

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CONTROL BLOCK:

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

REPORT
SOURCE

60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80				
L	6	0	5	0	0	0	2	8	1	7	0	4	2	9	8	1	8	0	5	2	2	8	1	9
DOCKET NUMBER										EVENT DATE										REPORT DATE				

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | With the Unit at 100 percent power and 2-SW-P-10B removed from service for Design
0 3 | Change 80-42, the Charging Pump Service Water Pump, 2-SW-P-10A, was splashed
0 4 | with Service water causing the motor to fail. This event is contrary to T.S. 3.3.A.
0 5 | 8.b, and is reportable in accordance with 6.6.2.b(2). A unit Rampdown was initiated
0 6 | and the temperature of the affected systems monitored until the 'B' pump was
0 7 | returned to service 19 minutes later. The health and safety of the public were not
0 8 | affected.

SYSTEM CODE 0 9		CAUSE CODE W A		CAUSE SUBCODE X		COMPONENT CODE M O T O R X						COMP. SUBCODE Z		VALVE SUBCODE Z	
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
LER/RO REPORT NUMBER 17		EVENT YEAR 8 1		SEQUENTIAL REPORT NO. 0 2 6		OCCURRENCE CODE 0 3		REPORT TYPE L		REVISION NO. 0		ACTION TAKEN A		FUTURE ACTION Z	
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
EFFECT ON PLANT Z		SHUTDOWN METHOD Z		HOURS 0 0 0 0		ATTACHMENT SUBMITTED Y		NPRD-4 FORM SUB. N		PRIME COMP. SUPPLIER A		COMPONENT MANUFACTURER W 1 2 0		26	
39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Water splashing down into the motor caused an Electrical short and damaged the motor
1 1 windings. The check valve for 2-SW-P-10B, that had been removed, was replaced and
1 2 2-SW-P-10B returned to service. Subsequently, the motor for 2-SW-P-10A was
1 3 replaced and returned to service.
1 4

FACILITY STATUS			% POWER			OTHER STATUS (30)			METHOD OF DISCOVERY			DISCOVERY DESCRIPTION (32)		
1	5	E (28)	1	0	0 (29)	N/A			A (31)	Operational Event.				

ACTIVITY		CONTENT		RELEASED		OF RELEASE		AMOUNT OF ACTIVITY		LOCATION OF RELEASE	
1	6	Z	33	Z	34	N/A		N/A		N/A	

PERSONNEL EXPOSURES									
NUMBER			TYPE	DESCRIPTION					
1	7	0	0	37	Z	38	39	N/A	

PERSONNEL INJURIES		DESCRIPTION	
NUMBER			
1	3	0	0
0	0	0	40
		N/A	

1		9		Z		42		N/A		43	
TYPE		DESCRIPTION									

PUBLICITY							NRC USE ONLY									
ISSUED		DESCRIPTION														
2	0	N	(44)		N/A											
7	8	9	10													

NAME OF PREPARER J. L. Wilson

PHONE. (804) 357-3184

8105280 188

100 0117-926

ATTACHMENT 1

SURRY POWER STATION, UNIT 2

DOCKET NO: 50-281

REPORT NO: 81-026/03L-0

EVENT DATE: 04-29-81

TITLE OF EVENT: CHARGING PUMP SERVICE WATER PUMPS INOPERABLE

1. DESCRIPTION OF EVENT:

On April 29, 1981, with the unit at 100% power, charging pump service water pump, 2-SW-P-10B, was removed from service in accordance with Design Change 80-42, Service Water to Control Room and Relay Room Air Conditioning and Charging Pump Coolant Piping Modification. This was done so that a new bronze check valve could be installed. When the valve was removed, water splashed down on the redundant pump, 2-SW-P-10A, causing an electrical short and thereby making 2-SW-P-10A inoperable.

With both Charging Pump Service Water Pumps inoperable, a Rampdown was immediately initiated. This event is contrary to T.S. 3.3.A.8.b and is reportable in accordance with T.S. 6.6.2.b(2).

2. PROBABLE CONSEQUENCES and STATUS of REDUNDANT EQUIPMENT:

The service water pumps, 2-SW-P-10A & B, provide cooling water to the charging pump intermediate seal coolers and lubricating oil coolers. During the period when both pumps were inoperable, charging pump temperatures were closely monitored. There were no observable increases in charging pump temperatures. Therefore, the health and safety of the public were not affected.

3. CAUSE:

Water entering the top of 2-SW-P-10A, because of a missing drip shield, created an electrical short in the motor windings.

4. IMMEDIATE CORRECTIVE ACTION:

The immediate action was to replace the removed check valve and return the redundant pump, 2-SW-P-10B, to service. The unit rampdown was terminated 19 minutes after initiation.

5. SUBSEQUENT CORRECTIVE ACTION:

An operable Service Water Pump was removed from Unit one and installed in place of 2-SW-P-10A.

6. ACTION TAKEN TO PREVENT RECCURANCE:

The missing drip shield has been replaced.

7. GENERIC IMPLICATIONS:

None.