

## LICENSEE EVENT REPORT

CONTROL BLOCK: 1 2 3 4 5 6 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

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 2 3 4 5 6 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

CON'T

REPORT SOURCE L 6 0 5 0 0 0 2 8 1 7 0 5 1 4 8 1 8 0 6 0 5 8 1 9

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

0 2 With Unit No.2 at 100% power, PT-27C revealed that amp reading for heat tracing

0 3 Panel 9, circuit 20C, was below the acceptance criteria stipulated in the PT. This

0 4 event is contrary to T.S. 3.2.B.5 and is reportable per T.S. 6.6.2.b(2). The

0 5 redundant heat tracing circuit was operable, therefore, the health and safety of the

0 6 public were not affected.

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SYSTEM CODE S H 11 CAUSE CODE E 12 CAUSE SUBCODE A 13 COMPONENT CODE H E A T E R 14 COMP. SUBCODE Z 15 VALVE SUBCODE Z 16

17 LER/RO REPORT NUMBER 8 1 2 2 0 3 L 0

ACTION TAKEN C 18 FUTURE ACTION F 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 A 25 COMPONENT MANUFACTURER T 1 8 5 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

1 0 The loss of heat tracing was due to excessive heat. The defective heat tracing was

1 1 replaced and tested. A design change has been initiated to change the manner by

1 2 which these borated lines are heat traced.

1 3

1 4

1 5 FACILITY STATUS E 28 % POWER 1 0 0 29 OTHER STATUS N/A 30 METHOD OF DISCOVERY B 31 DISCOVERY DESCRIPTION Routine Test. 32

1 6 ACTIVITY CONTENT RELEASED OF RELEASE Z 33 Z 34 AMOUNT OF ACTIVITY N/A 35 LOCATION OF RELEASE N/A 36

1 7 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION N/A 39

1 8 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION N/A 41

1 9 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION N/A 43

2 0 PUBLICITY ISSUED N 44 DESCRIPTION N/A 45

NRC USE ONLY

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ATTACHMENT 1  
SURRY POWER STATION, UNIT No. 2  
DOCKET NO: 50-281  
REPORT NO: 81-022/03L-0  
EVENT DATE: 05-14-81

TITLE OF EVENT: HEAT TRACING FAILURE

1. DESCRIPTION OF EVENT:

With Unit No. 2 at 100% power, PT-27C revealed that the amp reading for heat tracing Panel 9, circuit 20C ("C" BAST recirc. line), was below the acceptance criteria stipulated in the PT. This event is contrary to Technical Specification 3.2.B.5, and is reportable per Technical Specification 6.6.2.b(2).

2. PROBABLE CONSEQUENCES and STATUS of REDUNDANT EQUIPMENT:

The heat tracing circuits are intended to maintain a fluid temperature above that needed for flow. The redundant heat tracing circuit was operable, therefore, the health and safety of the public were not affected.

3. CAUSE:

The loss of heat tracing was due to excessive heat.

4. IMMEDIATE CORRECTIVE ACTION:

The immediate corrective action was to verify that the redundant circuit was operable.

5. SUBSEQUENT CORRECTIVE ACTION:

The defective heat tracing tape was replaced and tested within the time span specified by Technical Specifications.

6. ACTION TAKEN TO PREVENT RECURRENCE:

No additional actions were deemed necessary.

7. GENERIC IMPLICATIONS:

A task force has reviewed the total spectrum of the Heat Tracing system and a Design Change is being prepared as a result of the Task Force's study. Long lead items are being procured.

WORK FORM FOR NRC 368 (LER)

- 6. Report source *Licensee*
- 11. System code *SH - other Eng Safety Feature Systems*
- 12. Cause code *E - Component failure*
- 13. Cause subcode *A - Electrical*
- 14. Component code *Heater*
- 15. Component subcode *Z - n/a*
- 16. Valve subcode *Z - n/a*
- 18. Action taken *C - Replaced*
- 19. Future action *F - Indisign*
- 20. Effect on plant *Z - no significant affect*
- 21. Shutdown method *Z - no outage*
- 22. Hours *0 - Zero*
- 23. Attachments *- yes*
- 24. NPRD Form *- no*
- 25. Prime component supplier *A - Inh Eng.*
- 26. Component manufacturers *- Thermon*
- 28. Facility status *- Steady - E*
- 31. Method of discovery *- Routine TEST*
- 33. Activity released *- n/a*
- 34. Contents of release *- n/a*
- 35. Amount of activity *n/a*
- 38. Personnel exposure type *n/a*
- 42. Type damage/loss *n/a*