

### LICENSEE EVENT REPORT

CONTROL BLOCK: \_\_\_\_\_ (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

V A S P S 2 0 0 - 0 0 0 0 0 - 0 0 4 1 1 1 1 1 1

LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT 58

51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

REPORT SOURCE L 6 0 5 0 0 0 2 8 1 7 0 3 1 0 8 3 8 0 4 0 4 8 3 9

DOCKET NUMBER EVENT DATE REPORT DATE

#### EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 | On March 10, 1983 with the unit at full power, the turbine driven auxiliary feedwater

03 | pump, 2-FW-P-2, failed to maintain the required speed during the performance of the

04 | monthly surveillance test. This is contrary to T.S.-3.6.C and is reportable per

05 | T.S.-6.6.2.b.(2). The two motor driven auxiliary feedwater pumps remained operable

06 | and 2-FW-P-2 was returned to service within 72 hrs. as required by Tech. Spec. There-

07 | fore, the health and safety of the public were not affected.

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

SYSTEM CODE (H H) CAUSE CODE (E) CAUSE SUBCODE (B) COMPONENT CODE (M E C F U N) COMP. SUBCODE (Z) VALVE SUBCODE (Z)

LER/RO REPORT NUMBER (83) SEQUENTIAL REPORT NO. (011) OCCURRENCE CODE (03) REPORT TYPE (L) REVISION NO. (0)

ACTION TAKEN (A) FUTURE ACTION (X) EFFECT ON PLANT (Z) SHUTDOWN METHOD (Z) HOURS (0000) ATTACHMENT SUBMITTED (Y) NPRD-4 FORM SUB. (Y) PRIME COMP. SUPPLIER (A) COMPONENT MANUFACTURER (W290)

#### CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 | The cause was due to the failure of the speed control system, specifically a missing

11 | set screw and a broken taper pin. The failed components were replaced and the pump

12 | tested satisfactorily. The cause of the broken components is being evaluated.

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

FACILITY STATUS (E) % POWER (100) OTHER STATUS (N/A) METHOD OF DISCOVERY (B) DISCOVERY DESCRIPTION (Routine Surveillance)

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

ACTIVITY RELEASED (Z) CONTENT (Z) AMOUNT OF ACTIVITY (N/A) LOCATION OF RELEASE (N/A)

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

PERSONNEL EXPOSURES NUMBER (000) TYPE (Z) DESCRIPTION (N/A)

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

PERSONNEL INJURIES NUMBER (000) DESCRIPTION (N/A)

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

LOSS OF OR DAMAGE TO FACILITY TYPE (Z) DESCRIPTION (N/A)

8304260487 830404  
PDR ADOCK 05000281 PDR

NRC USE ONLY

ATTACHMENT 1

SURRY POWER STATION, UNIT NO. 2

DOCKET NO: 50-281

REPORT NO: 83-011/03L-0

EVENT DATE: 03-10-83

TITLE OF THE EVENT: 2-FW-P-2 INOPERABLE

1. Description of the Event

The unit was at full power with PT-15.1C (Steam Generator Aux. Feed Pump FW-P-2) in progress when the turbine driven aux. feed pump would not develop the required speed. The pump was declared inoperable. This is contrary to T.S.-3.6.C and is reportable per T.S.6.6.2.b.(2).

2. Probable Consequences and Status of Redundant Equipment

The capability to supply feedwater to the generators is normally provided by the operation of the Condensate and Feedwater Systems. In the event of complete loss of electrical power to the station, residual heat removal would continue to be assured by the availability of either the steam driven auxiliary Feedwater Pump or two of the motor driven Auxiliary Feedwater Pumps. Since both of the unit's motor driven pumps remained operable to provide decay heat removal, the health and safety of the public would not have been affected.

3. Cause

The pump failed to develop the proper speed because the set screw in the governor dampening arm lock nut was missing, and the taper pin connecting leveler arms L1, L2, and L3 on the governor was broken. The missing set screw and broken taper pin were apparently due to pump vibration.

4. Immediate Corrective Action

Maintenance was immediately initiated.

5. Subsequent Corrective Action

The tapered pin and set screw were replaced, the governor was adjusted to obtain the required pump speed, and the pump tested satisfactory.

6. Action Taken to Prevent Recurrence

Turbine vibration will be evaluated for possible contribution to governor valve problems.

7. Generic Implications

None.