

## LICENSEE EVENT REPORT

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

01 V A S P S 2 0 0 - 0 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5  
5 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 37 CAT 38

01 L 0 5 0 0 0 2 8 1 7 1 0 1 0 8 2 8 1 1 0 8 8 2 5  
60 61 DOCKET NUMBER 66 69 EVENT DATE 74 75 REPORT DATE 80

## EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 With the Unit at 100% power, Vital Bus III inverter failed initiating a sequence of  
03 events, including turbine runback, reactor trip and safety injection. The loss of  
04 vital bus III resulted in a degree of redundancy, for CLS Hi-Hi, less than  
05 specified in T.S. Table 3.7-2. This event is reportable per T.S.6.6.2.b.(1). The  
06 redundant channels remained operable, therefore the health and safety of the  
07 public were not affected.

08  
09 SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP SUBCODE VALVE SUBCODE  
E G 11 E 12 A 13 E L E C T R I C I T Y 14 Z 15 Z 16  
9 10 11 12 13 18 19 20  
17 LER/RO EVENT YEAR SEQUENTIAL OCCURRENCE REPORT REVISION  
REPORT NUMBER 8 2 0 6 3 0 3 L 0  
21 22 23 24 26 27 28 29 30 31 32  
ACTION FUTURE EFFECT SHUTDOWN HOURS ATTACHMENT NRPD-4 PRIME COMP. COMPONENT  
TAKEN ACTION ON PLANT METHOD METHOD SUBMITTED FORM SUB. SUPPLIER MANUFACTURER  
18 Z 19 A 20 B 21 0 0 1 6 Y 23 N 24 A 25 G 1 9 5 26  
33 34 35 36 37 40 41 42 43 44 47

## CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 An inductor in the station battery inverter failed (shorted). Thereby causing a  
11 loss of vital bus III. The vital bus was re-energized by cross-connecting it to  
12 vital bus I. Later, the inductor was replaced and vital bus III was transferred  
13 to its normal power source.

14  
15 FACILITY STATUS % POWER OTHER STATUS (30) METHOD OF DISCOVERY DISCOVERY DESCRIPTION (32)  
E 28 1 0 0 29 N/A A 31 Operator Observation  
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  
16 ACTIVITY CONTENT AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)  
Z 33 Z 34 N/A N/A  
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  
17 PERSONNEL EXPOSURES  
NUMBER TYPE DESCRIPTION (39)  
0 0 0 37 Z 38 N/A  
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  
18 PERSONNEL INJURIES  
NUMBER DESCRIPTION (41)  
0 0 0 40 N/A  
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  
19 LOSS OF OR DAMAGE TO FACILITY  
TYPE DESCRIPTION (43)  
Z 42 N/A  
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  
20 PUBL CITY  
ISSUED DESCRIPTION (45)  
N 44  
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

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PDR ADDCK 05000280  
S PDR

NRC USE ONLY

NAME OF PREPARED J. L. Wilson

PHONE (804) 357-3184

ATTACHMENT 1  
SURREY POWER STATION, UNIT NO. 2  
DOCKET NO: 50-281  
REPORT NO: 82-063/03L-0  
EVENT DATE: 10-10-82

TITLE OF THE EVENT: INVERTER FAILURE

1. Description of the Event:

During normal operations at 100% power, vital bus III inverter failed initiating a turbine runback which lead to reactor trip and safety injection. The loss of vital bus III resulted in the loss of one channel of High-High Containment Pressure. This placed the unit in a condition where the degree of redundancy was less than that specified in Technical Specification Table 3.7-2. This event is reportable per Technical Specification 6.6.2.b.(1).

2. Probable Consequences and Status of Redundant Equipment:

Since three channels of containment pressure remained operable to perform the intended function and other systems performed their design function, the health and safety of the general public were not jeopardized.

3. Cause of the Event:

An inductor in the Station Battery Inverter failed (shorted), thereby causing a loss of vital bus III.

4. Immediate Corrective Action:

Vital Bus III was re-energized by cross-connecting it to vital bus I.

5. Subsequent Corrective Action:

The inductor was replaced and vital bus III was transferred to its normal power source.

6. Action Taken to Prevent Recurrence:

None.

7. Generic Implications:

None.