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)
Dresden Nuclear Power Station Unit 3	0 5 0 0 0 2 4 9	1 OF 0 2

TITLE (4)

Unit 3 Reactor Scram

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)
0 9	2 5	8 4	8 4	— 0 1 5	— 0 0	1 0	2 3	8 4	N/A	0 5 0 0 0
										0 5 0 0 0

OPERATING MODE (9)	N	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)			
POWER LEVEL (10)	0 0 3	20.402(b)	20.405(c)	X 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)	50.25(c)(2)	50.73(a)(2)(vii)	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)	
		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
Leslie Turnquest (X-489)	AREA CODE 8 1 5 — 9 4 2 - 2 9 2 0

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	T C	B L L P	0 9 0	N							

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)

During a planned unit shutdown, the reactor scrammed on low condenser vacuum. The bellows on the discharge line of the seal steam relief valve failed, causing air in-leakage to the condenser. The bellows were replaced. No further problems were noted after start-up.

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NRC Form 366A
(9-83)

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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Dresden Nuclear Power Station Unit 3	0 5 0 0 0 2 4 9	8 4	-- 0 1 5	— 0 0	0 2 OF 0 2

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

Due to high hotwell conductivity, Unit 3 was being shut down on 9/25/84 to repair a main condenser tube leak. At 0526 hours and 3% power, the reactor scrammed on the low condenser vacuum. All safety systems functioned properly constituting minimal safety significance.

Low condenser vacuum was caused by air in-leakage through damaged bellows on the seal steam relief valve (3-3018-700) discharge line. This line is directly connected to the main condenser. It appeared that the bellows were damaged by over-pressurization. The over-pressurizing condition on the seal steam header was apparently caused when an attempt was made in the past to throttle the seal steam feed bypass valve (S-2) when the seal steam feed valve (S-1) failed. Since there are no isolations after the bypass valve, opening it while trying to throttle may have over-pressurized the steam seal header. This was enough to lift the relief valve and blow the bellows. At high loads steam pressure of the header is maintained by the seal steam unloading valve, so the feed valve (S-1) and the feed bypass valve (S-2) were left closed at that time until the next short outage when they could be fixed. Condenser vacuum was maintained at high loads because the steam in the seal steam header allowed enough of a seal through the bellows to prevent air in-leakage. As load was dropped the unloading valve began closing, and since the feed and bypass valves had previously been left closed, there was not enough steam in the header to maintain a seal through the bellows and therefore air was being drawn in by condenser vacuum.

The bellows on the discharge line were replaced. Also, during this short outage the feed and bypass valves were also repaired. The unit started up after the condenser tube leaks were repaired and no further problems were noted. The last reactor scram due to low condenser vacuum by air in-leakage was reported by DVR 12-2-83-4.

Commonwealth Edison
Dresden Nuclear Power Station
R.R. #1
Morris, Illinois 60450
Telephone 815/942-2920

October 23, 1984

DJS ltr #84-1201

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

Licensee Event Report #84-015-0, Docket #050249 is being submitted as required by Technical Specification 6.6, NUREG 1022 and 10 CFR 50.73 (a)(2)(iv).

D.J. Scott
Station Superintendent
Dresden Nuclear Power Station

DJS/kjl

Enclosure

cc: J.G. Keppler, Regional Administrator, Region III
File/NRC
File/Numerical

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