

LICENSEE EVENT REPORT

Updated report.  
Previous report dated 11/9/82

CONTROL BLOCK: 

|  |  |  |  |  |  |
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(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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|---|---|--------------------|--|--|--|--|--|--|--|--|--|----|-----------------------|--|--|--|--|--|--|--|--|--|----|-----------------|--|--|--|--|----|-----------|--|---|
| 0 | 1 | I L D R S 3        |  |  |  |  |  |  |  |  |  | 2  | 0 0 - 0 0 0 0 0 - 0 0 |  |  |  |  |  |  |  |  |  | 3  | 4 1 1 1 1       |  |  |  |  | 4  |           |  | 5 |
| 7 | 3 | 9 LICENSEE CODE 14 |  |  |  |  |  |  |  |  |  | 15 | 25 LICENSE NUMBER     |  |  |  |  |  |  |  |  |  | 26 | 30 LICENSE TYPE |  |  |  |  | 34 | 37 CAT 38 |  |   |

CON'T

REPORT SOURCE: 01 L 6 0 5 0 0 0 2 4 9 1 0 2 7 8 2 0 8 3 1 8 3

DOCKET NUMBER: 90 61 68 69 74 75 80

EVENT DATE: 68 69 74 75 80

REPORT DATE: 75 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

0 2 | During normal operations, an excessive amount of water was discovered leaking from  
0 3 | the 3B recirculating seal cavity (Tech Spec 6.6.B.1.c). An orderly load reduction  
0 4 | was commenced to isolate the 3B recirc. pump. The event was of minimal safety  
0 5 | significance since all leakage was contained in drywell floor drain system. There  
0 6 | was no effect on public health or safety. First occurrence of this type reported  
0 7 | at Dresden.

|                      |    |               |    |                       |    |                 |    |             |    |                      |    |                 |    |                      |    |                        |    |    |    |   |    |   |   |    |    |
|----------------------|----|---------------|----|-----------------------|----|-----------------|----|-------------|----|----------------------|----|-----------------|----|----------------------|----|------------------------|----|----|----|---|----|---|---|----|----|
| 0                    | 9  |               |    |                       |    |                 |    |             |    |                      |    | 90              |    |                      |    |                        |    |    |    |   |    |   |   |    |    |
| SYSTEM CODE          |    | CAUSE CODE    |    | CAUSE SUBCODE         |    | COMPONENT CODE  |    |             |    | COMP SUBCODE         |    | VALVE SUBCODE   |    |                      |    |                        |    |    |    |   |    |   |   |    |    |
| C                    | B  | 11            | E  | 12                    | B  | 13              | P  | U           | M  | P                    | X  | X               | 14 | B                    | 15 | Z                      | 16 |    |    |   |    |   |   |    |    |
| LER RO REPORT NUMBER |    | EVENT YEAR    |    | SEQUENTIAL REPORT NO. |    | OCCURRENCE CODE |    | REPORT TYPE |    | REVISION NO.         |    |                 |    |                      |    |                        |    |    |    |   |    |   |   |    |    |
| 17                   | 8  | 2             | 21 | 22                    | 0  | 4               | 2  | 24          | 25 | 1                    | 26 | 27              | 0  | 1                    | 28 | 29                     | X  | 30 | 31 | 1 | 32 |   |   |    |    |
| ACTION TAKEN         |    | FUTURE ACTION |    | EFFECT ON PLANT       |    | SHUTDOWN METHOD |    | HOURS       |    | ATTACHMENT SUBMITTED |    | NPR-4 FORM SUB. |    | PRIME COMP. SUPPLIER |    | COMPONENT MANUFACTURER |    |    |    |   |    |   |   |    |    |
| A                    | 18 | Z             | 19 | A                     | 20 | A               | 21 | 0           | 0  | 7                    | 8  | 37              | 40 | Y                    | 23 | Y                      | 24 | N  | 25 | G | 0  | 8 | 0 | 25 | 46 |

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | The cause of the leakage was attributed to failure due to excessive heat of the 3B

1 1 | recirc. pump rotating hardface seal (EPN 24610). Unit was manually shut down and

1 2 | the seals were replaced. Seal performance will continue to be monitored during

1 3 | normal operations.

