

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

[illegible]

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)

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Virginia Electric and Power Company  
North Anna Power Station, Unit #2  
Docket No. 50-339  
Report No. LER 81-004/03X-1

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#### 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  $\Delta T$  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  $\Delta T$  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  $\Delta T$  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

The 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.