

### LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) LaSalle County Nuclear Station, Unit 2	DOCKET NUMBER (2) 050000 274	PAGE IS 1 OF 3
---	---------------------------------	-------------------

TITLE (4)  
D/G Output Breaker Failure to Close Due to Faulty Contacts

EVENT DATE (6)			LER NUMBER (8)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (9)																																		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)																																
01	14	86	86	001	00	02	05	86			050000																																
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">OPERATING MODE (9)</td> <td style="width:15%;">1</td> <td style="width:15%;">20.402(b)</td> <td style="width:15%;">20.408(e)</td> <td style="width:15%;">80.73(a)(2)(iv)</td> <td style="width:15%;">73.71(b)</td> </tr> <tr> <td rowspan="2">POWER LEVEL (10)</td> <td rowspan="2">0.818</td> <td>20.408(a)(1)(i)</td> <td>80.36(e)(1)</td> <td>80.73(a)(2)(v)</td> <td>73.71(e)</td> </tr> <tr> <td>20.408(a)(1)(ii)</td> <td>80.36(e)(2)</td> <td>80.73(a)(2)(vi)</td> <td>X OTHER (Specify in Abstract below and in Text, NRC Form 306A)</td> </tr> <tr> <td colspan="2"></td> <td>20.408(a)(1)(iii)</td> <td>80.73(a)(2)(ii)</td> <td>80.73(a)(2)(vii)(A)</td> <td rowspan="3">Special</td> </tr> <tr> <td colspan="2"></td> <td>20.408(a)(1)(iv)</td> <td>80.73(a)(2)(iii)</td> <td>80.73(a)(2)(vii)(B)</td> </tr> <tr> <td colspan="2"></td> <td>20.408(a)(1)(v)</td> <td>80.73(a)(2)(iv)</td> <td>80.73(a)(2)(ix)</td> </tr> </table>												OPERATING MODE (9)	1	20.402(b)	20.408(e)	80.73(a)(2)(iv)	73.71(b)	POWER LEVEL (10)	0.818	20.408(a)(1)(i)	80.36(e)(1)	80.73(a)(2)(v)	73.71(e)	20.408(a)(1)(ii)	80.36(e)(2)	80.73(a)(2)(vi)	X OTHER (Specify in Abstract below and in Text, NRC Form 306A)			20.408(a)(1)(iii)	80.73(a)(2)(ii)	80.73(a)(2)(vii)(A)	Special			20.408(a)(1)(iv)	80.73(a)(2)(iii)	80.73(a)(2)(vii)(B)			20.408(a)(1)(v)	80.73(a)(2)(iv)	80.73(a)(2)(ix)
OPERATING MODE (9)	1	20.402(b)	20.408(e)	80.73(a)(2)(iv)	73.71(b)																																						
POWER LEVEL (10)	0.818	20.408(a)(1)(i)	80.36(e)(1)	80.73(a)(2)(v)	73.71(e)																																						
		20.408(a)(1)(ii)	80.36(e)(2)	80.73(a)(2)(vi)	X OTHER (Specify in Abstract below and in Text, NRC Form 306A)																																						
		20.408(a)(1)(iii)	80.73(a)(2)(ii)	80.73(a)(2)(vii)(A)	Special																																						
		20.408(a)(1)(iv)	80.73(a)(2)(iii)	80.73(a)(2)(vii)(B)																																							
		20.408(a)(1)(v)	80.73(a)(2)(iv)	80.73(a)(2)(ix)																																							

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

LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER	
NAME Harold T. Vinyard, Technical Staff Engineer, ext. 499		AREA CODE 815	357 1676

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
X	EK	RLY	P297	Y					

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)

During the performance of LOS-DG-M1 (Diesel Generator Operability Surveillance) the "0" Diesel Generator output breaker (ACB 2413) failed to close onto ESF Bus 241Y as required. The "0" Diesel Generator was subsequently shut down and a Work Request initiated to solve the problem. This event was a valid diesel generator test failure. The cause of the breaker failing to close was attributed to a pair of bad contacts associated with relay K55. K55 provides diesel generator output breaker close permissive when the diesel is at rated speed. All other contacts associated with this relay were verified to operate properly. The wiring was changed to utilize a pair of unused contacts on relay 50 in the output breaker closing circuit. This relay will be changed out once a new relay becomes available. The consequences of this event were minimal since Division II and Division III Emergency Core Cooling systems were operable. The Reactor Core Isolation Cooling system was also available. At the time of this event Unit 2 was operating at 88% power. This special report of a diesel failure is required by Technical Specification 4.8.1.1.3.

