

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

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
 ORIGINAL
 COPY

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 UNCLASSIFIED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED
1

DESCRIPTION
Ltr. trans the following.....

PLANT NAME: Duane Arnold

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

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					
<u>REG FILE</u>					
NRC PDR					
I & 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,

A handwritten signature in cursive script, appearing to read "G. G. Hunt".

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:

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[PLEASE PRINT ALL REQUIRED INFORMATION]

01	I	A	D	A	C	J	14	15	0	0	-	0	0	0	0	-	0	0	25	4	1	1	1	1	1	30	0	3	31	32
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01	CON'T	7	8	57	58	L	59	L	60	0	5	0	-	0	3	3	1	68	0	2	2	7	7	6	74	0	3	2	6	7	6	80
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EVENT DESCRIPTION

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

07	E	E	E	N	G	I	N	E	A	F	0	1	0	N	7	8	9	10	11	12	17	43	44	47	48
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CAUSE DESCRIPTION

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

11	H	0	0	0	NA	B	Surveillance testing	7	8	9	10	12	13	44	45	46	80	
12	Z	Z	NA				NA				7	8	9	10	11	44	45	80

PERSONNEL EXPOSURES

13	0	0	0	Z	NA	7	8	9	11	12	13	80
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PERSONNEL INJURIES

14	0	0	0	NA	7	8	9	11	12	80
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OFFSITE CONSEQUENCES

15	NA	7	8	9	80
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LOSS OR DAMAGE TO FACILITY

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

17	NA	7	8	9	80
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ADDITIONAL FACTORS

18	Event Desc. Cont. - and protective shield installed. Cleaning of oil on diesel temp-	7	8	9	80
19	orarily performed every 2 hours. Repeat occurrence. RO 76-012	7	8	9	80