NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
LaSalle County Station Unit 2	0 5 0 0 0 3 7 4	1 OF 0 2

TITLE (4)
Main Turbine Bypass Valve Inoperable

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)
1 1	2 0	8 4	8 4	— 0 7 6	— 0 0	1 2	1 7	8 4	NA	0 5 0 0 0
										0 5 0 0 0

OPERATING MODE (9)	1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)			
POWER LEVEL (10)	0 9 7	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
		20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
		20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	X OTHER (Specify in Abstract below and in Text, NRC Form 366A)
		20.405(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	Voluntary
		20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
		20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
John Ullrich, extension 571	AREA CODE 8 1 5 — 3 5 7 - 6 7 6 1

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	
X	J I	S S V	0 0 0 0	Y							

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO				

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

At 1330 on November 20, 1984, the Turbine Bypass System was declared inoperable when the fast acting solenoid on Number 5 bypass valve showed infinite resistance (open coil).

Prior to this event the unit was operating at 97% power. Upon investigation it was determined that the electrical junction box on number 5 bypass valve was full of water. After the junction box was drained, dried and cleaned, the solenoid showed proper continuity, but would still not fast open number 5 bypass valve. It was then determined that the fast acting solenoid valve was not functioning properly.

In accordance with Technical Specification 3.7.10, a reduction in reactor power to less than 25% was initiated. The plant was maintained in a safe condition at all times.

The fast acting solenoid valve assembly was replaced under Work Request L43533.

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FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
LaSalle County Station Unit 2	0 5 0 0 0 3 7 4	8 4	— 0 7 6	— 0 0	0 2 OF 0 3

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

I. EVENT DESCRIPTION

At 1330 on November 20, 1984, while troubleshooting due to erratic valve operation, the fast acting solenoid on #5 bypass valve showed infinite resistance (open coil). This resulted in declaring the Turbine Bypass System (JI) inoperable, because #5 bypass valve would not meet the Technical Specification response time requirement.

II. CAUSE

Prior to this event, Unit 2 was operating at 97% reactor power. Upon investigation, it was discovered that the electrical junction box on number 5 bypass valve was full of water (from an undetermined source). After the junction box was drained, dried and cleaned, the solenoid indicated proper continuity, but testing revealed that the solenoid would not fast open number 5 bypass valve, which indicated that the fast acting solenoid valve was not functioning properly. The fast acting solenoid and valve assembly were replaced, and number 5 bypass valve operated satisfactorily.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

In accordance with Technical Specification 3.7.10, a reduction in power to less than 25% reactor power was initiated. In addition, a plant unusual event was declared. The unit was at less than 25% power by 1900 hours which is within the time permitted by Technical Specifications. The plant was maintained in a safe condition at all times.

IV. CORRECTIVE ACTIONS

The number 5 bypass valve fast acting solenoid and valve assembly were replaced under Work Request L43533. In addition, the junction boxes on the other 4 bypass valves were inspected for water and none was found. The proper operation of the turbine bypass system was verified by the performance of LIS-EH-03, Turbine Bypass System Response Time Test. The response time of the system was 170 msec, which satisfies the Technical Specification limit of 200 msec.

V. PREVIOUS OCCURRENCES

There have been no previous occurrences of this type reported.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

John Ullrich, 815/357-6761, extension 571.

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

December 17, 1984

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

Dear Sir:

Reportable Occurrence Report #84-076-00, Docket #050-374 is being submitted to your office in accordance with 10CFR 50.73.

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

GJD/MLD/kg

Enclosure

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

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