NRC FORM 366
(7-77)

U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

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

0 1	LICENSEE CODE: V A S P S 1 (2) LICENSE NUMBER: 0 0 - 0 0 0 0 0 - 0 0 (3) LICENSE TYPE: 4 1 1 1 1 (4) CAT: (5)
CON'T 0 1	REPORT SOURCE: L (6) DOCKET NUMBER: 0 5 0 0 0 2 8 0 (7) EVENT DATE: 0 5 0 9 7 9 (8) REPORT DATE: 0 5 2 3 7 9 (9)

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.

	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
0 9	S D (11)	B (12)	B (13)	V A L V O P (14)	E (15)	Z (16)

(17) LER/RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	7 9	—	0 1 8	/	0 1	T	—	0

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
A (18)	Z (19)	Z (20)	Z (21)	0 0 0 0	Y (23)	N (24)	A (25)	A 6 1 0 (26)

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

	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
1 5	G (28)	0 0 0 (29)	NA	D (31)	Notification from AE

	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
1 6	Z (33)	Z (34)	NA	NA

PERSONNEL EXPOSURES

	NUMBER	TYPE	DESCRIPTION (39)
1 7	0 0 0 (37)	Z (38)	NA

PERSONNEL INJURIES

	NUMBER	DESCRIPTION (41)
1 8	0 0 0 (40)	NA

LOSS OF OR DAMAGE TO FACILITY (43)

	TYPE	DESCRIPTION
1 9	Z (42)	NA

7905290010

PUBLICITY

	ISSUED	DESCRIPTION (45)	NRC USE ONLY
2 0	N (44)	NA	

NAME OF PREPARER W. L. Stewart PHONE: (804) 357-3184

GPO 917-926

(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.