

LICENSEE EVENT REPORT

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

LICENSEE CODE: V I A S P S 1 0 0 - 0 0 0 0 0 0 - 0 0 0 4 1 1 1 1 1
LICENSE NUMBER: 25 26 27 CAT 58
REPORT SOURCE: L 0 5 0 0 0 2 8 0 7 0 7 0 2 8 1 8 0 7 2 9 8 1
DOCKET NUMBER: 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
EVENT DATE: 74 75 76 77 78 79 80
REPORT DATE: 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
During Unit 1 startup, with the reactor coolant system (RCS) solid at 190 degrees F and 350 psig, power operated relief valves (PORV) lifted in order to mitigate an over-pressurization transient. The transient occurred when the charging flow control valve (FCV) inadvertently opened when being put in service. The operation of the PORVs, isolation of the FCV, and subsequent lowering of RCS pressure below the setpoint terminated the transient; therefore, the health and safety of the public were not affected. This item is reportable per T.S.6.6.4.g. as required by T.S.3.1.G.3.

SYSTEM CODE: C J 11
CAUSE CODE: E 12
CAUSE SUBCODE: B 13
COMPONENT CODE: V A I V E X 14
COMP SUBCODE: F 15
VALVE SUBCODE: G 16
EVENT YEAR: 8 1
SEQUENTIAL REPORT NO.: 0 1 8
OCCURRENCE CODE: 0 3
REPORT TYPE: L
REVISION NO.: 0
ACTION TAKEN: A 18
FUTURE ACTION: Z 19
EFFECT ON PLANT: Z 20
SHUTDOWN METHOD: Z 21
HOURS: 0 0 0 0
ATTACHMENT SUBMITTED: Y 23
NPRD-4 FORM SUB.: N 24
PRIME COMP. SUPPLIER: N 25
COMPONENT MANUFACTURER: C 6 3 5 25

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
This event was initiated when the charging FCV was unisolated. The valve controller output signal implied the valve was in the closed position but failure of the valve resulted in nearly full flow. This resulted in a spike in charging flow causing an RCS pressure increase. Corrective action was to isolate the FCV and reduce RCS pressure below the setpoint.

FACILITY STATUS: G 28
% POWER: 0 0 0 29
OTHER STATUS: N/A 30
METHOD OF DISCOVERY: Operator Observation 31
DISCOVERY DESCRIPTION: 32
ACTIVITY CONTENT: Z 33
RELEASED OF RELEASE: Z 34
AMOUNT OF ACTIVITY: N/A 35
LOCATION OF RELEASE: 36
PERSONNEL EXPOSURES: 0 0 0 37
TYPE: Z 38
DESCRIPTION: N/A 39
PERSONNEL INJURIES: 0 0 0 40
DESCRIPTION: N/A 41
LOSS OF OR DAMAGE TO FACILITY: Z 42
TYPE: N/A 43
DESCRIPTION: 44
PUBLICITY ISSUED: N 45
DESCRIPTION: N/A 46

NRC USE ONLY
8108100317 810729
PDR ADDOCK 05000280
S PDR
J. L. Wilson
PHONE (804) 357-3184

ATTACHMENT 1
SURRY POWER STATION, UNIT 1
DOCKET NO: 50-280
REPORT NO: 81-018/03L-0
EVENT DATE: 07-02-81

TITLE OF EVENT: RCS OVERPRESSURIZATION

1. DESCRIPTION OF EVENT:

On July 2, 1981, during Unit 1 startup following the unit's steam generator replacement project, with the reactor coolant system solid at 190 degrees F and 350 psig, the pressurizer power operated relief valves lifted in order to limit an overpressure condition. This is reportable per T.S. 6.6.4.g as required by T.S.-3.1.G.3.

2. PROBABLE CONSEQUENCES AND STATUS OF REDUNDANT SYSTEMS:

Since the power operated relief valves and the other components of the overpressure mitigation system acted promptly and without failure to mitigate the RCS pressure transient, the health and safety of the public were not affected.

3. CAUSE OF EVENT:

The overpressure condition was caused by an inadvertant increase in charging flow. The flow increase occurred when the charging flow control valve was unisolated when being placed in service. The valve controller output signal implied the FCV to be in the fully closed position, but when the FCV was unisolated, the charging flow increased sufficiently to raise the RCS pressure to the lift pressure of the PORV. Subsequent investigation revealed failure of the charging FCV.

4. IMMEDIATE CORRECTIVE ACTION:

The immediate action was to isolate the FCV and depressurize the RCS to less than the pressure required for lifting the PORV's.

5. SUBSEQUENT CORRECTIVE ACTION:

The FCV was repaired, tested, and satisfactorily returned to service.

6. ACTIONS TAKEN TO PREVENT RECURRENCE:

No further action is required.

7. GENERIC IMPLICATIONS:

There are no generic implications form this event.