

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 9208

FILE:

FROM: Iowa Electric Light & Power Co. Cedar Rapids, Iowa. Mr. G.G. Hunt			DATE OF DOC 8-29-74		DATE REC'D 9-6-74		LTR X	TWX	RPT	OTHER	
TO: J.G. Keppler			ORIG 1 signed		CC OTHER		SENT AEC PDR XXX		SENT LOCAL PDR XXX		
CLASS	UNCLASS XXX	PROP INFO	INPUT		NO CYS REC'D 1		DOCKET NO: 50-331				

DESCRIPTION:
Ltr trans the following....

ENCLOSURES:
Abnormal Occurrence No. 50-331/74-33
concerning.....Core Spray Sparger to Reactor
Pressure Vessel Differential Pressure Trip
Level Setting out of tech specs....

ACKNOWLEDGED
(1 cy encl rec'd)

PLANT NAME: Duane Arnold

DO NOT REMOVE

FOR ACTION/INFORMATION

9-7-74 JB

BUTLER (L)	SCHWENCER (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/4 CYS
FAER (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

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

EXTERNAL DISTRIBUTION

✓ 1 - LOCAL PDR Cedar Rapids, Iowa	(1)(2)(10)-NATIONAL LABS	1-PDR-SAN/LA/WY
✓ 1 - TIC (ABERNATHY)	1-ASLBP(E/W Bldg, Rm 529)	1-BROOKHAVEN NAT LAB
✓ 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 GUESSIAN)
1 - Newton Anderson	1-CONSULTANTS	Rm B-127 GT
✓ 5 - ACRS SENT TO LIC ASST	NEWMARK/BLUME/AGBABIAN	1-RD..MUELLER, Rm F-1
SEP 7 1974		

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA

DUANE ARNOLD ENERGY CENTER

PALO, IOWA

AUGUST 29, 1974

DAEC - 74 - 307

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. 50-331/74-33
FILE: A-118a



Dear Mr. Keppler:

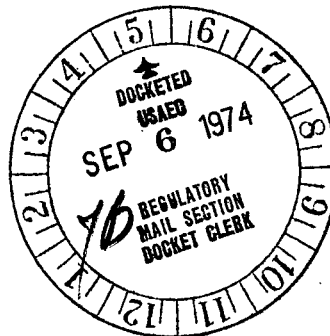
In accordance with Appendix A, Operating License DPR-49, Radiological Technical Specifications and Bases for the Duane Arnold Energy Center, please find enclosed a written report on the subject abnormal occurrence. Mr. C. Feierabend, of your office, was notified of the occurrence at approximately 1125 hours on August 25, 1974.

Very truly yours,

G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

OCS:pd

cc: E. G. Case
C. W. Sandford
J. A. Wallace
E. L. Hammond
B. R. York
D. L. Wilson
O. C. Schellberg
L. D. Root
H. W. Rehrauer
J. R. Newman
B. L. Hopkins



SEP 3 1974

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA

Subject: Abnormal Occurrence
Report Number: AO 50-331/74-33
Report Date: August 28, 1974
Occurrence Date: August 22, 1974
Facility: Duane Arnold Energy Center, Unit #1, Palo, Iowa

Identification of Occurrence

Core Spray Sparger to Reactor Pressure Vessel Differential Pressure Trip Level Setting reportable per Appendix A, Operating License DPR-49, Specification 1.0.4.b..

Conditions Prior to Occurrence

Plant was in shutdown mode when condition was detected.

Description of Occurrence

In the course of performing monthly Surveillance Test Procedure 42B018, "Sparger High DP Instrument Functional Test and Calibration", it was found that Pressure Differential Indicating Switch (PDIS) 2139 was set at 4.0 psid. Specification 3.2.B lists the correct value as 0.74 psid plus or minus 0.25 psid for instrument tolerance. To this setting (0.74) is added 2 psid for zero suppression due to sensor line water density differential caused by the change in water temperature between rated reactor power and shutdown. The correct setting for the instrument is, therefore, $2.74 \pm .25$ psid. Although the Core Spray does not have to be operable when the reactor is in a Cold Shutdown Condition and no work is being performed which could potentially drain the vessel, this has been classified as an abnormal condition since it is possible that the out-of-calibration condition could have occurred prior to the cold shutdown.

Designation of Apparent Cause of Occurrence

The apparent cause of the occurrence was instrument drift.

Analysis of Occurrence

It has been determined that the occurrence did not present an unsafe plant condition. The purpose of the subject pressure switch is to detect a high differential pressure which would be evidence of a Core Spray Sparger pipe break and would alarm in the Control Room. The Core Spray System is composed of two redundant, 100 percent capacity loops so even though one had an instrument out-of-calibration the other loop was operational and fully capable of performing its intended function.

Corrective Action

The subject switch was immediately recalibrated and tested. This was the first indication that the switch was out-of-calibration and previous calibration checks on the same Pressure Differential Indicating Switch indicated no trending toward an out-of-calibration limit.

Conclusion

On August 28, 1974, the DAEC Operations Committee reviewed and approved this report and concluded that the occurrence did not present a hazard to the health and safety of the public.



G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

OCS:GGH:pd