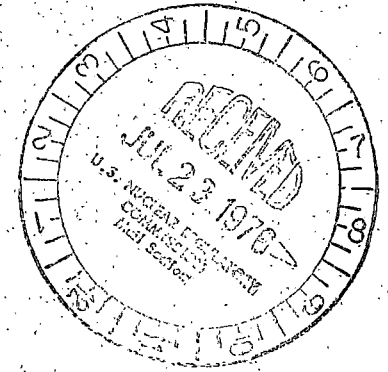


VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

July 21, 1976



REGULATORY DEPARTMENT COPY

Mr. Norman G. Moseley, Director  
Directorate of Regulatory Operations  
United States Atomic Energy Commission  
Region II - Suite 818  
230 Peachtree Street, Northwest  
Atlanta, Georgia 30303

Serial No. 150  
PO&M/LJG:jlf

Docket No. 50-281  
License No. DPR-37

Dear Mr. Moseley:

Pursuant to Surry Power Station Technical Specification 6.6.B.2, the Virginia Electric and Power Company hereby submits a copy of Licensee Event Report No. USRE-S2-76-11.

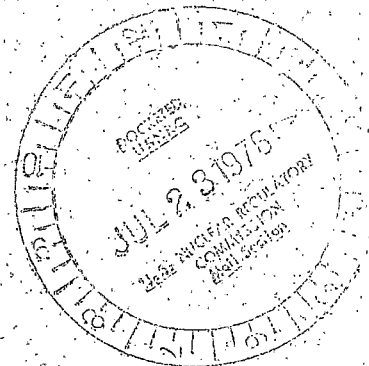
The substance of this report has been reviewed by the Station Nuclear Safety and Operating Committee and will be placed on the agenda for the next meeting of the System Nuclear Safety and Operating Committee.

Very truly yours,

*C. M. Stallings for*  
C. M. Stallings  
Vice President-Power Supply  
and Production Operations

Enclosure

cc: Mr. Robert W. Reid, Chief (40 copies) ✓  
Operating Reactors Branch 4



1328

# LICENSEE EVENT REPORT

CONTROL BLOCK: 

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|--|--|--|--|--|--|

(PLEASE PRINT ALL REQUIRED INFORMATION)

|               |   |          |    |             |               |                |    |    |    |            |    |              |    |             |    |            |    |    |    |    |    |    |    |    |
|---------------|---|----------|----|-------------|---------------|----------------|----|----|----|------------|----|--------------|----|-------------|----|------------|----|----|----|----|----|----|----|----|
| LICENSEE NAME |   |          |    |             |               | LICENSE NUMBER |    |    |    |            |    | LICENSE TYPE |    |             |    | EVENT TYPE |    |    |    |    |    |    |    |    |
| 01            | V | A        | S  | P           | S             | 2              | 0  | 0  | -  | 0          | 0  | 0            | 0  | 0           | 0  | 4          | 1  | 1  | 1  | 0  | 0  | 3  |    |    |
| 7             | 8 | 9        | 14 | 15          | 25            | 26             | 30 | 31 | 32 |            |    |              |    |             |    |            |    |    |    |    |    |    |    |    |
| CONT          |   | CATEGORY |    | REPORT TYPE | REPORT SOURCE | DOCKET NUMBER  |    |    |    | EVENT DATE |    |              |    | REPORT DATE |    |            |    |    |    |    |    |    |    |    |
| 01            | M | I        | L  | L           | 0             | 5              | 0  | -  | 0  | 2          | 8  | 1            | 0  | 6           | 2  | 6          | 7  | 6  | 0  | 7  | 1  | 9  | 7  | 6  |
| 7             | 8 | 57       | 58 | 59          | 60            | 61             | 68 | 69 | 74 | 75         | 80 | 80           | 80 | 80          | 80 | 80         | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |

