

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8009170320 DOC. DATE: 80/09/10 NOT INDEXED: NO DOCKET #  
 FACIL: 50-331 Duane Arnold Energy Center, Iowa Electric Light & Pow 05000331  
 AUTH. NAME AUTHOR AFFILIATION  
 RAGER, M. Iowa Electric Light & Power Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 Region 3, Chicago, Office of the Director

SUBJECT: LER 80-039/03L-0: on 800820, during surveillance test, high differential pressure switch PDIS 2139 tripped at 2.75 psid contrary to Tech Specs. Caused by instrument drift. Switch calibr, tested & returned to svc.

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 TITLE: Incident Reports

NOTES:

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	A/D PLANT SYS10	1	1	A/D RAD PROT 11	1	1
	A/D SFTY ASSE12	1	1	A/D TECHNOLOG13	1	1
	ACC EVAL BR 14	1	1	AEOD	2	2
	ASLBP/J.HARD	1	1	AUX SYS BR 15	1	1
	CHEM ENG BR 16	1	1	CONT SYS BR 17	1	1
	CORE PERF BR 18	1	1	D/DIR, HUM FAC19	1	1
	DIR, ENGINEER120	1	1	DIR, HUM FAC S21	1	1
	DIR, SYS INTEG22	1	1	EFF TR SYS BR23	1	1
	EMERG PREP 24	1	1	EQUIP QUAL BR25	1	1
	GEOSCIENCES 26	1	1	HUM FACT ENG 27	1	1
	HYD/GEO BR 28	1	1	I&C SYS BR 29	1	1
	I&E 05	2	2	JORDAN, E./IE	1	1
	LIC GUID BR 30	1	1	LIC QUAL BR 31	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	OR ASSESS BR 35	1	1
	POWER SYS BR 36	1	1	PROC/TST REV 37	1	1
	QA BR 38	1	1	RAD ASSESS BR39	1	1
	REACT SYS BR 40	1	1	<del>REG FILE</del> 01	1	1
	REL & RISK A 41	1	1	SFTY PROG EVA42	1	1
	SIT ANAL BR 43	1	1	STRUCT ENG BR44	1	1
	SYS INTERAC B45	1	1			
EXTERNAL:	ACRS 46	16	16	LPDR 03	1	1
	NSIC 05	1	1	TERA: DOUG MAY	1	1

SEP 18 1980

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*As/E*  
*4*  
*60*

LICENSEE EVENT REPORT

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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
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01	L	0	15	0	10	0	3	3	1	7	0	8	2	0	8	0	3	0	19	1	0	8	0	9
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
CON'T		REPORT SOURCE		DOCKET NUMBER										EVENT DATE				REPORT DATE						

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 During surveillance testing, "B" Core Spray System Header to top of  
 03 core plate high differential pressure switch PDIS 2139 tripped at 2.75  
 04 PSID. Technical Specification Table 3.2-B requires a setpoint of 2.46 +1  
 05 - 0.25 PSID (0.74 PSID plus head and temperature correction). This switch  
 06 provides an alarm function only. Redundant core spray system pressure di  
 07 fferential instrumentation was tested with satisfactory results. See als  
 08 to RO 80-35, RO 80-08, RO 76-11 and AO 75-39.

09	S	I	F	11	E	12	E	13	I	N	S	T	R	I	U	14	S	15	Z	16					
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
SYSTEM CODE			CAUSE CODE			CAUSE SUBCODE			COMPONENT CODE					COMP. SUBCODE		VALVE SUBCODE									
17	8	0	0	3	9	0	3	L	0																
LER/RO REPORT NUMBER		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.															
18	Z	19	Z	20	0	0	0	0	N	23	N	24	A	25	B	10	8	10	25						
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRO-4 FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER									

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 Instrument drift. PDIS 2139 was promptly recalibrated and functionally t  
 11 ested. PDIS 2139 is a ITT Barton model 288A Diff. Pressure Switch. The i  
 12 nstrument is presently being trended. The adequacy of this instrument ap  
 13 plication and other Barton instruments used at this facility is the subj  
 14 ect of a continuing design review. No add. corr. act. presently planned.

