

FILE: _____

FROM: Iowa Electric Light & Power Co Cedar Rapids, IO Ellery L. Hammond			DATE OF DOC 7-24-74	DATE REC'D 7-29-74	LTR X	TWX	RPT	OTHER
TO: Keppler			ORIG 1 signed	CC	OTHER	SENT AEC PDR XXX SENT LOCAL PDR XXX		
CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D		DOCKET NO:		
	XXX			1		50-331		

DESCRIPTION:

Ltr trans the following.....

PLANT NAME: DUANE ARNOLD

ENCLOSURES:

Abnormal occurrence #AO 50-331/74-18 of 7-2-74 re temperature switch setting drift.....

**ACKNOWLEDGED
DO NOT REMOVE**

(1 cy encl rec'd)

FOR ACTION/INFORMATION 7-29-74 GMC

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

EXTERNAL DISTRIBUTION

- | | | | |
|--|-------------------------------|--|----------------------------|
| <input checked="" type="checkbox"/> 1 - LOCAL PDR CEDAR RAPIDS, IA | | | |
| <input checked="" type="checkbox"/> 1 - TIC (ABERNATHY) | (1)(2)(10)-NATIONAL LABS | | 1-PDR-SAN/LA/NY |
| <input checked="" type="checkbox"/> 1 - NSIC (BUCHANAN) | 1-ASLBP(E/W Bldg, Rm 529) | | 1-BROOKHAVEN NAT LAB |
| 1 - ASLB | 1-W. PENNINGTON, Rm E-201 GT | | 1-G. ULRIKSON, ORNL |
| <input checked="" type="checkbox"/> 1 - P. R. DAVIS | 1-B&M SWINEBROAD, Rm E-201 GT | | 1-AGMED (RUTH GUSSMAN) |
| <input checked="" type="checkbox"/> 16 - ACRS SENT TO LIC ASST TEETS 7-29-74 | 1-CONSULTANTS | | Rm B-127 GT |
| | NEWMARK/BLUME/AGBABIAN | | 1-RD..MUELLER, Rm E-201 GT |

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA

DUANE ARNOLD ENERGY CENTER

PALO, IOWA

JULY 24, 1974

DAEC - 74 - 257

50 - 331

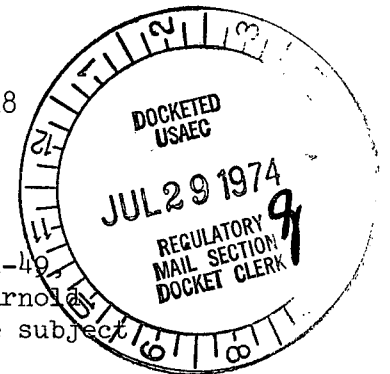


Mr. James Keppler, Regional Director
Directorate of Regulatory Operations
U. S. Atomic Energy Commission, Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

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

REGULATORY DOCKET FILE COPY

JUL 26 1974

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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 \pm 4°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