

Facility Name (1) Dresden Nuclear Power Station, Unit 2 Docket Number (2) 0 5 10 10 12 13 17 Page (3) 1 of 0 3

Title (4) Auto Initiation of the Standby Gas Treatment System Due to Faulty Refuel Floor Radiation Monitor Test Switch

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 19	8	8	8	0	1	19	0	0	1	2	2	8	8	8	N/A	0	5	10	10	10	1	1
																	N/A	0	5	10	10	10	1	1

OPERATING MODE (9) N

POWER LEVEL (10) 0 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10CFR (Check one or more of the following) (11)

<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(c)	<input checked="" type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
<input type="checkbox"/> 20.405(a)(1)(i)	<input type="checkbox"/> 50.36(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)
<input type="checkbox"/> 20.405(a)(1)(ii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	<input type="checkbox"/> Other (Specify
<input type="checkbox"/> 20.405(a)(1)(iii)	<input type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)	in Abstract
<input type="checkbox"/> 20.405(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)	below and in
<input type="checkbox"/> 20.405(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(x)	Text)

LICENSEE CONTACT FOR THIS LER (12)

Name: Scott J. Briley, Technical Staff Engineer Ext. 2526

TELEPHONE NUMBER: AREA CODE 8 1 5 9 4 2 1 -2 19 12 10

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

CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS	
X	I	L	G	10 8 10	N						

SUPPLEMENTAL REPORT EXPECTED (14)

Expected Submission Date (15) X NO

Month Day Year

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

On November 29, 1988 at 0330 hours with Unit 2 at 0% thermal power in the Refuel mode, the Instrument Maintenance Department (IMD) was performing Dresden Instrument Surveillance (DIS) 1700-15, Refuel Floor Radiation Monitor Calibration and Functional Test. During the surveillance, the Reactor Building Ventilation System tripped and 2/3 A Standby Gas Treatment (SBGT) System auto initiated. At the time of the event, an IMD technician was verifying the downscale setting of the 2A refuel floor radiation monitor. At 0342 hours the Reactor Building Ventilation System was returned to normal and the SBGT System was secured. The cause of this event has been attributed to a faulty trip check pushbutton switch. It is believed that when the trip check switch was pushed, the radiation monitor momentarily spiked upscale resulting in the unexpected initiation of SBGT. All steps of the procedure were performed again to verify proper operation of the refuel floor radiation monitors. Work Request 80242 was submitted to repair or replace the trip check switch. A review of past Licensee Event Reports revealed one similiar event, however, it was not due to a faulty trip check switch.

*IS 27*



FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)						Page (3)		
		Year	///	Sequential Number	///	Revision Number				
Dresden Nuclear Power Station	0   5   0   0   0   2   3   7	8   8	-	0   1   9	-	0   0	0   3	OF	0   3	

TEXT Energy Industry Identification System (EIIS) codes are identified in the text as [XX]

D. SAFETY ANALYSIS OF EVENT:

The refuel floor radiation monitors are designed to monitor radiation levels on the refuel floor and, upon abnormal radiation levels, isolate the normal Reactor Building Ventilation System and initiate the Standby Gas Treatment System. The SBTG System will then maintain a small negative pressure in the Reactor Building, thereby preventing a ground level release of airborne radioactivity. The initiation logic for the refuel floor radiation monitors is arranged such that a single upscale reading of greater than 100 mR/hr on either Channel A or B refuel floor radiation monitor will provide the required protective action. Additionally, if both Channel A and B monitors fail downscale the required protective action is also initiated. Consequently, as a result of the faulty trip check pushbutton switch, an invalid ESF actuation occurred; however, all systems performed as required. Hence, the safety significance of this event is considered minimal.

E. CORRECTIVE ACTIONS:

All steps in the procedure were performed again to verify proper operation of the refuel floor radiation monitors. Work Request 80242 was submitted to repair or replace the trip check pushbutton switch (237-200-88-14101). This maintenance will be completed prior to the next performance of DIS 1700-15 (237-200-88-14102). As this is not a recurring problem, no further corrective actions are required.

F. PREVIOUS EVENTS:

<u>LER Number/Docket Number</u>	<u>Title</u>
86-08/050237	Automatic Initiation of the Standby Gas Treatment System Caused by a Refuel Floor Area Radiation Monitor Failing Upscale.
	This event was due to a failed Geiger Mueller tube in the sensor/converter assembly. The tube was replaced and the monitor was successfully calibrated.

G. COMPONENT FAILURE DATA:

<u>Manufacturer</u>	<u>Nomenclature</u>	<u>Model Number</u>	<u>MFG Part Number</u>
General Electric	Area Radiation Monitor	Type DW-91	129B2802

As this failure is not reportable to NPRDS, an industry wide NPRDS data base search was not performed.



**Commonwealth Edison**

Dresden Nuclear Power Station

R.R. #1

Morris, Illinois 60450

Telephone 815/942-2920

December 28, 1988

EDE LTR #88-960

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

Licensee Event Report #88-019-0, Docket #050237 is being submitted as required by Technical Specification 6.6, NUREG 1022 and 10 CFR 50.73(a)(2)(iv).

*L. J. Lermer for*

E.D. Eenigenburg  
Station Manager  
Dresden Nuclear Power Station

EDE/ade

Enclosure

cc: A. Bert Davis, Regional Administrator, Region III  
File/NRC  
File/Numerical

0455k

*IF 22*  
*11*