	LICENSEE EVENT REPORT
	CONTROL BLOCK:
	V   A  S     P   S   2     O   0   -   0   0   0   0   -   0   0   0
	REPORT 1 6 0 5 0 0 0 2 8 1 0 1 1 1 4 8 1 6 1 2 1 4 8 1 8 1 6 1 8 1 6 1 8 1 6 1 1 1 1 1 1 1
0 2	With the unit at cold shutdown for refueling and all three loops isolated and drained
013	'B' RHR pump was removed from service due to high bearing temperature. The bearing
04	was replaced and the pump returned to service. This event is contrary to T.S. 3.1.A.
0 5	1.d.1 and is reportable per T.S. 6.6.2.b.(2). The redundant RHR loop remained in
0 6	service. Therefore, the health and safety of the public were not affected.
0 7	
78	9 SYSTEM CAUSE CAUSE COMP VALVE
09	CODE CUDE SUBCODE COMMONENT CODE SUBCODE SUBCODE SUBCODE
	Image: Secure report     Secure report     REPORT NO.     Secure report     REPORT NO.       Image: Secure report     Image: Secure report NO.     Image: Secure report NO.     Socie     Type     NO.       Image: Secure report NO.     Image: Secure report NO.     Image: Secure report NO.     Image: Secure report NO.     Socie     Type     NO.       Image: Secure report NO.     Image: Secure report NO.     Image: Secure report NO.     Image: Secure report NO.     Image: Secure report NO.     NO.       Image: Secure report NO.     Image: Secure report NO.     Image: Secure report NO.     Image: Secure report NO.     Image: Secure report NO.     NO.       Image: Secure report NO.     Image: Secure report
	ACTION FUTURE EFFECT SHUTDOWN HOURS 22 ATTACHMENT NPRO4 PRIME COMP. COMPONENT TAKEN ACTION ON PLANT METHOD HOURS 22 AUBMITTED FORM DUB. SUPPLIER MANUFACTURER A T3 H T9 Z 20 Z 21 0 0 0 0 V 23 ATTACHMENT NPRO4 SUPPLIER AND ACTURER A T3 H T9 Z 20 Z 21 0 0 0 0 V 23 ATTACHMENT NPRO4 SUPPLIER ADDUBLIER ADDUBL
10	The high bearing temperature was due to a lack of lubrication to the motor upper
	thrust bearing. The oil level had not been checked since September 1, 1981. The
12	upper bearing assembly was replaced. Applicable procedures will be changed to
13	ensure that lube oil levels are checked.
7 8	9
15	FACILITY % POWER OTHER STATUS 30 METHOD OF DISCOVERY DISCOVERY DESCRIPTION 32   H (28) 0 0 0 (29) N/A A (31) Operational event 10   9 10 12 13 44 45 46 60
	ACTIVITY CONTENT ELEASED OF RELEASE AMOUNT OF ACTIVITY 35 LOCATION OF RELEASE 36 N/A
17	PERSONNEL EXPOSURES     44     45     50       NUMBER     TYPE     DESCRIPTION (39)     37     2     38     N/A     10
- a	PERSONNEL INJURIES 13 NUMBER DESCRIPTION (41) 0 0 0 0 0 0 0
1 3	S II 12 LOSS OF OR DAMAGE TO FACILITY (1) TYPE DESCRIPTION N/A
	SUBLICITY AS
81	58 59 30 5
S	ADOCK 05000280 J. L. Wilson 804-357-3184

ATTACHMENT 1, PAGE 1 OF 1 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-1B 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.