

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Duane Arnold Energy Center DOCKET NUMBER (2) 050003311 PAGE (3) 1 OF 012

TITLE (4)
Electric Fire Pump Inoperable for Longer Than 7 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	9	06	8	4	8	4	0	3	3	0	0	0	9	2	8	8	4	0	5	0	0	0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

OPERATING MODE (9) <u>N</u>	20.402(b)	20.406(c)	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) <u>100</u>	20.406(a)(1)(i)	50.38(c)(1)	50.73(a)(2)(v)	73.71(c)
	20.406(a)(1)(ii)	50.38(c)(2)	50.73(a)(2)(vii)	<input checked="" type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 365A)
	20.406(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	<u>Special Report</u>
	20.406(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
	20.406(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
<u>James C. Smith, Technical Support Engineer</u>	<u>319851-17308</u>
AREA CODE	
<u>319</u>	<u>851-17308</u>

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS
<u>X</u>	<u>KIP</u>	<u>P</u>	<u>C4710</u>	<u>No</u>					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

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

During normal full power operations on August 30, 1984, the Electric Fire Pump failed to meet the flow requirements of Technical Specification 4.13.B.1.e. The Diesel Fire Pump was proven operable and the plant entered a 7 day limit for pump inoperability in accordance with Technical Specification 3.13.B.2. The Maintenance Department attempted to procure pump repair parts. When it became apparent that parts would not be obtained within 7 days, Maintenance attempted to adjust the pump impeller to increase flow. Maintenance's efforts were successful but the pump operability test was not completed until after the 7 day limit had expired. Consequently, a special report to the Commission is being issued according to Technical Specification 3.13.B.2.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Duane Arnold Energy Center	DOCKET NUMBER (2) 0 5 0 0 0 3 3 1 8 4	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		84	033	00	02	OF	02

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

At 0930 on August 30, 1984, the Electric Fire Pump (KP-P-48) was declared inoperable because it failed to meet the flow requirement of Technical Specification 4.13.B.1.e. The Technical specification for pump flow is 3100 gpm at a discharge pressure of 112 psig. Tested pump flow was approximately 3050 at 111 psig. The Diesel Fire Pump was proven operable and the plant entered a 7 day limit for pump inoperability in accordance with Technical Specification 3.13.B.2. It was felt at the time that the degraded flow was due to the failure of the minimum flow bypass valve to close because problems with this valve had caused the Electric Fire Pump to be declared inoperable earlier on August 20 (repair to the valve the same day restored operability). However, the Maintenance Department determined that although there was a small amount of leakage past the bypass valve, the pump itself was the major cause of the problem. Maintenance determined that the best solution was to rebuild the pump using new parts and procurement efforts began.

When it became apparent that new parts could not be procured before 7 days, the Maintenance Department attempted to adjust the pump impeller to increase flow. This attempt was successful but the test proving that the pump was operable was not completed until approximately 30 minutes after the 7 day limit had expired (0959 on September 16, 1984). The pump will be rebuilt at a later time when replacement parts are received. It should be mentioned that the plant experienced a fire in the 'A' Cooling Tower Breaker House on September 5, 1984. All Fire Protection System equipment performed as designed and the Diesel Fire Pump was not activated. This Special Report to the Commission is being submitted in accordance with Technical Specification 3.13.B.2 which 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."

Iowa Electric Light and Power Company

September 24, 1984

DAEC-84-598

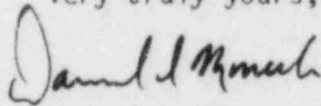
U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

Subject: Duane Arnold Energy Center
Docket No. 50-331
Op. License DPR-49
Licensee Event Report No. 84-033

Gentlemen:

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

Very truly yours,



Daniel L. Mineck
Plant Superintendent - Nuclear
Duane Arnold Energy Center

DLM/JCS/kp

attachment

cc: Mr. James G. Keppler
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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