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CONTROL NO: 4952

FILE: INCIDENT REPORT 111

FROM: Iowa Electric Light & Pwr. Cedar Rapids, Iowa G. G. Hunt		DATE OF DOC 4-28-75	DATE REC'D 5-5-75	LTR XX	TVX	RPT	OTHER
TO: Mr. James G. Keppler		ORIG 1 signed	CC 1	OTHER	SENT AEC PDR XX SENT LOCAL PDR XX		
CLASS	UNCLASS XX	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: Abnormal Occurrence Report
No. A.O. 50-331/75-20 on 4-18-75, During
the performance of Surveillance Test Procedure
No. 41A006 - Discharge Volume High Water Level,
Level Switch 1861B did not operate at the re-
quired setpoint...

1 copy encl rec'd

FOR ACTION/INFORMATION WTM 5-9-75

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INTERNAL DISTRIBUTION

<u>REG FILE</u> NRC PDR OGC, ROOM P-506A GOSSICK/STAFF CASE GIAMBUSSO BOYD MOORE (L) DEYOUNG (L) SKOVHOLT (L) GOLLER (L) (Ltr) P. COLLINS DENISE REG OPS FILE & REGION (2) T.R. WILSON (C) STEELE	<u>TECH REVIEW</u> SCHROEDER MACCARY KNIGHT PAWLICKI SHAO **STELLO **HOUSTON **NOVAK ROSS IPPOLITO TEDESCO LONG LAINAS BENAROYA VOLLMER	DENTON GRIMES GAMMILL KASTNER BALLARD SPANGLER ENVIRO MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR HARLESS	<u>LIC ASST</u> R. DIGGS (L) H. GEARIN (L) E. GOULEBOURNE (L) P. KREUTZER (E) J. LEE (L) M. MAIGNET (L) S. REED (E) M. SERVICE (L) S. SHEPPARD (L) M. SLATER (E) H. SMITH (L) S. TEETS (L) G. WILLIAMS (E) V. WILSON (L) R. INGRAM (L)	<u>A/T IND</u> BRAITHMAN SALTZMAN MELTZ PLANS MCDONALD CHAPMAN DUBE (Ltr) E. COUPE PETERSON HARTFIELD (2) KLECKER EISENHUT WIGGINTON F. WILLIAMS HANSER
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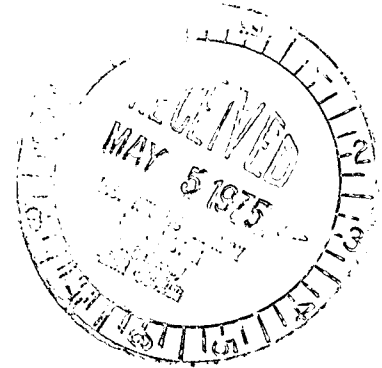
EXTERNAL DISTRIBUTION

1 - LOCAL PDR CEDAR RAPIDS, IOWA	1 - NATIONAL LABS	1 - PDR SAN/LA/NY
1 - TIC (ABERNATHY) (1)(2)(10)	1 - W. PENNINGTON, Rm E-201 GT	1 - BROOKHAVEN NAT LAB
1 - NSIC (BUCHANAN)	1 - CONSULTANTS	1 - G. ULRIKSON, ORNL
1 - ASLB	NEWMARK/BLUME/AGBARIAN	1 - AGMED (RUTH GUSEMAN) Rm B-127 CT
1 - Newton Anderson		1 - J. D. RUNKLES, Rm E-201 GT
1 - ACRS SENT TO LIC ASST- TEETS		
** SEND ONLY TEN DAY REPORTS		

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA
DUANE ARNOLD ENERGY CENTER
PALO, IOWA
APRIL 28, 1975
DAEC - 180 - 75



Mr. James G. Keppler, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission - Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

SUBJECT: Abnormal Occurrence No. A. O. 50-331/75-20
FILE: A-110 A-118a

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.

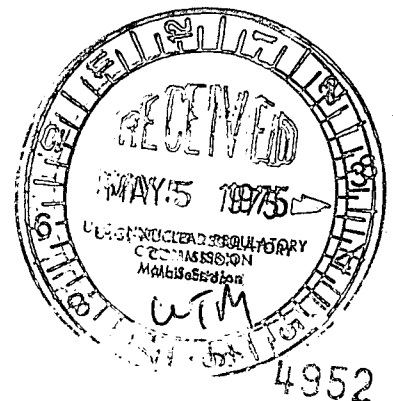
Mr. C. Feierabend, of your office, was notified of the abnormal
occurrence on April 18, 1975.

Very truly yours,

G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

DLW/GGH/mg
Enclosure

cc: B. C. Rusche
C. W. Sandford
J. A. Wallace
E. L. Hammond
H. W. Rehrauer - Chairman, Safety Committee
J. R. Newman



MAY 1 1975

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office
CEDAR RAPIDS, IOWA

Subject: Abnormal Occurrence
Report Number: A. O. 50-331/75-20
Report Date: April 28, 1975
Occurrence Date: April 18, 1975
Facility: Duane Arnold Energy Center, Unit #1, Palo, Iowa

Identification of Occurrence

Inoperable scram discharge volume level switch, reportable in accordance with Appendix A to Operating License DPR-49, Specifications 1.0.4.b and Table 3.1-1.

Description of Occurrence

During the performance of Surveillance Test Procedure No. 41A006 - Discharge Volume High Water Level, Level Switch 1861B did not operate at the required setpoint. An immediate investigation by maintenance personnel determined that the float in the level switch had stuck in the untripped condition.

