

50-237

NRC DISTRIBUTION FOR INCIDENT 50 DOCKET MATERIAL

FILE NUMBER  
INCIDENT REPORT

TO: J.G. KERPLER

FROM: COMMONWEALTH EDISON COM  
MORRIS, ILLINOIS  
B.B. STEPHENSON

DATE OF DOCUMENT

3/21/77

DATE RECEIVED

3/24/77

LETTER  
 ORIGINAL  
 COPY

NOTORIZED  
 UNCLASSIFIED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

1 CY RECEIVED

DESCRIPTION

LTR. TRANS THE FOLLOWING.....

**ACKNOWLEDGED** (1P)

PLANT NAME: DRESDEN # 2

SAB

**DO NOT REMOVE**

ENCLOSURE

LICENSEE EVENT REPORT FOR R.O.# 77-9, ON 3/7/77  
CONCERNING AN ATTEMPT THAT WAS MADE TO REPLACE A  
BURNED-OUT INDICATING LIGHT BULB FOR THE FEED  
BREAKER TO MOTOR CONTROL CENTER (MCC) 28-2...

(2P)

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

FOR ACTION/INFORMATION

BRANCH CHIEF:	<i>Ziemann</i>
W/3 CYS FOR ACTION	
LIC. ASST.:	<i>Diggs</i>
W/1 CYS	
ACRS / 6 CYS HOLDING/SENT	<i>AS CAT B</i>

INTERNAL DISTRIBUTION

<u>REG FILE</u>			
NRC PDR			
I & E (2)			
MIPC			
SCHROEDER/IPPOLITO			
HOUSTON			
NOVAK/CHECK			
GRIMES			
CASE			
BUTLER			
HANAUER			
TEDESCO/MACCARY			
EISENHUT			
BAER			
SHAO			
VOLLMER/BUNCH			
KREGER/J. COLLINS			

