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DOCDATE: 04/19/78
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SUBJECT: LTR 1 ENCL 1

LICENSEE EVENT REPT. NO. RD 50-331/78-020 CONCERNING THE LOWER CRANKSHAFT
MAIN THRUST BEARING OF STANDBY DIESEL GENERATOR 1G-31 BEING WIPED ON BOTH THE
JOURNAL & THRUST SURFACE.

PLANT NAME: DUANE ARNOLD

REVIEWER INITIAL: XRL

DISTRIBUTOR INITIAL: *ml*

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(DISTRIBUTION CODE A002)

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DISTRIBUTION: LTR 45 ENCL 45
SIZE: 1P+1P+1P

CONTROL NBR: 781160095

***** THE END *****

IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER

P. O. Box 351

Cedar Rapids, Iowa 52406

April 19, 1978

DAEC - 78 - 224

US NRC
DIST. DIVISION SERVICES
BRANCH

1978 APR 24 PM 1 26

RECEIVED DISTRIBUTION
SERVICES UNIT

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. 78-020
(14 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,

Ellery L. Hammond

Ellery L. Hammond
Chief Engineer
Duane Arnold Energy Center

Docket 50-331

attachment

ELH/JVS/nf

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

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781160095

A002
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1/1

LICENSEE EVENT REPORT

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58

LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT

REPORT SOURCE: 7 8 01

DOCKET NUMBER: 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

EVENT DATE: 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

REPORT DATE: 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | During the annual inspection of standby diesel generator 1G-31 the lower
0 3 | crankshaft main thrust bearing was found wiped on both the journal and t
0 4 | hrust surfaces. The bearing was also out-of-alignment and had rotated su
0 5 | fficiently to shear the bearing dowel pin. Further investigation reveal
0 6 | ed the generator bearing had been "creeping" slightly on the generator s
0 7 | haft. Redundant standby diesel 1G-21 annual inspection found none of the
0 8 | ise problems and 1G-21 is operable. Ref. T.S. 3.8.A.2. See also RO 77-32.

SYSTEM CODE [0] [9]		CAUSE CODE [E] [E]		CAUSE SUBCODE [B]		COMPONENT CODE [E] [N] [G] [I] [N] [E]				COMP. SUBCODE [Z]		VALVE SUBCODE [Z]	
7	8	9	10	11	12	13	14	15	16	17	18	19	20
LER/RO REPORT NUMBER [17]		EVENT YEAR [7] [8]		SEQUENTIAL REPORT NO. [0] [2] [0]		OCCURRENCE CODE [0] [1]		REPORT TYPE [T]		REVISION NO. [0]			
21	22	23	24	25	26	27	28	29	30	31	32		
ACTION TAKEN [A]		FUTURE ACTION [X]		EFFECT ON PLANT [Z]		SHUTDOWN METHOD [Z]		HOURS [0] [0] [0] [0]		ATTACHMENT SUBMITTED [Y]			
33	34	35	36	37	38	39	40	41	42	43	44		
NPRD-4 FORM SUB. [N]		PRIME COMP. SUPPLIER [A]		COMPONENT MANUFACTURER [C] [4] [7] [0]									
45	46	47	48	49	50								

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Unknown. Vendor is currently conducting an investigation to determine the event cause. The diesel bearing and bearing saddle and the generator bearing have been replaced. The engine and generator were aligned and are currently being tested.

1 4

7 8 9 80

FACILITY STATUS (28) H (29) 0 0 0 (30) NA (31) B (32) Annual Surveillance Test
 ACTIVITY CONTENT RELEASED OF RELEASE (33) Z (34) Z (35) NA (36) LOCATION OF RELEASE
 PERSONNEL EXPOSURES NUMBER (37) 0 0 0 (38) Z (39) NA
 PERSONNEL INJURIES NUMBER (40) 0 0 0 (41) NA
 LOSS OF OR DAMAGE TO FACILITY TYPE (42) Z (43) NA
 PUBLICITY ISSUED (44) N (45) NA
 NRC USE ONLY

NAME OF PREPARER J. Van Sickel

PHONE: 319-851-5611

NRC USE ONLY

DOANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data

Docket Number 050-0331

Licensee Event Report Date: 4-19-78

Reportable Occurrence No: 78-020

Event Description

During the annual inspection of standby diesel generator 1G-31 the lower crankshaft main thrust bearing was found wiped on both the journal and thrust surfaces. The bearing was also out-of-alignment and had rotated sufficiently to shear the bearing dowel pin. Further investigation revealed the generator bearing had been "creeping" slightly on the generator shaft. Redundant standby diesel 1G-21 annual inspection found none of these problems and 1G-21 is operable. Standby diesel generator operability requirements listed in Technical Specification 3.8.A.2. There has been one previous similar event (See RO 77-32).

Cause Description

A definite cause has not yet been determined. The vendor is currently conducting an investigation the results of which should be available in the near future.

Corrective Action

The diesel thrust bearing and bearing saddle and the generator bearing have been replaced. The engine and generator were aligned and are currently being tested. No more corrective actions are planned unless necessitated by the results of the vendor investigation.