

CONTROL BLOCK: 

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 (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CON'T

0	1	REPORT SOURCE										DOCKET NUMBER										EVENT DATE										REPORT DATE									
7	8	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			

### EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | With the unit at rated power, routine surveillance of heat tracing systems disclosed possible faults in circuits 23A (Panel 1), 23A (Panel 2) and circuits 24D (Panel 1), 0 3 | 24D (Panel 2). Each is a paired redundant circuit. Circuits 23A are to the outlet 0 4 | piping from the boron injection tank and circuits 24D are recirc bypass piping to 0 5 | the boron injection tank. This is contrary to T.S. 3.2.B.5 and is reportable per 0 6 | T.S. 6.6.2.b.(2). The health and safety of the public were not affected. 0 7 |

08		9		80	
SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE	
S H 11		E 12		A 13	
COMPONENT CODE		COMP. SUBCODE		VALVE SUBCODE	
H E A T E R 14		Z 15		Z 16	
SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE	
0 3 2 27		0 3 28		L 30	
EVENT YEAR		REVISION NO.		PRIME COMP. SUPPLIER	
7 8 21		0 32		A 25	
ACTION TAKEN		FUTURE ACTION		ATTACHMENT SUBMITTED	
A 18		Z 19		Y 23	
EFFECT ON PLANT		SHUTDOWN METHOD		NPRD-4 FORM SUB.	
B 20		Z 21		N 24	
HOURS		COMPONENT MANUFACTURER		C 2 6 8 26	
0 0 0 5 37		C 2 6 8 26		C 2 6 8 26	

### CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Heat tracing circuit faults had occurred as a result of boric acid incursion. The

1 1 faults were repaired and circuit currents verified.

1 2

1 3

1 4

FACILITY STATUS (E) (28) % POWER (1) (0) (0) (29) OTHER STATUS (NA) (30) METHOD OF DISCOVERY (B) (31) DISCOVERY DESCRIPTION (Surveillance Testing) (32)

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

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

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

LOSS OF OR DAMAGE TO FACILITY TYPE (1) (9) (Z) (42) DESCRIPTION (NA) (43)

PUBLICITY ISSUED (2) (0) (N) (44) DESCRIPTION (NA) (45)

NRC USE ONLY

Surry Power Station, Unit 1  
Docket No: 50-280  
Report No: 78-032/03L-0  
Event Date: 10-11-78

Heat Tracing Low Current

1. Description:

With the unit in normal operation at rated power, routine surveillance indicated that Heat Tracing Circuits 23A (Panels 1 and 2) and Circuits 24D (Panels 1 and 2) were operating at less than the currents specified in the surveillance document. Each of the circuits in question are paired redundant circuits. Circuits 23A serve the outlet piping from the Boron Injection tank and circuits 24D serve the Boron Injection tank recirc piping.

An orderly shutdown was initiated at approximately 0940. Concurrently, an investigation for faulty heat trace tape was initiated. Relief valve 1857 in the Boron Injection Tank outlet piping had indications of leakage and boric acid attack on the tape causing the fault; thus, causing the low current in circuits 23A. Valve 1-SI-77 in the Boron Injection tank recirc piping was found coated with boric acid crystals indicating a leak in the past. Again, boric acid had attacked the tape causing the fault. Repairs to the tapes were completed and the circuit currents verified. Unit rampdown was terminated at 1430 and the unit was returned to rated power.

The event constitutes a condition contrary to Technical Specification 3.2.B.5 and is reportable in accordance with Technical Specification 6.6.2.b.(2).

2. Probable Consequences/Status of Redundant Systems:

At all times during the event, temperatures in the Boron Injection tank outlet piping and recirc piping were maintained as required. There were two operable flow paths for boric acid to the reactor at all times. Accordingly, the health and safety of the public were not affected.

3. Cause:

The reduced currents was the result of boric acid damage to the heat tapes in the sections of piping. In turn, the boric acid damage was the result of leakage from a valve fitting in the piping which deposited boric acid crystals.

4. Immediate Corrective Actions:

Valve fitting leaks were repaired, piping and fittings cleaned and damaged heat tracing replaced.

5. Scheduled Corrective Action:

The problem was corrected immediately and no further action is deemed necessary.

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Heat Tracing Low Current

6. Actions Taken to Prevent Recurrence:

Continuous surveillance is maintained on the heat tracing systems required for unit operation. No additional action is considered necessary.

7. Generic Implications:

This failure, as with others in the system, is considered random since no specific circuit or panel has exhibited repeated failure.