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

BBS Ltr. #76-844

December 2, 1976

Mr. James G. Keppler, Regional Director
Directorate of Regulatory Operations - Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Enclosed please find Reportable Occurrence report number 50-249/1976-34. This report is being submitted to your office in accordance with the Dresden Nuclear Power Station Technical Specifications, Section 6.6.B.

B. B. Stephenson
Station Superintendent
Dresden Nuclear Power Station

BBS:jo

Enclosure

cc: Director of Inspection & Enforcement
Director of Management Information & Program Control
File/NRC

12503

LICENSEE EVENT REPORT

CONTROL BLOCK: [ ] (1–6) (PLEASE PRINT ALL REQUIRED INFORMATION)

	LICENSEE NAME	LICENSE NUMBER	LICENSE TYPE	EVENT TYPE
01	ILDRS3	00-00000-00	4 1 1 1 1	01
(7–8, 9–14, 15–25, 26–30, 31–32)				

	CATEGORY	REPORT TYPE	REPORT SOURCE	DOCKET NUMBER	EVENT DATE	REPORT DATE
01 CONT	[ ]	T	L	050-02491	111976	120276
(7–8)	(57–58)	(59)	(60)	(61–68)	(69–74)	(75–80)

EVENT DESCRIPTION

02 AS A RESULT OF THE 2301-8 HPCI INJECTION VALVE STEM FAILURE
03 THAT WAS RECENTLY DISCOVERED ON UNIT-2 (R.O. REPORT NO. 50-
04 237/1976-66), A HPCI LOGIC DESIGN WIRING PROBLEM WAS IDEN-
05 TIFIED WHICH WAS BELIEVED TO BE COMMON TO BOTH UNIT-2 AND
06 UNIT-3. THE WIRING ERROR, WHICH DID IN FACT EXIST ON UNIT-3,
(SEE ATTACHED SHEET)

	SYSTEM CODE	CAUSE CODE	COMPONENT CODE	PRIME COMPONENT SUPPLIER	COMPONENT MANUFACTURER	VIOLATION
07	SF	B	VALVEX	N	C665	N
(7–8, 9–10, 11, 12–17, 43, 44–47, 48)						

CAUSE DESCRIPTION

08 VALVE MO 3-2301-8 WAS RACKED OUT OF SERVICE IN THE OPEN POSI-
09 TION, AND VALVE 2301-9 WAS CLOSED TO ISOLATE THE HPCI PUMP DISCHARGE.
10 DURING THE NEXT SCHEDULED UNIT OUTAGE, THE STEM OF VALVE
(SEE ATTACHED SHEET)

	FACILITY STATUS	% POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION
11	E	094	NA	D	NA
(7–8, 9, 10–12, 13–44, 45, 46–80)					

	FORM OF ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY	LOCATION OF RELEASE
12	Z	Z	NA	NA
(7–8, 9, 10, 11–44, 45–80)				

PERSONNEL EXPOSURES

	NUMBER	TYPE	DESCRIPTION
13	000	Z	NA
(7–8, 9–11, 12, 13–80)			

PERSONNEL INJURIES

	NUMBER	DESCRIPTION
14	000	NA
(7–8, 9–11, 12–80)		

OFFSITE CONSEQUENCES

15 NA

LOSS OR DAMAGE TO FACILITY

	TYPE	DESCRIPTION
16	Z	NA
(7–8, 9, 10–80)		

PUBLICITY

17 NA

ADDITIONAL FACTORS

18 NA

19

NAME: TERRANCE E. LANG PHONE: EXT. 433

EVENT DESCRIPTION (Continued)

may have caused the 2301-8 valve to oscillate open/closed during refueling surveillance testing of the HPCI turbine trip circuitry. It had been determined prior to the Unit-2 failure that the motor operators for valve 2301-8 and several other safety-related valves were oversized for the valve applications. It is conceivable that the oversized operator might subject the valve stem to higher stresses under conditions such as excessive cycling. To preclude a failure of the 2301-8 valve in the closed position, the valve was opened and racked out of service. This is not a repetitive occurrence. (50-249/1976-34)

CAUSE DESCRIPTION (Continued)

3-2301-8 will be inspected and, if necessary, replaced.

A modification request has been submitted to alter the 2301-8 valve control circuitry so as to eliminate excessive cycling during routine surveillance testing. Furthermore, a modification request has been initiated to replace the motor operators on several safety-related valves with reduced-capacity units. Completion of this modification will preclude valve stem overstressing which might result from oversized motor operators. Valve MO 3-2301-8 is a Crane 14-inch gate valve, equipped with a Limitorque SMB-4 motor operator rated at 200 ft.-lb.