	AEC DISTRIBU	TION FOR PART	50 DOCKET MATER	TAL	
•		(TEMPORARY F	ORM)	CONTROL NO: 6628	
• • • •	\bullet			FILE:	, in the second s
FROM:	~~~~	DATE OF DOC	DATE REC'D		
Iowa Electric Light	& Power Co	DATE OF DOC	JAIL ALL D	LTR TWX RPT OTHER	
Cedar Rapids, 10	a rower co				
G. G. Hunt	х.	- 7-16-74	7-20-74	X	
TO:	ć	ORIG	CC OTHER	SENT AEC PDR XXX	
James G. Keppler		1		SENT LOCAL PDR XXX	
CLASS UNCLASS	PROP INFO	INPUT	NO CYS REC'D	DOCKET NO:	
XXX			1	50-331	
DESCRIPTION:			ENCLOSURES:	· · · · · · · · · ·	
Ltr trans the follo	wing		Abnormal occ u	rren ce rpt #50-331/74-15	
	· · · ·				• .
•			ACKNO	WLEDGED	
·	•			· · · · · · · ·	
· · · · · ·	•		DO NO	T REMOVE	
PLANT NAME: DUANE AR	NOLD			I REMOVE	
			(1 cy encl	•	
	······································	FOR ACTION/IN		20-74 GMC	
	HWENCER (L)	ZIEMANN (L	•	•	
-	CYS	W/ CYS	W/ CYS		
	DLZ (L) CYS	DICKER (E)			
	GIS 20110 (1)	W/ CYS	W/ 7CYS	· · · · · · · · · · · · · · · · · · ·	
	CYS	W/ CYS	-,	· · · ·	
	RPLE (L)	YOUNGBLOOD		•	
	CYS	W/ CYS	W/ CYS		
REG FILE	TECH REVIEW	NTERNAL DISTRI			
	HENDRIE	DENTON	LIC ASST	A/T IND	
JOGC TER	SCHROEDER	GRIMES GANMILL	DIGGS (L)	BRAITMAN	
,	MACCARY	KASTNER	GEARIN (L)	SALTZMAN	
1	KNIGHT	BALLARD	GOULBOURNE KREUTZER (•
	PAWLICKI	SPANGLER	LEE (L)	PLANS	
	SHAO	DIAMOBLIC	MAIGRET (L		•
	STELLO	ENVIRO	REED (E)	CHAPMAN	
	HOUSTON	MULLER	SERVICE (L		
	NOVAK	DICKER	SHEPPARD (
GOLLER (L)	ROSS	KNIGHTON	SLATER (E)		
	IPPOLITO	YOUNGBLOOD	SMITH (L)	D. THOMPSON (2)	
DENISE	TEDESCO	REGAN	TEETS (L)	KLECKER	
REG OPR	LONG	PROJECT MG			
	LAINAS		WILSON (L)		
	BENAROYA	HARLESS	_	· · ·	
STEELE	VOLLMER		·		<u> </u>
A LOCAL DDD OPDAD		TERNAL DISTRIE	BUTION		B
1 - LOCAL PDRCEDAR RAPIDS, IO1 - TIC(ABERNATHY)(1)(2)(10)-NATIONAL LABS1-PDR-SAN/LA/NY					
1 - NSIC (BUCHANAN)	(1)			1-PDR-SAN/LA/NY	
1 - ASLB			E/W Bldg, Rm 52		
1 - P. R. DAVIS		I-W. EED I_RAM CL	ITNERROAD Do P	201 GT 1-G. ULRIKSON, ORNL	
1 - P. R. DAVIS1-B&M SWINEBROAD, Rm E-201 GT 1-AGMED (RUTH GUSSMAN)16 - ACRS SENT TO LIC ASST TEETS 7-22-741-CONSULTANTSRm B-127 GT					· · ·
	· · · ·		K/BLUNE/AGBABL		9. C
· · ·			المتل المراجع مراجع والمتلك والمتلك والمتلك والمراجع	GT	
		••			

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office CEDAR RAPIDS, IOWA DUANE ARNOLD ENERGY CENT PALO, IOWA JULY 16, 1974 DAEC - 74 - 250

Mr. James G. 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. 50-331/74-15 FILE: A-118a

Dear Mr. Keppler:

In accordance with Appendix A, 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 occurrence on July 6, 1974.