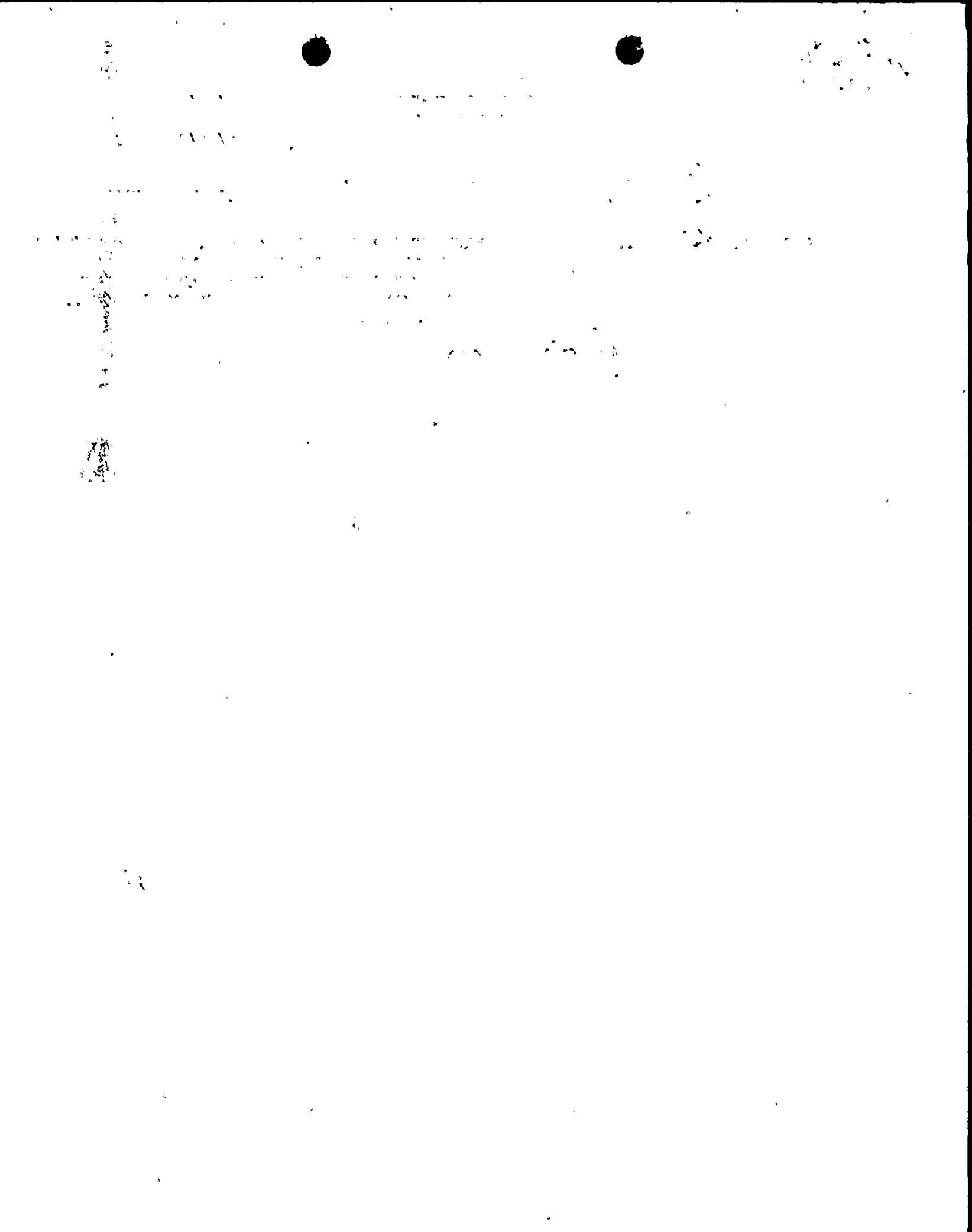
EXTERNAL DISTRIBUTION

LPDR:	<i>Moore, T</i>		
TIC:			
NSIC:			

CONTROL NUMBER

*770870115*

*[Signature]*





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

**REGULATORY DOCUMENT COPY**

BBS Ltr. #77-231

March 21, 1977

**REGULATORY DOCUMENT COPY**

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 50-237/1977-9. This report is being submitted to your office in accordance with the Dresden Nuclear Power Station Technical Specifications, Section 6.6.B.

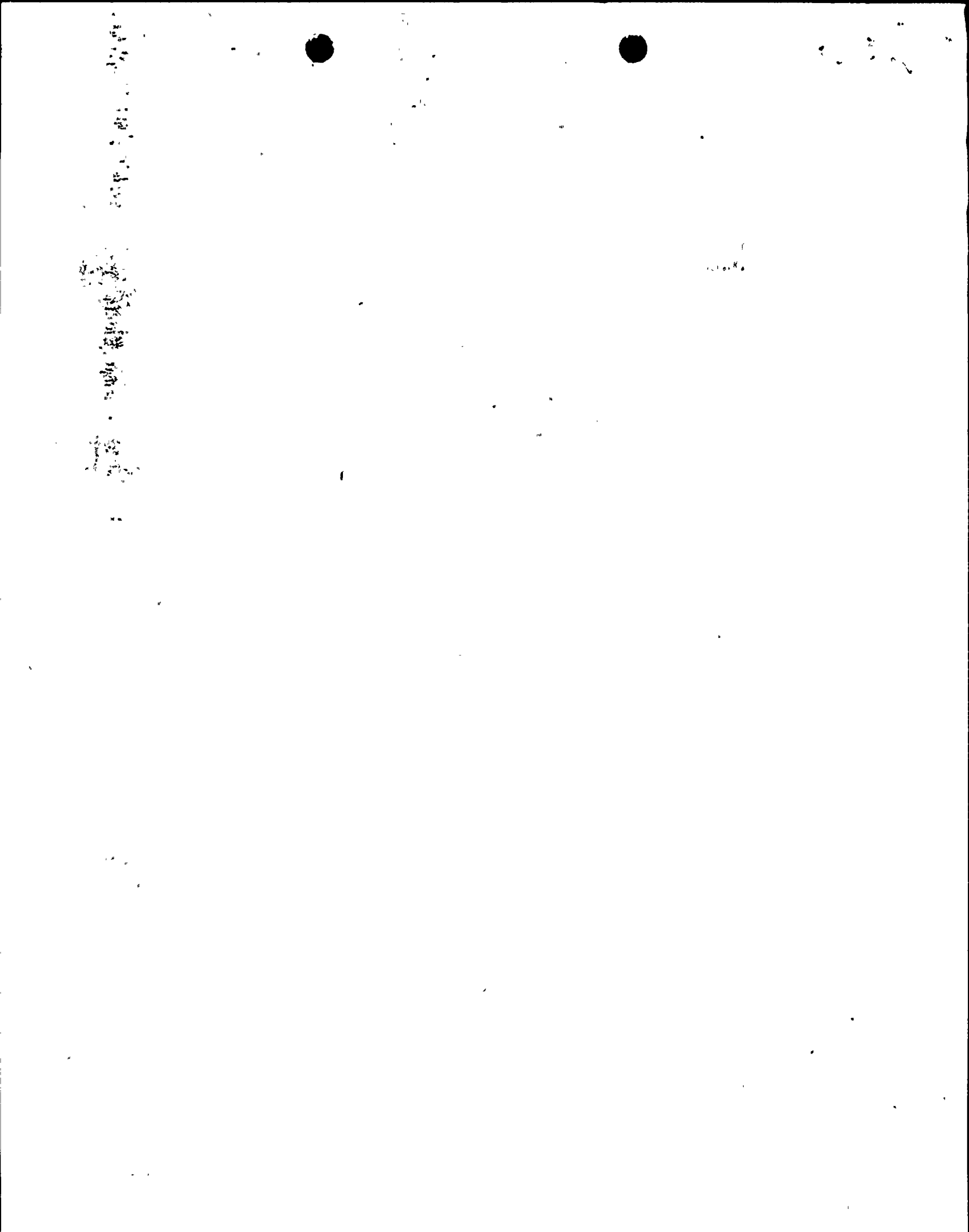
B. B. Stephenson  
 Station Superintendent  
 Dresden Nuclear Power Station

