

SUPPLEMENTAL REPORT

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

1 V A S P S 2 0 0 - 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5  
5 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 57 CAT 58

1 REPORT SOURCE L 0 5 0 0 0 2 8 1 7 0 2 0 9 7 9 8 0 8 2 5 8 0 9  
60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

2 During refueling and steam generator replacement of Surry Unit No. 2 outage, routine  
3 inspection of recirculation spray piping indicated deterioration on the low portion of  
4 two of the four recirculation spray subsystems. This is less conservative with respect  
5 to T.S. 3.4.A.2 and is reportable under T.S.6.6.2.b.(4). Redundant systems were operable  
6 and were capable of providing cooling and depressurization as required. Therefore,  
7 the health and safety of the public were not affected.

8 9 SYSTEM CODE SH 11 CAUSE CODE X 12 CAUSE SUBCODE Z 13 COMPONENT CODE PIPEX X 14 COMP. SUBCODE C 15 VALVE SUBCODE Z 16  
9 8 9 10 11 12 13 18 19 20

17 LER/RO REPORT NUMBER 8 0 21 22 SEQUENTIAL REPORT NO. 0 0 8 24 26 OCCURRENCE CODE 0 3 28 29 REPORT TYPE Y 30 REVISION NO. 1 32

ACTION TAKEN A 18 FUTURE ACTION F 19 EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 0 0 0 0 22 ATTACHMENT SUBMITTED Y 23 NPRD-4 FORM SUB. N 24 PRIME COMP. SUPPLIER Z 25 COMPONENT MANUFACTURER 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

0 A sample of the piping was analyzed by a consulting laboratory. The cause of the  
1 degradation has been determined to be chloride stress corrosion. The degraded sensitized  
2 piping has been replaced with non-sensitized piping to resist chloride stress corrosion.

5 FACILITY STATUS H 28 % POWER 0 0 0 29 OTHER STATUS NA 30 METHOD OF DISCOVERY B 31 DISCOVERY DESCRIPTION Routine Surveillance 32

3 ACTIVITY CONTENT Z 33 Z 34 AMOUNT OF ACTIVITY NA 35 LOCATION OF RELEASE NA 36

PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION NA 39

PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION NA 41

LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION NA 43

PUBLICITY ISSUED N 44 DESCRIPTION NA 45 NRC USE ONLY

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SURRY POWER STATION, UNIT NO. 2  
DOCKET NO. 50-281  
REPORT NO. 79-008/03X-1  
EVENT DATE: 02-09-79

TITLE OF REPORT: RECIRCULATION SPRAY SYSTEM PIPE DETERIORATION

1. Description of Event:

During the refueling and steam generator replacement outage of Surry Unit No. 2, routine surveillance indicated deterioration of piping on the low (horizontal) portion of two of the four recirculation spray subsystems.

A visual inspection of the Surry Unit No. 1 recirculation spray systems piping was performed with satisfactory findings.

The event constitutes a condition less conservative with respect to T.S.3.4.A.2 and is reportable in accordance with T.S. 6.6.2.b(4).

2. Probable Consequences/Status of Redundant Systems:

The recirculation spray systems are redundant systems. They provide the necessary cooling and depressurization of containment during a loss of coolant event. A complete description of the systems are contained in section 6.3.1 of the Final Safety Analysis Report for the Surry Power Station, Unit No. 1 and 2.

Because of the redundancy of the systems, and the nature of the degradation experienced, the systems would have performed their intended function. Therefore the health and safety of the general public were not affected.

3. Cause of Event:

The cause of degradation has been determined to be chloride stress corrosion, by the consulting laboratory.

4. Immediate Corrective Action:

A sample of the degraded piping was sent to a consulting laboratory for evaluation. Action was initiated to replace the degraded piping.

5. Scheduled Corrective Action:

Degraded piping has been replaced.

6. Action Taken to Prevent Recurrence:

The degraded sensitized stainless steel piping has been replaced by nonsensitized stainless steel piping which resists chloride stress corrosion.

The installed instrumentation gives an indication in the control room if water enters the piping under discussion.

Routine surveillance program to inspect the low point piping by ultrasonic testing during refueling is in effect. Any piping that does not pass the inspection will be subjected to further evaluation and

ATTACHMENT 2

SURRY POWER STATION UNIT NO 2 SUPPLEMENTAL REPORT

DOCKET NO: 50-281

REPORT NO: 79-008/C3X-1

EVENT DATE: 02-09-79

6. Action Taken to Prevent Recurrence (continued)

replacement if necessary.

7. Generic Implications:

None