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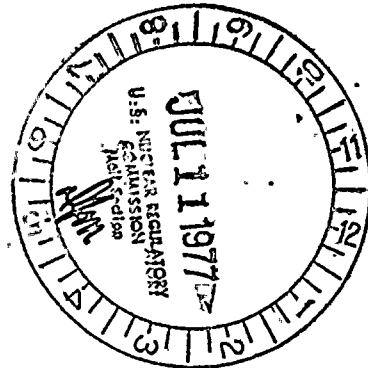


Commonwealth Edison  
Dresden Nuclear Power Station  
R.R. #1  
Morris, Illinois 60450  
Telephone 815/942-2920

July 1, 1977

BBS Ltr. #597-77

Regulatory Docket File



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

Dear Mr. Keppler:

Enclosed please find Reportable Occurrence Report  
Number 50-237/1977-21. This report is being submitted to your  
office in accordance with the Dresden Nuclear Power Station  
Technical Specifications, Section 6.6.B.

Sincerely,

R. B. Stephenson  
Station Superintendent  
Dresden Nuclear Power Station

BBS:SS:gt

Enclosure

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

771930416



# LICENSEE EVENT REPORT

CONTROL BLOCK: 1 2 3 4 5 6

(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME														LICENSE NUMBER										LICENSE TYPE					EVENT TYPE	
<span style="border: 1px solid black; padding: 0 5px;">01</span>	<span style="border: 1px solid black; padding: 0 5px;">I</span>	<span style="border: 1px solid black; padding: 0 5px;">L</span>	<span style="border: 1px solid black; padding: 0 5px;">D</span>	<span style="border: 1px solid black; padding: 0 5px;">R</span>	<span style="border: 1px solid black; padding: 0 5px;">S</span>	<span style="border: 1px solid black; padding: 0 5px;">2</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">-</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">-</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">4</span>	<span style="border: 1px solid black; padding: 0 5px;">1</span>	<span style="border: 1px solid black; padding: 0 5px;">1</span>	<span style="border: 1px solid black; padding: 0 5px;">1</span>	<span style="border: 1px solid black; padding: 0 5px;">1</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">3</span>							
7	8	9				14	15									25		26					30	31	32					

CATEGORY		REPORT TYPE	REPORT SOURCE	DOCKET NUMBER							EVENT DATE					REPORT DATE							
<span style="border: 1px solid black; padding: 0 5px;">01</span>	CONT	<span style="border: 1px solid black; padding: 0 5px;">L</span>	<span style="border: 1px solid black; padding: 0 5px;">L</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">5</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">-</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">2</span>	<span style="border: 1px solid black; padding: 0 5px;">3</span>	<span style="border: 1px solid black; padding: 0 5px;">7</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">6</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">3</span>	<span style="border: 1px solid black; padding: 0 5px;">7</span>	<span style="border: 1px solid black; padding: 0 5px;">7</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">7</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">1</span>	<span style="border: 1px solid black; padding: 0 5px;">7</span>	<span style="border: 1px solid black; padding: 0 5px;">7</span>
7	8	57	58	59	60	61					68	69				74	75						80

## EVENT DESCRIPTION

<span style="border: 1px solid black; padding: 0 5px;">02</span>	During normal plant operation, a containment cooling service water (CCSW)	80
<span style="border: 1px solid black; padding: 0 5px;">03</span>	LPCI heat exchanger valve 2-1501-3A failed to open when "A" CCSW pump was started.	80
<span style="border: 1px solid black; padding: 0 5px;">04</span>	The safety implications of this failure were minimal because operating surveillance	80
<span style="border: 1px solid black; padding: 0 5px;">05</span>	DOS 1500-3 was performed in order to assure that a redundant CCSW LPCI heat exchanger	80
<span style="border: 1px solid black; padding: 0 5px;">06</span>	loop was operable at the time of the incident. A similar occurrence involving this	80

(Continued)

