

**NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL**  
(TEMPORARY FORM)

CONTROL NO: 12680

FILE: AO

FROM: Iowa Electric & Power Co Cedar Rapids, Iowa G.G. Hunt		DATE OF DOC 10-24-75	DATE REC'D 11-4-75	LTR XXX	TWX	RPT	OTHER
TO: Mr. James Keppler		ORIG 1 Signed	CC 0	OTHER	SENT NRC PDR XXX		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 # 75-84, on 10-17-75,  
Concerning Inoperable containment atmosphere  
diffusion 02 analyzers.....  
  
(1 Copy Received)

PLANT NAME: Duane Arnold

**FOR ACTION/INFORMATION**

SAB 11-7-75

BUTLER (L) W/ Copies	SCHWENCER (L) W/ Copies	ZIEMANN (L) W/ Copies	REGAN (E) W/ Copies
CLARK (L) W/ Copies	STOLZ (L) W/ Copies	DICKER (E) W/ Copies	LEAR (L) W/3 Copies
PARR (L) W/ Copies	VASSALLO (L) W/ Copies	KNIGHTON (E) W/ Copies	<b>SPIES</b> W/ Copies
KNIEL (L) W/ Copies	PURPLE (L) W/ Copies	YOUNGBLOOD (E) W/ Copies	<b>LPM</b> W/ Copies

**DO NOT REMOVE**  
**ACKNOWLEDGED**

**INTERNAL DISTRIBUTION**

<u>REG FILE</u> 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)	<u>TECH REVIEW</u> SCHROEDER MACCARY KNIGHT PAWLICKI SHAO STELLO HOUSTON NOVAK ROSS IPPOLITO TEDESCO J. COLLINS LAINAS BENAROYA VOLLMER	<u>DENTON</u> GRIMES GAMMILL KASTNER BALLARD SPANGLER  <u>ENVIRO</u> MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR HARLESS	<u>LIC ASST</u> 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) S. TEETS (L) G. WILLIAMS (E) V. WILSON (L) R. INGRAM (L) M. DUNCAN (E)	<u>A/T IND.</u> BRAITMAN SALTZMAN MELTZ  <u>PLANS</u> MCDONALD CHAPMAN DUBE (Ltr) E. COUPE PETERSON HARTFIELD (2) KLECKER EISENHUT WIGGINTON F. Willaams Hanauer
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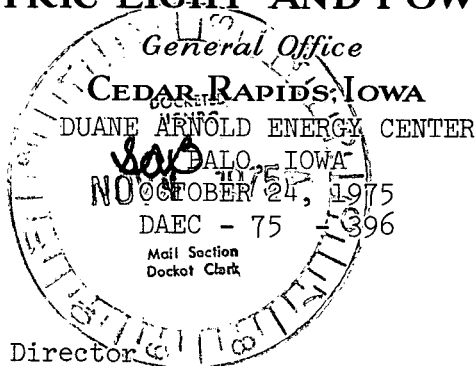
**EXTERNAL DISTRIBUTION**

1 - LOCAL PDR Cedar Rapids, Iowa	1 - PDR-SAN/LA/NY
1 - TIC (ABERNATHY) (1)(2)(10)	1 - BROOKHAVEN NAT LAB
1 - NSIC (BUCHANAN)	1 - G. ULRIKSON ORNL
1 - ASLB	
1 - Newton Anderson	
5 - ACRS HOLDING/SENT to L.A. S. Teets	

Regulatory

File Cy.

# IOWA ELECTRIC LIGHT AND POWER COMPANY



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 AO 50-331/75-54

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.

Very truly yours,

G. G. Hunt  
Chief Engineer  
Duane Arnold Energy Center

DLW/GGH/mg

cc: B. Rusche  
D. Arnold  
J. Wallace  
L. Liu  
H. Rehrauer - Chairman, Safety Committee  
J. Newman  
E. Hammond

12680

OCT 28 1975

# IOWA ELECTRIC LIGHT AND POWER COMPANY

*General Office*

CEDAR RAPIDS, IOWA

Subject: Abnormal Occurrence  
Report Number: AO 50-331/75-54  
Report Date: October 24, 1975  
Occurrence Date: October 17, 1975  
Facility: Duane Arnold Energy Center, Unit No. 1, Palo, Iowa

## Identification of Occurrence

Inoperable containment atmosphere dilution O<sub>2</sub> analyzers, reportable in accordance with Appendix A to Operating License DPR-49, Specifications 1.0.4.b and 3.7.A.6.C.

## Description of Occurrence

During the performance of Surveillance Test Procedure No. 47A014 - CAD System Analyzers Functional Test and Calibration, the "A" and "B" O<sub>2</sub> analyzers were determined to be inoperable.

## Designation of Apparent Cause of Occurrence

The cause of the occurrence was degradation of the O<sub>2</sub> cells in each analyzer.

## Analysis of Occurrence

The occurrence did not present an unsafe plant condition. Throughout the period since the last surveillance test, the primary containment has been maintained at a slightly positive pressure and deinerted. Also, the design intent of the O<sub>2</sub> analyzers is to indicate O<sub>2</sub> concentrations in the primary containment under DBA conditions. There were no such conditions during the period since the last surveillance test.

## Correction Action

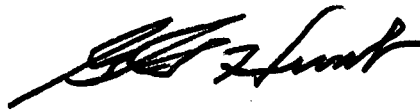
The O<sub>2</sub> cells in each of the O<sub>2</sub> analyzers were replaced with new cells. The O<sub>2</sub> analyzers were then calibrated and functionally tested. Also, a preventive maintenance procedure is being developed which will require a bi-weekly inspection of the O<sub>2</sub> cells in the O<sub>2</sub> analyzers.

Failure Data

Equipment description: Oxygen Cell  
Manufacturer: Delphi  
Model No: A2A-1A1

Conclusion

The DAEC Operations Committee reviewed this report on October 24, 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  
Duane Arnold Energy Center

DLW/GGH/mg