

LICENSEE EVENT REPORT

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

/0/1/ /V/A/N/A/S/2/ (2) /0/0/-/0/0/0/0/0/-/0/0/ (3) /4/1/1/1/1/ (4) / / / (5)
 LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT

/0/1/ REPORT /L/ (6) /0/5/0/0/0/3/3/9/ (7) /1/0/1/7/8/2/ (8) /1/1/0/2/8/2/ (9)
 SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

/0/2/ / On October 17, 1982, while in Mode 1, the "C" Steam Generator Narrow Range Chan- /
 /0/3/ / nel 2 (LI-2495) indicated high and was declared inoperable. The affected channel /
 /0/4/ / was placed in trip within 1 hour as required by Action 7 of T.S. 3.3.1.1. There- /
 /0/5/ / fore, the health and safety of the public were not affected. This event is re- /
 /0/6/ / portable pursuant to T.S. 6.9.1.9. /
 /0/7/ / /
 /0/8/ / /

SYSTEM CAUSE CAUSE COMP. VALVE
 CODE CODE SUBCODE COMPONENT CODE SUBCODE SUBCODE

/0/9/ /I/A/ (11) /E/ (12) /E/ (13) /I/N/S/T/R/U/ (14) /T/ (15) /Z/ (16)
 LER/RO EVENT YEAR SEQUENTIAL OCCURRENCE REPORT REVISION
 (17) REPORT NO. TYPE NO.
 NUMBER /8/2/ /- /0/6/7/ /- /0/3/ /L/ /- /0/

ACTION FUTURE EFFECT SHUTDOWN ATTACHMENT NPRD-4 PRIME COMP. COMPONENT
 TAKEN ACTION ON PLANT METHOD HOURS SUBMITTED FORM SUB. SUPPLIER MANUFACTURER
 /A/ (18) /Z/ (19) /Z/ (20) /Z/ (21) /0/0/0/0/ (22) /Y/ (23) /N/ (24) /N/ (25) /R/3/6/9/ (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

/1/0/ / The instrument drift was due to the failure of the transmitter amplifier card. /
 /1/1/ / The card was replaced, the loop recalibrated and the channel returned to service. /
 /1/2/ / /
 /1/3/ / /
 /1/4/ / /

FACILITY METHOD OF
 STATUS %POWER OTHER STATUS (30) DISCOVERY DISCOVERY DESCRIPTION (32)
 /1/5/ /E/ (28) /1/0/0/ (29) / NA / /A/ (31) / Operational Event /

ACTIVITY CONTENT
 RELEASED OF RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)
 /1/6/ /Z/ (33) /Z/ (34) / NA / / NA /

PERSONNEL EXPOSURES
 NUMBER TYPE DESCRIPTION (39)
 /1/7/ /0/0/0/ (37) /Z/ (38) / NA /

PERSONNEL INJURIES
 NUMBER DESCRIPTION (41)
 /1/8/ /0/0/0/ (40) / NA /

LOSS OF OR DAMAGE TO FACILITY (43)
 TYPE DESCRIPTION
 /1/9/ /Z/ (42) / NA /

PUBLICITY
 ISSUED DESCRIPTION (45)
 /2/0/ /N/ (44) / NA /

NRC USE ONLY

/ / / / / / / / / / / / / /

NAME OF PREPARER W. R. CARTWRIGHT

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Virginia Electric and Power Company
North Anna Power Station, Unit No. 2
Docket No. 50-339
Report No. LER 82-067/03L-0

Attachment: Page 1 of 1

Description of Event

On October 17, 1982, while in Mode 1 at 100% RTP, the Steam Generator "C" Narrow Range Level channel 2 indicated high. The T.S. 3.3.1.1 Action Statement 7 was entered and the channel placed in trip within 1 hour. This event is reportable pursuant to T.S. 6.9.1.9.b.

Probable Consequences of Occurrence

The low-low steam generator trip logic provides for a reactor trip in the event of the loss of secondary coolant. Of the 3 available Narrow Range Level Channels, any 2 level channels indicating less than 18% will complete the trip logic. Since the affected channel was placed in trip, the logic was changed to 1 channel in 2 for the reactor trip. Since this is more conservative than the 2 of 3 logic, the health and safety of the public were not affected.

Cause of Event

This event was caused by the failure of the transmitter amplifier card enclosed in the transmitter inside of the containment.

When the as-found data was plotted and compared to the ideal linear response plot, it was found that the expected response to a given input signal had rotated counter-clockwise causing a higher output signal for a full power input signal (44%) than was previously seen. Therefore, the indicator display in the Control Room, normally about 44% of full scale, was indicating about 55%.

Immediate Corrective Action

The amplifier card was replaced with a spare and the loop was recalibrated and returned to service.

Scheduled Corrective Action

No further corrective actions are scheduled at this time.

Actions Taken to Prevent Recurrence

No further action will be taken at this time.

Generic Implications

This event is the second failure of the Rosemount Model 1153 transmitter at North Anna since their installation. These transmitters were installed in Unit 2 in April, 1982 (D.C. 81-S08B). The failed amplifier card has been returned to Rosemount for a detailed failure analysis. The generic implication of this event will be determined when the results of this analysis are completed.