BBS:jo

Enclosure

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

770870115  
~~770870115~~



# LICENSEE EVENT REPORT

CONTROL BLOCK: 

--	--	--	--	--	--	--	--

[PLEASE PRINT ALL REQUIRED INFORMATION]

LICENSEE NAME: 

0	1	I	L	D	R	S	2
---	---	---	---	---	---	---	---

 LICENSE NUMBER: 

0	0	-	0	0	0	0	0	-	0	0
---	---	---	---	---	---	---	---	---	---	---

 LICENSE TYPE: 

4	1	1	1	1
---	---	---	---	---

 EVENT TYPE: 

0	1
---	---

CATEGORY: 

0	1
---	---

 CONT REPORT TYPE: 

T
---

 REPORT SOURCE: 

L
---

 DOCKET NUMBER: 

0	5	0	-	0	2	3	7
---	---	---	---	---	---	---	---

 EVENT DATE: 

0	3	0	7	7	7
---	---	---	---	---	---

 REPORT DATE: 

0	3	2	1	7	7
---	---	---	---	---	---

## EVENT DESCRIPTION

0	2
---	---

 During normal operation, an attempt was made to replace a burned-out indicating  

0	3
---	---

 light bulb for the feed breaker to motor control center (MCC) 28-2. The light  

0	4
---	---

 bulb shorted in its socket, tripping the feed to MCC 28-2. This indirectly  

0	5
---	---

 removed the normal supply to RPS bus "B" (scram bus) and the instrument bus,  

0	6
---	---

 which in turn resulted in various system responses, including the loss of all

(Continued)

SYSTEM CODE: 

C	H
---	---

 CAUSE CODE: 

F
---

 COMPONENT CODE: 

Z	Z	Z	Z	Z	Z
---	---	---	---	---	---

 PRIME COMPONENT SUPPLIER: 

Z
---

 COMPONENT MANUFACTURER: 

Z	9	9	9
---	---	---	---

 VIOLATION: 

N
---

## CAUSE DESCRIPTION

0	8
---	---

 The light bulb glass apparently loosened from its base. When the operator tried  

0	9
---	---

 to remove the bulb, the wires twisted together, shorting out the socket and  

1	0
---	---

 energizing the main feed trip coil. The bulb and socket were subsequently

(Continued)

FACILITY STATUS: 

E
---

 % POWER: 

0	9	2
---	---	---

 OTHER STATUS: 

NA
----

 METHOD OF DISCOVERY: 

A
---

 DISCOVERY DESCRIPTION: 

NA
----

FORM OF ACTIVITY RELEASED: 

Z
---

 CONTENT OF RELEASE: 

Z
---

 AMOUNT OF ACTIVITY: 

NA
----

 LOCATION OF RELEASE: 

NA
----

## PERSONNEL EXPOSURES

NUMBER: 

0	0	0
---	---	---

 TYPE: 

Z
---

 DESCRIPTION: 

NA
----

## PERSONNEL INJURIES

NUMBER: 

0	0	0
---	---	---

 DESCRIPTION: 

NA
----

## OFFSITE CONSEQUENCES

1	5
---	---

 NA

## LOSS OR DAMAGE TO FACILITY

TYPE: 

Z
---

 DESCRIPTION: 

