

50-331

## NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

INCIDENT REPORT

TO: J.G. Keppler

FROM: Iowa Elec. & Power Co.  
Cedar Rapids, Iowa  
G.G. Hunt

DATE OF DOCUMENT

3-26-76

DATE RECEIVED

3-31-76

☐ LETTER☐ NOTORIZED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

☐ ORIGINAL  
☐ COPY☒ UNCLASSIFIED

1

## DESCRIPTION

Ltr. trans the following.....

## ENCLOSURE

LER # 76-012, on 3-26-76 Concerning fire on  
the exhaust manifold of diesel 1G 21.....

(1 Cy. Recieved)

PLANT NAME: Duane Arnold

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

## SAFETY

## FOR ACTION/INFORMATION

## ENVIRO

SAB 4-2-76

BRANCH CHIEF:

Lear

W/3 CYS FOR ACTION

LIC. ASST: .

Parrish

W/ CYS

ACRS 16 CYS ~~W/3 CYS~~ SENT TO LA

## INTERNAL DISTRIBUTION

REG FILE

NRC PDR

I &amp; E (2)

MIPC (3)

SCHROEDER/IPPOLITO

HOUSTON

NOVAK/CHECK

GRIMES/SCHWENCER

CASE

F. WILLIAMS

HANAUER

TEDESCO/MACCARY

EISENHUT

BAER

SHAO

VOLLMER/BUNCH

KREGER/J. COLLINS

## EXTERNAL DISTRIBUTION

## CONTROL NUMBER

LPDR: Cedar Rapids, Iowa

TIC

NSIC

3232

# IOWA ELECTRIC LIGHT AND POWER COMPANY

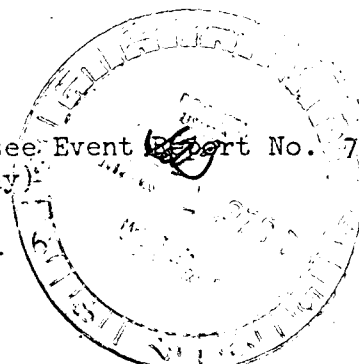
DUANE ARNOLD ENERGY CENTER  
P. O. Box 351  
Cedar Rapids, Iowa 52406  
DAEC - 76 - 75  
March 26, 1976



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. 76-012  
(30 day)

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

DLW/GGH/mg

cc: Director, Office of Inspection and Enforcement (30)  
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

3232

DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data

Licensee Event Report Date: 3/26/76

Reportable Occurrence No: 76-012

Description of Occurrence

During operational testing of the standby diesel generators on February 27, 1976, a small fire was experienced on the exhaust manifold of diesel 1G21. The fire was quickly extinguished by operating personnel who were observing the operation of the diesel.

A similar fire was experienced on the exhaust manifold of the same diesel on December 21, 1975 (See Abnormal Occurrence Report 75-70).

Cause

The cause of the occurrence was oil on the exhaust manifold insulation of the diesel. The oil apparently was leaking from the front cover plate on the diesel. A contributing cause to the occurrence was inadequate corrective action following a similar occurrence in December 1975.

The December 1975 fire was caused by oil leaking from the diesel front cover plate and the plugged access holes for an optional manual start mechanism. The planned corrective action at that time included the following items:

- a. Removal of old insulation and installation of temporary insulation.
- b. Installation of new insulation and a shield between the manifold insulation and potential sources of oil leaks.
- c. Installation of a different type of plug in the access holes for the optional manual start mechanisms, per vendor recommendations.
- d. Retorquing of diesel front cover plate bolts.

Items (a) and (d) above were completed shortly after the December 1975 fire. Item (c) was completed on January 23, 1976. Item (b) had not been completed at the time of the February 1976 fire due to a delay in procuring insulating materials.

Although the above corrective actions included retorquing of the front cover plate bolts, this action did not stop the oil leak and did not prevent a repetition of the occurrence. The lack of new insulation and shielding also contributed to the repetition of the fire.

DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data :

Continued

Licensee Event Report Date: 3/26/76

Reportable Occurrence No: 76-012

Analysis of Occurrence

Since redundant standby diesel generator 1G31 was operable during the fire, the occurrence did not present an unsafe plant condition.

Corrective Action

The front cover plate on diesel 1G21 was loosened and RTV compound was placed around the gasket. The bolts were then tightened in accordance with vendor torquing recommendations.

New insulation was installed on the exhaust manifold of 1G21 and an aluminum shield was installed to protect the manifold from potential oil leakage sources. The diesel generator was also functionally tested to verify operability. Also, the bolts were retorqued and RTV sealant was added to the front cover plate gasket on the other standby diesel generator, 1G31.

Operating personnel were directed to inspect the diesel generators and cleanup any oil leakage every two hours until the oil leakage problem is resolved.

# LICENSEE EVENT REPORT

CONTROL BLOCK: 1 2 3 4 5 6

(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME										LICENSE NUMBER										LICENSE TYPE										EVENT TYPE																													
01 I A D A C J										00-000000-00										41111										03																													
7 8 9 14 15 25 26 30 31 32																																																											
CATEGORY										REPORT TYPE										REPORT SOURCE										DOCKET NUMBER										EVENT DATE										REPORT DATE									
01 CONT										L										L										050-0331										022776										032676									
7 8 57 58 59 60 61 68 69 74 75 80																																																											

## EVENT DESCRIPTION

02 During the performance of operability testing, a small fire occurred on																																																																															
03 the exhaust manifold of diesel generator 1G21. Oil leaking on insul-																																																																															
04 ation was ignited by manifold heat. Immediately extinguished by operati																																																																															
05 ng personnel nearby. Redundant diesel was operable. RTV sealant added																																																																															
06 to front cover gasket and bolts retorqued. Manifold insulation replaced																																																																															
80																																																																															

SYSTEM CODE										CAUSE CODE										COMPONENT CODE										PRIME COMPONENT SUPPLIER										COMPONENT MANUFACTURER										VIOLATION									
07 E E										E										E N G I N E										A										F O I O										N									
7 8 9 10 11 12 17 43 44 47 48																																																											

## CAUSE DESCRIPTION

08 Oil on insulation resulting from front cover plate oil leak.																																																																															
09 Source of leak not adequately corrected following previous fire in Dec.																																																																															
10 1975																																																																															
80																																																																															

FACILITY STATUS										% POWER										OTHER STATUS										METHOD OF DISCOVERY										DISCOVERY DESCRIPTION									
11 H										000										NA										B										Surveillance testing									
7 8 9 10 12 13 44 45 46 80																																																	
FORM OF ACTIVITY RELEASED										CONTENT OF RELEASE										AMOUNT OF ACTIVITY										LOCATION OF RELEASE																			
12 Z										Z										NA										NA																			
7 8 9 10 11 44 45 80																																																	

## PERSONNEL EXPOSURES

NUMBER										TYPE										DESCRIPTION									
13 000										Z										NA									
7 8 9 11 12 13 80																													

## PERSONNEL INJURIES

NUMBER										DESCRIPTION									
14 000										NA									
7 8 9 11 12 80																			

## OFFSITE CONSEQUENCES

15 NA																																																																															
80																																																																															

## LOSS OR DAMAGE TO FACILITY

TYPE										DESCRIPTION									
16 D										Diesel exhaust manifold insulation.									
7 8 9 10 80																			

## PUBLICITY

17 NA																																																																															
80																																																																															

## ADDITIONAL FACTORS

18 Event Desc. Cont. - and protective shield installed. Cleaning of oil on diesel temp-																																																																															
19 orarily performed every 2 hours. Repeat occurrence. RO 76-012																																																																															
80																																																																															

NAME: D. Wilson

PHONE: 319-851-5611