



**Commonwealth Edison**

Dresden Nuclear Power Station

R.R. #1

Morris, Illinois 60450

Telephone 815/942-2920

March 9, 1983

DJS Ltr. #83-255

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

A copy of Deviation Report #12-2/3-83-16 is being submitted to your office in accordance with 10 CFR 20.405 to report occurrences where levels of radiation or concentrations of radioactive material in an unrestricted area exceed any applicable limit set forth in 10 CFR 20.405 of in the license. This report describes the event and corrective actions being taken to prevent recurrence.

D. J. Scott  
Station Superintendent  
Dresden Nuclear Power Station

DJS/nh

Enclosure

cc/ Director of Inspection & Enforcement  
File/NRC  
File/B. Schroeder

MAR 10 1983

8303150611 830309  
PDR ADOCK 05000237  
S PDR

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# SUPPLEMENTAL DVR

D - 1 2 - 2 3 - 8 3 - 1 6 (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 | X | X | X | X | X | 4 | X | X | 5  
7 8 9 14 15 25 26 30 57 58  
 LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT 58

CON'T  
 0 1 | REPORT SOURCE | X | 6 | X | X | X | X | X | X | X | X | 7 | 0 | 2 | 0 | 7 | 8 | 3 | 8 | 0 | 3 | 0 | 9 | 8 | 3 | 9  
7 8 60 61 68 69 74 75 80  
 DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

0 2 | During a drain and refill of the 2/3A heating boiler to reduce the level of radioac-  
 0 3 | tive contamination that had concentrated in the A heating boiler, the contaminated  
 0 4 | water was inadvertently discharged to the storm sewer system. Administrative limit  
 0 5 | for radioactive contamination in heating boilers is 10,000 pci/l. The contamination  
 0 6 | level at the time of draining was  $4.6 \times 10^4$  pci/l. During the heating boiler flush,  
 0 7 | approximately 700 gallons of water was drained to a floor drain which drains to a  
 0 8 | storm sewer which in turn, drains to the river discharge canal. The discharge canal  
7 8 9 (over) 80

0 9 | SYSTEM CODE | X | X | 11 | CAUSE CODE | A | 12 | CAUSE SUBCODE | B | 13 | COMPONENT CODE | X | X | X | X | X | X | 14 | COMP. SUBCODE | Z | 15 | VALVE SUBCODE | Z | 16  
7 8 9 10 11 12 13 18 19 20  
 17 | DVR REPORT NUMBER | 8 | 3 | 21 | 22 | SEQUENTIAL REPORT NO. | 0 | 1 | 6 | 24 | 26 | OCCURRENCE CODE | / | 27 | REPORT TYPE | X | 30 | REVISION NO. | 0 | 32  
21 22 23 24 26 27 28 29 30 31 32  
 ACTION TAKEN | G | 18 | FUTURE ACTION | H | 19 | EFFECT ON PLANT | Z | 20 | SHUTDOWN METHOD | Z | 21 | HOURS | 0 | 0 | 0 | 0 | 22 | ATTACHMENT SUBMITTED | N | 23 | NPRO-4 FORM SUB. | X | 24 | PRIME COMP. SUPPLIER | Z | 25 | COMPONENT MANUFACTURER | Z | 9 | 9 | 9 | 26  
33 34 35 36 37 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

1 0 | The operator who was draining the 2/3A heating boiler did not realize that the floor  
 1 1 | drain being used did not go to the Radwaste system. The floor drain valves have  
 1 2 | been locked and closed to prevent inadvertent use. New procedures for draining and  
 1 3 | blowing down clean and radioactively contaminated heating boilers have been written  
 1 4 | and approved. (DOP 5700-8 and DOP 5700-9). In addition, operations personnel will  
7 8 9 (over) 80

1 5 | FACILITY STATUS | H | 28 | % POWER | 0 | 0 | 0 | 29 | OTHER STATUS | N/A | 30 | METHOD OF DISCOVERY | B | 31 | DISCOVERY DESCRIPTION | Operator Observation | 32  
7 8 9 10 12 13 44 45 46 80

1 6 | ACTIVITY CONTENT | L | 33 | RELEASED OF RELEASE | P | 34 | AMOUNT OF ACTIVITY | .12 millicuries | 35 | LOCATION OF RELEASE | Storm sewers/canal/lake | 36  
7 8 9 10 11 44 45 80

