

# LICENSEE EVENT REPORT

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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

REPORT SOURCE	60	61	DOCKET NUMBER						68	69	EVENT DATE				74	75	REPORT DATE				80				
	L	6	0	5	0	0	0	2	8	1	7	1	0	0	7	7	8	8	1	0	3	1	7	8	9

With the unit at cold shutdown, motor operated valve MOV-SW-202B was found to be

inoperable in its automatic mode, i.e. unable to shut automatically in response to

a LOCA-plus-blackout event. This condition is reportable in accordance with

T.S. 6.6.2.b.(2). The valve was shut, therefore, the health and safety of the

public were not affected.

SYSTEM CODE 0 9		CAUSE CODE A		CAUSE SUBCODE C		COMPONENT CODE V A L V O P				COMP. SUBCODE A		VALVE SUBCODE Z	
7	8	9	10	11	12	13	14	15	16	17	18	19	20
LER/RO REPORT NUMBER 17		EVENT YEAR 7 8		SEQUENTIAL REPORT NO. 0 3 5		OCCURRENCE CODE 0 3		REPORT TYPE L		REVISION NO. 0			
ACTION TAKEN C		FUTURE ACTION Z		EFFECT ON PLANT Z		SHUTDOWN METHOD Z		HOURS 0 0 0 0		ATTACHMENT SUBMITTED Y		NPRD-4 FORM SUB. N	
33	34	35	36	37	38	39	40	41	42	43	44	PRIME COMP. SUPPLIER N	
COMPONENT MANUFACTURER R 1 6 5													
45	46	47											

### CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

The motor operator was damaged by flooding of the valve pit by water pumped from

Unit 2 condenser "D" Waterbox. The flooded motor was replaced, thereby returning

the valve to a fully operable status.

FACILITY STATUS (1) 5 (28) G (29) 0 0 0 0 % POWER (30) OTHER STATUS (31) NA (32) DISCOVERY DESCRIPTION (33) C (34) Operator observation  
 ACTIVITY CONTENT (35) Z (36) Z (37) NA (38) NA (39) LOCATION OF RELEASE (40) NA  
 PERSONNEL EXPOSURES (41) 0 0 0 (42) Z (43) NA (44) NA  
 PERSONNEL INJURIES (45) 0 0 0 (46) NA (47) NA  
 LOSS OF OR DAMAGE TO FACILITY (48) 2 (49) NA (50) NA  
 PUBLICITY (51) 2 0 (52) NA (53) NA (54) NA (55) NA (56) NA (57) NA (58) NA (59) NA (60) NA (61) NA (62) NA (63) NA (64) NA (65) NA (66) NA (67) NA (68) NA (69) NA (70) NA (71) NA (72) NA (73) NA (74) NA (75) NA (76) NA (77) NA (78) NA (79) NA (80) NA  
 ISSUED DESCRIPTION (81) N (82) NA (83) NA (84) NA (85) NA (86) NA (87) NA (88) NA (89) NA (90) NA (91) NA (92) NA (93) NA (94) NA (95) NA (96) NA (97) NA (98) NA (99) NA (100) NA  
 NRC USE ONLY

PHONE: (804) 357-3184

Surry Power Station, Unit 2  
Docket No: 50-281  
Report No: 78-035/03L-0  
Event Date: 10-7-78

Failed Motor Operator on Service Water Valve

1. Description of Event:

During a cold shutdown period, the valve pit, containing MOV-SW-202B, was flooded while draining the circulating water box D. The valve operator was shorted by the flooding and the valve became inoperable in its automatic mode. The valve is required to shut automatically on "LOCA-plus-blackout" for circulating water conservation.

The failure of the automatic function of the valve because of damage to the operator motor constitutes a condition that is reportable in accordance with Technical Specification 6.6.2.b.(2).

2. Probable Consequences and Status of Redundant Systems:

The valve MOV-SW-202B incorporates an auto-close function as a means of conserving circulating water during LOCA-plus-blackout conditions. The valve was shut when the failure was discovered and remained shut until the operator was repaired. The health and safety of the public were not affected.

3. Cause:

This event occurred because a drain line could not accept the volume of water pumped from condenser 2-CN-SC-1B (D-Waterbox) to station drain to facilitate a maintenance operation. The water filled the valve pit, containing the MOV-SW-202B, thereby shorting out the motor.

4. Immediate Corrective Action:

The valve pit was pumped out, and the motor tested for grounds caused by the water.

5. Subsequent Corrective Action:

The motor was replaced and the valve was made operable in all respects.

6. Actions Taken to Prevent Recurrence:

Personnel are instructed to control the pump discharge so as not to endanger adjacent equipment.

7. Generic Implications:

None, the failure occurred due to water penetration of the electrical components.