

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Duane Arnold Energy Center										DOCKET NUMBER (2) 0 5 0 0 0 3 3 1 1										PAGE (3) 1 OF 0 2			
TITLE (4) Inoperability of Fire Pumps																							
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	5	2	9	8	5	8	5	0	1	5	0	0	0	6	2	8	8	5	0	5	0	0	0
OPERATING MODE (9) N		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)																					
POWER LEVEL (10) 0 0 0		20.402(b)				20.406(c)				50.73(a)(2)(iv)				73.71(b)									
		20.406(a)(1)(i)				50.36(c)(1)				50.73(a)(2)(v)				73.71(c)									
		20.406(a)(1)(ii)				50.36(c)(2)				50.73(a)(2)(vii)				<input checked="" type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 366A)									
		20.406(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)				Special Report									
		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 Kenneth S. Putnam, Technical Support Engineer												TELEPHONE NUMBER 3 1 9 8 5 1 1 - 7 4 5 6											
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																							
CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPDOS		CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPDOS													
X	KIP	PIIPIE	B11310	No																			
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR							
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input checked="" type="checkbox"/> NO											

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

On May 29, 1985, with the reactor shut down for refueling, maintenance activities required the draining of the circulating water/fire pump pit. Consequently both the electric and the diesel-powered fire pumps were removed from service as the circulating water/fire pump pit is their sole source of water. A well water pump was aligned to the fire suppression system to provide adequate fire suppression water. On May 31, 1985 construction activities resulted in a pipe rupturing the fire main in the vicinity of the well water tie to the main. Temporary measures were promptly taken to ensure adequate fire protection was available. The damaged piping was isolated and repaired within a few hours. This event is reported under the requirements of Duane Arnold Energy Center Technical Specification, Section 3.13.B.3.b as a special report.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

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

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

At 1712 hours on May 29, 1985, the electric and the diesel-powered fire pumps were removed from service in anticipation of draining the circulating water/fire pump pit for maintenance activities. Backup fire suppression water was established via a cross-tie to the well water system. Although the plant was in cold shutdown at the time the pumps were taken out of service, the fire suppression system was required to be operable to protect safety-related equipment that was required for fuel movements in progress during the period. The backup fire suppression water system (well water) was capable of providing adequate protection for the required systems.

At 1329 hours on May 31, 1985, pile driving activities for a new site building damaged a section of the main fire header near the well water cross-tie to the fire suppression system. The resulting leakage required securing the well water pump that was supplying backup fire suppression water to permit repairs. As a consequence, the fire suppression system was depressurized. Fuel moving operations were terminated and fire watches were established to compensate for the loss of fire suppression water. The section of damaged piping was isolated and repairs were initiated. The operable section of the main fire header was repressurized using the jockey fire pump and the electric fire pump was returned to service by 1650 hours. (Although the normal fire pumps were removed from service there was an adequate water supply in the circulating water pit at the time of the damage.)

By 1820 hours the deluge and sprinkler systems of the Turbine Building were returned to service. By 1930 hours the Reactor Building sprinkler, deluge, and hose stations were returned to service via temporary hoses, ending the need for continuous fire watches in the area.

At 2117 hours the repair of the damaged section of the main fire header was completed and the fire suppression system was returned to the pre-damage status with fire suppression water capacity being supplied via the cross-tie to the well water system.

The circulating water pit was subsequently drained down and maintenance activities completed. At 1628 hours on June 1, 1985, water reserve capacity was restored to the circulating water/fire pump pit and the electric fire pump returned to normal service. At 1945 hours testing of the diesel fire pump was completed, restoring the fire suppression water system to fully operational status.

This report is submitted as a special report pursuant to the requirements of Duane Arnold Energy Center Technical Specification, Sections 3.13.B.3.b and 6.11.3.f.

Iowa Electric Light and Power Company

June 26, 1985

DAEC-85-0534

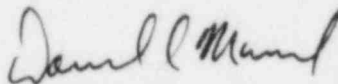
U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

Subject: Duane Arnold Energy Center
Docket No. 50-331
Op. License DPR-49
Licensee Event Report No. 85-015

Gentlemen:

In accordance with Duane Arnold Energy Center Technical Specification, Sections 3.13.B.3.b and 6.11.3.f 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/KSP/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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