15	F	28	0	9	7	29	NA	30	B	31	Surveillance Test	32		
7	8	9	10	11	12	13	14	15	16	17	18	19		
FACILITY STATUS			% POWER			OTHER STATUS			METHOD OF DISCOVERY				DISCOVERY DESCRIPTION	
16	Z	33	Z	34	NA	35	NA	36						
ACTIVITY CONTENT			RELEASED OF RELEASE			AMOUNT OF ACTIVITY			LOCATION OF RELEASE					
17	0	0	0	37	Z	38	NA	39						
PERSONNEL EXPOSURES			PERSONNEL INJURIES			LOSS OF OR DAMAGE TO FACILITY			PUBLICITY ISSUED					
18	0	0	0	40	NA	41	NA	42	Z	43	NA	44	NA	45
NUMBER			TYPE			DESCRIPTION			NRC USE ONLY					
NUMBER			DESCRIPTION			TYPE			DESCRIPTION					

LICENSEE EVENT REPORT

CONTROL BLOCK: \_\_\_\_\_ (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | I | A | D | A | C | 1 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 1 | 4 | 5

7 8 9 14 15 25 26 30 31 32 33 34 35 36 37 38 39 40

LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT 58

CONT

0 1 | L | 6 | 0 | 1 | 5 | 0 | 0 | 0 | 3 | 3 | 1 | 7 | 0 | 8 | 2 | 0 | 8 | 0 | 3 | 0 | 1 | 9 | 1 | 0 | 8 | 0 | 9

7 8 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

REPORT SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | During surveillance testing, "B" Core Spray System Header to top of

0 3 | core plate high differential pressure switch PDIS 2139 tripped at 2.75

0 4 | PSID. Technical Specification Table 3.2-B requires a setpoint of 2.46 +1

0 5 | - 0.25 PSID (0.74 PSID plus head and temperature correction). This switch

0 6 | provides an alarm function only. Redundant core spray system pressure di

0 7 | fferential instrumentation was tested with satisfactory results. See als

0 8 | o RO 80-35, RO 80-08, RO 76-11 and AO 75-39

7 8 9 30

0 9 | S | I | F | 11 | E | 12 | E | 13 | I | N | S | T | R | U | 14 | S | 15 | Z | 16

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

SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE

17 | L | E | R | 18 | Z | 19 | Z | 20 | Z | 21 | 0 | 0 | 0 | 0 | 22 | N | 23 | N | 24 | A | 25 | B | 10 | 18 | 10 | 25

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

LER/RO REPORT NUMBER EVENT YEAR SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NPRO-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | Instrument drift. PDIS 2139 was promptly recalibrated and functionally t

1 1 | tested. PDIS 2139 is a IIT Barton model 288A Diff. Pressure Switch. The i

1 2 | nstrument is presently being trended. The adequacy of this instrument ap

1 3 | plication and other Barton instruments used at this facility is the subj

1 4 | ect of a continuing design review. No add corr. act. presently planned.

7 8 9 30

1 5 | F | 28 | 0 | 9 | 7 | 29 | NA | B | 31 | Surveillance Test

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

FACILITY STATUS POWER OTHER STATUS METHOD OF DISCOVERY DISCOVERY DESCRIPTION

1 6 | Z | 33 | Z | 34 | NA | NA

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

ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY LOCATION OF RELEASE

1 7 | 0 | 0 | 0 | 37 | Z | 38 | NA

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

PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION

1 8 | 0 | 0 | 0 | 40 | NA

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

PERSONNEL INJURIES NUMBER DESCRIPTION

1 9 | Z | 42 | NA

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

LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION

2 0 | N | 44 | NA

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

PUBLICITY ISSUED DESCRIPTION

NAME OF PREPARER Matthew Rager PHONE: 319-851-5611

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