NRC FORM 195 (2-76)

U.S. NUCLEAR REGULATORY COMMISSION

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

DOCKET NUMBER	50 - 331
FILE NUMBER	INCIDENT REPORT
DATE OF DOCUMENT	12/22/77
DATE RECEIVED	1/4/78
NUMBER OF COPIES RECEIVED	1 SIGNED

TO: Mr. James G. Keppler

FROM: Iowa Elec. Light & Power Co.
Cedar Rapids, Iowa
Ellery L. Hammond

☒ LETTER ☒ ORIGINAL ☐ COPY

☐ NOTORIZED ☒ UNCLASSIFIED

PROP

INPUT FORM

DESCRIPTION

ENCLOSURE

Licensee Event Report (RO 50-331/77-93) on 12/12/77 concerning the RCIC system steam supply line high flow pressure differential indicating switches being found with their setpoints out of calibration.....

PLANT NAME: Duane Arnold (1-P)
RJL 1/4/78

(1-P)+(1-P)

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

FOR ACTION/INFORMATION

BRANCH CHIEF: (4) LEAR
~~W/ 3 CYS FOR ACTION~~
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CONTROL NUMBER

780040152

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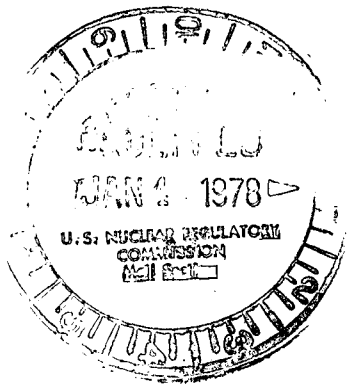
NRC FORM 196 (2-76)

D-Lanham

IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER
P. O. Box 351
Cedar Rapids, Iowa 52406

December 22, 1977
DAEC -77 - 650



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. 77-93
(14 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

Ellery L. Hammond
Chief Engineer
Duane Arnold Energy Center

Docket 50-331

attachment

ELH/JVS/mg

cc: Director, Office of Inspection and Enforcement (40)
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

DEC 27 1977

NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK: (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

Line	Field	Value
01	LICENSEE CODE (2)	IADAC1
01	LICENSE NUMBER (3)	00-00000-00
01	LICENSE TYPE (4)	41111
01	CAT (5)	
01 CON'T	REPORT SOURCE (6)	L
01	DOCKET NUMBER (7)	0500033 1
01	EVENT DATE (8)	121277
01	REPORT DATE (9)	12 77

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 During Surveillance Testing, RCIC steam line high flow trip settings foun
03 d out of specification. PDIS 2441 tripped at 119.5 inches of water and PD
04 IS 2242 tripped at 127 inches of water. Required setpoint 110+/-5 inches
05 of water. Reference TS Table 3.2-B. Repetitive occurrence. See LER 77-052
06 Redundant ECCS operable.
07
08

Line	SYSTEM CODE (11)	CAUSE CODE (12)	CAUSE SUBCODE (13)	COMPONENT CODE (14)	COMP. SUBCODE (15)	VALVE SUBCODE (16)
09	CE	E	B	INSTRU	S	Z

LER/RO REPORT NUMBER (17)	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	77	—	093	/	01	T	—	0

ACTION TAKEN (18)	FUTURE ACTION (19)	EFFECT ON PLANT (20)	SHUTDOWN METHOD (21)	HOURS (22)	ATTACHMENT SUBMITTED (23)	NPRD-4 FORM SUB. (24)	PRIME COMP. SUPPLIER (25)	COMPONENT MANUFACTURER (26)
E	X	Z	Z	0000	Y	N	N	B080

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 Instrument drift. Barton Model 288 pressure differential indicating switc
11 hes. Switches were recalibrated and functionally tested. Additional corre
12 ctive action may be initiated depending on results of next scheduled sur
13 veillance test. Engineering design review will be initiated.
14

Line	FACILITY STATUS (28)	% POWER (29)	OTHER STATUS (30)	METHOD OF DISCOVERY (31)	DISCOVERY DESCRIPTION (32)
15	E	094	NA	B	Surveillance Test

Line	ACTIVITY RELEASED (33)	CONTENT OF RELEASE (34)	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
16	Z	Z	NA	NA

Line	PERSONNEL EXPOSURES NUMBER (37)	TYPE (38)	DESCRIPTION (39)
17	000	Z	NA

Line	PERSONNEL INJURIES NUMBER (40)	DESCRIPTION (41)
18	000	NA

Line	LOSS OF OR DAMAGE TO FACILITY (43) TYPE (42)	DESCRIPTION
19	Z	NA

Line	PUBLICITY ISSUED (44)	DESCRIPTION (45)
20	N	NA

NRC USE ONLY

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

GPO 917-926

DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data

Docket Number 50-331

Licensee Event Report Date: 121277

Reportable Occurrence No: 77-93

Description of Event

During Surveillance testing on December 12 and 13, 1977 the RCIC system steam supply line high flow pressure differential indicating switches were found with their setpoints out of calibration. PDIS 2441 tripped at 119.5 inches H_2O and PDIS 2442 tripped at 127 inches H_2O. The required setpoint is 110 $\pm$ 5 inches H_2O listed in Technical Specification table 3.2-B. Redundant emergency core cooling systems were operable.

Cause of Occurrence

The cause of the occurrence is instrument drift. The out of calibration setpoint problem is repetitive. (See RO 77-052) An analysis of trend data indicates that the as-found setpoints are erratic and alternate above and below the required setpoint. The specific cause of the instrument drift is unknown at this time.

Corrective Action

Both instruments were recalibrated and functionally tested. Additional corrective action may be initiated depending on the results of the next scheduled monthly surveillance test. In addition, a design review will be initiated to determine the cause of the problem and verify proper design application.