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CONTROL NO: 13278

FILE: INCIDENT REPORT FILE

FROM: Iowa Electric Light And Power Co. Cedar Rapids, Iowa G.G. Hunt			DATE OF DOC 11-19-75	DATE REC'D 11-24-75	LTR XXXX	TWX	RPT	OTHER
TO: Mr. James G. Keppler			ORIG none	CC 1	OTHER	SENT AEC PDR <span style="float:right">xxx</span> SENT LOCAL PDR <span style="float:right">xxx</span>		
CLASS	UNCLASS xxx	PROP INFO	INPUT	NO CYS REC'D 1		DOCKET NO: 50-331		

DESCRIPTION:

Ltr trans the following:

ENCLOSURES:

**ACKNOWLEDGED**

Abnormal Occurrence #75-59 on 11-5-75  
concerning violation of primary containment  
requirements .....

PLANT NAME:

Duane Arnold

**DO NOT REMOVE**

FOR ACTION/INFORMATION

11--26-75 JGB

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CLARK (L) W/ Copies	STOLZ (L) W/ Copies	DICKER (E) W/ Copies	LEAR (L) W/ Copies
PARR (L) W/ Copies	VASSALLO (L) W/ Copies	KNIGHTON (E) W/ Copies	SPELS W/ Copies
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INTERNAL DISTRIBUTION

<b>REG FILE</b> NRC PDR OGC, ROOM P-506A GOSSICK/STAFF CASE GIAMBUSSO BOYD MOORE (L) DEYOUNG (L) SKOVHOLT (L) GOLLER (L) (Ltr) P. COLLINS DENISE REG OPR FILE & REGION (2) MIPC/PE (3) STEELE	TECH REVIEW SCHROEDER MACCARY KNIGHT PAWLICKI SHAO **STELLO **HOUSTON **NOVAK ROSS IPPOLITO TEDESCO J. COLLINS LAINAS BENAROYA VOLLMER	DENTON **GRIMES GAMMILL KASTNER BALLARD SPANGLER  ENVIRO MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR HARLESS	LIC ASST R. DIGGS (L) H. GEARIN (L) E. GOULBOURNE (L) P. KREUTZER (E) J. LEE (L) M. RUSHBROOK (L) S. REED (E) M. SERVICE (L) S. SHEPPARD (L) M. SLATER (E) H. SMITH (L) STEETS (L) G. WILLIAMS (E) V. WILSON (L) R. INGRAM (L) M. DUNCAN (E)	A/T IND. BRAITMAN SALTZMAN MELTZ  PLANS MCDONALD CHAPMAN DUBE (Ltr) E. COUPE PETERSON HARTFIELD (2) KLECKER EISENHUT WIGGINTON F. WILLIAMS HANAUER
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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/AGBABIAN	1 - AGMED (RUTH GUSSMAN) Rm B-127 GT
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5 - ACRS SENT TO LIC ASST		
** SEND ONLY TEN DAY REPORTS		

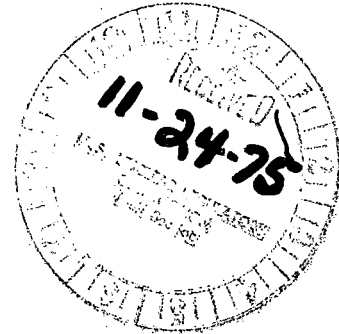
# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER  
P. O. Box 351  
Cedar Rapids, Iowa 52406

DAEC - 75 - 429  
November 19, 1975

Regulatory

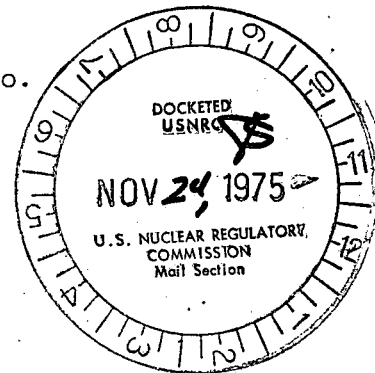
File Cy.



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.  
AO 50-331/75-59

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. Submittal of the report was delayed due to a delay in completing the investigation of the occurrence. Mr. H. Kister of your office was advised of the delay by telephone on November 14, 1975. A written notification of the delay was also transmitted to your office on the same date.

Very truly yours,

G. G. Hunt  
Chief Engineer  
Duane Arnold Energy Center

DLW/GGH/mg

cc: (B. C. Rusche)  
Duane Arnold  
J. A. Wallace  
L. Liu  
H. Rehrauer - Chairman, Safety Committee  
J. R. Newman  
E. L. Hammond

13278

# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER  
P. O. Box 351  
Cedar Rapids, Iowa 52406

Subject: Abnormal Occurrence  
Report Date: November 19, 1975  
Report Number: AO 50-331/75-59  
Occurrence Date: November 5, 1975  
Facility: Duane Arnold Energy Center, Unit No. 1, Palo, Iowa

## Identification of Occurrence

Violation of primary containment requirements, reportable in accordance with Appendix A to Operating License DPR-49, Specifications 1.0.4.b and 3.7.A.2.

## Conditions Prior to Occurrence

Reactor in a hot shutdown condition.

## Description of Occurrence

While in the process of placing the reactor in a cold shutdown condition, RHR shutdown cooling valve MOV 1908 was opened manually. The valve was opened manually because surveillance testing performed in September 1975 had determined that the valve was inoperable and could not be opened remotely from the Control Room. Since the automatic isolation function of the valve was assumed inoperable, primary containment integrity was violated from the time the valve was manually opened on November 5, 1975 until the reactor was placed in a cold shutdown condition on the same date. It should be noted that MOV 1908 and redundant isolation valve MOV 1909 were maintained in a closed position during the period September 3 to November 5, 1975 in order to satisfy Technical Specification requirements.

## Designation of Apparent Cause of Occurrence

The cause of the occurrence was an inoperable RHR shutdown cooling isolation valve (MOV 1908). The violation of the requirements for primary containment integrity resulted from the fact that the valve was manually opened when the automatic isolation function of the valve was declared inoperable. It was necessary to open MOV 1908 in order to place the reactor in a cold shutdown condition using normal cooldown procedures.

It is not known why MOV 1908 failed to open during surveillance testing in September 1975. The breaker to MOV 1908 tripped on overload but it is not known what caused the overload condition. The valve operator was subsequently inspected and tested during the November 5th shutdown and no abnormalities were noted.

#### Analysis of Occurrence

The occurrence did not present an unsafe plant condition. RHR shutdown cooling isolation valve MOV 1909 was operable during the occurrence and would have provided a redundant capability for isolating the RHR shutdown cooling line.

#### Corrective Action

Since it was necessary to open MOV 1908 in order to place the plant in cold shutdown condition using normal cooldown techniques, the occurrence could not be avoided and no corrective action can be implemented in that respect.

MOV 1908 was inspected and functionally tested prior to commencing reactor startup on November 5, 1975. No abnormalities were noted during testing which included a measurement of closing times. The valve will again be functionally tested on the next occasion the shutdown cooling mode of the RHR system is initiated.

#### Conclusion

This report was reviewed and approved by the DAEC Operations Committee on November 19, 1975. The Committee concluded that the occurrence did not present a hazard to the health and safety of the public.



G. G. Hunt  
Chief Engineer  
DAEC

DLW/GGH/mg