

VIRGINIA ELECTRIC AND POWER COMPANY

RICHMOND, VIRGINIA 23261

May 23, 1979

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Serial No. 398
PO/EHT: baw
Docket No. 50-280
50-281
License No. DPR-32
DPR-37

Dear Mr. O'Reilly:

Pursuant to Surry Power Station Technical Specifications, and IE Bulletin 79-01, Environmental Qualification of Class IE Equipment, the Virginia Electric and Power Company hereby submits the following Licensee Event Report for Surry Unit No. 1.

Report No.
LER 79-018/OIT-0

Applicable Reporting Requirement
IE Bulletin 79-01
and T.S. 6.6.2.a.(9)

This report has been reviewed by the Station Nuclear Safety and Operating Committee and will be placed on the agenda for the next meeting of the System Nuclear Safety and Operating Committee.

Very truly yours,

C. M. Stallings
Vice President-Power Supply
and Production Operations

Enclosures (3 copies)

cc: Mr. John G. Davis, Acting Director (40 copies)
Office of Inspection and Enforcement

Mr. William C. McDonald, Director (3 copies)
Office of Management Information
and Program Control

C003
ES 1/1

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LICENSEE EVENT REPORT

CONTROL BLOCK: [][][][][][][][] (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

[0][1] [V][A][S][P][S][I] (2) [0][0]-[0][0].[0].[0]-[0][0] (3) [4][1][1][1] (4) [][] (5)
7 8 9 14 15 25 26 30 57 CAT 58
LICENSEE CODE LICENSE NUMBER LICENSE TYPE

CON'T
[0][1] REPORT SOURCE [L] (6) [0][5][0][0][0][2][8][0] (7) [0][5][0][9][7][9] (8) [0][5][2][3][7][9] (9)
7 8 60 61 68 69 74 75 80
DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
[0][2] The Architect Engineer has identified Solenoid Valve, Model #8320A102, manufactured by
[0][3] Automatic Switch Company, as being environmentally unqualified and reportable as per
[0][4] I.E. Bulletin 79-01 and Technical Specification 6.6.2.b.(9). The valve could fail to
[0][5] control the admission and venting of operating air for the inside containment trip
[0][6] valves on steam generator blowdown lines during a LOCA. The fully redundant outside
[0][7] containment trip valves would have provided containment isolation, if required,
[0][8] Therefore, the health and safety of the public were not affected. 80

[0][9] [S][D] (11) [R] (12) [R] (13) [V][A][L][V][O][P] (14) [E] (15) [Z] (16)
7 8 9 10 11 12 13 18 19 20
SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE
[17] LER/RO REPORT NUMBER [7][9] (21) [] (23) [0][1][8] (24) [] (27) [0][1] (28) [T] (30) [] (31) [0] (32)
ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS (22) ATTACHMENT SUBMITTED NRPD-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER
[A] (18) [Z] (19) [Z] (20) [Z] (21) [0][0][0][0] (22) [Y] (23) [N] (24) [A] (25) [A][6][1][0] (26)
33 34 35 36 37 40 41 42 43 44 47
CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

[1][0] The solenoid valves, Model #8320A102, were identified as being similar to a solenoid
[1][1] valve that failed environmental testing for the LOCA environment. The three affected
[1][2] on each unit will be replaced with environmentally qualified valves.

[1][3]
[1][4]

[1][5] [G] (28) [0][0][0] (29) NA (30) [D] (31) Notification from AE (32)
7 8 9 10 12 13 44 45 46 80
FACILITY STATUS % POWER OTHER STATUS METHOD OF DISCOVERY DISCOVERY DESCRIPTION
[1][6] [Z] (33) [Z] (34) NA (35) NA (36)
7 8 9 10 11 44 45 80
ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY LOCATION OF RELEASE
[1][7] [0][0][0] (37) [Z] (38) NA (39)
7 8 9 11 12 13 80
PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION
[1][8] [0][0][0] (40) NA (41)
7 8 9 11 12 80
PERSONNEL INJURIES NUMBER DESCRIPTION
[1][9] [Z] (42) NA (43)
7 8 9 10 80
LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION
[2][0] [N] (44) NA (45)
7 8 9 10 80
ISSUED DESCRIPTION PUBLICITY NRC USE ONLY

(Attachment, page 1 of 1)
Surry Power Station, Unit 1, 2
Docket No: 50-280, 281
Report No: 79-018/01T-0
Event Date: 05-09-79

Environmentally Unqualified Solenoid Valve (SOV-BD-100A,B,C and 200A,B,C)

1. Description of Event:

The Architect Engineer has identified a solenoid valve, Model #8320A102, manufactured by Automatic Switch Company, as being environmentally unqualified for the conditions stated in I.E. Bulletin No. 79-01. Six valves were identified, three in each of Surry Units 1 and 2.

2. Probable Consequences and Status of Redundant Systems:

The solenoid valve could fail to function properly following a Loss of Coolant Accident. These valves control the admission and venting of operating air for the containment trip valves on steam generator blowdown lines. The fully redundant outside containment trip valves would have provided containment isolation, if required. Therefore, the health and safety of the public were not affected.

3. Cause:

The solenoid valves, Model #8320A102, were identified as being similar to another solenoid valve that failed environmental testing.

4. Immediate Corrective Action:

A search was initiated to locate environmentally qualified solenoid valves.

5. Subsequent Corrective Action:

The subsequent corrective action will be the replacement of the present solenoid valves with environmentally qualified solenoid valves.

6. Action Taken to Prevent Recurrence:

No additional actions are deemed necessary. The solenoid valves are being replaced.

7. Generic Implications:

Environmental qualifications of other electrical components will be addressed in the response to IE Bulletin No. 79-01.