

## LICENSEE EVENT REPORT

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CON'T

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)7 8CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

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PHONE (804) 357-3184

UPDATED REPORT-PREVIOUS REPORT DATED 5/19/83

Attachment I

Unit No. : I  
Docket No. : 50-280  
Report No. : 83-021/03X-I  
Event Date: 4/27/83

Title of the Event: EMERGENCY BUS SEPARATION and DIESEL START TIME  
DELAY SETPOINT TOLERANCE EXCEEDED

I. Description of the Event:

On April 27, 1983, with the unit at Cold Shutdown, Periodic Tests I8.15 and I8.16, Degraded Protection Function 'H' and 'J' Train respectively, were performed. The tests revealed that the time delays for the emergency bus separation and diesel start for a degraded voltage condition during a CLS or SI condition for 'H' and 'J' buses were 7.366 sec. and 7.505 sec. respectively. At that time, it was believed that the time delays specified in T.S. Table 3-7-4 of  $\pm .35$  seconds had been exceeded and a report was submitted per T.S. 6.6.2.b(2).

Since that time, an engineering evaluation has determined that the time delays specified in T.S. Table 3.7-4 for the undervoltage protection scheme apply to the specific time delay relays only and do not include actuation times of other relays in the circuit.

The time delays measured in the PTs included actuation times of two other relays in the circuit. Engineering has determined that the actuation times for the other two relays total 0.28 sec. (0.14 sec. per relay). Therefore, the actuation times for the time delay relays only can be computed as 7.338 seconds and 7.477 seconds for the 'H' and 'J' trains respectively. Consequently, only the 'J' train time delay relay had exceeded the value specified in T.S.

2. Probable Consequences

The time delay specified for the emergency bus separation and diesel start is  $7 \pm .35$  seconds. Periodic Test I8.16 computed a time delay of 7.477 seconds for the 'J' bus time delay relay. Since the bus separation and diesel start would have occurred, an insignificant amount of time later than specified, the health and safety of the public would not have been affected.

3. Cause

The cause has been determined to be expected component drift.

4. Immediate Corrective Action

The time delay relays were reset to achieve the time delay specified for the function.

5. Subsequent Corrective Action

None.

Attachment I

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6. Action Taken to Prevent Recurrence

At present, procedures that measure time delays of undervoltage schemes record total time delay measurements of the time delay relay and other relays in the circuit. These procedures will be revised to specify that only the time recorded for the actuation of the time delay be used to ensure compliance with Technical Specifications. The above actions will also be implemented for Unit 2.

7. Generic Implications

None.

July 9, 1985



VIRGINIA POWER

Surry Power Station  
P. O. Box 315  
Surry, Virginia 23883

U.S. Nuclear Regulatory Commission  
Document Control Desk  
016 Phillips Building  
Washington, D. C. 20555

Serial No: 83-038A  
Docket No: 50-280  
Licensee No: DPR-32

Gentlemen:

Pursuant to Surry Power Station Technical Specifications, Virginia Power hereby submits the following Licensee Event Report for Surry Unit 1.

REPORT NUMBER

83-021/03X-1

This report has been reviewed by the Station Nuclear Safety and Operating Committee and will be reviewed by Safety Evaluation and Control.

Very truly yours,

*R F Saunders*

R. F. Saunders  
Station Manager

Enclosure

cc: Dr. J. Nelson Grace  
Regional Administrator  
Suite 2900  
101 Marietta Street, NW  
Atlanta, Georgia 30323

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