

U.S. NUCLEAR REGULATORY COMMISSION
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) /0/1/0/4/8/1/ (8) /0/1/2/1/8/1/ (9)
SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

/0/2/ / On January 1, 1981, during Mode 1 operation, the flux penalty summing amplifier/
/0/3/ / (NM-432A) was found to be failed during a loop calibration check. The failed /
/0/4/ / channel was in the trip position and the remaining channel was functioning pro-/
/0/5/ / perly. Therefore the health and safety of the public were not affected. This /
/0/6/ / item is reportable pursuant to T.S. 6.9.1.9.b. /
/0/7/ /
/0/8/ /

SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
/0/9/ /I/A/ (11)	/E/ (12)	/G/ (13)	/I/N/S/T/R/U/ (14)	/Y/ (15)	/Z/ (16)
LER/RO	EVENT YEAR	SEQUENTIAL REPORT NO.	OCCURRENCE CODE	REPORT TYPE	REVISION NO.
(17) REPORT NUMBER	/8/1/	/-/ /0/0/4/ / \ /	/0/3/	/L/	/-/ /0/

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
/A/ (18)	/Z/ (19)	/Z/ (20)	/Z/ (21)	/0/0/0/0/ (22)	/Y/ (23)	/N/ (24)	/N/ (25)	/W/1/2/0/(26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

/1/0/ / This failure was caused by a faulty NSA card (C3-141). The card was replaced /
/1/1/ / and calibrated. The loop calibration check was performed and the channel re- /
/1/2/ / turned to service. /
/1/3/ /
/1/4/ /

FACILITY STATUS	%POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
/1/5/ /E/ (28)	/1/0/0/ (29)	/ NA / (30)	/ / (31)	/ Periodic Test /
ACTIVITY RELEASED	CONTENT 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

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NAME OF PREPARER W. R. CARTWRIGHT

Virginia Electric and Power Company
North Anna Power Station, Unit 2
Docker No. 50-339
Report No. LER 81-004/03L-0

Attachment: Page 1 of 1

Description of Event

On January 4, 1981, the flux penalty summing amplifier was found to be failed during a loop calibration check.

Probable Consequences of Occurrence

The overtemperature ΔT trip function is to provide core DNB protection under adverse conditions of RCS pressure, power, average coolant temperature and axial power distribution. Should temperature, pressure or flux level approach limiting conditions for a given core thermal power condition, the ΔT protection system will automatically take steps necessary to reduce power or trip the reactor depending on the degree of departure from safe limits. The failure of this amplifier (NM-432A) did, in effect, remove the automatic penalty from the overtemperature ΔT trip setpoint due to an abnormal axial power distribution. The failed channel was in the trip mode and the remaining channels functioned properly. Therefore, the health and safety of the public were not affected.

Cause of Event

This event was caused by a failed NSA card (C3-141). The failure in this card was due to a shorted capacitor. The capacitor was replaced and the card tested.

Immediate Corrective Action

The failed card was replaced, the channel calibrated and returned to service.

Scheduled Corrective Action

No further action required.

Actions Taken to Prevent Recurrence

No further action required.

Generic Implications

There are no generic implications from this event.