SYSTEM CODE		CAUSE CODE	COMPONENT CODE					PRIME COMPONENT SUPPLIER	COMPONENT MANUFACTURER			VOLATION			
<span style="border: 1px solid black; padding: 0 5px;">07</span>	<span style="border: 1px solid black; padding: 0 5px;">S</span>	<span style="border: 1px solid black; padding: 0 5px;">F</span>	<span style="border: 1px solid black; padding: 0 5px;">A</span>	<span style="border: 1px solid black; padding: 0 5px;">C</span>	<span style="border: 1px solid black; padding: 0 5px;">O</span>	<span style="border: 1px solid black; padding: 0 5px;">N</span>	<span style="border: 1px solid black; padding: 0 5px;">T</span>	<span style="border: 1px solid black; padding: 0 5px;">R</span>	<span style="border: 1px solid black; padding: 0 5px;">L</span>	<span style="border: 1px solid black; padding: 0 5px;">N</span>	<span style="border: 1px solid black; padding: 0 5px;">B</span>	<span style="border: 1px solid black; padding: 0 5px;">1</span>	<span style="border: 1px solid black; padding: 0 5px;">3</span>	<span style="border: 1px solid black; padding: 0 5px;">5</span>	<span style="border: 1px solid black; padding: 0 5px;">N</span>
7	8	9	10	11	12				17	43	44			47	48

## CAUSE DESCRIPTION

<span style="border: 1px solid black; padding: 0 5px;">08</span>	Just prior to finding the failed valve, tube leaks had been discovered in	80
<span style="border: 1px solid black; padding: 0 5px;">09</span>	the 2A LPCI heat exchanger. In order to perform the required maintenance, valve	80
<span style="border: 1px solid black; padding: 0 5px;">10</span>	2-1501-3A, the discharge valve on the 2A LPCI heat exchanger, had to be in the closed	80

(Continued)

FACILITY STATUS		% POWER	OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION	
<span style="border: 1px solid black; padding: 0 5px;">11</span>	<span style="border: 1px solid black; padding: 0 5px;">E</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">7</span>	<span style="border: 1px solid black; padding: 0 5px;">5</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>	<span style="border: 1px solid black; padding: 0 5px;">B</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>	
7	8	9	10	12	13	44	45	46

FORM OF ACTIVITY RELEASED		CONTENT OF RELEASE	AMOUNT OF ACTIVITY		LOCATION OF RELEASE	
<span style="border: 1px solid black; padding: 0 5px;">12</span>	<span style="border: 1px solid black; padding: 0 5px;">Z</span>	<span style="border: 1px solid black; padding: 0 5px;">Z</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>	
7	8	9	10	11	44	45

## PERSONNEL EXPOSURES

NUMBER	TYPE	DESCRIPTION
<span style="border: 1px solid black; padding: 0 5px;">13</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>
7	8	9

## PERSONNEL INJURIES

NUMBER	DESCRIPTION
<span style="border: 1px solid black; padding: 0 5px;">14</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span>
7	8

## OFFSITE CONSEQUENCES

<span style="border: 1px solid black; padding: 0 5px;">15</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>
7	8

## LOSS OR DAMAGE TO FACILITY

TYPE	DESCRIPTION
<span style="border: 1px solid black; padding: 0 5px;">16</span>	<span style="border: 1px solid black; padding: 0 5px;">Z</span>
7	8

## PUBLICITY

<span style="border: 1px solid black; padding: 0 5px;">17</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>
7	8

## ADDITIONAL FACTORS

<span style="border: 1px solid black; padding: 0 5px;">18</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>
7	8

<span style="border: 1px solid black; padding: 0 5px;">19</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>
7	8

NAME: Desi Santanna

PHONE: X-265



EVENT DISCRIPTION (Continued)

valve last occurred in 1975. (50-237/1977-21)

CAUSE DESCRIPTION (Continued)

position. While manually closing the valve, the stem was bent. While performing maintenance on the valve stem, the feedback potentiometer (which is mechanically linked to the valve stem) inside the limitorque valve operator became misadjusted. Thus, the valve could not respond properly to demand signals from the remote valve position controller. Adjustment of the feedback potentiometer allowed the valve to function properly. The feedback potentiometer is a Model 5611 R1K(1)L.5 Helipot manufactured by Beckman Instruments, Inc.. The valves are 12"-300 PSI USA standard valve assemblies manufactured by Copes-Vulcan, a division of Blaw-Knox Co.

An investigation is being conducted in order to determine long-term corrective action. The results of this investigation will be submitted in a supplemental report by August 1, 1977.

