

50-237

## NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL 814411

FILE NUMBER  
INCIDENT REPORT

TO:

Mr. James G. Keppler

FROM:

Commonwealth Edison Company  
Morris, Ill.  
B. B. Stephenson

DATE OF DOCUMENT

4/29/77

DATE RECEIVED

5/23/77

☒ LETTER☐ NOTORIZED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

☒ ORIGINAL☒ UNCLASSIFIED☐ COPY

1 signed

DESCRIPTION

DO NOT REMOVE  
ACKNOWLEDGED

PLANT NAME:

Dresden Unit No. 2

RJL

(1-P)

ENCLOSURE

Licensee Event Report (RO 50-237/1977-15)  
on 4/2/77 concerning control rod drive L-5  
being found to uncouple and overtravel when  
withdrawn to position 48....

(2-P)

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED  
SEND DIRECTLY TO KREGER/J. COLLINS

## FOR ACTION/INFORMATION

BRANCH CHIEF:

ZIEMANN

W/3 CYS FOR ACTION

LIC. ASST.:

DIGGS

W/1 CYS

ACRS 16 CYS ~~REPORTING~~ SENT

AS CAT B

## INTERNAL DISTRIBUTION

REG FILE

NRC-PDR

I &amp; E (2)

MIPC

SCHROEDER/IPPOLITO

HOUSTON

NOVAK/CHECK

GRIMES

BUTLER

HANAUER

TEDESCO/MACCARY

EISENHUT

BAER

SHAO

VOLLMER/BUNCH

KREGER/J. COLLINS

## EXTERNAL DISTRIBUTION

LPDR: MORRIS ILL.

TIC:

NSIC:

CONTROL NUMBER

771440148





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

*D. Lantorn*

BBS Ltr. # 77-379

April 29, 1977

**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



Enclosed please find Reportable Occurrence report number 50-237/1977-15.  
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*

B. B. Stephenson  
Station Superintendent  
Dresden Nuclear Power Station

BBS/skm

Enclosure

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

771440118

MAY 4 1977



100-100000

100-100000

# LICENSEE EVENT REPORT

CONTROL BLOCK:         
16

[PLEASE PRINT ALL REQUIRED INFORMATION]

| LICENSEE NAME   | LICENSE NUMBER                            | LICENSE TYPE      | EVENT TYPE |
|---|---|-------------------|------------|
| 01   I   L   D   R   S   2  | 0   0   -   0   0   0   0   0   -   0   0 | 4   1   1   1   1 | 0   3      |
| 7 8 9                      14    15                      25    26                      30    31    32 |   |                   |            |

| CATEGORY  | REPORT TYPE | REPORT SOURCE | DOCKET NUMBER                 | EVENT DATE            | REPORT DATE           |
|---|-------------|---------------|-------------------------------|-----------------------|-----------------------|
| 01   CONT   | L           | L             | 0   5   0   -   0   2   3   7 | 0   4   0   2   7   7 | 0   4   2   9   7   7 |
| 7 8                      57    58                      59    60                      61                      68    69                      74    75                      80 |             |               |                               |                       |                       |

EVENT DESCRIPTION

02 | During routine start-up operations, control rod drive (CRD) L-5 was found to uncouple  
03 | and overtravel when withdrawn to position 48. L-5 was immediately inserted and  
04 | electrically disarmed. Reactor start-up operations were resumed after it had been  
05 | determined that the position and core location of the L-5 control rod did not  
06 | adversely affect core symmetry. At a reactor power level of approximately 30%, L-5

| SYSTEM CODE  | CAUSE CODE | COMPONENT CODE        | PRIME COMPONENT SUPPLIER | COMPONENT MANUFACTURER | VIOLATION |
|--|------------|-----------------------|--------------------------|------------------------|-----------|
| 07   R   B   | E          | C   R   D   R   V   E | N                        | G   O   8   0          | N         |
| 7 8 9 10                      11                      12                      17                      43                      44                      47                      48 |            |                       |                          |                        |           |

(continued)

CAUSE DESCRIPTION

08 | Symptom and performance evaluations indicate that a loosened CRD inner filter may  
09 | potentially cause the blade and drive to uncouple at the fully withdrawn position.  
10 | Loosening of the filter may have resulted from a combination of improper installation

| FACILITY STATUS   | % POWER   | OTHER STATUS | METHOD OF DISCOVERY | DISCOVERY DESCRIPTION |
|---|-----------|--------------|---------------------|-----------------------|
| 11   C  | 0   0   0 | NA           | A                   | NA                    |
| 7 8 9                      10                      12    13                      44    45                      46                      80 |           |              |                     |                       |

(continued)

| 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   0   0   0  | Z    | NA          |
| 7 8 9                      11    12    13                      80 |      |             |

PERSONNEL INJURIES

| NUMBER  | DESCRIPTION |
|---|-------------|
| 14   0   0   0  | 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: Robert Herbert

PHONE: Ext. 265



EVENT DESCRIPTION (continued)

was withdrawn to position 48 and checked for overtravel. The overtravel check proved satisfactory, verifying that CRD L-5 was recoupled and operable.  
(50-237/1977-15)

CAUSE DESCRIPTION (continued)

and latching spring fatigue. It has been determined that a loosened filter cannot exert sufficient pressure to uncouple the blade except when the drive is fully withdrawn to position 48; upon insertion, the blade and drive automatically recouple. Because the potential for uncoupling the blade exists only when the drive is fully withdrawn, the safety implications of this event are minimal.

As a precautionary measure, an operating order has been issued to ensure that a coupling check is performed whenever drive L-5 is withdrawn to position 48. During the next Unit-2 refueling outage, CRD L-5 will be disassembled and inspected. If another primary cause of failure is determined at that time, a supplemental report will be submitted. Control rod drive/blade uncoupling incidents have occurred several times in the past.

RECEIVED DOCUMENT  
PROCESSING UNIT

1971 MAY 20 PM 1 56

JOE L. HIGGINS