

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL  
(TEMPORARY FORM)

CONTROL NO: 2489

FILE: INCIDENT REPORT

FROM: Iowa Electric Light and Power Co. Cedar Rapids, Iowa Ellery L. Hammond		DATE OF DOC 2-28-75	DATE REC'D 3-5-75	LTR xxxx	TWX	RPT	OTHER
TO: Mr. James G. Keppeler		ORIG 1-signed	CC	OTHER	SENT AEC PDR xxxx SENT LOCAL PDR xx		
CLASS	UNCLASS xxx	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-331		

DESCRIPTION:

Ltr trans the following:

ENCLOSURES:

Abnormal Occurrence #75-8 on 2-18-75 concerning insufficient nitrogen supply stored in Containment Atmosphere Dilution System ....

PLANT NAME:

Duane Arnold

FOR ACTION/INFORMATION

3-7-75 JGB

BUTLER (S) W/ Copies	SCHWENCER (S) W/ Copies	ZIEMANN (S) W/ Copies	REGAN (E) W/ Copies
CLARK (S) W/ Copies	STOLZ (S) W/ Copies	DICKER (E) W/ Copies	LEAR (S) W/4 Copies
PARR (S) W/ Copies	VASSALLO (S) W/ Copies	KNIGHTON (E) W/ Copies	SPEIS (S) W/ Copies
KNIEL (S) W/ Copies	PURPLE (S) W/ Copies	YOUNGBLOOD (E) W/ Copies	

INTERNAL DISTRIBUTION

<u>REG FILE</u> NRC PDR OGC, ROOM P-506-A GOSSICK /STAFF CASE GIAMBUSSO BOYD MOORE (S) (BWR) DEYOUNG (S) (PWR) SKOVHOLT (S) GOLLER (S) P. COLLINS DENISE REG OFR FILE & REGION T.R. WILSON	<u>TECH REVIEW</u> SCHROEDER MACCARRY KNIGHT PAWLICKI SHAO STELLO HOUSTON NOVAK ROSS IPPOLITO TEDESCO LONG LAINAS BENAROYA STEELE VOLIMER	<u>DENTON</u> GRIMES GAMMILL CASTNER BALLARD SPANGLER  <u>ENVIRO</u> MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR  HARLESS	<u>LIC. ASST.</u> DIGGS (S) GEARIN (S) GOULBOURNE (S) KREUTZER (E) LEE (S) MAIGRET (S) REED (E) SERVICE (S) SHEPPARD (S) SLATER (E) SMITH (S) TEETS (S) WILLIAMS (E) WILSON (S) INGRAM (S)	<u>A/T IND</u> BRAITMAN SALTZMAN B. HURT  <u>PLANS</u> MCDONALD CHAPMAN DUBE w/input E. COUPE R. Hartfield (2) KLECKER F. WILLIAMS  Ao (4)
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EXTERNAL DISTRIBUTION

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TEETS

# IOWA ELECTRIC LIGHT AND POWER COMPANY

*General Office*

CEDAR RAPIDS, IOWA  
DUANE ARNOLD ENERGY CENTER  
PALO, IOWA  
FEBRUARY 28, 1975  
DAEC-75-90



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. DPR 50-331/75-8  
FILE: A-118a  
A-110

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. C. Feierabend, of your office, was notified of the occurrence during his site inspection on February 20, 1975.

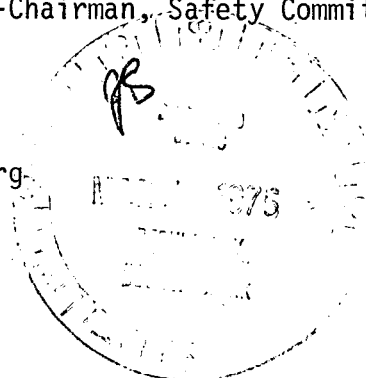
Very truly yours,

*Ellery L. Hammond*  
Ellery L. Hammond  
Assistant Chief Engineer  
Duane Arnold Energy Center

DLW:ELH:bh  
Enclosure

CC: E. G. Case  
C. W. Sandford  
J. A. Wallace  
G. G. Hunt  
B. R. York  
R. R. Rinderman  
L. D. Root

H. W. Rehrauer-Chairman, Safety Committee  
G. A. Cook  
D. L. Wilson  
J. V. Vinquist  
J. R. Newman  
O. C. Schellberg  
B. L. Hopkins



2489

MAR 3 1975

# IOWA ELECTRIC LIGHT AND POWER COMPANY

*General Office*

CEDAR RAPIDS, IOWA

Subject: Abnormal Occurrence  
Report Number: A.O. 50-331/75-8  
Report Date: February 28, 1975  
Occurrence Date: February 18, 1975 (Identified as Abnormal Occurrence  
February 20, 1975).  
Facility: Duane Arnold Energy Center, Unit #1, Palo, Iowa

## Identification of Occurrence

Insufficient nitrogen supply stored in Containment Atmosphere Dilution System (CAD), reportable in accordance with Appendix A to Operating License DPR-49, Specifications 1.0.4.b and 3.7.A.6.b.

## Description of Occurrence

During the performance of Surveillance Test Procedure No. 43A004 - Weekly Checks, it was determined that the amount of nitrogen stored in the CAD System was approximately 35,000 scf. The Technical Specification requirement (Specification 3.7.A.6.b) for stored nitrogen in the CAD System is  $\geq 50,000$  scf.

## Designation of Apparent Cause of Occurrence

The cause of the occurrence was personnel oversight. Plant personnel inadvertently did not verify that the minimum volume of nitrogen was stored in the CAD System when initial drywell inerting was completed on February 18, 1975. Reactor power operations had resumed the previous day following a scheduled shutdown.

## Analysis of Occurrence

It has been determined that the occurrence did not present an unsafe plant condition. The design intent of the CAD System is to provide a seven day supply of make-up nitrogen in the event the normal drywell nitrogen supply system is not capable of performing its design function. It is estimated that the 35,000 scf of nitrogen stored in the CAD System would have provided a five day supply of nitrogen make-up to the drywell. During the five day period, additional nitrogen could have been procured on an emergency basis.

2/18/75

Corrective Action

The Technical Specification requirement for a minimum of 50,000 scf of nitrogen storage was satisfied when two additional nitrogen storage bottles were valved-in to the CAD System on February 25, 1975. On February 26, 1975, the volume of nitrogen stored in the CAD System was increased to 68,000 scf when a nitrogen shipment arrived on site.

NOTE: Due to severe local weather conditions causing a delay in delivery of nitrogen to the site, the Nuclear Regulatory Commission approved a temporary change to Specification 3.7.A.6.b of the Technical Specifications on February 24, 1975. The temporary change increased from 7 to 9 days, the period during which the minimum nitrogen storage must be restored when the reactor is in power operations.

In order to prevent repetition of the occurrence, the volume of the nitrogen in the CAD System will be reported daily to the Administrative Supervisor, who will ensure that adequate nitrogen is on order to replenish that lost by normal leakage.



E. L. Hammond  
Assistant Chief Engineer  
Duane Arnold Energy Center

DLW:ELH:bh