

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
LaSalle County Station Unit 1DOCKET NUMBER (2)
0 5 0 0 0 3 7 3

PAGE (3)

1 OF 0 3

TITLE (4)
Failure of 1E12-FO41B LLRT

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 NAME	DOCKET NUMBER (S)	
10	12	84	84	065	00	11	09	84		0 5 0 0 0	

OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)									
POWER LEVEL (10)	01010	20.402(a)		20.406(a)		20.73(a)(2)(iv)		73.71(b)			
		20.406(a)(1)(i)		20.38(a)(1)		20.73(a)(2)(v)		73.71(d)			
		20.406(a)(1)(ii)		20.38(a)(2)		20.73(a)(2)(vi)		OTHER (Specify in Abstract below and in Text, NRC Form 205A)			
		20.406(a)(1)(iii)		20.73(a)(2)(i)		20.73(a)(2)(vii)(A)					
		20.406(a)(1)(iv)		20.73(a)(2)(ii)		20.73(a)(2)(vii)(B)					
		20.406(a)(1)(v)		20.73(a)(2)(iii)		20.73(a)(2)(viii)					

LICENSEE CONTACT FOR THIS LER (12)
NAME: Dale Winterhoff, extension 575
TELEPHONE NUMBER: 815 357-6761

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)									
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC
X	BOI	INVI	A1391	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 10/12/84 at 1420 hours, RHR LPCI "B" Testable Check Valve 1E12-FO41B failed to hold pressure per requirements of T.S. 3.4.3.2 during the performance of LTS-900-4.

The Mechanical Maintenance Department concluded that the valve was binding open due to abnormally tight packing and Shaft corrosion. At the time of the occurrence LaSalle Unit 1 was in Operational Condition 4, Cold Shutdown for outage repairs and surveillance testing. Consequences of the event were minimized since the 1E12-FO41B would open if needed for coolant injection and the 1E12-FO42B (Outboard Injection Valve) was operable and would have maintained containment integrity. Also RHR LPCI A & C, LPCS and HPCS Testable Check Valves were all operable. Work Request L33559 was written to repair the valve. The valve was cleaned and rebuilt with new packing. A LLRT was performed satisfactorily on 11/1/84 per LTS-900-4 with a measured leakage of 0.1667 gpm.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1) LaSalle County Station Unit 1	DOCKET NUMBER (2) 050003713	LER NUMBER (8)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		84	065	010	02	OF 03

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

I. EVENT DESCRIPTION

On October 12, 1984, at 1420 hours, Low Pressure Coolant Injection (BO) Testable Check Valve, 1E12-F041B, failed to hold pressure per the requirements fo Technical Specification 3.4.3.2 during the performance of LTS-900-4, LPCI Water Leak Rate Test.

In accordance with Step F.3 of the procedure, valve 1E12-F041B was cycled to verify test volume filled and vented. The valve opened freely with a positive motion, but when a CLOSE signal was given the valve moved erratically and stopped approximately 25% OPEN.

An attempt was made to close the 1E12-F041B in accordance with Step F.7 of LTS-900-4. During the performance of this step the 1E12-F041B was again cycled. The valve, as demonstrated previously, opened with a positive motion, but when a CLOSE signal was initiated the valve stopped approximately 75% OPEN.

The performance of LTS-900-4 was then terminated.

II. CAUSE

The Mechanical Maintenance Department, after conducting an investigation, has determined that the 1E12-F041B was binding OPEN due to a combination of abnormally tight packing and shaft corrosion. During a previous observation on the valve a stuffing box leak was observed (Work Request L22492) and it can be concluded that this was a major catalyst in the formation of the shaft corrosion. It cannot be determined why the valve packing was so tight. A sign is posted on ALL containment isolation valves stating "Containment Isolation Valve, LLRT must be performed before and after repairs." This is an isolated event and it is believed that abnormally tight packing does not exist in any other containment isolation valve.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

At the time of the occurrence, LaSalle Unit 1 was in Operational Condition 4, Cold Shutdown, for outage repairs and surveillance testing.

Consequences of this event were minimized since it was demonstrated, during the performance of LTS-900-4, that the 1E12-F041B would open if needed for coolant injection, and the 1E12-F042B, RHR (BO) "B" Outboard Isolation Valve, was operable and would have maintained containment integrity. This was demonstrated on October 17, 1984, during the performance of an air LLRT on the 1E12-F042B which recorded a measured leak rate of 0.00 SCFH. The last previous water LLRT on the 1E12-F041B was performed on September 19, 1983.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104

EXPIRES 8/31/85

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TEXT (If more space is required, use additional NRC Form 386A's) (17)

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE (Continued)

Also, the 1E12-F041A, RHR LPCI "A" Testable Check (BO) and the 1E21-F006, LPCS Testable Check (BM) were tested satisfactorily with a measured water leakage rate each of 0.00 gpm per surveillance LTS-900-4 and LTS-900-2 respectively. By the Operating Engineer's request valves 1E12-F041C, RHR LPCI "C" Testable (BO) Check, and 1E22-F005, HPCS Testable Check (BG) were cycled and correct movement was observed.

Safe operation of the plant was maintained at all times.

IV. CORRECTIVE ACTION

When it was determined that the 1E12-F041B valve would not go "FULL CLOSED", LTS-900-4 was immediately terminated. The Shift Engineer was informed who requested that the 1E12-F092B, Manual Isolation Stop, and the 1E12-F042B, Outboard Injection Valve, be CLOSED and Out-of-Service. Work Request L33559 was initiated and assigned to the Mechanical Maintenance Department. They conducted an inspection and cleaning of the valve internals and rebuilt the valve with new packing. An indicating rod was also replaced due to an outstanding Work Request L42584.

A water LLRT was performed on November 1, 1984, during which the valve cycled OPEN and CLOSE freely with positive motion. Technical Staff surveillance was completed satisfactorily with a measured leakage of 0.1667 gpm.

Operating Department personnel will be reminded that after any packing adjustment valve operability must be demonstrated by cycling the affected valve. (AIR 1-84-67171)

V. PREVIOUS OCCURRENCES

None.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

Dale Winterhoff, 815/357-6761, extension 575.



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

November 9, 1984

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

Dear Sir:

Reportable Occurrence Report #84-065-00, Docket #050-373 is being submitted to your office in accordance with 10CFR 50.73.

G. J. Diederich
G. J. Diederich
Superintendent
LaSalle County Station

GJD/MLD/kg

Enclosure

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

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