

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 12682

FILE: _____

FROM: Iowa Electric & Power Co. Cedar Rapids, Iowa E.L. Hammond		DATE OF DOC 12-10-74	DATE REC'D 12-16-74	LTR xxx	TWX	RPT	OTHER
TO: Mr. James G. Keppler		ORIG 1-signed	CC	OTHER	SENT AEC PDR <u>xxxxxx</u> SENT LOCAL PDR <u>xxxxxx</u>		
CLASS	UNCLASS xxxxxxx	PROP INFO	INPUT	NO CYS REC'D	DOCKET NO: 50-331		
DESCRIPTION: Ltr Trans the Following: ACKNOWLEDGED DO NOT REMOVE PLANT NAME: Duane Arnold #1				ENCLOSURES: Abnormal Occurrence #74-51 on 11-30-74 concerning Inoperable pressure differential indicating switch.....			

FOR ACTION/INFORMATION

12-18-74 JGB

BUTLER (L) W/ Copies	<input checked="" type="checkbox"/> SCHWENCER (L) W/ Copies	ZIEMANN (L) W/ Copies	REGAN (E) W/ Copies
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INTERNAL DISTRIBUTION

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<input checked="" type="checkbox"/> AEC PDR	<input checked="" type="checkbox"/> SCHROEDER	<input checked="" type="checkbox"/> GRIMES	<input checked="" type="checkbox"/> DIGGS (L)	<input checked="" type="checkbox"/> BRAITMAN
<input checked="" type="checkbox"/> OGC, ROOM P-506A	<input checked="" type="checkbox"/> MACCARY	<input checked="" type="checkbox"/> GAMMILL	<input checked="" type="checkbox"/> GEARIN (L)	<input checked="" type="checkbox"/> SALTZMAN
<input checked="" type="checkbox"/> MUNTZING/STAFF	<input checked="" type="checkbox"/> KNIGHT	<input checked="" type="checkbox"/> KASTNER	<input checked="" type="checkbox"/> GOULBOURNE (L)	<input checked="" type="checkbox"/> B. HURT
<input checked="" type="checkbox"/> CASE	<input checked="" type="checkbox"/> PAWLICKI	<input checked="" type="checkbox"/> BALLARD	<input checked="" type="checkbox"/> KREUTZER (E)	<input checked="" type="checkbox"/> PLANS
<input checked="" type="checkbox"/> GIAMBUSSO	<input checked="" type="checkbox"/> SHAO	<input checked="" type="checkbox"/> SPANGLER	<input checked="" type="checkbox"/> LEE (L)	<input checked="" type="checkbox"/> MCDONALD
<input checked="" type="checkbox"/> BOYD	<input checked="" type="checkbox"/> STELLO	<input checked="" type="checkbox"/> ENVIRO	<input checked="" type="checkbox"/> MAIGRET (L)	<input checked="" type="checkbox"/> CHAPMAN
<input checked="" type="checkbox"/> MOORE (L) (BWR)	<input checked="" type="checkbox"/> HOUSTON	<input checked="" type="checkbox"/> MULLER	<input checked="" type="checkbox"/> REED (E)	<input checked="" type="checkbox"/> DUBE w/input
<input checked="" type="checkbox"/> DEYOUNG (L) (PWR)	<input checked="" type="checkbox"/> NOVAK	<input checked="" type="checkbox"/> DICKER	<input checked="" type="checkbox"/> SERVICE (L)	<input checked="" type="checkbox"/> E. COUPE
<input checked="" type="checkbox"/> SKOVHOLT (L)	<input checked="" type="checkbox"/> ROSS	<input checked="" type="checkbox"/> KNIGHTON	<input checked="" type="checkbox"/> SHEPPARD (L)	<input checked="" type="checkbox"/> D. THOMPSON (2)
<input checked="" type="checkbox"/> GOLLER (L)	<input checked="" type="checkbox"/> PPOLITO	<input checked="" type="checkbox"/> YOUNGBLOOD	<input checked="" type="checkbox"/> SLATER (E)	<input checked="" type="checkbox"/> KLECKER
<input checked="" type="checkbox"/> P. COLLINS	<input checked="" type="checkbox"/> TEDESCO	<input checked="" type="checkbox"/> REGAN	<input checked="" type="checkbox"/> SMITH (L)	<input checked="" type="checkbox"/> EISENHUT
<input checked="" type="checkbox"/> DENISE	<input checked="" type="checkbox"/> LONG	<input checked="" type="checkbox"/> PROJECT LDR	<input checked="" type="checkbox"/> TEETS (L)	
<input checked="" type="checkbox"/> REG OPR	<input checked="" type="checkbox"/> LAINAS	<input checked="" type="checkbox"/> HARLESS	<input checked="" type="checkbox"/> WILLIAMS (E)	
<input checked="" type="checkbox"/> FILE & REGION (2)	<input checked="" type="checkbox"/> BENAROYA		<input checked="" type="checkbox"/> WILSON (L)	
<input checked="" type="checkbox"/> MORRIS	<input checked="" type="checkbox"/> VOLIMER			
<input checked="" type="checkbox"/> STEELE				

