

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)  
Duane Arnold Energy Center

DOCKET NUMBER (2)

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

TITLE (4)

Both Emergency Diesel Generators Inoperable

EVENT DATE (6)			LER NUMBER (8)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES	DOCKET NUMBER(S)
0 8	0 5	8 5	8 5	0 3 3	0 0 0 9	0 4	8 5		None	0 5 0 0 0
										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	<table border="1"><tr><td>20.402(b)</td><td>20.406(e)</td><td>50.73(a)(2)(iv)</td><td>73.71(b)</td></tr><tr><td>20.406(a)(1)(i)</td><td>50.38(a)(1)</td><td>50.73(a)(2)(v)</td><td>73.71(c)</td></tr><tr><td>20.406(a)(1)(ii)</td><td>50.38(a)(2)</td><td>50.73(a)(2)(vi)</td><td>OTHER (Specify in Abstract below and in Text, NRC Form 306A)</td></tr><tr><td>20.406(a)(1)(iii)</td><td>50.73(a)(2)(i)</td><td>50.73(a)(2)(viii)(A)</td><td></td></tr><tr><td>20.406(a)(1)(iv)</td><td>50.73(a)(2)(ii)</td><td>50.73(a)(2)(viii)(B)</td><td></td></tr><tr><td>20.406(a)(1)(v)</td><td>50.73(a)(2)(iii)</td><td>50.73(a)(2)(ix)</td><td></td></tr></table>	20.402(b)	20.406(e)	50.73(a)(2)(iv)	73.71(b)	20.406(a)(1)(i)	50.38(a)(1)	50.73(a)(2)(v)	73.71(c)	20.406(a)(1)(ii)	50.38(a)(2)	50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 306A)	20.406(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)		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)(ix)	
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20.406(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)																							
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)(ix)																							

NAME  
James C. Smith, Acting Technical Support Supervisor

TELEPHONE NUMBER

AREA CODE

3 1 9 8 5 1 - 7 2 3 8

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)										
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	

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)

On 8/5/85, the plant was in run mode at approximately 79% power. In preparation for removing the "A" Emergency Diesel Generator (EDG) from service for a quarterly scavenging air blower inspection, an operability test was performed on the "B" diesel. A fuel oil quality test for the "B" diesel was also performed. The operability test was successfully concluded and the "A" EDG was taken out of service. The plant entered a voluntary 7 day Limiting Condition for Operation (LCO). However, when tests of the fuel samples taken from the "B" EDG day tank were completed, it was found that sediment levels in the samples were slightly higher than specified by Technical Specification 4.8.A.1.d. which references ASTM D975-68. Therefore, even though the operability test on the "B" diesel had been satisfactory, it was declared inoperable. Since both EDG's were then inoperable, an Unusual Event was declared and the plant entered a 24 hour LCO and began reducing power in accordance with Technical Specification 3.5.G.1.

The "A" EDG was returned to service, thus ending the 24 hour LCO. Filtered recirculation of the "B" EDG day tank was performed and the fuel quality test was successfully concluded on 8/6/85, returning the "B" EDG to operable condition.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1)  Duane Arnold Energy Center	DOCKET NUMBER (2)  05000331	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		85	033	00	02	OF	02

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

On 8/5/85, the plant was in run mode at approximately 79% power. A quarterly inspection of scavenging air blower lobe clearances was to be performed on the "A" Emergency Diesel Generator (EDG) (EIIIS System EK), which requires partial blower disassembly. Consequently, operability testing for the "B" EDG was performed in accordance with Technical Specification 4.5.G.1. A fuel oil quality sample was obtained for analysis from the "B" fuel oil day tank. The operability test was successfully performed at 2131 hours on 8/4 and the "A" diesel was removed from service at 0753 hours on 8/5. The plant then entered a voluntary 7 day Limiting Condition for Operation (LCO) in accordance with Technical Specification 3.5.G.1 (one inoperable EDG).

However, when tests of the fuel oil samples taken from the "B" EDG day tank were completed, it was determined that the sediment levels were above those specified in Technical Specification 4.8.A.1.d. which references ASTM D975-68. Specifically, the ASTM specifies an acceptance criteria of 0.05% and the tests results indicated 0.10% for water/sediments. Even though operation of the "B" EDG was satisfactorily demonstrated in the operability test, it was declared inoperable at 1552 hours. Since both EDG's were then considered inoperable, an Unusual Event was declared and the plant entered a 24 hour LCO and commenced reducing power in accordance with Technical Specification 3.5.G.1.

At 1918 hours, the "A" EDG was returned to service following completion of maintenance and successful testing, thereby ending the 24 hour LCO. Filtered recirculation of the "B" fuel oil day tank was performed and the fuel quality test was completed successfully. The "B" EDG was declared operable at 0953 hours on 8/6/85 which ended the 7 day LCO that had been entered for one diesel generator inoperable on 8/5 at 0753 hours. A study group is being established to determine the cause of the fuel sediment problem. As an interim measure, periodic filtering of the Emergency Diesel Generator day tanks has been incorporated into the Preventive Maintenance program. This event is being reported in accordance with 10CFR50.73(a)(2)(v) and (vi) as "any event or condition that alone could have prevented the fulfillment of the safety function ..." which includes "one or more ... equipment failures". It is noted, however, that the B diesel generator remained functional through out this period.

Iowa Electric Light and Power Company

September 4, 1985

DAEC-85-0766

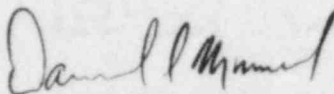
U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D. C. 20555

Subject: Duane Arnold Energy Center  
Docket No. 50-331  
Op. License DPR-49  
Licensee Event Report No. 85-033

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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