|                 |    |         |      |    |    |                   |      |     |    |                     |    |    |      |                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------------|----|---------|------|----|----|-------------------|------|-----|----|---------------------|----|----|------|----------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1               | 4  |         |      |    |    |                   |      |     |    |                     |    |    |      |                            |    |    |    | 80 |    |    |    |    |    |    |    |    |    |    |    |    |
| 7               | 8  |         |      |    |    |                   |      |     |    |                     |    |    |      |                            |    |    |    | 80 |    |    |    |    |    |    |    |    |    |    |    |    |
| FACILITY STATUS |    | % POWER |      |    |    | OTHER STATUS (30) |      |     |    | METHOD OF DISCOVERY |    |    |      | DISCOVERY DESCRIPTION (32) |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1               | 5  | E       | (23) | 0  | 9  | 8                 | (29) | N/A |    |                     |    | A  | (31) | Operator Observation       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 10              | 11 | 12      | 13   | 14 | 15 | 16                | 17   | 18  | 19 | 20                  | 21 | 22 | 23   | 24                         | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |

ACTIVITY CONTENT  
RELEASED OF RELEASE

1 6 2 33 2 34 N/A

AMOUNT OF ACTIVITY (35)

LOCATION OF RELEASE (36)

N/A

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

| PERSONNEL INJURIES |             |
|--------------------|-------------|
| NUMBER             | DESCRIPTION |
| 1 3 0 0 0 40       | N/A         |

| 1 |  | 2 |  | 3 |  | 4 |  | 5 |  | 6 |  | 7 |  | 8 |  | 9 |  | 10 |  | 11 |  | 12 |  | 13 |  | 14 |  | 15 |  | 16 |  | 17 |  | 18 |  | 19 |  | 20 |  | 21 |  | 22 |  | 23 |  | 24 |  | 25 |  | 26 |  | 27 |  | 28 |  | 29 |  | 30 |  | 31 |  | 32 |  | 33 |  | 34 |  | 35 |  | 36 |  | 37 |  | 38 |  | 39 |  | 40 |  | 41 |  | 42 |  | 43 |  | 44 |  | 45 |  | 46 |  | 47 |  | 48 |  | 49 |  | 50 |  | 51 |  | 52 |  | 53 |  | 54 |  | 55 |  | 56 |  | 57 |  | 58 |  | 59 |  | 60 |  | 61 |  | 62 |  | 63 |  | 64 |  | 65 |  | 66 |  | 67 |  | 68 |  | 69 |  | 70 |  | 71 |  | 72 |  | 73 |  | 74 |  | 75 |  | 76 |  | 77 |  | 78 |  | 79 |  | 80 |  | 81 |  | 82 |  | 83 |  | 84 |  | 85 |  | 86 |  | 87 |  | 88 |  | 89 |  | 90 |  | 91 |  | 92 |  | 93 |  | 94 |  | 95 |  | 96 |  | 97 |  | 98 |  | 99 |  | 100 |  |
|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|-----|--|
| 1 |  | 2 |  | 3 |  | 4 |  | 5 |  | 6 |  | 7 |  | 8 |  | 9 |  | 10 |  | 11 |  | 12 |  | 13 |  | 14 |  | 15 |  | 16 |  | 17 |  | 18 |  | 19 |  | 20 |  | 21 |  | 22 |  | 23 |  | 24 |  | 25 |  | 26 |  | 27 |  | 28 |  | 29 |  | 30 |  | 31 |  | 32 |  | 33 |  | 34 |  | 35 |  | 36 |  | 37 |  | 38 |  | 39 |  | 40 |  | 41 |  | 42 |  | 43 |  | 44 |  | 45 |  | 46 |  | 47 |  | 48 |  | 49 |  | 50 |  | 51 |  | 52 |  | 53 |  | 54 |  | 55 |  | 56 |  | 57 |  | 58 |  | 59 |  | 60 |  | 61 |  | 62 |  | 63 |  | 64 |  | 65 |  | 66 |  | 67 |  | 68 |  | 69 |  | 70 |  | 71 |  | 72 |  | 73 |  | 74 |  | 75 |  | 76 |  | 77 |  | 78 |  | 79 |  | 80 |  | 81 |  | 82 |  | 83 |  | 84 |  | 85 |  | 86 |  | 87 |  | 88 |  | 89 |  | 90 |  | 91 |  | 92 |  | 93 |  | 94 |  | 95 |  | 96 |  | 97 |  | 98 |  | 99 |  | 100 |  |