EXTERNAL DISTRIBUTION

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1 - ASLB	1 - B&M SWINEBROAD, Rm E-201 GT	1 - CONSULTANTS	1 - G. ULRIKSON, ORNL
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Sent. to Lic. Asst.			

Regulatory

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IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

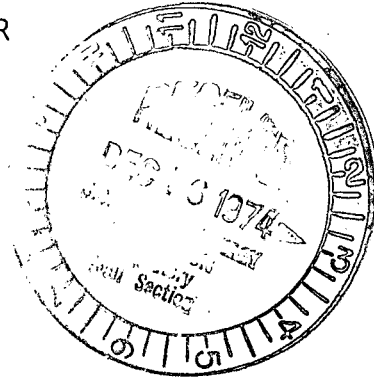
CEDAR RAPIDS, IOWA

DUANE ARNOLD ENERGY CENTER

PALO, IOWA

DECEMBER 10, 1974

DAEC - 74 - 416



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 50-331/74-51
FILE: A-118a
A-110

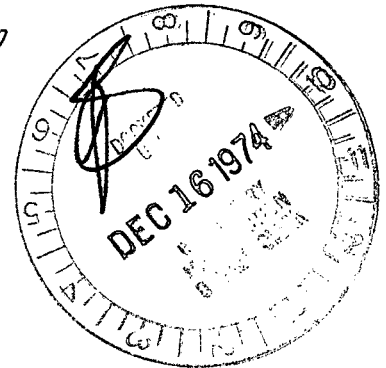
Dear Mr. Keppler:

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,

E. L. Hammond

E. L. Hammond
Assistant Chief Engineer
Duane Arnold Energy Center



DLW: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
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DEC 12 1974

12682

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA

Subject: Abnormal Occurrence (Preliminary Report)
Report Number: AO 50-331/74-51
Report Date: December 10, 1974
Occurrence Date: November 30, 1974
Facility: Duane Arnold Energy Center, Unit #1, Palo, Iowa

Identification of Occurrence

Inoperable pressure differential indicating switch (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

While supervising routine plant operations, the Shift Supervising Engineer observed that PDIS 4642 (LPCI Loop Selection Logic Channel B) was inoperable.

Designation of Apparent Cause of Occurrence

The apparent cause of the occurrence was welded micro-switch contacts in 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 contacts were welded together by heat resulting from continuous cycling of the switch.

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 micro-switch was replaced and PDIS 4642 was functionally tested.

As the result of a previous Abnormal Occurrence involving the LPCI Loop Selection Logic differential pressure indicating switches (AO 50-331/74-48), a design review of the switch application was in progress at the time of this Abnormal Occurrence.

Nuclear steam supply vendor personnel are currently conducting a review of the problem.

The results of the design review including any corrective actions will be included in a Supplemental Report.

Pending completion of the design review and implementation of the resultant design change, if any, Operations personnel will verify operability of the LPCI Loop Selection Logic pressure differential indicating switches daily.

Failure Data

One previous malfunction of a LPCI Loop Selection Logic pressure differential indicating switch (PDIS 4644) occurred on November 12, 1974.

Component Data:

Type - Differential Pressure Indicating Switch
Manufacturer - Barton
Model No. - 288A
Serial No. - 7422

Conclusion

The contents of this report, including corrective actions, were reviewed and approved by the DAEC Operations Committee on December 10, 1974. The Committee concluded that the health and safety of the public and plant personnel was not impaired.

E. L. Hammond

E. L. Hammond
Assistant Chief Engineer
Duane Arnold Energy Center

DLW:ELH:bh