

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8708180406 DOC. DATE: 87/08/13 NOTARIZED: NO DOCKET #  
 FACIL: 50-331 Duane Arnold Energy Center, Iowa Electric Light & Pow 05000331  
 AUTH. NAME AUTHOR AFFILIATION  
 CREW, V. J. Iowa Electric Light & Power Co.  
 HANNEN, R. L. Iowa Electric Light & Power Co.  
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-025-00: on 870720, diesel fire pump inoperable for greater than 7 days. Caused by inadequate procedural guidance given by vendor. Repair procedure being revised & vendor made aware of deficiency in generic procedure. W/870813 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 3  
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	PD3-1 LA	1 1	PD3-1 PD	1 1
	CAPPUCCI, A	1 1		
INTERNAL:	ACRS MICHELSON	1 1	ACRS MOELLER	2 2
	AEOD/DOA	1 1	AEOD/DSP/NAS	1 1
	AEOD/DSP/ROAB	2 2	AEOD/DSP/TPAB	1 1
	DEDRO	1 1	NRR/DEST/ADE	1 0
	NRR/DEST/ADS	1 0	NRR/DEST/CEB	1 1
	NRR/DEST/ELB	1 1	NRR/DEST/ICSB	1 1
	NRR/DEST/MEB	1 1	NRR/DEST/MTB	1 1
	NRR/DEST/PSB	1 1	NRR/DEST/RSB	1 1
	NRR/DEST/SGB	1 1	NRR/DLPQ/HFB	1 1
	NRR/DLPQ/QAB	1 1	NRR/DOEA/EAB	1 1
	NRR/DREP/RAB	1 1	NRR/DREP/RPB	2 2
	NRR/PMAS/ILRB	1 1	<del>REG FILE</del> 02	1 1
	RES DEPY G1	1 1	RES TELFORD, J	1 1
	RES/DE/EIB	1 1	RGN3 FILE 01	1 1
EXTERNAL:	EG&G GROH, M	5 5	H ST LOBBY WARD	1 1
	LPDR	1 1	NRC PDR	1 1
	NSIC HARRIS, J	1 1	NSIC MAYS, G	1 1

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)  
Duane Arnold Energy Center (DAEC)

DOCKET NUMBER (2)

0 5 0 0 0 3 3 1 1 OF 0 2

PAGE (3)

TITLE (4)

Diesel Fire Pump Inoperability for Greater Than Seven Days

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)					
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES	DOCKET NUMBER(S)				
0	7	2	5	8	7	8	7	0	2	5	0	0	0	0
0	7	2	5	8	7	0	2	5	0	0	0	8	1	3
8	7	0	0	0	8	1	3	8	7	0	5	0	0	0

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)									
N	20.402(b)									
POWER LEVEL (10) 0 1 2 1 2	20.405(a)(1)(i)									
	20.405(a)(1)(ii)									
	20.405(a)(1)(iii)									
	20.405(a)(1)(iv)									
	20.405(a)(1)(v)									
	20.405(c)									
	50.38(c)(1)									
	50.38(c)(2)									
	50.73(a)(2)(i)									
	50.73(a)(2)(ii)									
	50.73(a)(2)(iii)									
	50.73(a)(2)(iv)									
	50.73(a)(2)(v)									
	50.73(a)(2)(vi)									
	50.73(a)(2)(vii)									
	50.73(a)(2)(viii)(A)									
	50.73(a)(2)(viii)(B)									
	50.73(a)(2)(ix)									
	50.73(a)(2)(x)									
	73.71(b)									
	73.71(c)									
	X OTHER (Specify in Abstract below and in Text, NRC Form 366A)									
	SPECIAL REPORT									

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
Valerie J. Crew, Technical Support Engineer	3 1 1 9 8 5 1 1 - 7 4 3 3

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC
D	FIS	PC	470	N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
X					

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On July 13, 1987 at 1925 hours, with the reactor at 22% the diesel fire pump was declared inoperable. At 1925 hours on July 20, 1987 the pump had been inoperable for greater than 7 days. Per DAEC Technical Specifications this requires submitting a Special Report to the Commission. The pump was restored to operable at 2216 hours on July 20, 1987.

The cause of this event was an inadequate procedural guidance given by the Vendor. The Vendor was notified and DAEC procedures are being revised to include separate impeller adjustment procedures for new and inservice pumps.

The electric fire pump was operable throughout the period of diesel fire pump inoperability.

This report is being submitted to the Commission as a Special Report pursuant to the requirements of DAEC Technical Specifications 3.13.B.2 and 6.11.

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PDR ADOCK 05000331  
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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
Duane Arnold Energy Center (DAEC)	0 5 0 0 0 3 3 1	8 7	— 0 2 5	— 0 0	0 2	OF 0 2

TEXT (If more space is required, use additional NRC Form 366A's) (17)

On July 13, 1987 at 1925 hours, with the reactor at 22%, the diesel (EIIS Code FS-P-49) fire pump was declared inoperable when it failed to reach the required pressure at the required flow.

The pump impeller was adjusted and the associated instruments were calibrated. Upon retest the pump still could not reach the required pressure at the required flow and the pump was then rebuilt.

During the repair the impeller adjustment procedure provided by the Vendor was noted to be inadequate. After a conversation with the Vendor, it was determined that the procedure was generic for new pumps, and did not work well for rebuilt pumps already in service. It is believed that with the correct impeller adjustment procedure, the pump would not have had to be rebuilt. Therefore, the 7 day Limiting Condition for Operation would not have been exceeded.

As corrective actions to this event, the repair procedure for this pump is being revised to note the difference in procedures between new and inservice pumps. Also the vendor was made aware of the deficiency in the generic procedure.

At 1925 hours on July 20, 1987, the pump had been inoperable for greater than 7 days. The pump was installed and declared operable at 2216 hours on the same date. Duane Arnold Energy Center (DAEC) Technical Specifications Section 3.13.B.2 states, "When only one pump is operable, restore the second fire pump to operable status within 7 days or prepare and submit a Special Report to the Commission pursuant to specification 6.11 within the next 30 days outlining the plans and procedures to be used to provide for the loss of redundancy in this system." This report is being submitted to the Commission as a Special Report pursuant to the requirements of DAEC Technical Specifications 3.13.B.2 and 6.11.

The capability exists at the DAEC to supply water to the fire suppression system from either the General Service Water System (EIIS System Code KG) or the Well Water System. Alignment to either of these alternate water supplies could be achieved within 20 minutes in the event of a failure of the electric fire pump (EIIS Code KP-P-48) concurrent with a fire suppression system demand. The electric fire pump was operable throughout this period of diesel fire pump inoperability.

Iowa Electric Light and Power Company

August 13, 1987

DAEC-87-0860

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D. C. 20555

Subject: Duane Arnold Energy Center  
Docket No. 50-331  
Op. License DPR-49  
Licensee Event Report No. 87-025

Gentlemen:

In accordance with 10 CFR 50.73 please find attached a copy of the  
subject Licensee Event Report.

Very truly yours,

*Gay Van Mollen* for RLH  
Rick L. Hannen  
Plant Superintendent - Nuclear

RLH/VJC/go

Attachment - LER 87-025

cc: Mr. A. Bert Davis  
Regional Administrator  
Region III  
U. S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, IL 60137

NRC Resident Inspector - DAEC

File A-118a

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