

50-331

## NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

INCIDENT REPORT

TO:

Mr. James G. Keppler

FROM:

Iowa Electric & Power Company  
Cedar Rapids, Iowa  
G. G. Hunt

DATE OF DOCUMENT

6/24/76

DATE RECEIVED

6/30/76

☒ LETTER☐ NOTORIZED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

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No original

DESCRIPTION

Ltr. trans the following:

ENCLOSURE

Licensee Event Report (Update Report) (RO  
50-331/76-17) on 3/9/76 concerning MSIV's  
leaking greater than tech spec limit.

ACKNOWLEDGED

DO NOT REMOVE

(1-P)

(2-P)

PLANT NAME:

Duane Arnold

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED  
SEND DIRECTLY TO KREGER/J. COLLINS

SAFETY

FOR ACTION/INFORMATION

ENVIRO 7/1/76

RJL

☒ BRANCH CHIEF: Lear  
W/3 CYS FOR ACTION  
☒ LIC. ASST: Parrish  
W/7 CYS  
ACRS 16 CYS HOLDING/SENT TO LA

## INTERNAL DISTRIBUTION

☒ REG FILE  
☒ NRC PDR  
☒ I & E (2)  
☒ MIPC (3)  
☒ SCHROEDER/IPPOLITO  
☒ HOUSTON  
☒ NOVAK/CHECK  
☒ GRIMES  
☒ CASE  
☒ BUTLER  
☒ HANAUER  
☒ TEDESCO/MACCARY  
☒ EISENHUT  
☒ BAER  
☒ SHAO  
☒ VOLLMER/BUNCH  
☒ KREGER/J. COLLINS

## EXTERNAL DISTRIBUTION

☒ LPDR: Cedar Rapids, Iowa  
☒ TIC  
☒ NSIC

CONTROL NUMBER

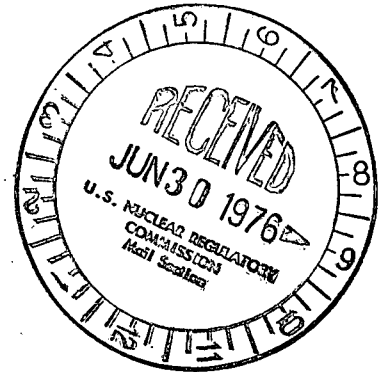
6543

# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER  
P. O. Box 351  
Cedar Rapids, Iowa 52406  
JUNE 24, 1976  
DAEC -76 -209

50-331

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: Licensee Event Report No. 76-17  
(14 day) UPDATE REPORT - PREVIOUS  
REPORT DATE 032376

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 and Regulatory Guide 10.1, please find attached a copy of the subject Licensee Event Report. (Total of 3 copies transmitted)

Very truly yours,

G. G. Hunt  
Chief Engineer  
Duane Arnold Energy Center

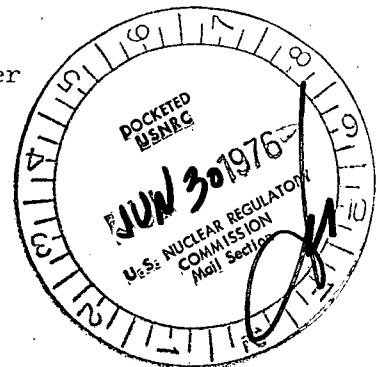
Docket 50-331

attachment

GGH/DLW/mg

cc: Director, Office of Inspection and Enforcement (40)  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Director, Management Information and Program Control (3)  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555



Regulatory Docket File  
6543

032376

[PLEASE PRINT ALL REQUIRED INFORMATION]

