



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 RECURRENCE:

The missing drip shield has been replaced.

7. GENERIC IMPLICATIONS:

None.