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

January 10, 1994

GFS PMLTR 94-0012

U. S. Nuclear Regulatory Commission
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Washington, D.C. 20555

Licensee Event Report 93-022, Docket 50-237 is being submitted as required by Technical Specification 6.6, NUREG 1022 and 10CFR50.73(a)(z)(ii)B.

1-10-94
Gary F. Spedl
Station Manager
Dresden Station

GFS/MP/maf

Enclosure

cc: J. Martin, Regional Administrator, Region III
NRC Resident Inspector's Office
File/NRC
File/Numerical

IE22
1/1

LICENSEE EVENT REPORT (LER)

Form Rev 2.0

Facility Name (1)	Docket Number (2)	Page (3)
Dresden Nuclear Power Station, Unit 2	0 5 0 0 0 2 3 7	1 of 0 3

Title (4)

Floor Drains in the RCA Have Potential Inputs Into Non-Contaminated Processing Systems Contrary to FSAR 9.1 page 9.1.0-3

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 2	1 6	9 3	9 3	0 2 2	0 0	0 1	1 0	9 4	N/A	
									N/A	

OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIRMENTS OF 10CFR (Check one or more of the following) (11)									
POWER LEVEL (10)	0 9 5		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)		Other (Specify in Abstract below and in Text)	
			20.405(a)(1)(iii)		50.73(a)(2)(i)		50.73(a)(2)(viii) (A)			
			20.405(a)(1)(iv)	X	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)			

LICENSE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
Robert L. Holman, System Engineer Ext. 2554	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

SUPPLEMENTAL REPORT EXPECTED (14)		Expected Submission Date (15)	Month	Day	Year
	Yes (If yes, complete EXPECTED SUBMISSION DATE)	NO			

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

On December 16, 1993, at 1645 hours, with Unit 2 at 95% power and Unit 3 at 84% power, an engineering review of turbine building floor drain paths found several floor drains within the Radiation Control Area (RCA) input into non-contaminated processing systems contrary to FSAR 9.1. page 9.1.0-3. An action plan was immediately formed to identify all floor drains that had input into non-contaminated processing systems and place labels and/or signs above and around the drains to administratively control inputs. An enhanced sampling program was immediately initiated by the chemistry department. The operations department put all control switches from the 2/3 floor drain oil separator and the unit 1 oil separator to pull-to-lock (PTL). Before pumping out of either of these pits, chemistry analyzed the water to determine if any contamination existed. No contamination was found in any of the samples. Plans were formulated to pump the water if future analysis indicated activity, to lined containers thereby preventing any unmonitored releases. During the construction of the plant, several floor drains were designed to have their inputs go to non-contaminated processing systems. Routine sampling of these areas over the years saw no contamination in any of the samples.

PLANT AND SYSTEM IDENTIFICATION:

General Electric-Boiling Water Reactor-2527 MWt rated core thermal power.

Nuclear Tracking System (NTS) tracking code numbers are identified in the text as (XXX-XXX-XX-XXXXX)

EVENT IDENTIFICATION:

Floor Drains in the RCA Have Potential Inputs Into Non-Contaminated Processing Systems Contrary to FSAR 9.1 page 9.1.0-3

A. CONDITIONS PRIOR TO EVENT:

Unit: All Event Date: 12-16-93 Event Time: 1645 hours

Reactor Mode: N/A Mode Name: N/A Power Level: N/A

Reactor Coolant System (RCS) Pressure: N/A

B. DESCRIPTION OF EVENT:

On December 16, 1993, at 1645 hours with unit 2 at 95% power and unit 3 at 84% power, an engineering review of turbine building floor drain paths found several floor drains within the Radiation Control Area (RCA) draining into the non-contaminated processing systems contrary to FSAR 9.1 page 9.1.0-3. The majority of these turbine floor drains drain into the 2/3 floor drain oil separator which flows to the Waste Water Treatment (WWT) system for treatment. The 2/3 diesel generator day tank room floor drain building diagram indicates that this drain goes to the transformer oil separator. These drains all have the potential for an unmonitored release if not properly controlled.

C. APPARENT CAUSE OF EVENT:

The subsequent engineering review revealed that some drains in the turbine building input to non-contaminated processing systems. Upon further investigation, other drains within the turbine building on the 517' elev. and the 538' elev. were discovered to have inputs to non-contaminated processing systems.

D. SAFETY ANALYSIS OF EVENT:

Radiation Protection surveys of the various drains indicate that no contamination was present in these drains. Chemistry sampling of the effluent of the Waste Water Treatment(WWT) plant indicates that there has not been any unmonitored release. Based on the surveys and sampling there were no effects on the public health or safety. Therefore, this event had no safety significance.

E. CORRECTIVE ACTIONS:

Immediate corrective actions were to put all control switches from the 2/3 floor drain oil separator ejector pit, and the unit 1 oil separator pit in pull-to-lock and sample for radioactivity prior to pumping the pits to WWT. A composite sample of WWT is also obtained to verify the final effluent is not contaminated.

All floor drains in the turbine building that have inputs to non-contaminated processing systems have been identified. Labels or signs have been placed at each drain indicating that unauthorized dumping of liquids in these drains is not permitted.

Long term corrective action is to administratively (DAP) control all turbine building floor drain inputs thus reducing the possibility of contaminated liquids in the non-contaminated processing systems.

Changes are to be submitted to the FSAR as stated on DAP form 02-06A attached.

Increase the sampling frequency of the WWT and tr oil Separator discharges.

F. PREVIOUS OCCURRENCES:

No previous occurrences of this nature were previously identified.

G. COMPONENT FAILURE DATA:

N/A