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(TEMPORARY FORM)

CONTROL NO: 783

FILE: INCIDENT REPORT

| FROM: Wisconsin Public Service Corp. Green Bay, Wis. 54305 E.W. James | DATE OF DOC 1-21-75 | DATE REC'D 1-23-75 | LTR XX | TWX | RPT | OTHER |
|---|---|---|---|---|---|---|
| TO: Mr. E. Case | ORIG 1 signed | CC | OTHER | SENT AEC PDR XX<br>SENT LOCAL PDR XX | | |
| CLASS | UNCLASS XXX | PROP INFO | INPUT | NO CYS REC'D 1 | DOCKET NO: 50-305 | |

DESCRIPTION: Ltr reporting Abnormal Occurrence AO-50-305/75-2 on 1-9-75 re failure of air operated valve BT-31A, 1A steam generator blowdown sample valve, to close upon isolation signal from R-19 radiation monitor.... w/attchmt

ENCLOSURES:

ACKNOWLEDGED

Do Not Remove

PLANT NAME: Kewaunee

FOR ACTION/INFORMATION DHL 1-25-75

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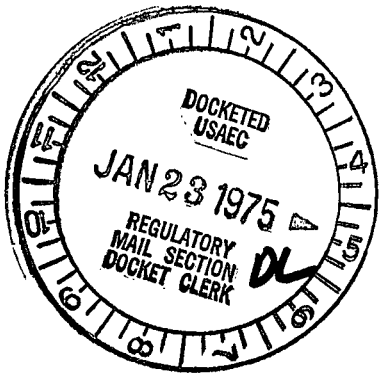
1-J. RUNKLES, RM E-201 G.T.

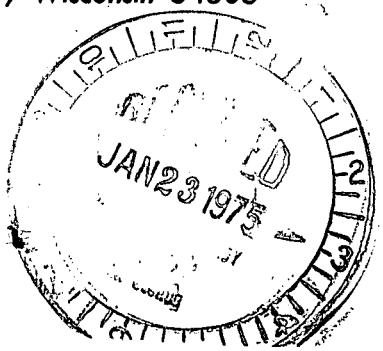
WISCONSIN PUBLIC SERVICE CORPORATION

P.O. Box 1200, Green Bay, Wisconsin 54305

Regulatory Docket File

January 21, 1975




Mr. Edson Case, Acting Director
Directorate of Licensing
Office of Regulation
U. S. Atomic Energy Commission
Washington, D. C. 20545

Dear Mr. Case:

Subject: Docket 50-305
Operating License DPR-43
Abnormal Occurrence Report

In accordance with the requirements of Technical Specifications, Paragraph 6.6.2.a and 1.0.a.1.d, we submit the following:

| | |
|---|---|
| Report Number: | 50-305/75-2 |
| Occurrence Date: | January 9, 1975 |
| Facility: | Kewaunee Nuclear Power Plant<br>Kewaunee, Wisconsin |
| Identification of Occurrence: | Failure of air operated valve BT-31A, 1A steam generator blowdown sample valve, to close upon isolation signal from R-19, radiation monitor. |
| Conditions Prior to Occurrence: | Reactor Critical - 75% power<br>Normal Reactor Coolant System Temperature - 556°F<br>Normal Reactor Coolant System Pressure - 2220 psig/Tavg. |
| Description of Occurrence: | During performance of Surveillance Procedure SP-049 "Radiation Monitoring System Test" valve BT-31A failed to close when radiation monitor R-19 tripped. |
| Analysis of Occurrence: | Valve BT-31A is a redundant valve in the steam generator blowdown sample flow path. Valve BT-31A is located within containment and its backup, valve BT-32A is located outside of containment. Valve BT-32A operated correctly; therefore, no danger existed to the health and safety of the public. The redundant valve BT-32A was closed and remained closed until completion of the repair to valve BT-31A, thereby, assuring containment integrity. |

783

Corrective Action: The cause of failure was investigated and was determined to be a failure of the solenoid valve associated with the air supply to BT-31A. Upon the de-energization of solenoid by R-19, the air solenoid did not stroke and vent air from the BT-31A operator; thereby allow operation of the spring to close BT-31A. The solenoid was tapped with screw driver which resulted in stroking of the solenoid to the de-energized position and operation of BT-31A. Valve BT-31A was then operated in excess of 10 times without failure. The solenoid was then removed for disassembly and inspection. The inspection revealed no evidence as to cause of failure and no imperfections were noted within the solenoid valve body or in any parts of the valve. The solenoid was reassembled, checked for proper operation, and reinstalled. No further corrective action appears to be warranted at this time.