B602210062 B60205  
PDR ADOCK 05000374  
S PDR

IC22  
1/1

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (5)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
LaSalle County Station Unit 2	0500037486	-	001	-	00	02 OF 03

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

I. EVENT DESCRIPTION

During the performance of LOS-DG-M1 (Diesel Generator Operability Surveillance) the "0" Diesel Generator (DG, EK) (Division I) output breaker (ACB 2413) failed to close onto ESF Bus 241Y (AP, EB) as required. The "0" Diesel Generator was subsequently shut down and Work Request L55404 initiated to resolve the problem. The "0" Diesel Generator was out of service at the time of this event for post-modification testing. At the time of this event Unit 2 was operating at 88% power.

II. CAUSE

The reason for the diesel generator output breaker failing to close was attributed to a set of faulty contacts associated with relay K55. This relay will energize once the diesel generator achieves a speed of 870 RPM. This relay, when energized, provides a permissive to the diesel generator output breaker closing coil which allows the breaker to close, provided all other permissives for closure are satisfied. The relay did energize as required, but contacts E1-D1 failed to close as designed. This failure consequently blocked the closure of ACB 2413. All other contacts associated with relay K55 were verified to operate properly.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

The consequences of this occurrence were minimal since Division II and Division III Diesel Generator systems were fully operable. The Reactor Core Isolation Cooling system (RI, BN) was also available. In addition, the control circuit for the unit cross-tie breaker between ESF Buses 142Y and 242Y was modified to allow breaker closure with diesel generator 1A feeding Bus 142Y. This essentially provided an additional source of emergency power for Division II ECCS systems. All ECCS systems were fully operable.

This electrical configuration was in accordance with Unit 2 Technical Specification 3.8.1.1, Amendment 16, for extended outage work in the "0" Diesel Generator (lube oil modification).

This event has been classified as a Unit 2 diesel generator valid test failure. This is the first such failure in the last 100 valid tests for Unit 2 and therefore in compliance with NRC Regulatory Guide 1.108 and Technical Specification 4.8.1.1.2, the current test interval remains 31 days. This report fulfills the requirements of Specification 4.8.1.1.3.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 6	0 0 1	0 0	0 3	OF	0 3

LaSalle County Station Unit 2

0 5 0 0 0 3 7 4

TEXT (if more space is required, use additional NRC Form 308A's) (17)

IV. CORRECTIVE ACTION

Work Request L55404 was immediately initiated to resolve the problem. Subsequent investigation under this Work Request revealed contacts E1/D1 of relay K55 failed to close as designed with the relay energized. All other contacts associated with this relay were verified to operate properly.

Since this type of relay (Potter & Brumfield MDR 138-8) was not in stock at the time of this event, the wiring was changed to utilize unused contacts E2/D2 in the diesel generator output breaker closing circuit under a Temporary System Change (LAP-240-6). A new relay is currently on order and relay K55 will be changed out once the new relay is received (AIR 374-200-86-00100). The relay will be inspected after removal to determine the cause of failure if possible.

V. PREVIOUS OCCURRENCES

None.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

Harold T. Vinyard, Technical Staff Engineer, 815/357-6761, extension 499.



**Commonwealth Edison**  
LaSalle County Nuclear Station  
Central Route #1, Box 220  
Marseilles, Illinois 61341  
Telephone 815/357-6761

February 5, 1986

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

Dear Sir:

Reportable Occurrence Report #86-001-00, Docket #050-374 is being submitted to your office in accordance with 10CFR 50.73.

*R. J. Bils*  
for G. J. Diederich  
Station Manager  
LaSalle County Station

GJD/DRR/kg

Enclosure

xc: NRC, Regional Director  
INPO-Records Center  
File/NRC

IE22  
11