1 7 | PERSONNEL EXPOSURES | 0 | 0 | 0 | 37 | TYPE | Z | 38 | DESCRIPTION | N/A | 39  
7 8 9 11 12 13 80

1 8 | PERSONNEL INJURIES | 0 | 0 | 0 | 40 | DESCRIPTION | N/A | 41  
7 8 9 11 12 80

1 9 | LOSS OF OR DAMAGE TO FACILITY | Z | 42 | DESCRIPTION | N/A | 43  
7 8 9 10 80

2 0 | PUBLICITY ISSUED | N | 44 | DESCRIPTION | N/A | 45  
7 8 9 10 80

Event Description and Probable Consequences (con't)

samples for that period of time were LLD. Therefore, the station's Tech. Spec. of 100 pci/l in the discharge canal was not exceeded and all discharges to the river were below 10CFR 20 Appendix B limits for general public. Unit operation was not affected by this occurrence. There was no effect on the public health and safety. Similar previous occurrences were reported by Deviation Reports D-12-2-80-39 and D-12-2-76-91.

Cause Description and Corrective Actions (con't)

be trained on the new procedures and this incident during the next six week operator training session starting on March 21, 1983.



DVR NO. 12 - 2/3 - 83 - 16  
STA UNIT YEAR NO.

PART 1 TITLE OF DEVIATION 2/3A Heating Boiler Contamination and Unplanned Discharge of Boiler Blowdown  
OCCURRED Discovered  
2/7/83 1200  
DATE TIME

SYSTEM AFFECTED 5700 Heating Boiler  
PLANT STATUS AT TIME OF EVENT  
MODE D2 Refuel, PWR(MWT) 0, LOAD(MWE) 0  
TESTING YES NO

DESCRIPTION OF EVENT  
On the midnight shift at 0200 hours, the Radwaste Foreman and max recycle operator on duty performed the 2/3 "A" heating boiler blowdown as prescribed in the weekend orders. The operator, under direction of the Radwaste Foreman, opened the blowdown valve from the mud drum of 2/3 "A" boiler to the boiler house floor drain system. The foreman and operator were under the assumption that the floor drains were routed to the 2/3 Radwaste Floor Drain collector. This valve is out of service to prevent blowdown of the boilers to the storm

sewer when the boiler water is contaminated.  
10 CFR 50.72 NRC RED PHONE NOTIFICATION MADE 2/7/83 1300 hr.

EQUIPMENT FAILURE N/A  
WORK REQUEST NO. RESPONSIBLE SUPERVISOR Dean E. Sharper DATE 2/7/83

PART 2 OPERATING ENGINEER'S COMMENTS

2/3 discharge canal samples showed no significant activity. 10CFR 20 limits were not exceeded due to this discharge. The valves that were inadvertently opened were recarded to plainly indicate that they are out of service.

Event reporting checkboxes: EVENT OF PUBLIC INTEREST, TECH. SPEC. VIOLATION, NON REPORTABLE OCCURRENCE, 14 DAY REPORTABLE/T.S., 30 DAY REPORTABLE/T.S., ANNUAL/SPECL REPORT REQ'D, 24-HOUR NRC NOTIFICATION REQ'D, CECO CORPORATE NOTIFICATION MADE, 5-DAY WRITTEN REPORT REQ'D PER 10CFR21. Includes contact info for Tom Tongue and Dennis P. Galle.

PRELIMINARY REPORT COMPLETED AND REVIEWED Michael Wright 2/9/83 OPERATING ENGINEER DATE

INVESTIGATED REPORT & RESOLUTION ACCEPTED BY STATION REVIEW [Signatures: Michael Wright, Jack Brunner] 3-9-83 3/9/83

RESOLUTION APPROVED AND AUTHORIZED FOR DISTRIBUTION [Signature: Douglas D...] 3/9/83 STATION SUPERINTENDENT DATE

Description of Event (con't)

This situation was not recognized by the operator or the Radwaste Foreman involved with the heating boiler flush. At the time "A" heating boiler was blown down to the storm sewer, the radioactivity was  $4.6 \times 10^4$  pci/l per the 2/5/83 sample. The "A" boiler blowdown was secured at 0400 hours on 2/6/83. Total blowdown was 3/4 of the steam drum sight glass which is approximately 700 gal.