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SURRY POWER STATION, UNIT 2  
DOCKET NO: 50-281  
REPORT NO: 81-069/03L-0  
EVENT DATE: 11-14-81

TITLE OF EVENT: ONLY ONE OPERABLE RHR LOOP

1. DESCRIPTION OF EVENT:

With the unit at cold shutdown and all reactor coolant loops isolated and drained, high bearing temperature required the removal of Residual Heat Removal pump 2-RH-P-LB from service. This left only one Residual Heat Removal (RHR) 1-op in service, contrary to Technical Specification 3.1.A.d.1. This is reportable per T.S. 6.6.2.b.(2).

2. PROBABLE CONSEQUENCES AND STATUS OF REDUNDANT EQUIPMENT:

A single residual heat removal loop provides sufficient capacity for removal of decay heat. Pump 2-RH-P-1A was in operation, thus the health and safety of the public were not affected.

3. CAUSE:

The high bearing temperature was due to lack of lubrication to the motor upper thrust bearing. The lubrication of this pump is normally checked during the monthly performance of check list 1-CL-15. The 'B' RHR pump had operated intermittently for approximately 6 1/2 hours since performing the operability surveillance test on 11/8/81. There is no requirement to confirm normal operating oil level in the surveillance PT.

4. IMMEDIATE CORRECTIVE ACTION:

The immediate corrective action consisted of securing the pump, replacing the upper bearing assembly, renewing the oil supply, and test operating pump. Approximately 14 hours after the failure, the pump was returned to service.

5. SUBSEQUENT CORRECTIVE ACTION:

None was required.

6. ACTION TAKEN TO PREVENT RECURRENCE:

Applicable procedures will be changed to insure that lube oil levels are checked.

7. GENERIC IMPLICATIONS:

None.