

LICENSEE EVENT REPORT

CONTROL BLOCK: 1

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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

CONT
01 L 0 5 0 0 0 2 8 0 7 0 6 1 5 8 3 8 0 7 1 5 8 3 9

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

012 With Unit No. 1 at intermediate shutdown and Unit No. 2 at 100% power, a review of
013 cycle 7 and cycle 6 data for units 1 and 2 respectively revealed that the intermediate
014 range high flux trip setpoint was non-conservative. This is contrary to T.S.-2.3.A.1
015 and T.S. 3.7 and reportable per T.S.-6.6.2.b.(1). The power range high flux, low
016 setpoint, remained operable. Therefore, the health and safety of the public were
017 not affected.

018 019 I A 11 A 12 X 13 I N S T R U 14 E 15 Z 16
17 8 3 0 2 7 0 3 L 0
E 18 G 19 Z 20 Z 21 0 0 0 0 Y 23 N 24 N 25 W 1 2 0 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

110 The cause of the unconservatively High Intermediate Range High Neutron Flux Reactor
111 Trip Setpoints was the failure to properly assess the effects of new core designs
112 on Intermediate Range Nuclear Instrumentation. The Intermediate Range High Trip
113 Setpoint was reduced and confirmed. Further analysis is in progress.

114 G 28 0 0 0 29 N/A D 31 North Anna Event
115 Z 33 Z 34 N/A N/A
116 0 0 0 37 Z 38 N/A
117 0 0 0 40 N/A
118 Z 42 N/A
119 N 44 N/A

8307220328 830715
OR ADOCK 05000280
S PDR

NAME OF PREPARED J. L. Wilson

PHONE: (804) 357-3184

ATTACHMENT 1

SURRY POWER STATION, UNIT NO. 1 & 2

DOCKET NO; 50-280

REPORT NO; 83-027/03L-0

EVENT DATE: 06-15-83

TITLE OF THE EVENT; NI-35 & 36 POSSIBLE DISCREPANCY

1. Description of the Event

On June 15, with unit 1 at intermediate shutdown and unit 2 at 100% power, after a review of cycle 7 and cycle 6 data for units 1 and 2 respectively, it was found that the intermediate range high flux trip setpoint was set higher than the equivalent of 25% full power.

The intermediate range high level trip setpoint was in excess of the limits specified by T.S.2.3.A.1. These events are contrary to Technical Specification Table 3.7-1 and reportable in accordance with Technical Specification 6.6.2.b.(1).

2. Probable Consequences and Status of Redundant Equipment

Section 14.2.1 of the UFSAR safety analysis does not take credit for the intermediate range trip during a power excursion from Hot Shutdown. The UFSAR does recognize the existence of this trip and allows the intermediate range trip to be blocked above 10% power. Since the Safety Analysis depends on the Doppler Effect and the power range high flux low setpoint trip to turn a power transient from low power, and both units power range high flux low setpoint trips were functional, the health and safety of the public were not affected.

3. Cause

The cause of the unconservatively High Intermediate Range High Neutron Flux Reactor Trip Setpoints was the failure to properly assess the effects of new Core Designs on Intermediate Range Nuclear Instrumentation.

4. Immediate Corrective Action

The intermediate range high trip setpoint was reduced to 2×10^{-4} amperes. It was confirmed during unit start up, that the setpoint was less than 25% Reactor Power for both units.

5. Subsequent Corrective Action

A preliminary evaluation of both low leakage and high leakage cores has revealed possible non-conservatisms in previous cycles. A more rigorous evaluation of past cycles is in progress.

6. Action Taken to Prevent Recurrence

An evaluation will be performed to determine the intermediate range current equivalent to 25% power for a given core at anytime during its life. Incore Excore Calibration procedures will be modified to include intermediate range settings as well as power range NI's.

7. Generic Implications

This problem is common to both units during plant start-up.

Vepco

USNRC REGION
ATLANTA, GEORGIA

83 JUL 18 AIO: 33

VIRGINIA ELECTRIC AND POWER COMPANY

Surry Power Station

P. O. Box 315

Surry, Virginia 23883

Serial No: 83-051

Docket No: 50-280

License No: DPR-32

JUL 15 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

83-027/03L-0

Applicable Technical Specification

T. S. 6.6.2.b(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,

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

Enclosure

cc: Document Control Desk, USNRC
016 Phillips Bldg.
Washington, D. C. 20555

DESIGNATED ORIGINAL

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