Failure Data: The cause has not been determined. It can only be assumed that it was a result of random sticking of the solenoid internals.

| | |
|---|---|
| Manufacturer | ASCO, Automatic Switch Company |
| Model | 8302-C-4 |

Very truly yours,

E. W. James
Senior Vice President
Power Generation & Engineering

EWJ:sna

cc - Mr. James G. Keppler, US AEC - Region III
Mr. Dwane Boyd, US AEC - Resident Inspector

# LICENSEE EVENT REPORT



CONTROL BLOCK: [ ] (1–6)

(PLEASE PRINT ALL REQUIRED INFORMATION)

Acknowledged w/Ltr Dated 1-21-75

| 01 | LICENSEE NAME | LICENSE NUMBER | LICENSE TYPE | EVENT TYPE |
|---|---|---|---|---|
| 7 8 | W I K N P I (9–14) | 0 0 – 0 0 0 0 0 – 0 0 (15–25) | 4 1 1 1 1 (26–30) | 0 1 (31–32) |

| 01 CON'T | CATEGORY | REPORT TYPE | REPORT SOURCE | DOCKET NUMBER | EVENT DATE | REPORT DATE |
|---|---|---|---|---|---|---|
| 7 8 | P 0 (57–58) | T (59) | L (60) | 0 5 0 – 0 3 0 5 (61–66) | 0 1 0 9 7 5 (69–74) | 0 1 2 1 7 5 (75–60) |

EVENT DESCRIPTION

02 During Surveillance Testing SG Blowdown Sample Valve BT-31A failed to operate

03 due to failure of a solenoid valve sticking in the energized position. The

04 redundant valve functioned properly. No danger to health and safety of the

05 public existed

06

| 07 | SYSTEM CODE | CAUSE CODE | COMPONENT CODE | PRIME COMPONENT SUPPLIER | COMPONENT MANUFACTURER | VIOLATION |
|---|---|---|---|---|---|---|
| 7 8 9 | C 6 (10) | E (11) | V A L V E X (12–17) | A (43) | A 6 1 0 (44–47) | N (48) |

CAUSE DESCRIPTION

06 Cause of solenoid sticking could not be determined. Solenoid was dismantled

09 and inspected - no indication of cause was noted.

10

| 11 | FACILITY STATUS | % POWER | OTHER STATUS | METHOD OF DISCOVERY | DISCOVERY DESCRIPTION |
|---|---|---|---|---|---|
| 7 8 | E (9) | 0 7 5 (10–12) | NA (13–44) | B (45) | NA (46–80) |

| 12 | FORM OF ACTIVITY RELEASED | CONTENT OF RELEASE | AMOUNT OF ACTIVITY | LOCATION OF RELEASE |
|---|---|---|---|---|
| 7 8 | Z (9) | Z (10) | NA (11–44) | NA (45–80) |

PERSONNEL EXPOSURES

| 13 | NUMBER | TYPE | DESCRIPTION |
|---|---|---|---|
| 7 8 9 | 0 0 0 (11) | Z (12) | NA (13–80) |

PERSONNEL INJURIES

| 14 | NUMBER | DESCRIPTION |
|---|---|---|
| 7 8 9 | 0 0 0 (11) | NA (12–80) |

OFFSITE CONSEQUENCES

15 NA

LOSS OR DAMAGE TO FACILITY

| 16 | TYPE | DESCRIPTION |
|---|---|---|
| 7 8 9 | Z (10) | NA (10–80) |

PUBLICITY

17 NA

ADDITIONAL FACTORS

18

19

NAME: M. E. Stern PHONE: 414/432-3311

GPO 881-667