

50-331

## NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

INCIDENT REPORT

TO:

Mr. James G. Keppler

FROM:

Iowa Electric Light & Power Co.  
Cedar Rapids, Iowa  
G. G. Hunt

DATE OF DOCUMENT

12/8/76

DATE RECEIVED

12/13/76

☒ LETTER  
☐ ORIGINAL  
☒ COPY☐ NOTORIZED  
☒ UNCLASSIFIED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

One signed copy

## DESCRIPTION

Ltr. trans the following:

PLANT NAME:

(1-P)

Duane Arnold

## ENCLOSURE

Licensee Event Report (RO 50-331/76-64) on 10/7/76 concerning engine being found to have broken lower vertical drive coupling hub, during surveillance test involving annual inspection of 1G-21 standby diesel generator.

ACKNOWLEDGED

(1-P)

DO NOT REMOVE

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

FOR ACTION/INFORMATION 12/14/76

RJL

☒ BRANCH CHIEF: Lear  
☒ W/3 CYS FOR ACTION  
☒ LIC. ASST.: Parrish  
☒ W/ CYS  
☒ ACRS 16 CYS HOLDING/SENT: Car. B. (12/14/76)

## INTERNAL DISTRIBUTION

☒ REG FILE  
☒ NRC PDR  
☒ I & E (2)  
☒ MIPC  
☒ 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

12658

# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER  
P. O. Box 351  
Cedar Rapids, Iowa 52406

December 8, 1976  
DAEC - 76 - 386

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. 76-64 UPDATE REPORT  
(14 day) PREVIOUS REPORT DATE 10/21/76

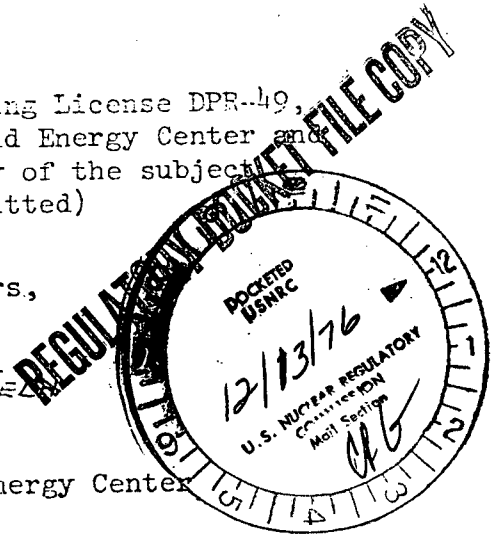
File: A-118a

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*  
G. G. Hunt  
Chief Engineer  
Duane Arnold Energy Center



Docket 50-331

attachment

GCH/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

12658

*[Handwritten signature]*

CONTROL BLOCK:

MADE PRINT ALL REQUIRED INFORMATION

LICENSEE NAME 01 1 A D A C 1														LICENSE NUMBER 0 0 - 0 0 0 0 0 0 - 0 0										LICENSE TYPE 4 1 1 1 1				EVENT TYPE 0 1	
7	8	9	14	15	25	26	30	31	32	CATEGORY 01 CONT				REPORT TYPE 57 58 T	REPORT SOURCE 59 60 L	DOCKET NUMBER 0 5 0 - 0 3 3 1				EVENT DATE 1 0 0 7 7 6				REPORT DATE 1 2 0 8 7 6					
7	8	9	57	58	59	60	61	68	69	74	75	80																	

## EVENT DESCRIPTION

02	During surveillance test involving annual inspection of 1G-21 standby d																																																																															
03	isel generator, engine was found to have broken lower vertical drive c																																																																															
04	oupling hub. Redundant diesel generator available and operable. Part re																																																																															
05	placed with one of proper material. Remaining like couplings in both di																																																																															
06	esels to be inspected for proper material and replaced if appropriate.																																																																															

SYSTEM CODE 07 E E		CAUSE CODE E		COMPONENT CODE E N G I N E				PRIME COMPONENT SUPPLIER A		COMPONENT MANUFACTURER C 4 7 0				VIOLATION Y		
7	8	9	10	11	12	13	14	15	16	17	43	44	45	46	47	48

## CAUSE DESCRIPTION

08	Hub made from wrong material as determined by vendor. Cast iron and sho																																																																															
09	uld have been ductile iron. Fairbanks Morse Engine, S/N38D871077TDSM12.																																																																															
10	Lower vertical drive coupling hub part no. 16-300-328.																																																																															

FACILITY STATUS 11 E		% POWER 0 9 4		OTHER STATUS NA				METHOD OF DISCOVERY B		DISCOVERY DESCRIPTION Surveillance Test Annual Insp.									
7	8	9	10	11	12	13	44	45	46										
FORM OF ACTIVITY RELEASED 12 Z		CONTENT OF RELEASE Z		AMOUNT OF ACTIVITY NA				LOCATION OF RELEASE NA											
7	8	9	10	11	12	13	44	45	46										

## PERSONNEL EXPOSURES

NUMBER 13 0 0 0		TYPE Z		DESCRIPTION NA											
7	8	9	11	12	13										

## PERSONNEL INJURIES

NUMBER 14 0 0 0		DESCRIPTION NA												
7	8	9	11	12										

## OFFSITE CONSEQUENCES

15 NA																																																																															
7	8	9																																																																													

## LOSS OR DAMAGE TO FACILITY

TYPE 16		DESCRIPTION NA																																																																														
7	8	9	10																																																																													

## PUBLICITY

17 NA																																																																															
7	8	9																																																																													

## ADDITIONAL FACTORS

18 Event Desc. Cont. - Investigation Continuing. Couplings to be inspected following																																																																															
19 each diesel operation pending verification of coupling material. (RD 76-64)																																																																															

NAME: D. Wilson

PHONE: 319-851-5611