

**AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL**  
**TEMPORARY FORM)**

CONTROL NO: 7955

FILE: \_\_\_\_\_

<b>FROM:</b> Iowa Electric Light & Power Co. Cedar Rapids, Iowa 52406 E. L. Hammond		<b>DATE OF DOC</b> 7-24-74		<b>DATE REC'D</b> 7-30-74		<b>LTR</b> X	<b>TWX</b>	<b>RPT</b>	<b>OTHER</b>
<b>TO:</b> J. Keppler		<b>ORIG</b> NONE		<b>CC</b>	<b>OTHER</b>	<b>SENT AEC PDR</b>		<b>X</b>	
						<b>SENT LOCAL PDR</b>		<b>X</b>	
<b>CLASS</b>	<b>UNCLASS</b> XXXX	<b>PROP INFO</b>	<b>INPUT</b>	<b>NO CYS REC'D</b> 1		<b>DOCKET NO:</b> 50-331			

**DESCRIPTION:**  
Ltr trans the following:

**ENCLOSURES:**  
AO-50-331/74-18: Reporting abnormal occurrence on 7-2-74, regarding temperature switch drift.

**DO NOT REMOVE**

**ACKNOWLEDGED**

**PLANT NAME:** Duane Arnold

( 1 cy rec'd )

FOR ACTION/INFORMATION

7-31-74 GC

BUTLER (L)	SCHWENGER (L)	ZIEMANN (L)	REGAN (E)
W/ CYS	W/ CYS	W/ CYS	W/ CYS
CLARK (L)	STOLZ (L)	DICKER (E)	LEAR
W/ CYS	W/ CYS	W/ CYS	W/ 7 CYS
FAIR (L)	VASSALLO (L)	KNIGHTON (E)	
W/ CYS	W/ CYS	W/ CYS	W/ CYS
KNIEL (L)	PURPLE (L)	YOUNGBLOOD (E)	
W/ CYS	W/ CYS	W/ CYS	W/ CYS

**INTERNAL DISTRIBUTION**

<input checked="" type="checkbox"/> <b>REG FILE</b>	<input checked="" type="checkbox"/> <b>TECH REVIEW</b>	DENTON	<b>LIC ASST</b>	<b>A/T IND</b>
<input checked="" type="checkbox"/> <b>AEC PDR</b>	<input checked="" type="checkbox"/> <b>HENDRIE</b>	GRIMES	<b>DIGGS (L)</b>	<b>BRAITMAN</b>
<input checked="" type="checkbox"/> <b>OGC</b>	<input checked="" type="checkbox"/> <b>SCHROEDER</b>	GAMMILL	<b>GEARIN (L)</b>	<b>SALTZMAN</b>
<input checked="" type="checkbox"/> <b>MUNTZING/STAFF</b>	<input checked="" type="checkbox"/> <b>MACCARY</b>	KASTNER	<b>GOULBOURNE (L)</b>	<b>B. HURT</b>
<input checked="" type="checkbox"/> <b>CASE</b>	<input checked="" type="checkbox"/> <b>KNIGHT</b>	BALLARD	<b>KREUTZER (E)</b>	
<b>GIAMBUSSO</b>	<input checked="" type="checkbox"/> <b>PAWLICKI</b>	SPANGLER	<b>LEE (L)</b>	<b>PLANS</b>
<b>BOYD</b>	<input checked="" type="checkbox"/> <b>SHAO</b>		<b>MAIGRET (L)</b>	<b>MCDONALD</b>
<b>MOORE (L)(LWR-2)</b>	<input checked="" type="checkbox"/> <b>STELLO</b>	<b>ENVIRO</b>	<b>REED (E)</b>	<b>CHAPMAN</b>
<b>DEYOUNG (L)(LWR-1)</b>	<input checked="" type="checkbox"/> <b>HOUSTON</b>	<b>MULLER</b>	<b>SERVICE (L)</b>	<b>DUBE w/input</b>
<b>SKOVHOLT (L)</b>	<input checked="" type="checkbox"/> <b>NOVAK</b>	<b>DICKER</b>	<b>SHEPPARD (L)</b>	<b>E. COUPE</b>
<input checked="" type="checkbox"/> <b>GOLLER (L)</b>	<input checked="" type="checkbox"/> <b>ROSS</b>	<b>KNIGHTON</b>	<b>SLATER (E)</b>	
<b>P. COLLINS</b>	<input checked="" type="checkbox"/> <b>IPPOLITO</b>	<b>YOUNGBLOOD</b>	<b>SMITH (L)</b>	<input checked="" type="checkbox"/> <b>D. THOMPSON (2)</b>
<b>DENISE</b>	<input checked="" type="checkbox"/> <b>TEDESCO</b>	<b>REGAN</b>	<input checked="" type="checkbox"/> <b>TEETS (L)</b>	<input checked="" type="checkbox"/> <b>KLECKER</b>
<input checked="" type="checkbox"/> <b>REG OPR</b>	<input checked="" type="checkbox"/> <b>LONG</b>	<b>PROJECT MGR</b>	<b>WILLIAMS (E)</b>	<input checked="" type="checkbox"/> <b>EISENHUT</b>
<input checked="" type="checkbox"/> <b>FILE &amp; REGION (3)</b>	<input checked="" type="checkbox"/> <b>LAINAS</b>		<b>WILSON (L)</b>	
<input checked="" type="checkbox"/> <b>MORRIS</b>	<input checked="" type="checkbox"/> <b>BENAROYA</b>	<b>HARLESS</b>		
<input checked="" type="checkbox"/> <b>STEELE</b>	<input checked="" type="checkbox"/> <b>VOLLMER</b>			

