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) Reactor Building Ventilation System Isolation and Automatic Initiation of Standby Gas Treatment System Caused by a Vibrated Level Indicator

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)
										N/A	0 5 0 0 0
1 2	3 1	8 5	8 5	— 0 2 5	— 0 0		0 1	2 9	8 6	N/A	0 5 0 0 0

OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)			
N		20.402(b)	20.405(c)	X 50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10)	0 0 0	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)	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
Mark Leahy, Technical Staff Engineer (X-422)	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				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)

On 12/31/85, at approximately 1050 hours, with Unit 3 shut down for a refueling outage, a Group II primary containment isolation occurred due to a low reactor water level signal. As a result, the standby gas treatment system automatically started, and the Unit 3 Reactor Building ventilation system tripped off. The Unit 2 Reactor Building ventilation system was manually tripped off per Operating Order 1-85, "Reactor Building Ventilation System Isolation on Automatic Initiation of Standby Gas Train".

When the isolation occurred, the Unit Shift Foreman proceeded to rack 2203-6, knowing that work was being performed there, and found that an Instrument Mechanic had just removed level indicator 3-263-72B from the rack. It is believed that when the level indicator was removed, the Instrument Mechanic induced a vibration in the rack, causing level indicators 3-263-58A and B (which implement mercury switches that are very sensitive to vibrations) to indicate low reactor water level. This resulted in a Group II isolation.

It is generally recognized at Dresden Station that instruments such as those on rack 2203-6 are sensitive to vibration, even when valved out. Because of the nature of this event, no corrective actions are considered necessary. As the unit was in cold shutdown with all fuel removed, the group isolation initiated as designed, and the Reactor Building ventilation and standby gas treatment systems operated as designed; the safety significance of this event is considered minimal. The last event of this type was reported by Reportable Occurrence No. 85-002-0 on Docket 050249.

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

On 12/31/85, at approximately 1050 hours, with Unit 3 shut down for a refueling outage, all fuel removed, and the reactor vessel completely drained, a Group II primary containment isolation occurred due to a low reactor water level signal. As a result, the standby gas treatment system (SBGTS, EIIS Code BH) automatically started, and the Unit 3 Reactor Building ventilation system (EIIS Code VA) tripped. The Unit 2 Reactor Building ventilation system was manually tripped per Operating Order 1-85, "Reactor Building Ventilation System Isolation on Automatic Initiation of Standby Gas Train".

At the time of the isolation, Instrument Maintenance personnel were known by the Station Control Room Engineer and the Unit 3 Shift Foreman to be removing level instruments from instrument rack 2203-6. When the isolation occurred, the Unit Shift Foreman proceeded to rack 2203-6, and found that the Instrument Mechanic had just removed level indicator 3-263-72B from the rack. It is believed that when the level indicator was removed, the Instrument Mechanic induced a vibration in the rack, causing level indicators 3-263-58A and B (which implement mercury switches that are very sensitive to vibrations) to indicate low reactor water level. This resulted in a Group II isolation, and the automatic start of the SBGTS. Level indicators 3-263-58A and B were valved out at the time, as the reactor vessel is completely drained of water.

It is generally recognized at Dresden Station that instruments such as those on instrument rack 2203-6 are sensitive to vibration, even when they are valved out. Because of this, the Shift Engineer's permission must be obtained to access these instruments, and work is performed only when the unit is in cold shutdown. Because of the nature of this event, no corrective actions are considered necessary.

As the unit was in cold shutdown with all fuel removed, the group isolation initiated as designed, and the Reactor Building ventilation and standby gas treatment systems operated as designed; the safety significance of this event is considered minimal. The last event of this type was reported by Reportable Occurrence No. 85-002-0 on Docket #050249.

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DJS Ltr #86-63

U.S. Nuclear Regulatory Commission
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Licensee Event Report #85-025-0, 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 Manager

DJS/kjl

Enclosure

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

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