



**Commonwealth Edison**

Dresden Nuclear Power Station

R.R. #1

Morris, Illinois 60450

Telephone 815/942-2920

*DCD*

October 22, 1991

EDE LTR #91-653

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

Licensee Event Report #83-62/01X-2, Docket #050-237 is being submitted as required by Technical Specification 6.6 and NUREG 1022. This revised report is submitted in order to provide an update concerning further investigation into this event, which concerned failure of a High Pressure Coolant Injection Motor Gear Unit signal converter operational amplifier.

*E. D. Eenigenburg*

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

*IE22*

ZDVR/350

9111050219 840216  
PDR ADOCK 05000237  
S PDR

*1991*

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | 1 L D R S 2 | 2 0 0 - 0 0 0 0 0 0 - 0 0 | 3 4 1 1 1 1 | 4 | 5

7 8 9 14 15 25 26 30 37 58

LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT

CON'T

REPORT SOURCE: 01

DOCKET NUMBER: 601050002377081198380216849

EVENT DATE: 62637475

REPORT DATE: 80

### EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | During normal operation, the HPCI motor gear unit (MGU) was observed to  
0 3 | be moving between the high and low speed stops without Operator action.  
0 4 | This event is of minimal safety significance because HPCI could still  
0 5 | automatically initiate, and Operator action was taken to manually set  
0 6 | flow at the high speed stop. There was no affect on public health or  
0 7 | safety. A previous event of this type was reported on R.O. 82-27 on  
0 8 | Docket 50-237.

SYSTEM CODE 09		CAUSE CODE S F 11		CAUSE SUBCODE E 12		COMPONENT CODE A 13 I N S T R U 14						COMP. SUBCODE C 15		VALVE SUBCODE Z 16			
LER/RO REPORT NUMBER 17		EVENT YEAR 83 21 22		SEQUENTIAL REPORT NO. 062 23 24 26		OCCURRENCE CODE 01 27 29		REPORT TYPE X 30 31		REVISION NO. 2 32							
ACTION TAKEN A 18 33		FUTURE ACTION X 19 34		EFFECT ON PLANT Z 20 35		SHUTDOWN METHOD Z 21 36		HOURS 0000 22 37 40		ATTACHMENT SUBMITTED Y 23 41		NPRD-4 FORM SUB. Y 24 42		PRIME COMP. SUPPLIER N 25 43		COMPONENT MANUFACTURER T109 26 44 47	

### CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The cause was failure of a MGU signal converter operational amplifier,  
1 1 which was replaced. Elevated ambient temperatures were originally  
1 2 suspected to be a contributing factor; however, further investigation  
1 3 concluded that this electronic circuit board component failure was random  
1 4 in nature.

FACILITY STATUS		% POWER		OTHER STATUS (30)		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION (32)				
1	5	E	(28)	1	0	0	(29)	N/A	A	(31)	Operator Observation	(32)

ACTIVITY RELEASED		CONTENT OF RELEASE	AMOUNT OF ACTIVITY	LOCATION OF RELEASE
1	6	Z	N/A	N/A

PERSONNEL EXPOSURES			
NUMBER	TYPE	DESCRIPTION (39)	
1 7	0 0 0 (37) Z (38)	N/A	

PERSONNEL INJURIES		DESCRIPTION	
NUMBER			
18	000	(40)	N/A

7		8		9		10		11		12		
LOSS OF OR DAMAGE TO FACILITY						(43)						
TYPE						DESCRIPTION						
1		9		Z		(42)		N/A				

7 8 9 10  
 PUBLICITY  
 ISSUED DESCRIPTION (45)  
 (2) (0) (N) (44) N/A  
 NRC USE ONLY

10  
NAME OF PREPARER Mark Churilla

PHONE: <sup>88 89</sup> (815) 942-2920 X 2788

070-11040

ATTACHMENT TO LICENSEE EVENT REPORT 83-62/01X-2  
COMMONWEALTH EDISON COMPANY (CWE)  
DRESDEN UNIT 2 (ILDRS 2)  
DOCKET # 050-237

During normal operation, an Operator observed the High Pressure Coolant Injection (HPCI) motor gear unit (MGU) moving between the high speed stop and low speed stop. The safety significance was considered minimal because HPCI could still initiate automatically, and the flow was manually controllable.

Elevated ambient temperatures were originally believed to be a contributing factor to this event. However, upon further investigation, it was concluded that this electronic circuit board component failure was random in nature. Failures of this type have not been a recurring adverse trend. Insulation improvements have been made to the HPCI piping in order to help limit heat input to the HPCI room and periodic thermography inspections have been instituted in order to monitor high/low pressure interfaces. Therefore, no further actions concerning the signal converter are required at this time.