

LICENSEE EVENT REPORT

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

0 1 | V | A | S | P | S | 1 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | 5
7 8 9 14 15 25 26 30 37 58
LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT 58

CON'T
0 1 | REPORT SOURCE | X | 6 | 0 | 5 | 0 | 0 | 0 | 2 | 8 | 0 | 7 | 0 | 5 | 2 | 2 | 8 | 1 | 8 | 0 | 6 | 0 | 5 | 8 | 1 | 9
7 8 60 61 68 69 74 75 80
DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | Westinghouse has identified a potential system interaction concern involving the
0 3 | volume control tank (VCT) level control system and charging pumps. A postulated
0 4 | failure of the VCT level control system, without operator intervention, could lead
0 5 | to a loss of suction fluid for the charging pumps. Numerous visual and audible
0 6 | indications are available to the operator to permit the termination of this
0 7 | postulated event. The health and safety of the public were not affected. This
0 8 | event is reportable per T.S.- 6.6.2.a(9).
7 8 9 80

0 9 | SYSTEM CODE | P | C | 11 | CAUSE CODE | B | 12 | CAUSE SUBCODE | A | 13 | COMPONENT CODE | Z | Z | Z | Z | Z | Z | 14 | COMP. SUBCODE | Z | 15 | VALVE SUBCODE | Z | 16
7 8 9 10 11 12 13 18 19 20

17 | LER/RO REPORT NUMBER | 18 | 1 | 21 | 22 | SEQUENTIAL REPORT NO. | 0 | 0 | 9 | 24 | 26 | OCCURRENCE CODE | 0 | 1 | 28 | 29 | REPORT TYPE | T | 30 | REVISION NO. | 0 | 32
21 22 23 24 26 27 28 29 30 31 32

ACTION TAKEN | H | 18 | FUTURE ACTION | G | 19 | EFFECT ON PLANT | Z | 20 | SHUTDOWN METHOD | Z | 21 | HOURS | 0 | 0 | 0 | 0 | 37 | 40 | ATTACHMENT SUBMITTED | Y | 23 | NPRD-4 FORM SUB. | N | 24 | PRIME COMPONENT SUPPLIER | Z | 25 | COMPONENT MANUFACTURER | Z | 9 | 9 | 9 | 26
33 34 35 36 37 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | The cause of this concern appeared to be one of design criteria interpretation. The
1 1 | operating staff has been alerted to this potential problem and the consequences.
1 2 | Minor modifications to Unit No. 1 and 2 procedures will be made to provide additional
1 3 | guidance.
7 8 9 80

1 5 | FACILITY STATUS | X | 28 | % POWER | 0 | 0 | 0 | 29 | OTHER STATUS | Defueled | 30 | METHOD OF DISCOVERY | D | 31 | DISCOVERY DESCRIPTION | External Source | 32
7 8 9 10 12 13 44 45 46

1 6 | ACTIVITY CONTENT | Z | 33 | RELEASED OF RELEASE | Z | 34 | AMOUNT OF ACTIVITY | N/A | 35 | LOCATION OF RELEASE | N/A | 36
7 8 9 10 11 44 45 80

1 7 | PERSONNEL EXPOSURES | 0 | 0 | 0 | 37 | TYPE | Z | 38 | DESCRIPTION | N/A | 39
7 8 9 11 12 13 80

1 8 | PERSONNEL INJURIES | 0 | 0 | 0 | 40 | DESCRIPTION | N/A | 41
7 8 9 11 12 13 80

1 9 | LOSS OF OR DAMAGE TO FACILITY | Z | 42 | DESCRIPTION | N/A | 43
7 8 9 10 80

2 0 | PUBLICITY ISSUED | N | 44 | DESCRIPTION | N/A | 45
7 8 9 10 80

NRC USE ONLY

NAME OF PREPARER | J. L. Wilson | PHONE: (804) 357-3184
7 8 9 10 68 69 80

810609 523

ATTACHMENT 1
SURRY POWER STATION, UNIT NO. 1
DOCKET NO: 50-280
REPORT NO: 81-009/017-0
EVENT DATE: 05-22-81

TITLE OF EVENT: VCT LEVEL SYSTEM DESIGN PROBLEM

1. DESCRIPTION OF EVENT:

Westinghouse has identified a potential system interaction involving the volume control tank (VCT) level control system and the charging pumps. A postulated failure (failed high) of the VCT level control system, without operator intervention, could lead to a possible loss of suction fluid for the charging pumps.

This is reportable per Tech. Spec. 6.6.2.a(9).

2. PROBABLE CONSEQUENCES and STATUS of REDUNDANT EQUIPMENT:

The VCT is the normal supply to the charging pumps. The RWST is the alternate and accident supply to the charging pumps. If VCT level transmitter (LT-115) failed high, letdown to the VCT would be diverted to the Primary Drain Tank. The automatic make up to the VCT and the automatic transfer to the RWST, on VCT Low-Low level, would not be functional. Throughout this event, numerous secondary indications (VCT pressure, charging pressure and flow) and alarms would be available to the operator for system evaluation. In addition, redundant VCT level indication (LI-112), located near the VCT, would be available.

Westinghouse has indicated that the operator would have approximately 10 minutes to transfer the charging pump suction from the VCT to the RWST or initiate other appropriate corrective actions to prevent possible damage to the operating charging pump.

The failure of the VCT level control system will not prevent the manual transfer of charging pump suction to the RWST or the automatic transfer to the RWST during an accident.

Since numerous visual and audible indications are available to the operator to permit the termination of this postulated event, the health and safety of the public would not be affected.

3. CAUSE:

The cause of this concern appeared to be one of design criteria interpretation.

4. IMMEDIATE CORRECTIVE ACTION:

The operating staff was alerted to this potential problem and the consequences.

ATTACHMENT 1 (continued)
SURRY POWER STATION, UNIT NO. 1
DOCKET NO: 50-280
REPORT NO: 81-009-017-0
EVENT DATE: 05-22-81

5. SUBSEQUENT CORRECTIVE ACTION:

A review of station procedures was conducted, and as a result, minor modifications (clarifications) will be made. In addition, the postulated event, the consequences and the required corrective actions will be included in the operator's training/retraining program.

6. ACTION TAKEN TO PREVENT RECURRENCE:

At this time, none is deemed necessary.

7. GENERIC IMPLICATIONS:

This concern is generic to both Unit No. 1 and 2, therefore, Unit No. 2 procedures will be modified.