

LICENSEE EVENT REPORT

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

01 | V | A | S | P | S | 1 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | 5

8 9 14 15 25 26 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

LICENSEE CODE LICENSE NUMBER LICENSE TYPE JO CAT 58

01 | L | 6 | 0 | 5 | 0 | 0 | 0 | 2 | 8 | 0 | 7 | 1 | 0 | 1 | 4 | 8 | 2 | 8 | 1 | 1 | 1 | 2 | 8 | 2 | 9

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

REPORT SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

012 | With the unit at cold shutdown, control relays from the auxiliary steam generator

013 | feed pump auto start circuitry were removed. While still at cold shutdown, it was

014 | discovered that the control relays removed prevented the auxiliary feed pumps from

015 | automatically starting on the loss of both normal feed pump motors. This event is

016 | contrary to Administrative Procedure 39 and reportable per T.S.6.6.2.b.(3). Since

017 | the unit was at cold shut down and the auxiliary feed pumps remained available for

018 | the opposite unit, the health and safety of the public were not affected.

7 8 9 80

09 | C | H | 11 | X | 12 | Z | 13 | P | U | M | P | X | X | 14 | B | 15 | Z | 16

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

SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE

017 | 8 | 2 | 21 | 0 | 9 | 7 | 24 | 0 | 3 | 28 | L | 30 | 0 | 32

LER/RO REPORT NUMBER EVENT YEAR SEQUENTIAL REPORT NO. OCCURRENCE CODE REPORT TYPE REVISION NO.

018 | X | 18 | C | 19 | Z | 20 | Z | 21 | 0 | 0 | 0 | 0 | 37 | Y | 23 | N | 24 | A | 25 | I | 0 | 7 | 5 | 26

ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NRC-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 | The event was caused by an incomplete design change with improper documentation

11 | in the 1972/73 time frame. Jumpers were installed in the control circuitry to

12 | allow automatic starting of the motor driven auxiliary feed pumps.

13 |

14 |

7 8 9 80

15 | G | 28 | 0 | 0 | 0 | 29 | N/A | 30 | C | 31 | Special Inspection. | 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

FACILITY STATUS % POWER OTHER STATUS METHOD OF DISCOVERY DISCOVERY DESCRIPTION

16 | Z | 33 | Z | 34 | N/A | 35 | 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

ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY LOCATION OF RELEASE

17 | 0 | 0 | 0 | 37 | Z | 38 | 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

PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION

18 | 0 | 0 | 0 | 40 | 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

PERSONNEL INJURIES NUMBER DESCRIPTION

19 | Z | 42 | 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

LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION

20 | N | 44 | 8211220222 821112 PDR ADOCK 05000280 S PDR

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

PUBLICITY DESCRIPTION

NAME OF PREPARED J. L. Wilson

PHONE (804) 357-3184

NRC USE ONLY

ATTACHMENT 1
SURRY POWER STATION, UNIT NO. 1
DOCKET NO: 50-280
REPORT NO: 82-097/03L-0
EVENT DATE: 10-14-82

TITLE OF THE EVENT: LOSS OF ADMINISTRATIVE CONTROL

1. Description of the Event:

With unit one at cold shutdown, an unscheduled review of electrical drawings by the on shift training coordinator prompted the testing of the auxiliary feed pump automatic start circuitry. The automatic start feature of the motor driven auxiliary feedwater pumps on loss of normal feedwater pumps was found to be inoperable. Failure of the automatic pump start was caused by scheduled electrical maintenance removing unpowered control relays from the auxiliary feed pump cubicles for 1-FW-P-3A and 3B. This work was performed due to an incomplete design change with improper documentation in the 1972/73 time frame. This event is contrary to Administrative Procedure 39 and reportable per T.S. 6.6.2.b.(3).

2. Probable Consequences and Status of Redundant Equipment:

The automatic start feature of motor driven auxiliary feedwater pumps on loss of normal feedwater pumps is designed in anticipation of low steam generator level. Pump auto start for all other functions remained operable during this event. Since the anticipatory auto-start of the auxiliary feed pumps is designed for at power feed pump trips and the unit remained at cold shutdown, the health and safety of the public would not have been affected.

3. Cause:

The event was caused by an incomplete design change with improper documentation.

4. Immediate Corrective Action:

The immediate corrective action was to install Jumpers in the Auxiliary Feed Pump control circuitry to allow auto-start upon loss of normal feed pumps.

5. Subsequent Corrective Action:

The circuit will be permanently returned to the original design. Station drawings FE8BD, 8BQ and ESK 5K will be changed to indicate the original design.

6. Action Taken to Prevent Recurrence:

None.

7. Generic Implications:

This event is not Generic to unit two since the feature that allows both normal feed pumps to be in pull to lock without auto-start of the auxiliary feed pumps was never installed.