 4 5  
7 8 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 57 CAT 58

CON'T

01 REPORT SOURCE L 6 0 5 0 0 0 3 3 1 7 0 1 0 8 8 1 3 0 2 0 5 8 1 9  
7 8 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

## EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

02 During normal power operation, the "B" Drywell Particulate Radiation Ele  
03 ment, RE 8101B, was unresponsive to a source check. Redundant element, R  
04 E 8101A, had previously been declared inop. This placed the plant in a 7  
05 day LCO in accordance with Tech Spec 3.6.C.2 which requires both the sum  
06 p and air sampling systems be operable during reactor power operation.  
07 Moisture on the radiation element and particulate detector is a recurrin  
08 g problem. See RO 77-03, 77-04, 78-09, 80-038, and 81-001.  
7 8 9

09 SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE  
7 8 9 10 11 12 13 14 15 16  
C I 11 E 12 E 13 I N S T R U 14 E 15 Z 16  
17 LER/RO REPORT NUMBER EVENT YEAR SEQUENTIAL REPORT NO. OCCURRENCE CODE REPORT TYPE REVISION NO.  
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  
8 1 0 0 3 0 3 L 0  
ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NRC-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER  
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 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
A 18 E 19 7 20 7 21 0 0 0 0 0 N 23 N 24 A 25 N 3 0 5 25

## CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

10 Condensate which had collected on RE 8101B and its particulate detector  
11 caused sensor failure. A new radiation element, mylar window, and beta p  
12 hosphor were installed to return the detector to operation. RE 8101B was  
13 source checked-sat prior to return to service. RE 8101B is an NMC model  
14 RAK-22IF radiation element. Design review has been initiated.  
7 8 9

15 FACILITY STATUS % POWER OTHER STATUS 30 METHOD OF DISCOVERY DISCOVERY DESCRIPTION 32  
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 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
E 28 0 9 9 29 NA A 31 Operator Observation  
16 ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY 35 LOCATION OF RELEASE 36  
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 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
7 33 7 34 NA NA  
17 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION 39  
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 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
0 0 0 37 Z 38 NA  
18 PERSONNEL INJURIES NUMBER DESCRIPTION 41  
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 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
0 0 0 40 NA  
19 LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION 43  
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 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
Z 42 NA  
20 PUBLICITY ISSUED DESCRIPTION 45  
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 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
N 44 NA

NAME OF PREPARER Matthew S. Rager

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