Designation of Apparent Cause of Occurrence

The cause of the occurrence is unknown. An inspection of the LS 1861B indicated no abnormal condition which would cause the float to stick.

It should be noted that another scram discharge volume level switch (LS 1861D) stuck in the tripped condition and would not reset following a reactor scram on April 19, 1975. Since a replacement level switch was readily available, the float reservoir for LS 1861D was disassembled and inspected. The inspection indicated the probable cause was a foreign object in the float reservoir. A $\frac{1}{2}$ " diameter x $\frac{1}{4}$ " thick piece of plastic was found in the reservoir. Also, the float stem was observed to be bent at an angle of approximately 8°. It is postulated that the piece of plastic may have wedged between the float and the reservoir wall. The bent float stem probably was the result of a manufacturing deficiency.

Analysis of Occurrence

LS 1861B provides a signal to the reactor protection system (trip Channel B) in the event of high level in the scram discharge volume. Since a redundant level switch in the same reactor protection system trip channel was found to

be operable and within calibration during the surveillance test on April 28, 1975, the occurrence did not present an unsafe plant condition. In addition, another level switch in the scram discharge volume (LS 1861F) would have alarmed in the control room and alerted operating personnel to an increasing level condition in the scram discharge volume.

Corrective Action

The mechanical portion of LS 1861B, excluding the float reservoir, was disassembled, cleaned, lubricated and reassembled. The switch was also recalibrated and functionally tested.

The level switch vendor will conduct an investigation into the cause of the switch malfunction.

The frequency for performance of Surveillance Test No. 41A006 has been increased to bi-weekly pending completion of the investigation. A supplemental report summarizing the results of the vendor's investigation will be submitted.

Failure Data

There have been no previous malfunctions of this particular model level switch at this facility.

Equipment Identification

Description: Level Switch

Manufacturer: Magnetrol

Model No. 5.0-751-0.75-1X-MPG-M13HV

Conclusion

This report was reviewed and approved by the DAEC Operations Committee on April 28, 1975. The Committee concluded the occurrence did not present a hazard to the health and safety of the public.



G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

DLW/GGH/mg

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA
DUANE ARNOLD ENERGY CENTER

PALO, IOWA
APRIL 18, 1975
DAEC-75-167



Mr. James G. Keppler, Director
Office of Inspection and Enforcement-Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

SUBJECT: Abnormal Occurrence No. A.O. 50-331/75-20
FILE: A-110 A-118a

Dear Mr. Keppler:

In accordance with DAEC Technical Specifications, Specification 6.11.2.A.1, this letter is a notification of an abnormal occurrence at the Duane Arnold Energy Center on April 18, 1975. This letter, telecopied to your office, is intended to satisfy the requirements for notification by telegram within 24 hours of an abnormal occurrence.

Identification of Occurrence

Inoperable scram discharge volume level switch, reportable in accordance with Appendix A to Operating License DPR-49, Specifications 1.0.4.b and Table 3.1-1.

Description of Occurrence

During the performance of Surveillance Test Procedure No. 41A006 - Discharge Volume High Water Level, Level Switch 1861 B did not trip at the required setpoint. An immediate investigation determined that the float in the level switch was sticking.

Reactor Protection System Channel B was placed in the tripped condition pending completion of an investigation into the cause of the malfunction and completion of appropriate corrective action.

Investigation is continuing and a formal written report will be submitted to the Office of Inspection and Enforcement within 10 days of the subject abnormal occurrence.

Very truly yours,

G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

DLW:GGH:bh

CC: B. C. Rusche
C. W. Sandford
J. A. Wallace
L. D. Root
B. R. York

D. L. Wilson
R. R. Rinderman
G. A. Cook
H. W. Rehrauer-Chairman, Safety Committee
E. L. Hammond
B. L. Hopkins

4-28-75
#4952

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA
DUANE ARNOLD ENERGY CENTER

PALO, IOWA

APRIL 18, 1975

DAEC-75-169

Mr. James G. Keppler, Director
Office of Inspection and Enforcement Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

SUBJECT: Abnormal Occurrence No. A.O. 50-331/75-21

FILE: A-110 A-118a

Dear Mr. Keppler:

In accordance with DAEC Technical Specifications, Specification 6.11.2.A.1, this letter is a notification of an abnormal occurrence at the Duane Arnold Energy Center on April 18, 1975. This letter, telecopied to your office, is intended to satisfy the requirements for notification by telegram within 24 hours of an abnormal occurrence.

Identification of Occurrence

HPCI Subsystem Local Leak Rate test line fracture, reportable in accordance with Appendix A to Operating License DPR-49, Specification, 1.0.4.e.

Description of Occurrence

During the performance of a HPCI Subsystem valve lineup verification, a 3/4" local leak rate test line was observed to have fractured at the point where the line connects to the 16" HPCI turbine exhaust line just upstream of valve V-22-17.

An investigation into the cause of the pipe fracture is now in progress. Valve V-22-17 has been closed to ensure primary containment pending completion of corrective action.

A formal written report will be submitted to the Office of Inspection and Enforcement within 10 days of the subject abnormal occurrence.

Very truly yours,



G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

DLW/GGH/mg

cc: ✓ B. C. Rusche	L. D. Root	G. G. Hunt	H. W. Rehrauer-Chr. SC
C. W. Sandford	B. R. York	R. R. Rinderman	B. L. Hopkins
J. A. Wallace	D. L. Wilson	G. A. Cook	