

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL  
(TEMPORARY FORM)

CONTROL NO: 1057

FILE: INCIDENT REPORT

FROM: Iowa Electric Light & Power Co. Cedar Rapids, Iowa G.G. Hunt		DATE OF DOC 1-20-75	DATE REC'D 1-30-75	LTR xxx	TWX	RPT	OTHER
TO: Mr. James G. Keppler		ORIG 1-signed	CC	OTHER	SENT AEC PDR <u>xxxx</u> SENT LOCAL PDR <u>xxxx</u>		
CLASS	UNCLASS xxx	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-331		

DESCRIPTION:

Ltr trans the following:

*ASIAN...  
DO NOT...*

ENCLOSURES:

Abnormal Occurrence #75-2 on 1-17-75 concerning out-of - specification reactor low pressure switches.....

PLANT NAME: Duane Arnold #1

FOR ACTION/INFORMATION 1-31-75 JGB

BUTLER (S) W/ Copies	SCHWENCER (S) W/ Copies	ZIEMANN (S) W/ Copies	REGAN (E) W/ Copies
CLARK (S) W/ Copies	STOLZ (S) W/ Copies	DICKER (E) W/ Copies	LEAR (S) W/4 Copies
PARR (S) W/ Copies	VASSALLO (S) W/ Copies	KNIGHTON (E) W/ Copies	SPEIS (S) W/ Copies
KNIEL (S) W/ Copies	PURPLE (S) W/ Copies	YOUNGBLOOD (E) W/ Copies	

INTERNAL DISTRIBUTION

<u>REG FILE</u> AEC PDR OGC, ROOM P-506-A MUNIZING/STAFF CASE GIAMBUSSO BOYD MOORE (S) (BWR) DEYOUNG (S) (PWR) SKOVHOLT (S) GOLLER (S) P. COLLINS DENISE REG OPR FILE & REGION T.R. WILSON	<u>TECH REVIEW</u> SCHROEDER MACCARRY KNIGHT PAWLICKI SHAO STELLO HOUSTON NOVAK ROSS IPPOLITO TEDESCO LONG LAINAS BENAROYA STEELE VOLIMER	<u>DENTON</u> GRIMES GAMMILL KASTNER BALLARD SPANGLER  <u>ENVIRO</u> MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR HARLESS	<u>LIC. ASST.</u> DIGGS (S) GEARIN (S) GOULBOURNE (S) KREUTZER (E) LEE (S) MAIGRET (S) REED (E) SERVICE (S) SHEPPARD (S) SLATER (E) SMITH (S) TEETS (S) WILLIAMS (E) WILSON (S) INGRAM (S)	<u>A/T IND</u> BRAITMAN SALTZMAN B. HURT  <u>PLANS</u> MCDONALD CHAPMAN DUBE w/input E. COUPE R. Hartfield (2) KLECKER F. WILLIAMS
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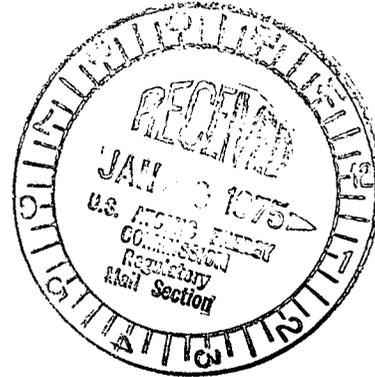
EXTERNAL DISTRIBUTION

1-LOCAL PDR Cedar Rapids, Iowa	(1)(2)(10)-NATIONAL LABS	1-PDR SAN/TA/ NY
1-TIC (ABERNATHY)	1-M. PENNINGTON, RM E-201 G.T.	1-BROOKHAVEN NAT LAB
1-NSIC (BUCHANAN)	1-CONSULTANTS	1-G. ULRIKSON, ORNL
1-ASLB	NEWMARK/BLUME/AGBABIAN	1-AGMED (RUTH GUSSMAN) RM B-127 G.T.
1-NEWTON ANDERSON		1-J. RUNKLES, RM E-201 G.T.
5-ACRS SENT TO LIC. ASST. <b>TEETS</b>		