**EXTERNAL DISTRIBUTION**

<input checked="" type="checkbox"/> 1 - LOCAL PDR Cedar Rapids, Iowa	(1)(2)(10)-NATIONAL LABS	1-PDR-SAN/LA/NY
<input checked="" type="checkbox"/> 1 - TIC (ABERNATHY)	1-ASLBP(E/W Bldg, Rm 529)	1-BROOKHAVEN NAT LAB
<input checked="" type="checkbox"/> 1 - NSIC (BUCHANAN)	1-W. PENNINGTON, Rm E-201 GT	1-G. ULRIKSON, ORNL
1 - ASLB	1-B&M SWINEBROAD, Rm E-201 GT	1-AGMED (RUTH GUSSMAN)
1 - P. R. DAVIS	1-CONSULTANTS	Rm B-127 GT
<input checked="" type="checkbox"/> 16 - ACRS SENT TO LIC ASST TEETS	NEWMARK/BLUME/AGBARIAN	1-RD..MUELLER, Rm E-305
7-31-74		GT

# Regulatory Docket File

## IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA

DUANE ARNOLD ENERGY CENTER

PAO, IOWA

JULY 24, 1974

DAEC - 74 - 257



Mr. James Keppler, Regional Director  
Directorate of Regulatory Operations  
U. S. Atomic Energy Commission, Region III  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

SUBJECT: Abnormal Occurrence No. AO 50-331/74-18  
FILE: A-118a

Dear Mr. Keppler:

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

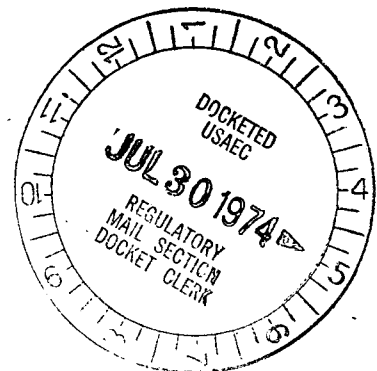
Very truly yours,

*Ellery L. Hammond*  
Ellery L. Hammond  
Assistant Chief Engineer  
Duane Arnold Energy Center

GAE:ELH:bh

Enclosure

CC: ✓ John O'Leary  
C. W. Sandford  
J. A. Wallace  
G. G. Hunt  
B. R. York  
D. L. Wilson  
H. W. Rehrauer-Chairman, Safety Committee  
L. D. Root  
J. R. Newman  
G. A. Engle  
O. C. Schellberg  
B. L. Hopkins



7955

# IOWA ELECTRIC LIGHT AND POWER COMPANY

*General Office*  
CEDAR RAPIDS, IOWA

Subject: Abnormal Occurrence  
Report Number: AO 50-331/74-18  
Report Date: July 24, 1974  
Occurrence Date: July 2, 1974  
Facility: Duane Arnold Energy Center, Unit #1, Palo, Iowa

## Identification of Occurrence

Temperature switch setting drift reportable in accordance with Section 1.0.4.b of the Technical Specifications.

## Conditions Prior to Occurrence

The reactor and plant were at steady-state power.

1. Reactor critical
2. 60% power
3. 304 MWe

## Description of Occurrence

While performing Surveillance Test Procedure (STP) 42A014 - Main Steam Line Leak Detector Instrument Functional Test and Calibration on Channel A2 (TIS 4478), TE4478A tripped at 206.88°F. and TE 4478B tripped at 205.48°F. The Technical Specification limit as stated in 3.2-A is 200°F + 40°F.

## Designation of Apparent Cause of Occurrence

The apparent cause of the occurrence was an out-of-calibration condition due to instrument drift.

## Analysis of Occurrence

The Operations Committee discussed the occurrence on July 16, 1974, and it was concluded that due to the one-out-of-two-twice trip logic and four completely independent channels, the settings of the temperature trips on Channel A2 would not have prevented the logic from performing its intended design function.

Corrective Action

TIS 4478 was immediately recalibrated and functionally tested. A follow-up calibration check indicated that the trip point was within limits as set by the Technical Specifications. This was the first indication that the trip level was out of specification and previous calibration checks on the same switch indicated no trending toward an out-of-specification limit.

Conclusions

The contents of this report, including Corrective Actions, were reviewed by the DAEC Operations Committee on July 23, 1974. The Committee concluded that the occurrence did not present a hazard to the health and safety of the public.

*Ellery L. Hammond*  
Ellery L. Hammond  
Assistant Chief Engineer  
Duane Arnold Energy Center

GAE:ELH:bh