



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

November 6, 1991

EDE LTR #91-681

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

Licensee Event Report #91-033, Docket #050237 is being submitted as required by Technical Specification 6.6, NUREG 1022 and 10 CFR 50.73(a)(2)(iv).

L. J. Merwin for

E. D. Eenigenburg
Station Manager
Dresden Nuclear Power Station

EDE/dwh

Enclosure

cc: A. Bert Davis, Regional Administrator, Region III
NRC Resident Inspector's Office
File/NRC
File/Numerical

9111140160 911106
PDR ADOCK 05000237
S PDR

*FE22
11*

LICENSEE EVENT REPORT (LER)

Form Rev 2.0

Facility Name (1) Dresden Nuclear Power Station, Unit 2 Docket Number (2) 0 10 15 10 10 2 3 7 Page (3) 1 of 0 4

Title (4) Primary Containment Isolation Valve Closure Due to Reactor Water Cleanup System Isolation

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)	
10	14	91	91	033	00	10	16	91	N/A		
									N/A		

OPERATING MODE (9) N

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 John Reid, Technical Staff System Engineer Ext. 2380 TELEPHONE NUMBER 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)

Yes (If yes, complete EXPECTED SUBMISSION DATE) NO Expected Submission Date (15) _____

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

On October 14, 1991, at 1101 hours, with Unit 2 at 51% power, a Reactor Water Cleanup (RWCU) system isolation occurred resulting in Primary Containment Isolation Motor Operated Valves (MOVs) 2-1201-1 and 2-1201-2 fully closing. Operations personnel were returning the RWCU system to normal operation after it was isolated to support 250 VDC battery switching. While returning the RWCU system to normal operation, it isolated on a high pressure signal. The automatic isolation occurred, as expected, to protect the RWCU piping. This event had no safety significance because isolation of the RWCU system for short periods has no affect on power operation or coolant chemistry limits. When returning the RWCU system to operation with the reactor at operating pressure, RWCU system pressure oscillations are frequently generated due to control difficulty within the RWCU flow controller. Although this event was not initiated by Primary Containment Isolation logic, it did result in unplanned closure of Primary Containment Isolation valves. Immediate corrective actions were to reset/restart the RWCU system. Additional corrective actions include reviewing the pressure and flow control valve trim and pneumatic actuator configurations for possible improvement. Three previous events involving RWCU system isolations or unplanned isolation valve closures have been reported by LERs 91-014/0500237, 91-019/0500237, and 91-034/0500237.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

Form Rev 2.0

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	9 1	-	0 3 3	-	0 0	0 3	OF	0 4	

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

A maintenance history review indicates that the FCV 2-1219 valve was completely rebuilt in March, 1991, under Work Request (WR) 98612. The RWC PCV 2-1217 air operator was rebuilt under WR 94522 in November, 1990. Also, the RWC PCV was inspected under WR 96778 in December, 1990; the valve seat and the disc stack on the plug were found to be eroded. The plug was repaired and the seat was replaced.

D. SAFETY ANALYSIS OF EVENT:

The purpose of the RWC system is to maintain reactor water chemistry within Technical Specification requirements. As the RWC system was returned to service immediately, Technical Specification limits were not exceeded. The RWC system automatically isolated, as designed, upon receipt of a high pressure signal in the RWC system. There was no effect on public health or safety. For these reasons, this event had no safety significance.

E. CORRECTIVE ACTIONS:

Immediate corrective actions were to reset/restart the RWC system. This was done and the RWC system operated without further problems. It is not unusual for the system to isolate while being returned to service at normal reactor pressure.

On 11/04/91 the Mechanical Maintenance Department replaced the FCV 2-1219 valve diaphragm and performed a diaphragm spring tension adjustment on the valve under WR 04403.

Work Request 02820 has been initiated to repair PCV 2-1217 (237-200-91-18201). The valve leaks through when a full close signal is applied to the valve.

The configuration of the present valve trim and pneumatic actuator for the FCV and the PCV will be reviewed by the System Engineer, with Nuclear Engineering Department (NED) assistance, for possible replacement (237-200-91-18202).

F. PREVIOUS OCCURENCES:

LER/Docket Numbers Title

91-014/0500237 Primary Containment Isolation Closure Due To Reactor Water Cleanup System Isolation

This event involved unplanned automatic closure of two Primary Containment Group I Isolation valves due to shorting of an indicating light socket at a local control station, while an Operator was changing the bulb. Corrective action included addition of a precaution to the local control station surveillance.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

Form Rev 2.0

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	9 1 -	0 3 3	- 0 0	0 4	0 F	0 4

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

91-019/0500237 Primary Containment Isolation Closure Due To Reactor Water Cleanup System Isolation

This event involved unplanned automatic closure of two Primary Containment Group III Isolation valves due to a RWCU isolation while adjusting flow during a unit startup. Corrective actions included adding a precaution to Dresden Operating Procedure 1200-3 to warn of RWCU perturbations under low power conditions.

91-034/0500237 Primary Containment Isolation Closure Due To Reactor Water Cleanup System Isolation

This event involved unplanned automatic closure of two Primary Containment Group III Isolation valves due to pressure oscillations caused by the loss of the RWCU surge tank nitrogen blanket. Corrective actions included adding nitrogen and reset/restart of the RWCU system.

G. COMPONENT FAILURE DATA:

As there was no component failure, this section does not apply.