NA
----

## PUBLICITY

1	7
---	---

 NA

## ADDITIONAL FACTORS

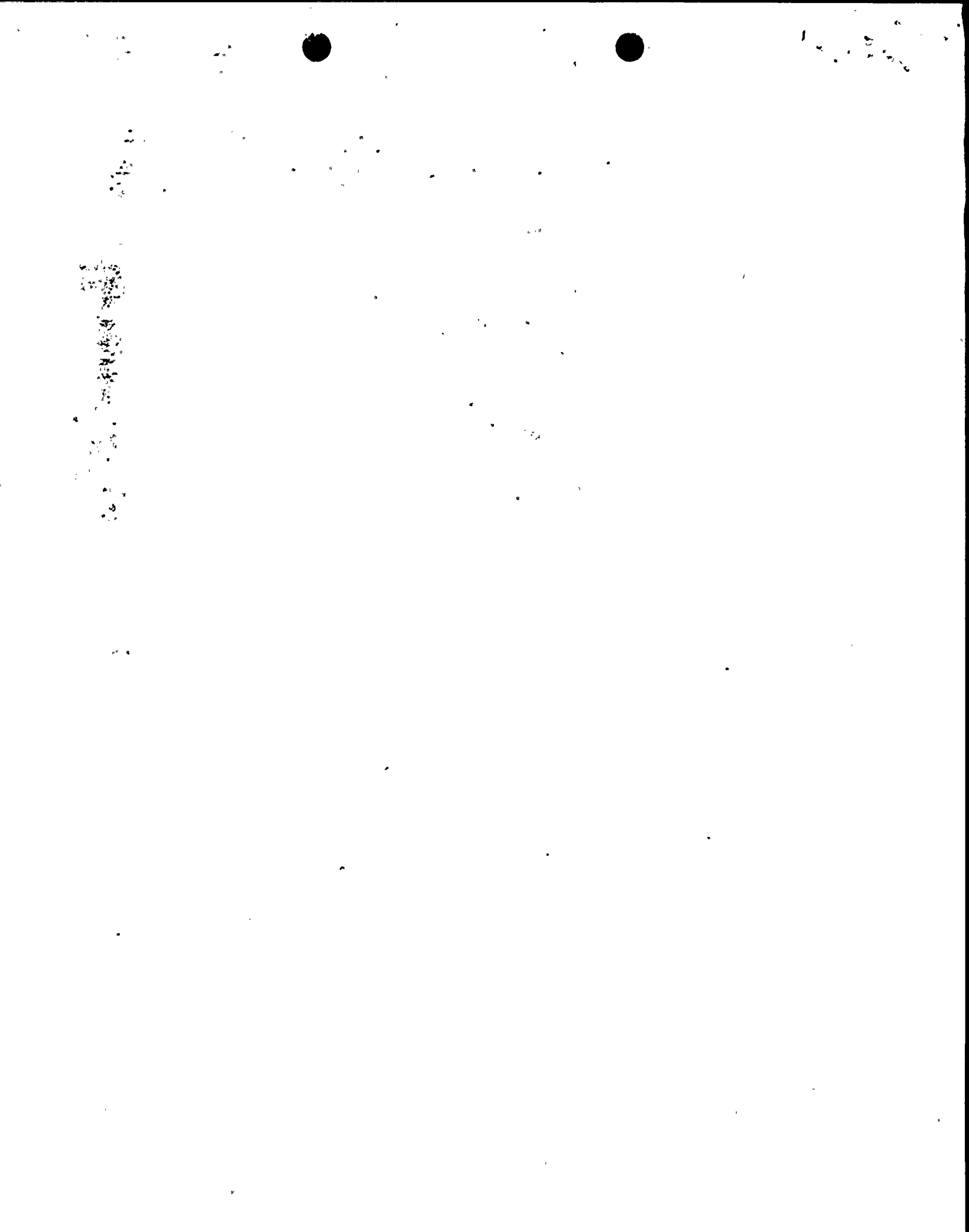
1	8
---	---

 NA

1	9
---	---

NAME: T. Rausch

PHONE: Ext. 266



EVENT DESCRIPTION (Continued)

extraction steam to the feedwater heaters. The decreasing feedwater temperature caused reactor power to increase, which the unit operator effectively countered by inserting several control rods. Feedwater temperature decreased as much as 150°F before the heaters were returned to service.

The applicable reload license submittal analysis for Unit-2 assumed only a 100°F feedwater temperature loss (loss of a single heater string) to be the limiting cool water injection transient. Accordingly, the station promptly contacted General Electric to determine whether the critical power ratio (CPR) safety limit had been approached or exceeded during the transient. Based on the prevailing reactor conditions and the 100°F analysis, it was determined that no safety limit had been exceeded. This conclusion was upheld by the results of a bounding analysis of the event performed by the company's Nuclear Fuel Services department. NFS determined that a considerable margin had been maintained between minimum CPR and the safety limit.