### EVENT DESCRIPTION

|                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| 02              | During a normal operating shift it was found that the Nuclear Instrumentation System     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80 |
| 03              | (NIS) Power Range Channel N42 deviated from channels N41, N43, and N44 by 3% in the non- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80 |
| 04              | conservative direction. This caused the channel to be low by 3%, thereby requiring a     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80 |
| 05              | flux of 110% to cause a trip on this channel. This is contrary to Technical Specifica-   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80 |
| 06              | tion 2.3 which requires a setpoint of 109% and is reportable per T.S.6.6.2b(2).          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80 |
| (USRE-S2-76-11) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |

|             |   |            |    |                |    |    |    |                          |    |                        |   |   |           |   |   |
|-------------|---|------------|----|----------------|----|----|----|--------------------------|----|------------------------|---|---|-----------|---|---|
| SYSTEM CODE |   | CAUSE CODE |    | COMPONENT CODE |    |    |    | PRIME COMPONENT SUPPLIER |    | COMPONENT MANUFACTURER |   |   | VIOLATION |   |   |
| 07          | Z | Z          | F  | I              | N  | S  | T  | R                        | U  | A                      | W | 1 | 2         | 0 | N |
| 7           | 8 | 9          | 10 | 11             | 12 | 17 | 43 | 44                       | 47 | 48                     |   |   |           |   |   |

### CAUSE DESCRIPTION

|         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| 08      | The immediate corrective action taken was to place Channel N42 in the trip mode. The     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80 |
| 09      | unit continued to operate on the remaining three power range channels. The accuracy      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80 |
| 10      | of these channels had been checked against a heat balance at the beginning of the shift. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80 |
| (Con't) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |

|                 |   |         |    |    |              |    |     |    |                     |  |                       |  |  |  |
|-----------------|---|---------|----|----|--------------|----|-----|----|---------------------|--|-----------------------|--|--|--|
| FACILITY STATUS |   | % POWER |    |    | OTHER STATUS |    |     |    | METHOD OF DISCOVERY |  | DISCOVERY DESCRIPTION |  |  |  |
| 11              | E | 1       | 0  | 0  | N/A          | B  | N/A |    |                     |  |                       |  |  |  |
| 7               | 8 | 9       | 10 | 12 | 13           | 44 | 45  | 46 |                     |  |                       |  |  |  |

|                           |   |                    |     |                    |    |    |  |                     |  |  |  |
|---------------------------|---|--------------------|-----|--------------------|----|----|--|---------------------|--|--|--|
| FORM OF ACTIVITY RELEASED |   | CONTENT OF RELEASE |     | AMOUNT OF ACTIVITY |    |    |  | LOCATION OF RELEASE |  |  |  |
| 12                        | Z | Z                  | N/A | N/A                |    |    |  |                     |  |  |  |
| 7                         | 8 | 9                  | 10  | 11                 | 44 | 45 |  |                     |  |  |  |

### PERSONNEL EXPOSURES

|        |   |      |    |             |     |
|--------|---|------|----|-------------|-----|
| NUMBER |   | TYPE |    | DESCRIPTION |     |
| 13     | 0 | 0    | 0  | Z           | N/A |
| 7      | 8 | 9    | 11 | 12          | 13  |

### PERSONNEL INJURIES

|        |   |             |    |     |
|--------|---|-------------|----|-----|
| NUMBER |   | DESCRIPTION |    |     |
| 14     | 0 | 0           | 0  | N/A |
| 7      | 8 | 9           | 11 | 12  |

### OFFSITE CONSEQUENCES

|    |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| 15 | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80 |
|----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|

### LOSS OR DAMAGE TO FACILITY

|      |   |             |    |
|------|---|-------------|----|
| TYPE |   | DESCRIPTION |    |
| 16   | Z | N/A         |    |
| 7    | 8 | 9           | 10 |

### PUBLICITY

|    |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| 17 | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80 |
|----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|

### ADDITIONAL FACTORS

|    |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|----|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| 18 | The health and safety of the public were not affected by this event because the three |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80 |
|----|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|

|    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| 19 | remaining power range channels were operable, accurate and provided the required (Con't) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80 |
|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|

NAME: T. L. Baucom PHONE: (804) 357-3184

CAUSE DESCRIPTION (CONTINUED)

The output of the level and summing amplifier of channel N42 was found to have drifted low by a proportional voltage. The channel was calibrated according to procedure and placed back on the line. It has since operated satisfactorily.

Since this is the first known failure of this particular circuit, no further action is deemed necessary at this time.

The NIS System is provided by Westinghouse.

ADDITIONAL FACTORS (CONTINUED)

degree of redundance necessary to operate the unit.