

## LICENSEE EVENT REPORT

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

0 1 V A S P S 2 0 0 - 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5  
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 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  
LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT 56

CON'T

0 1 REPORT SOURCE L E 0 5 0 0 0 2 8 1 7 0 1 2 9 8 2 8 0 2 2 6 8 2 9  
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 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  
DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 When Unit Two achieved 100% power following Refueling. The  $\Delta T$  protection channels  
0 3 I and III were indicating only 93%. This event is contrary to T.S. 3.3.7.B Table  
0 4 3.7-1 and is reportable pursuant to T.S. 6.6.2.b.(2). The Delta T indicators were  
0 5 adjusted to indicate 100%, pending completion of ST-52. The health and safety of  
0 6 the public were not affected.  
0 7  
0 8  
0 9

0 9 SYSTEM CODE 1 B 11 CAUSE CODE X 12 CAUSE SUBCODE Z 13 COMPONENT CODE I N S T R U 14 COMP. SUBCODE Y 15 VALVE SUBCODE Z 16  
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 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  
17 LER/RO REPORT NUMBER 8 2 21 EVENT YEAR 8 2 22 SEQUENTIAL REPORT NO. 0 1 0 24 OCCURRENCE CODE 0 3 28 REPORT TYPE L 30 REVISION NO. 0 32  
ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NPD-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER  
E 18 Z 19 Z 20 Z 21 0 0 0 0 22 Y 23 N 24 A 25 H 0 1 5 26  
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

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Modifications to the RTD bypass lines may have caused this event. A precision  
1 1 calorimetric was performed and the Delta 'T' Summators adjusted to the new valves.  
1 2  
1 3  
1 4

1 5 FACILITY STATUS E 28 % POWER 1 0 0 29 OTHER STATUS N/A 30 METHOD OF DISCOVERY A 31 DISCOVERY DESCRIPTION Operator Observation 32  
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 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  
1 6 ACTIVITY RELEASED OF RELEASE Z 33 Z 34 AMOUNT OF ACTIVITY N/A 35 LOCATION OF RELEASE N/A 36  
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 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  
1 7 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION N/A 39  
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 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  
1 8 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION N/A 41  
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 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  
1 9 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION N/A 43  
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 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  
2 0 PUBLICITY ISSUED N 44 DESCRIPTION 45  
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 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

8203080365 820226  
PDR ADDCK 05000280  
S PDR

NRC USE ONLY

NAME OF PREPARED J. L. Wilson

PHONE (804) 357-3184

ATTACHMENT 1  
SURRY POWER STATION, UNIT NO. 2  
DOCKET NO: 50-281  
REPORT NO: 80-010/03L-0  
EVENT DATE: 01-20-82

TITLE OF THE EVENT: DELTA T INDICATORS INOPERABLE

1. DESCRIPTION OF EVENT:

When Unit Two achieved 100% Reactor Power following cycle 6 refueling, the  $\Delta T$  protection channels I and III were indicating only 92%. This event is contrary to Technical Specification 3.7.B Table 3.7-1 and is reportable pursuant to Technical Specification 6.6.2.b(2).

2. PROBABLE CONSEQUENCES AND STATUS OF REDUNDANT EQUIPMENT:

The overpower and overtemperature Delta T circuits protect the core from excessive linear power levels and DNB, respectively. Overpower rod stop and reactor trip protection from the nuclear instrumentation remained operable throughout the event and all other parameters were within allowable limits. The health and safety of the public were not affected.

3. CAUSE:

Modifications to the RTD Bypass lines may have caused this event.

4. IMMEDIATE CORRECTIVE ACTION:

The Delta T summators were adjusted to indicate 100% pending completion of precision Calorimetric Special Test (ST-52).

5. SUBSEQUENT CORRECTIVE ACTION:

The new Delta T valves were calculated from the Calorimetric Special Test data and the Delta T summators adjusted for the correct indication.

6. ACTION TAKEN TO PREVENT RECURRENCE:

None deemed necessary.

7. GENERIC IMPLICATIONS:

None.