7 8 9 10  
PUBLICITY  
ISSUED DESCRIPTION (45)  
2 0 N (44) N/A  
8309230326 830831  
PDR ADOCK 05000249  
S PDR  
NRC USE ONLY

NAME OF PREPARER K.D. Beverly

PHONE: (815) 942-2920 x526



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

August 31, 1983

DJS Ltr #83-853

James G. Keppler, Regional Administrator  
Region III  
U.S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, IL 60137

Updated Reportable Occurrence Report #82-42/01X-1, Docket #050-249 is being submitted to your office in accordance with Dresden Nuclear Power Station Technical Specification 6.6.B.1.(c), abnormal degradation discovered in fuel cladding, reactor coolant pressure boundary, or primary containment. This update addresses results of an examination of the recirculation pump seals by Technical Services.

D.J. Scott  
Station Superintendent  
Dresden Nuclear Power Station

DJS/kjl

Enclosure

cc: Director of Inspection & Enforcement  
Director of Management Information & Program Control  
U.S. NRC, Document Management Branch  
File/NRC

SEP 13 1983

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ATTACHMENT TO LICENSEE EVENT REPORT 82-42/01X-1  
COMMONWEALTH EDISON COMPANY (CWE)  
DRESDEN UNIT 3 (1LDRS-3)  
DOCKET # 50-249

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES

During normal operation at approximately 2300 on October 27, 1982 an excessive amount of water was discovered leaking from the 3B recirculation pump seal. An orderly load reduction was initiated to isolate the 3B recirc pump. The event was of minimal safety significance since all leakage was contained inside the drywell and directed to the drywell floor drain system. The drywell sump pumps indicated approximately 41.5 gpm into primary containment which was in excess of the Tech Spec limit of 5 gpm. Therefore, a Generating Station Emergency Plan Unusual Event was declared. This condition was terminated after the recirc pump was successfully isolated and a subsequent leakage check showed total leakage to be 4 gpm. There was no effect on public health or safety. This is a first occurrence at Dresden Station.

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS

The cause of the leakage was due to failure of the 3B recirculation pump rotating hard face seal (EPN 24610). The unit was shutdown and the seals were replaced. An examination performed by Technical Services has shown that "heat checking" marks were visible throughout the effected area of the seal. Technical Services has concluded that insufficient lubrication caused the heat checking. Lubrication to the seals is provided by water from the Control Rod Drive system. Normal flow to the seal cavity is approximately 1 gpm. Operators are required to check this flow once a week. Flow to the seals is now approximately 2 gpm. Seal parameters will continue to be monitored. The examination of the seals by Technical Services yielded no evidence of other types of failure.

# SUPPLEMENT TO DVR

| DVR NO. |      |      |      |  |
|---------|------|------|------|--|
| STA     | UNIT | YEAR | NO.  |  |
| D - 12  | - 3  | - 82 | - 70 |  |

|   |   |                             |
|---|---|-----------------------------|
| <b>PART 1</b>   | <b>TITLE OF EVENT</b>                                       | <b>OCCURRED</b>             |
|   | Failure of Recirc Pump 3B Seals                             | <u>10/27/82</u> <u>2300</u> |
|   | <b>REASON FOR SUPPLEMENTAL REPORT</b>                       | <b>DATE</b> <b>TIME</b>     |
|   | Updated report addresses results of examination of seals by |                             |
|   | Technical Services  |                             |
|   |   |                             |
|   |   |                             |
| <b>PART 2</b>   |   |                             |
| ACCEPTANCE BY STATION REVIEW                                    | <u>J. Brunner</u> <u>J. A. Cusla</u>                        |                             |
| DATE  | <u>9/2/83</u> <u>9-6-83</u>                                 |                             |
| SUPPLEMENTAL REPORT APPROVED<br>AND AUTHORIZED FOR DISTRIBUTION | <u>Douglas Hart</u><br>STATION SUPERINTENDENT               | <u>9/6/83</u><br>DATE       |