Following the event, air ejector off-gas analyses were performed with increased frequency. No significant increases in off-gas activity were noted. A description of the occurrence was sent to General Electric for information. No further action was indicated. (50-237/1977-9)

CAUSE DESCRIPTION (Continued)

replaced, and normal feed was restored. No further action was considered appropriate.

RECEIVED DOCUMENT  
PROCESSING UNIT

1977 MAR 25 PM 4 16





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

*London*

BBS Ltr. #77-231

March 21, 1977

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 50-237/1977-9.  
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

MAR 23 1977

91

11/20/67

# LICENSEE EVENT REPORT

CONTROL BLOCK: 

--	--	--	--	--	--

[PLEASE PRINT ALL REQUIRED INFORMATION]

LICENSEE NAME: 

0	1	I	L	D	R	S	2
---	---	---	---	---	---	---	---

 LICENSE NUMBER: 

0	0	-	0	0	0	0	0	-	0	0
---	---	---	---	---	---	---	---	---	---	---

 LICENSE TYPE: 

4	1	1	1	1
---	---	---	---	---

 EVENT TYPE: 

0	1
---	---

CATEGORY: 

0	1
---	---

 REPORT TYPE: 

T
---

 REPORT SOURCE: 

L
---

 DOCKET NUMBER: 

0	5	0	-	0	2	3	7
---	---	---	---	---	---	---	---

 EVENT DATE: 

0	3	0	7	7	7
---	---	---	---	---	---

 REPORT DATE: 

0	3	2	1	7	7
---	---	---	---	---	---

### EVENT DESCRIPTION

02 | During normal operation, an attempt was made to replace a burned-out indicating  
7 8 9 |  
03 | light bulb for the feed breaker to motor control center (MCC) 28-2. The light  
7 8 9 |  
04 | bulb shorted in its socket, tripping the feed to MCC 28-2. This indirectly  
7 8 9 |  
05 | removed the normal supply to RPS bus "B" (scram bus) and the instrument bus,  
7 8 9 |  
06 | which in turn resulted in various system responses, including the loss of all  
7 8 9 |

(Continued) 80

SYSTEM CODE: 

C	H
---	---

 CAUSE CODE: 

F
---

 COMPONENT CODE: 

Z	Z	Z	Z	Z	Z
---	---	---	---	---	---

 PRIME COMPONENT SUPPLIER: 

Z
---

 COMPONENT MANUFACTURER: 

Z	9	9	9
---	---	---	---

 VIOLATION: 

N
---

### CAUSE DESCRIPTION

08 | The light bulb glass apparently loosened from its base. When the operator tried  
7 8 9 |  
09 | to remove the bulb, the wires twisted together, shorting out the socket and  
7 8 9 |  
10 | energizing the main feed trip coil. The bulb and socket were subsequently  
7 8 9 |

(Continued) 80

FACILITY STATUS: 

E
---

 % POWER: 

0	9	2
---	---	---

 OTHER STATUS: 

NA
----

 METHOD OF DISCOVERY: 

A
---

 DISCOVERY DESCRIPTION: 

NA
----

FORM OF ACTIVITY RELEASED: 

Z
---

 CONTENT OF RELEASE: 

Z
---

 AMOUNT OF ACTIVITY: 

NA
----

 LOCATION OF RELEASE: 

NA
----

### PERSONNEL EXPOSURES

13 | NUMBER: 

0	0	0
---	---	---

 TYPE: 

Z
---

 DESCRIPTION: 

NA
----

### PERSONNEL INJURIES

14 | NUMBER: 

0	0	0
---	---	---

 DESCRIPTION: 

NA
----

### OFFSITE CONSEQUENCES

15 | 

NA
----

### LOSS OR DAMAGE TO FACILITY

16 | TYPE: 

Z
---

 DESCRIPTION: 

NA
----

### PUBLICITY

17 | 

NA
----

### ADDITIONAL FACTORS

18 | 

NA
----

19 | 

--

NAME: T. Rausch PHONE: Ext. 266

10-11-12  
10-11-12

EVENT DESCRIPTION (Continued)

extraction steam to the feedwater heaters. The decreasing feedwater temperature caused reactor power to increase, which the unit operator effectively countered by inserting several control rods. Feedwater temperature decreased as much as 150°F before the heaters were returned to service.

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CAUSE DESCRIPTION (Continued)

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(10)