

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 4889FILE: INCIDENT REPORT FILE

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	TWX	RPT	OTHER
TO: Mr. James G. Keppler			ORIG no original	CC	OTHER	SENT AEC PDR <u>XX</u> SENT LOCAL PDR <u>XX</u>		
CLASS	UNCLASS XX	PROP INFO	INPUT	NO CYS REC'D 1		DOCKET NO: 50-331		

DESCRIPTION: Ltr trans the following:

ACKNOWLEDGED

DO NOT REMOVE

ENCLOSURES: Abnormal Occurrence Report
No. A.O. 50-331/75-20 on 4-18-75 Inoperable
scram discharge volume level switch- the float
in the level switch had stuck in an untripped
condition...

1 copy encl. rec'd

PLANT NAME: DUANE ARNOLD ENERGY CENTER
UNIT #1

FOR ACTION/INFORMATION

WIM 5-5-75

BUTLER (L) W/ Copies	SCHWENCER (L) W/ Copies	ZIEMANN (L) W/ Copies	REGAN (E) W/ Copies
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KNIEL (L) W/ Copies	PURPLE (L) W/ Copies	YOUNGBLOOD (E) W/ Copies	

INTERNAL DISTRIBUTION

<u>REG FILE</u>	<u>TECH REVIEW</u>	<u>DENTON</u>	<u>LIC ASST</u>	<u>A/T IND.</u>
<u>NRC PDR</u>	<u>SCHROEDER</u>	<u>GRIMES</u>	<u>R. DIGGS (L)</u>	<u>BRAITMAN</u>
<u>OGC, ROOM P-506A</u>	<u>MACCARY</u>	<u>GAMMILL</u>	<u>H. GEARIN (L)</u>	<u>SALTZMAN</u>
<u>GOSSICK/STAFF</u>	<u>KNIGHT</u>	<u>KASTNER</u>	<u>E. GOULBOURNE (L)</u>	<u>MELTZ</u>
<u>CASE</u>	<u>PAWLICKI</u>	<u>BALLARD</u>	<u>P. KREUTZER (E)</u>	
<u>GIAMBUSO</u>	<u>SHAO</u>	<u>SPANGLER</u>	<u>J. LEE (L)</u>	<u>PLANS</u>
<u>BOYD</u>	<u>** STELLO</u>		<u>M. MAIGRET (L)</u>	<u>MCDONALD</u>
<u>MOORE (L)</u>	<u>** HOUSTON</u>	<u>ENVIRO</u>	<u>S. REED (E)</u>	<u>CHAPMAN</u>
<u>DEYOUNG (L)</u>	<u>** NOVAK</u>	<u>MULLER</u>	<u>M. SERVICE (L)</u>	<u>DUBE (Ltr)</u>
<u>SKOVHOLT (L)</u>	<u>ROSS</u>	<u>DICKER</u>	<u>S. SHEPPARD (L)</u>	<u>E. COUPE</u>
<u>GOLLER (L) (Ltr)</u>	<u>IPPOLITO</u>	<u>KNIGHTON</u>	<u>M. SLATER (E)</u>	<u>PETERSON</u>
<u>P. COLLINS</u>	<u>TEDESCO</u>	<u>YOUNGBLOOD</u>	<u>H. SMITH (L)</u>	<u>HARTFIELD (2)</u>
<u>DENISE</u>	<u>LONG</u>	<u>REGAN</u>	<u>S. TEETS (L)</u>	<u>KLECKER</u>
<u>REG OPR</u>	<u>LAINAS</u>	<u>PROJECT LDR</u>	<u>G. WILLIAMS (E)</u>	<u>EISENHUT</u>
<u>FILE & REGION (2)</u>	<u>BENAROYA</u>		<u>V. WILSON (L)</u>	<u>WIGGINTON</u>
<u>T.R. WILSON (3)</u>	<u>VOLLMER</u>	<u>HARLESS</u>	<u>R. INGRAM (L)</u>	<u>F. WILLIAMS</u>
<u>STEELE</u>				<u>HANAUER</u>

EXTERNAL DISTRIBUTION

1 - LOCAL PDR CEDAR RAPIDS, IO.
 1 - TIC (ABERNATHY) (1)(2)(10) - NATIONAL LABS
 1 - NSIC (BUCHANAN) 1 - W. PENNINGTON, Rm E-201 GT
 1 - ASLB 1 - CONSULTANTS
 1 - Newton Anderson NEWMARK/BLUME/AGBABIAN
 5 - ACRS SENT TO LIC ASST TEETS
 ** SEND ONLY TEN DAY REPORTS

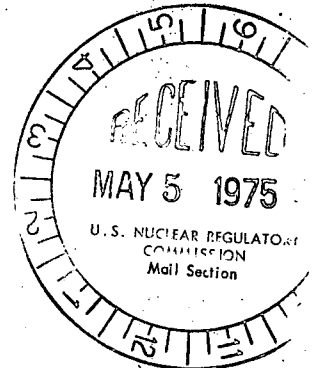
1 - PDR-SAN/LA/NY
 1 - BROOKHAVEN NAT LAB
 1 - G. ULRIKSON, ORNL
 1 - AGMED (RUTH GUSSMAN)
 Rm B-127 GT
 1 - J. D. RUNKLES, Rm E-201
 GT

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.

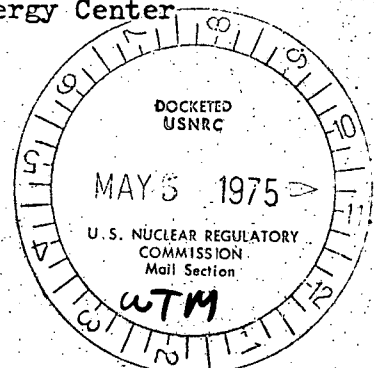
Mr. C. Feierabend, of your office, was notified of the abnormal occurrence on April 18, 1975.

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



4889

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

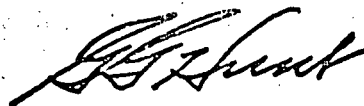
Description: Level Switch

Manufacturer: Magnetrol

Model No. 5.0-751-0.75-1X-MPG-ML3HV

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