# IOWA ELECTRIC LIGHT AND POWER COMPANY

*General Office*

CEDAR RAPIDS, IOWA  
DUANE ARNOLD ENERGY CENTER  
PALO, IOWA  
JANUARY 24, 1975  
DAEC - 75 - 25



Mr. James G. Keppler, Director  
Regulatory Operations Regional Office  
U. S. Atomic Energy Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

SUBJECT: Abnormal Occurrence No. DPR 50-331/75-2  
FILE: A-118a  
A-110

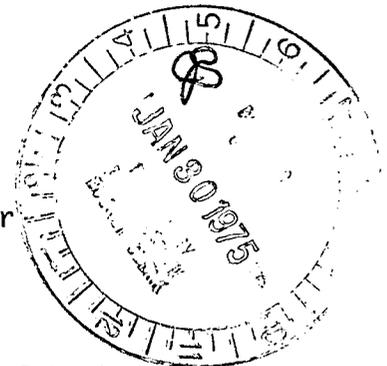
Dear Mr. Keppler:

In accordance with Appendix A to Operating License DPR-49, Technical Specifications and Bases for Duane Arnold Energy Center, please find enclosed a written report on the subject abnormal occurrence.

Mr. C. D. Feierabend, of your office, was notified of the occurrence at 1400 hours on January 17, 1975.

Very truly yours,

G. G. Hunt  
Chief Engineer  
Duane Arnold Energy Center



OCS:GGH:bh  
Enclosure

CC: E. G. Case  
C. W. Sandford  
J. A. Wallace  
E. L. Hammond  
B. R. York  
R. R. Rinderman  
L. D. Root

H. W. Rehrauer-Chairman, Safety Committee  
G. A. Cook  
D. L. Wilson  
J. V. Vinqvist  
J. R. Newman  
B. L. Hopkins

1057

# IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA

Subject: Abnormal Occurrence  
Report Number: A.O. 50-331/75-2  
Report Date: January 23, 1975  
Occurrence Date: January 17, 1975  
Facility: Duane Arnold Energy Center, Unit #1, Palo, Iowa

## Identification of Occurrence

Out-of-specification reactor low pressure switches, reportable in accordance with Appendix A, Operating License DPR-49, Specification 1.0.4.b.

## Description of Occurrence

During the performance of Surveillance Test Procedure No. 42B008 - Reactor Low Pressure (RHR) Instrument Functional Test/Calibration, it was determined that the trip points for two pressure switches were out-of-specification. The respective pressure switches and the "as found" trip points are as follows:

<u>PS</u>	<u>Trip Level Setting (as found)</u>
4555	899 psig
4557	900 psig

Table 3.2-B of the Technical Specifications gives the correct trip level setting as  $914.2 \text{ psig} \pm 12 \text{ psig}$  (900 psig set point + 14.2 psig head correction  $\pm 12 \text{ psig}$  instrument design tolerance).

## Designation of Apparent Cause of Occurrence

The apparent cause of the occurrence was instrument drift.

## Analysis of Occurrence

The action of Trip System A would have been delayed because instrument channels A1 (PS 4555) and A2 (PS 4557) were both out-of-calibration. Upon receipt of the LPCI loop selection signal, the logic determines whether or not the recirculation pumps are running. If the logic senses

that one pump is running and one pump is not running, the operating pump is shut down. If a single-pump stoppage is initiated, there is next a requirement that reactor vessel pressure drop to 900 psig (914.2 with head correction) as determined by reactor vessel pressure switches arranged in a one-out-of-two-twice logic before the loop selection logic will continue. The out-of-calibration condition would have delayed actuation of the loop selection logic until reactor vessel pressure dropped to 900 psig. This would not have created an unsafe plant condition due to the availability of other ECCS equipment.

#### Corrective Action

The subject pressure switches were immediately recalibrated and tested. Previous surveillance tests on these switches indicated no trend towards an out-of-calibration condition.

#### Conclusion

The DAEC Operations Committee reviewed and approved this report on January 23, 1975. The Committee concluded that the occurrence did not present a hazard to the health and safety of the public.



G. G. Hunt  
Chief Engineer  
Duane Arnold Energy Center

OCS:GGH:bh