EVENT DESCRIPTION

CAUSE DESCRIPTIONPERSONNEL EXPOSURESPERSONNEL INJURIES

## OFFSITE CONSEQUENCES

LOSS OR DAMAGE TO FACILITY

## PUBLICITY

### ADDITIONAL FACTORS

NAME: M. Schwartz PHONE: 319-851-5611

PHONE: 319-851-5611

DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data

Licensee Event Report Date: 032376

Reportable Occurrence No: 76-17

DESCRIPTION OF OCCURRENCE

During scheduled local leak rate testing, MSIV's CV-4412, CV-4413, CV-4418, CV-4419, CV-4420 and CV-4421 were found to be leaking at greater than the Technical Specification surveillance limit of 11.5 SCFH. MSIV's CV-4415 and CV-4416 had been disassembled prior to the test and were assumed to have the same leakage problem. The test was performed by pressurizing the space between the inboard and outboard MSIV's of each main steam line and measuring the amount of makeup air required. The exact leak rate could not be determined because the test assembly could not make up the flow fast enough. Test personnel estimated that the leak rate was approximately three times greater than the limit. It was not possible to tell whether one or both valves were leaking, so it was assumed that both were.

CAUSE

The cause of the leakage was determined to be wear of the main and pilot valve disc and seating surfaces. This wear was caused by normal valve operation during plant service. MSIV CV-4415 had galling on the stem caused by contact with the junk ring. MSIV CV-4416 indicated similar but not as severe galling.

CORRECTIVE ACTION

All MSIV's had the main and pilot valve seats and discs lapped to remove the irregularities. MSIV CV-4415 had the stem and junk ring replaced. The stem on MSIV CV-4416 was worked on to remove the galling. The galling on the stem did not contribute to the leakage. All the MSIV's had the stems repacked and bonnet gaskets replaced and the valves were retested satisfactorily prior to startup.

Appropriate procedure steps will be added to existing local leak rate testing procedures where applicable to state necessity of testing prior to disassembly. This will be done prior to any future disassembly of MSIV's.

*D. Lasham*

# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER  
P. O. Box 351  
Cedar Rapids, Iowa 52406  
JUNE 24, 1976  
DAEC -76 -209

Mr. James G. Keppler, Director  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission-Region III  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

**50-331**

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(14 day) UPDATE REPORT - PREVIOUS  
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File: A-118a

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Very truly yours,



G. G. Hunt  
Chief Engineer  
Duane Arnold Energy Center

Docket 50-331

attachment

GGH/DLW/mg

cc: Director, Office of Inspection and Enforcement (40)  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Director, Management Information and Program Control (3)  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

JUN 28 1976

UPDATE REPORT -  
PREVIOUS REPORT DATE  
032376

**[PLEASE PRINT ALL REQUIRED INFORMATION]**

**EVENT DESCRIPTION**

SYSTEM CODE		CAUSE CODE		COMPONENT CODE					PRIMARY COMPONENT SUPPLIER	COMPONENT MANUFACTURER				VIOLATION	
C	D	E	V	A	L	V	E	X	N	R	3	4	0	N	
10		11	12					17	43	44				47	48

08	Slightly out-of-round pilot valve discs and surface irregularities on	
7 8 9		
09	main and pilot seats caused by normal operation. 4415 had galling on	80
7 8 9		
10	the stem, caused by contact with junk ring.	80
7 8 9		

FACILITY STATUS		% POWER			OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION	
11	H	0	0	0	NA	B	Local Leak Rate Testing			
7	8	9	10	11	12	13	14	15	16	17

FORM OF ACTIVITY RELEASED  
1 2  
7 8

CONTENT OF RELEASE  
Z  
9 10

AMOUNT OF ACTIVITY  
NA  
11 44

LOCATION OF RELEASE  
NA  
45 80

NUMBER				TYPE	DESCRIPTION
13	0	0	0	0	NA

NUMBER				DESCRIPTION	
1	4	0	0	0	NA

15	NA
7 8 9	

TYPE		DESCRIPTION
16	Z	NA

17	NA
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18	Event Desc. (contt) 4415, bonnet gasket and stem packing was replaced
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on all MSIV's. All valves were satisfactorily retested. RO 76-17

PHONE: 319-851-5611

DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data

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