

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 9426

FILE: _____

FROM: Iowa Electric & Power Co. Cedar Rapids, Iowa G. G. Hunt			DATE OF DOC 11-21-74	DATE REC'D 11-29-74	LTR xxx	TWX	RPT	OTHER
TO: Mr. James G. Keppler			ORIG 1-signed	CC	OTHER	SENT AEC PDR <u>xxxxxxx</u> SENT LOCAL PDR <u>xxxxxxx</u>		
CLASS	UNCLASS xxxxxxx	PROP INFO	INPUT	NO CYS REC'D 1		DOCKET NO: 50-331		

DESCRIPTION:

Ltr Trans the Following;

ACKNOWLEDGED
DO NOT REMOVE

PLANT NAME: Duane Arnold Unit 1

ENCLOSURES:

74-48

Abnormal Occurrence on 11-12-74 concerning
Pressure differential indicating switch settings
.....

FOR ACTION/INFORMATION 11-30-74 JGB

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

INTERNAL DISTRIBUTION

<u>REG FILE</u> AEC PDR EGC, ROOM P-506A MUNTZING/STAFF CASE GIAMBUSSO BOYD MOORE (L) (BWR) DEYOUNG (L) (PWR) SKOVHOLT (L) GOLLER (L) P. COLLINS DENISE REG OPR FILE & REGION (3) MORRIS STEELE	<u>TECH REVIEW</u> SCHROEDER MACCARY NIGHT AWLICKI SHAO STELLO HOUSTON OVAK ROSS IPPOLITO TEDESCO LONG LAINAS BENAROYA VOLIMER	<u>DENTON</u> GRIMES GAMMILL KASTNER BALLARD SPANGLER <u>ENVIRO</u> MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR <u>HARLESS</u>	<u>LIC ASST</u> DIGGS (L) GEARIN (L) GOULBOURNE (L) KREUTZER (E) LEE (L) MAIGRET (L) REED (E) SERVICE (L) SHEPPARD (L) SLATER (E) SMITH (L) TEETS (L) WILLIAMS (E) WILSON (L)	<u>A/T IND</u> BRAITMAN SALTZMAN B. HURT <u>PLANS</u> MCDONALD CHAPMAN DUBE w/ input E. COUPE THOMPSON (2) LECKER EISENHUT
---	---	---	---	---

EXTERNAL DISTRIBUTION

LOCAL PDR Cedar Rapids, Iowa	1 - PDR SAN/LA/NY
TIC (ABERNATHY) (1)(2)(10)	1 - BROOKHAVEN NAT LAB
NSIC (BUCHANAN)	1 - G. ULRIKSON, ORNL
1 - ASLB	1 - AGMED (RUTH GUSSMAN) Rm B-127 GT
1 - Newton Anderson	1 - R. D. MUELLER, Rm E-201 GT
ACRS XXXXXXXXXX	
Sent to Lic Asst. <u>TEB/LS</u>	
1 - NATIONAL LABS	
1 - ASLBP (E/W Bldg, Rm 529)	
1 - W. PENNINGTON, Rm E-201 GT	
1 - B&M SWINEBROAD, Rm E-201 GT	
1 - CONSULTANTS	
NEWARK BLUME/AGBABIAN	

Regulatory

File Cy.

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA
DUANE ARNOLD ENERGY CENTER
PALO, IOWA
NOVEMBER 21, 1974
DAEC - 74 - 401



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 50-331/74-48
FILE: A-118a
A-110

Dear Mr. Keppler:

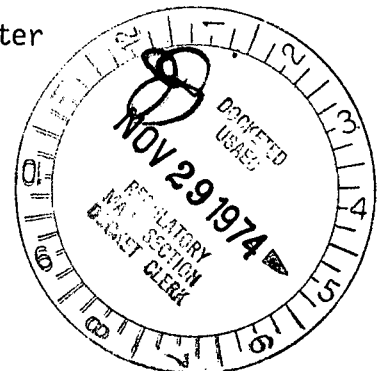
In accordance with Appendix A to Operating License DPR-49,
Technical Specifications and Bases for Duane Arnold Energy Center,
please find enclosed a written report on the subject abnormal
occurrence.

Very truly yours,

G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

DLW:GGH:bh
Enclosure

CC: E. G. Case	D. L. Wilson
C. W. Sandford	J. R. Newman
J. A. Wallace	B. L. Hopkins
E. L. Hammond	
B. R. York	
R. R. Rinderman	
L. D. Root	
H. W. Rehrauer-Chairman, Safety Committee	
G. A. Cook	



NOV 28 1974

9426

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA

Subject: Abnormal Occurrence
Report Number: AO 50-331/74-48
Report Date: November 21, 1974
Occurrence Date: November 12, 1974
Facility: Duane Arnold Energy Center, Unit #1, Palo, Iowa

Identification of Occurrence

Pressure differential indicating switch settings (LPCI loop selection logic), reportable in accordance with Appendix A, Operating License DPR-49, Specifications 1.0.4.b and Table 3.2-B.

Description of Occurrence

During the performance of Surveillance Test Procedure No. 42B017 - RHR A > B dp Across Riser Instrument Functional Test/Calibration (LPCI Loop Selection Logic), it was determined that Instrument Channels A, B and D were out-of-calibration with the following trip settings:

Channel A (PDIS 4641)	+ 1.55 psid
Channel B (PDIS 4642)	- 0.55 psid
Channel D (PDIS 4644)	Found in tripped condition.*

*Personnel performing the surveillance test did not determine the actual trip point during the test.

Designation of Apparent Cause of Occurrence

The apparent cause of the out-of-calibration condition was continuous cycling of the pressure differential indicating switch. During normal reactor power operations, the differential pressure between the recirculation loops is continuously varying due to normal fluctuations in recirculation pump flows. The design of the pressure differential indicating switches apparently is not consistent with a continuous duty requirement.

A review of previous surveillance testing on the switches confirms a trend towards an out-of-calibration condition.

11/12/74

Analysis of Occurrence

It has been determined that the occurrence did not present an unsafe plant condition. This conclusion is based on an analysis presented in Section 6.4 of Amendment 9 to the Duane Arnold Energy Center FSAR, dated November 1972.

Corrective Action

The subject pressure differential indicating switches were recalibrated and functionally tested.

A review is in progress to determine if a design change can be made to minimize the affect of repeated cycling of the pressure differential indicating switches. The results of the design review will be submitted in a supplementary report.

Pending completion of the design review and implementation of the resultant design change, if any, the frequency for performance of Surveillance Test No. 42B017 will be increased to bi-weekly.

Conclusion

The contents of this report including corrective actions were reviewed and approved by the DAEC Operations Committee on November 20, 1974. The Committee concluded that the health and safety of the public and plant personnel was not impaired.



G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

DLW:GGH:bh