

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
LaSalle County Station Unit 2DOCKET NUMBER (2)
0 5 0 0 0 3 7 4 1 OF 0 3TITLE (4)
2WR040 Tripped Closed

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)
01	21	85	85	005	0	02	13	85			0 5 0 0 0
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OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5 (Check one or more of the following) (11)									
1	20.402(b)		20.406(c)		<input checked="" type="checkbox"/> 80.73(a)(2)(iv)		73.71(b)			
POWER LEVEL (10)	0.98	20.406(a)(1)(i)		80.36(c)(1)		<input type="checkbox"/> 80.73(a)(2)(v)		73.71(c)		
		20.406(a)(1)(ii)		80.36(c)(2)		<input type="checkbox"/> 80.73(a)(2)(vi)		OTHER (Specify in Abstract below and in Text, NRC Form 366A)		
		20.406(a)(1)(iii)		80.73(a)(2)(i)		<input type="checkbox"/> 80.73(a)(2)(vii)(A)				
		20.406(a)(1)(iv)		80.73(a)(2)(ii)		<input type="checkbox"/> 80.73(a)(2)(vii)(B)				
		20.406(a)(1)(v)		80.73(a)(2)(iii)		<input type="checkbox"/> 80.73(a)(2)(v)				

LICENSEE CONTACT FOR THIS LER (12)
NAME
David M. Lyon, extension 319
TELEPHONE NUMBER
AREA CODE 815 357-6761

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)									
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs
B	C,C	R,L,Y	C,6,1,2	Y					

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 January 21, 1985, the Reactor Building Closed Cooling Water outlet outboard isolation valve 2WR040 closed due to the physical failure of the 2B21H-K67X18 relay. No valid isolation signal occurred. The relay failed because its coil windings short circuited and burned out. Valve 2WR040 was manually reopened to provide RBCCW cooling to the reactor recirculating pumps. Work Request L45579 was initiated to replace the failed relay and test the newly installed one. Prior to the completion of the work request, Unit 2 shutdown commenced in accordance with Technical Specification 3.6.3. A GSEP Unusual Event was declared in accordance with L2P-1200-i, EAL #14. Power was reduced from 1100 MWe to 840 MWe. On January 21, 1985, work was completed on the installation and testing of relay 2B21H-K67X18. Valve 2WR040 was declared operable, the GSEP Unusual Event was terminated, and the Unit 2 shutdown was halted. No reactor recirculation pump damage resulted.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (3)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
LaSalle County Station Unit 2	0500037485	—	005	—	00	02	OF 03

TEXT (If more space is required, use additional NRC Form 305A's) (17)

I. EVENT DESCRIPTION

On January 21, 1985, at 1920, the Primary Reactor Building Closed Cooling Water (RBCCW, CC) Return Outboard Containment Isolation Valve (JM) 2WR040 closed due to the physical failure of the 2B21H-K67X18 relay. After it was determined that no valid signal occurred, work request L45579 was initiated to replace the failed relay and test the response time on the newly installed relay. Prior to the completion of the work request, Unit 2 shutdown commenced in accordance with Technical Specification 3.6.3 action a.2, after the four hours allowed by Action a.1 expired. A GSEP Unusual Event was declared at 2320 in accordance with L2P-1200-1, EAL #14. The power was reduced from 1100 MWe to 840 MWe. At 0101, January 22, 1985, work was completed on the installation and testing of the newly installed relay. Valve 2WR040 was declared operable; the GSEP Unusual Event was terminated, and Unit 2 shutdown was halted.

II. CAUSE

Relay 2B21H-K67X18 failed because its normally energized coil burned out. Relay 2B21H-K67X17, which operates RBCCW inlet outboard primary containment isolation valve 2WR029 remained intact. This relay is identical to the 2B21H-K67X18 and the two relays are wired in parallel inside panel 2PA13J. The coil in relay 2B21H-K67X18 burned out due to a short circuit in the coil windings.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

During the entire event, the inboard isolation valve in the line and associated logic were fully operable. As a precaution, an operator was stationed at valve 2WR040 while it was open and de-energized. He manually opened it in order to provide RBCCW cooling to the reactor recirculating (AD) pumps. He would have been instructed to manually close the valve, had the need arisen. No reactor recirculation pump damage resulted.

The immediate operator response was to regain cooling to the Reactor Recirculation Pumps in order to avoid pump damage and the major transient that would have resulted from a shutdown of both pumps. Upon restoration of recirc pump cooling, investigation of the failure revealed that repair and testing could be accomplished safely with the unit operating. Since a controlled shutdown could not be accomplished within the 4 hour repair interval, it was decided to perform repair and testing with the unit at power. Repairs were completed within the 4 hour repair interval allowed by T.S. 3.6.3, however, the extensive Testing Requirements were not completed. Upon expiration of the allowed repair interval, a controlled shutdown was initiated and a GSEP unusual event was declared.

The shutdown and GSEP was terminated 5 hours and 2 minutes after the initial failure upon completion of all required testing.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED FOR RELEASE
EXPIRES 8-31-91

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TEXT (If more space is required, use additional NRC Form 305A's (17))

IV. CORRECTIVE ACTIONS

Work Request L45579 was immediately initiated to replace the failed relay and test the response time on the newly installed one. During that time, Unit Two shutdown was commenced in accordance with Technical Specification 3.6.3. A GSEP Unusual Event was declared in accordance with LZF-1200-1, EAL 14, and notifications were made in accordance with LZF-1110-1. At 0101, January 22, 1985, installation and testing of the newly installed relay was complete. The GSEP Unusual Event, and the Unit Two Shutdown was terminated at that time.

V. PREVIOUS OCCURRENCES

None.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

David M. Lyon (815)357-6761, extension 319.



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

February 14, 1985

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

Dear Sir:

Reportable Occurrence Report #85-005-00, Docket #050-374 is being submitted to your office in accordance with 10 CFR 50.73.

for R.D. Bishop
G. J. Diederich
Superintendent
LaSalle County Station

GJD/MLD/psk

Enclosure

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

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