

ATTACHMENT 1
SURREY POWER STATION, UNIT 1
DOCKET NO: 50-280
REPORT NO: 81-063/03L-0
EVENT DATE: 10-19-81

TITLE OF THE EVENT: 1-SW-P-10B LOW DISCHARGE PRESSURE

1. DESCRIPTION OF EVENT:

On October 19, 1981, it was discovered that charging pump service water pump, 1-SW-P-10A, had zero discharge pressure. The pump was declared inoperable, which is a condition contrary to Technical Specification 3.3.A.8.b. and reportable per Technical Specification 6.6.2.b.(2).

2. PROBABLE CONSEQUENCES OF OCCURRENCE:

The charging pump service water pumps supply water to the charging pump intermediate seal coolers and the charging pump lubricating oil coolers. During the event, the redundant charging pump service water pump remained operable; therefore, the health and safety of the public were not affected.

3. CAUSE OF EVENT:

The service water piping for the charging pump service water pumps also supplies the Control Room/Relay Room air conditioner chiller units. Increased flow to the chillers can cause a loss of suction flow to the charging pump service water pumps. Recent modifications attempted to resolve these problems. Installation and testing, completed in early spring, indicated satisfactory performance; however, an intermittent problem is now indicated.

4. IMMEDIATE CORRECTIVE ACTION:

The immediate corrective action was to check the suction strainer to the affected pump for possible blockage. When no blockage was found, the operators tried venting the pump and discovered that no water was in the suction line.

5. SUBSEQUENT CORRECTIVE ACTION:

The subsequent corrective action was to throttle service water flow to the chiller units which resulted in flooding the suction line to the affected charging pump service water pump.

6. ACTIONS TAKEN TO PREVENT RECURRENCE:

An Engineering Study is being performed to investigate this on-going problem and propose a solution.

7. GENERIC IMPLICATIONS:

Related occurrences have been reported on LER's 81-037 and 81-063 for unit 1, and 81-055, 81-060 and 81-064 for unit 2.