

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

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

/0/2/ / On June 19, 1981, with Unit II recovering from a turbine trip - reactor trip at /  
/0/3/ / 100% power, the Nuclear Instrumentation Channel N-35 was observed to be reading /  
/0/4/ / low and erratically as neutron flux decreased subsequent to the reactor trip. /  
/0/5/ / Since another operable intermediate range channel was providing redundant flux /  
/0/6/ / indication, the public health and safety were not affected. This event report- /  
/0/7/ / able pursuant to T.S. 6.9.1.9.b. /  
/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) /P/ (15) /Z/ (16)  
LER/RO EVENT YEAR SEQUENTIAL OCCURRENCE REPORT REVISION  
REPORT NO. NO.  
(17) NUMBER /8/1/ /-/ /0/5/2/ / \ / /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) /W/1/2/0/ (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)-

/1/0/ / The cause for the failure of the Intermediate Range Nuclear Instrumentation /  
/1/1/ / Channel was due to a failure of a high voltage power supply. The power supply /  
/1/2/ / was replaced, tested and the channel restored to service. /  
/1/3/ /  
/1/4/ /

FACILITY STATUS %POWER OTHER STATUS METHOD OF DISCOVERY DISCOVERY DESCRIPTION (32)  
/1/5/ /X/ (28) /0/0/0/ (29) /Trip Recovery/ (30) /A/ (31) / Operator Observation /

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

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Virginia Electric and Power Company  
North Anna Power Station, Unit #2  
Docket No. 50-339  
Report No. LER 81-052/03L-0

Attachment: Page 1 of 1

#### Description of Event

On June 19, 1981, with Unit II recovering from a turbine trip-reactor trip caused by a failed main transformer, the nuclear instrumentation channel N-35 was reading low and erratically as neutron flux levels decreased towards the source range levels. This inoperable neutron flux intermediate range is contrary to T.S. 3.3.1.1 and reportable pursuant to T.S. 6.9.1.9.b.

#### Probable Consequences of Occurrence

Since a redundant intermediate range channel was continuously available for flux indication, and two source range channels were available within minutes after the reactor trip, the public health and safety were not affected.

#### Cause of Event

The cause for the intermediate range channel to read low and erratically was due to a failed high voltage power supply. The reason for the power supply failing is unknown.

#### Immediate Corrective Action

The immediate action was to monitor the operable intermediate range channel and to replace the failed power supply as soon as possible.

#### Scheduled Corrective Action

No scheduled corrective action required.

#### Actions Taken to Prevent Recurrence

No further action required.

#### Generic Implications

There are no generic implications to this event.