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CONTROL NO: 5581

FILE:

FROM: Iowa Electric Light & Power Cedar Rapids, Iowa G. G. Hunt			DATE OF DOC 6-14-74	DATE REC'D 6-20-74	LTR X	TWX	RPT	OTHER
TO: James G. Keppler			ORIG 1	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.....

** Denotes Letter Only

PLANT NAME: DUANE ARNOLD

ENCLOSURES:

Abnormal Occurrence Rpt #DPR 49/74-9 of
6-4-74 re failure of the automatic start
function of the RCIC Subsystem.....

ACKNOWLEDGED
DO NOT REMOVE

(1 cy encl rec'd)

FOR ACTION/INFORMATION 6-20-74 GMC

✓ BUTLER(L) W/ 7 Copies	SCHWENCER(L) W/ Copies	ZIEMANN(L) W/ Copies	REGAN(E) W/ Copies
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PARR(L) W/ Copies	VASSALLO(L) W/ Copies	KNIGHTON(E) W/ Copies	
KNIEL(L) W/ Copies	PURPLE (L) W/ Copies	YOUNGBLOOD(E) W/ Copies	

INTERNAL DISTRIBUTION

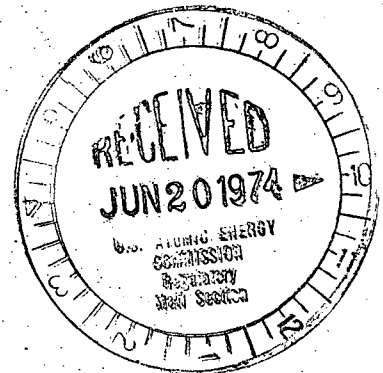
✓ REG FILE	✓ TECH REVIEW	DENTON	LIC ASST	A/T IND
✓ AEC PDR	✓ HENDRIE	GRIMES		BRAITMAN
✓ OGC, ROOM P-506A	✓ SCHROEDER	GAMMILL	DIGGS (L)	SALTZMAN
✓ MUNTZING/STAFF	** MACCARY	KASTNER	GEARIN (L)	B. HURT
** CASE	✓ KNIGHT	BALLARD	GOULBOURNE (L)	PLANS
GIAMBUSO	✓ PAWLICKI	SPANGLER	LEE (L)	MCDONALD
BOYD	✓ SHAO		✓ MAIGRET (L)	DUBE w/input
✓ MOORE (L) (BWR)	** STELLO	✓ ENVIRO	REED (E)	CHAPMAN
✓ DEYOUNG(L) (PWR)	✓ HOUSTON	MULLER	SERVICE (L)	INFO
SKOVHOLT (L)	✓ NOVAK	DICKER	SHEPPARD (L)	C. MILES
GOLLER(L)	✓ ROSS	KNIGHTON	SLATER (E)	✓ KLECKER
P. COLLINS	✓ IPPOLITO	YOUNGBLOOD	SMITH (L)	✓ EISENHUT
DENISE	** TEDESCO	REGAN	TEETS (L)	
✓ REG OPR	✓ LONG	PROJECT LDR	WADE (E)	✓ AOR FILE
✓ FILE & REGION(3)	✓ LAINAS		WILLIAMS (E)	D. THOMPSON (2)
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✓ STEELE	✓ VOLLMER			

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1 - ASLB	1-CONSULTANT'S	1-AGMED(Ruth Gussman)
1 - P. R. DAVIS (AEROJET NUCLEAR)	NEWMARK/BLUME/AGBABIAN	RM-B-127, GT.
✓ 16 - CYS ACRS HOLDING	1-GERALD ULRIKSON...ORNL	1-RD..MULLER..F-309 GT
Sent to Lic Asst Maigret 6-20-74	1-B & M SWINEBROAD, Rm E-201 GT	

IOWA ELECTRIC LIGHT AND POWER COMPANY

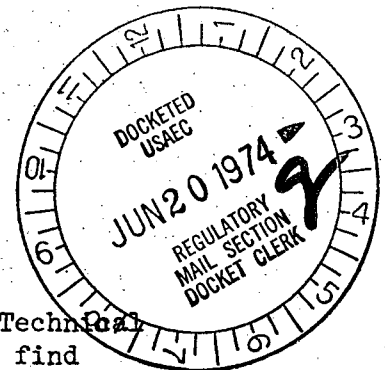
General Office
CEDAR RAPIDS, IOWA
DUANE ARNOLD ENERGY CENTER
PALO, IOWA
JUNE 14, 1974
DAEC - 74 - 223



50 - 331

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. DPR 49/74-9
FILE: 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. D. Boyd, of your office, was notified of the occurrence at approximately 1305 hours on June 5, 1974.

Yours very truly,

G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

ENCL.
GAE/GGH/bh

CC: ✓ John 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
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REGULATORY DOCKET FILE COPY 5581

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office
CEDAR RAPIDS, IOWA

Subject: Abnormal Occurrence
Report Number: DPR 49/74-9
Report Date: June 14, 1974
Occurrence Date: June 4, 1974
Facility: Duane Arnold Energy Center, Unit No. 1, Palo, Iowa

Identification of Occurrence

Failure of the automatic start function of the RCIC Subsystem identified as an abnormal occurrence in accordance with Appendix A of Operating License DPR 49, Specification 1.0.4.d.

Conditions Prior to Occurrence

Reactor and plant at steady state conditions, 141 MWt and 70 MWe. Plant was preparing to commence Startup Test Instruction Number 14, Revision 2, dated April 24, 1974, titled "RCIC".

Description of Occurrence

June 4, 1974	1747	Attempted to inject water into vessel as per: STI-#14; Attempt failed due to RCIC overspeed turbine trip.
	1752	Attempted to recirculate water to the condensate storage (CST) as per STI-14, Paragraph 2.3.1. RCIC turbine overspeed trip occurred.
	1755	RCIC declared inoperative.
June 5, 1974	0100	Determined cause of overspeed trip due to be sluggish closure of turbine governor valve upon RCIC startup. Attempted to correct response of governor valve.
	0230	Adjustment of governor valve was not possible at this time. Secured RCIC testing.

6/14/74

The DAEC Chief Engineer was notified of the occurrence at 0700 hours, on June 5, 1974, and the General Production Manager was notified at 0715 hours on June 5, 1974. The Office of the Directorate of Regulatory Operations for Region III was notified by telephone at 1305 hours on June 5, 1974, and by telecopier later on that same date.

Description of Apparent Cause of Occurrence

The cause of the occurrence was an incorrectly adjusted governor control circuit.

Upon Iowa Electric Light & Power investigation on June 5, 1974, it was found that the turbine governor control circuit speed adjustment was set higher than the electrical overspeed trip.

Analysis of Occurrence

It was determined that no mechanical or electrical damage had occurred to the RCIC or associated systems.

Corrective Action

The turbine governor control circuit was recalibrated.

Subsequent to this, on June 8, 1974, General Electric Field Disposition Instruction No. 64 was installed in the RCIC governor control circuit which incorporated a speed ramp generator for improved startup transient control.

The contents of this report, including Corrective Actions and Conclusions, were reviewed and approved by the DAEC Operations Committee on June 14, 1974. The Committee 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

GAE/GGH/bh