

LICENSEE EVENT REPORT

CONTROL BLOCK: 1 (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 V A S P S 1 2 0 0 - 0 0 0 0 0 - 0 0 3 4 1 1 1 1 1 4 5

REPORT SOURCE L 6 0 5 0 0 0 2 8 0 7 0 6 0 1 8 3 8 0 6 2 7 8 3 9

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

During Reactor Shutdown following low power physics testing, it was found that the control bank "B" rod position indicators were out of calibration. The indicators displayed 30 steps withdrawn when in fact the rods were fully inserted. This event is contrary to T.S.-3.12.E.1 and is reportable per T.S.-6.6.2.b.(2). The control rods were not misaligned from the other control rods and were capable of being tripped at all times. Therefore, the health and safety of the public were not affected.

SYSTEM CODE R B 11 CAUSE CODE A 12 CAUSE SUBCODE C 13 COMPONENT CODE I N S T R U 14 COMP. SUBCODE I 15 VALVE SUBCODE Z 16

LER/RO REPORT NUMBER 18 3 EVENT YEAR 0 2 5 SEQUENTIAL REPORT NO. 0 3 OCCURRENCE CODE L 31 REVISION NO. 0

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

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

The cause was due to an error in the calibration of 'B' control bank rod position indication. Specifically, the insertion of additional resistance in the calibration circuit. The rod position indicators were properly calibrated.

FACILITY STATUS G 28 % POWER 0 0 0 29 OTHER STATUS N/A 30 METHOD OF DISCOVERY A 31 DISCOVERY DESCRIPTION Operator Observation 32

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

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

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

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

PUBLICITY ISSUED N 44 DESCRIPTION N/A 45

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NAME OF PREPARED J. L. Wilson

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NRC USE ONLY

ATTACHMENT 1
SURRY POWER STATION, UNIT NO. 1
DOCKET NO: 50-280
REPORT NO: 83-025/03L-0
EVENT DATE: 06-01-83

TITLE OF THE EVENT: IRPI IMPROPERLY CALIBRATED

1. Description of the Event

During Reactor Shutdown following low power physics testing, it was found that the control bank "B" rod position indicators were out of calibration. The indicators displayed 30 steps withdrawn when in fact the rods were fully inserted. This event is contrary to T.S.-3.12.E.1 and is reportable per T.S.-6.6.2.b.(2).

2. Probable Consequences and Status of Redundant Equipment

The rod position indicators give continuous indication of the position of each control rod. The RPI misalignment did not effect the control of the "B" bank rods. Each rod was capable of being dropped, and the error in the IRPI rod position had been introduced during a calibration check less than 12 hours earlier. Therefore, the health and safety of the public was not affected.

3. Cause

The error in the "B" bank rod position indicators was due to a calibration error during PT-5.2 (IRPI Calibration). In an effort to perform a more accurate calibration, the Instrument Technician calibrating "B" control bank placed a fine control potentiometer between the power supply and the signal conditioning module. Although the voltage at the input to the module was monitored and apparently adjusted correctly, the circuit load of the additional potentiometer introduced a calibration error. Later, the test setup was duplicated to verify that the additional potentiometer caused the calibration error.

4. Immediate Corrective Action

The Boron Injection Tank was injected to insure the unit's shutdown margin.

5. Subsequent Corrective Action

The position of the rods was verified by taking readings from the search coils. Control Bank "B" was recalibrated.

6. Action Taken to Prevent Recurrence

This particular event has been reviewed with all technicians with emphasis on the consequences of deviations from standard test methods.

7. Generic Implications

None.

Vepco

USNRC REGION II
ATLANTA, GEORGIA

July 1
83 JUN 31 A 9:49

VIRGINIA ELECTRIC AND POWER COMPANY

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

Serial No: 83-048

Docket No: 50-280

License No: DPR-32

JUN 27 1983

Mr. James P. O'Reilly
Regional Administrator
Suite 2900
101 Marietta Street, NW
Atlanta, Georgia 30303

Dear Mr. O'Reilly

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

Report Number

83-025/03L-0

Applicable Technical Specification

T. S. 6.6.2.b(2)

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,

J. L. Wilson
J. L. Wilson
Station Manager

Enclosure

cc: Document Control Desk, USNRC
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