Very truly yours,

G. G. Hunt Chief Engineer Duane Arnold Energy Center

6628

OCS/GGH/bh

Enclosure_

CC: *Mohn* O'Leary

C. W. Sandford

J. A. Wallace

E. L. Hammond

B. R. York

D. L. Wilson

H. W. Rehrauer-Chairman, Safety Committee

.

L. D. Root

J. R. Newman

B. L. Hopkins

REGULATORY DOCKET FILE COPY

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office Cedar Rapids, Iowa

Subject:	Abnormal Occurrence			
Report Number:	50-331/74-15			
Report Date:	July 16, 1974			
Occurrence Date:	July 6, 1974			
Facility:	Duane Arnold Energy Center, Unit #1, Palo, Towa			

Identification of Occurrence

MOV 2312 did not open on automatic signal, reportable per Appendix A, Operating License DPR-49, Specification 1.0.4.d.

Conditions Prior to Occurrence

Reactor shutdown due to turbine trip test (Startup Test Instruction #27); Reactor pressure approximately 1050 psi, temperature approximately 525°F. Preparing to commence Startup Test Instruction Number 15 (HPCI injection).

Description of Occurrence

During the conduct of STI-15 the HPCI Subsystem did not inject because MOV-2312 (HPCI pump discharge valve) did not open. Immediate operability tests of the Reactor Core Isolation Cooling Subsystem, Low Pressure Coolant Injection Subsystems, both Core Spray Subsystems, and Automatic Depressurization System were begun per Technical Specification 3.5.D.2.

The Office of the Directorate of Regulatory Operations for Region III was notified by telephone on July 6, 1974, followed by written notification by telecopier.

Designation of Apparent Cause of Occurrence

The cause of the occurrence was high resistance short in the limit switch (LS-6) circuit on MOV-2202 (HPCI Turbine Steam Supply). This short kept relay K-15 (APED drawing 791E420RS, sheet 3) energized which prevented MOV 2312 (HPCI Pump Discharge) from opening (sheet 7) on the automatic initiation signal. The short was caused by moisture in the junction box on MOV-2202.

Abnormal Occurrence AO 50-331/74-15

Sec. 2. A sec. as a sec.

the server for the server and the server set has set the server set of the server set of the server set of the

It was concluded that the moisture was present because a separate occurrence in the HPCI room caused the Fire Protection System to activate on June 11, 1974 (A.O. DPR 49/74-11).

Analysis of Occurrence

Reportable occurrence was recognized during an approved startup test situation with the reactor shutdown. Immediate operability tests of ADS, RCIC, Core Spray, and LPCI verified that the Core and Containment Cooling Subsystems were capable of performing their intended function.

There was no electrical or mechanical damage to the HPCI Subsystem and MOV-2312 could have been opened from the control room with switch S-5 which is in parallel with the automatic initiation circuit.

Corrective Action

The junction box and electrical connections were dried and the circuits checked. The gasket sealing the limit switch enclosure was replaced and checked for a tight seal. The HPCI Subsystem was considered operable at 0330, July 6, 1974. At 2200, July 6, 1974, a check of all other MOV junction boxes in the HPCI room was completed. No moisture was found in any of the other junction boxes.

At 1700, July 7, 1974, a HPCI operability test (STP-45D001) was satisfactorily completed.

Conclusion

The contents of this report were reviewed and approved by the DAEC Operations Committee on July 16, 1974. The Committee concluded that the occurrence did not present a hazard to the health and safety of the public.

.

a politika dalam dalam kata pelakata periodia ang pelakata per peraoda di sebut dara pelakata dara pelakata pe

iesof

G. G. Hunt Chief Engineer Duane Arnold Energy Center

MLS:OCS:GGH:bh

an the second provide a special second