

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/1/ (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) /0/5/0/0/0/3/3/8/ (7) /0/3/1/7/8/3/ (8) /0/4/1/4/8/3/ (9)
SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

/0/2/ / On March 17, 1983, with Unit 1 at 63 percent power, "A" Steam Generator Steam /
/0/3/ / Flow Channel IV failed low. The redundant channel, "A" Steam Generator Steam /
/0/4/ / Flow Channel III, remained operable. The failed channel was placed in the trip- /
/0/5/ / ped condition as required by the Action Statement of the applicable LCO's, T.S. /
/0/6/ / 3.3.1.1 and T.S. 3.3.2.1. The public health and safety were not affected. This /
/0/7/ / event is reportable pursuant to T.S. 6.9.1.9.b. /
/0/8/ /

| SYSTEM CODE | CAUSE CODE | CAUSE SUBCODE | COMPONENT CODE | COMP. SUBCODE | VALVE SUBCODE |
|-----------------|----------------------------|---------------------|---------------------------------|-------------------------------|------------------------|
| /0/9/ | /I/B/ (11) | /E/ (12) | /E/ (13) | /I/N/S/T/R/U/ | /X/ |
| | LER/RO REPORT NUMBER | EVENT YEAR /8/3/ | SEQUENTIAL REPORT NO. /-/ | OCCURRENCE CODE /0/1/3/ | REPORT TYPE /L/ |
| (17) | | | | | REVISION NO. /-/ |
| | | | | | /0/ |
| ACTION TAKEN | FUTURE ACTION | EFFECT ON PLANT | SHUTDOWN METHOD | ATTACHMENT SUBMITTED | NPRD-4 FORM SUB. |
| /X/ (18) | /Z/ (19) | /Z/ (20) | /Z/ (21) | /0/0/0/0/ (22) | /Y/ (23) |
| (26) | | | | | /N/ (24) |
| | | | | | /N/ (25) |
| | | | | | /W/1/2/0/ |

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

/1/0/ / The cause of the event is unknown. The failed channel was placed in the tripped /
/1/1/ / condition within one hour as required by the Action Statements of the applicable /
/1/2/ / LCO's. The problem cleared during troubleshooting. A channel check was per- /
/1/3/ / formed and the steam flow channel was returned to service. /
/1/4/ /

| FACILITY STATUS | %POWER | OTHER STATUS | METHOD OF DISCOVERY | DISCOVERY DESCRIPTION (32) |
|--------------------|----------|--------------|------------------------|----------------------------|
| /1/5/ | /E/ (28) | /0/6/3/ (29) | / NA / (30) | / / (31) |
| | | | | / Operator Observation / |

| ACTIVITY RELEASED | CONTENT OF RELEASE | AMOUNT OF ACTIVITY (35) | LOCATION OF RELEASE (36) |
|----------------------|-----------------------|-------------------------|--------------------------|
| /1/6/ | /Z/ (33) | /Z/ (34) | / 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 TYPE | DESCRIPTION (43) |
|---------------------------------------|------------------|
| /1/9/ | /Z/ (42) |
| | / NA / |

| PUBLICITY ISSUED | DESCRIPTION (45) | NRC USE ONLY |
|---------------------|------------------|-----------------------------|
| /2/0/ | /N/ (44) | / NA / |
| | | / / / / / / / / / / / / / / |

NAME OF PREPARER E. W. HARRELL PHONE (703) 894-5151

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Virginia Electric and Power Company
North Anna Power Station, Unit No. 1
Docket No. 50-338
Report No. LER 83-013/03L-0

Attachment: Page 1 of 2

Description of Event

On March 17, 1983, with Unit 1 at 63 percent power, "A" Steam Generator Steam Flow Channel IV (FI-1475) failed low. This is contrary to the LCO's of both T.S. 3.3.1.1 and 3.3.2.1 and reportable pursuant to T.S. 6.9.1.9.b.

Probable Consequences of Occurrence

The steam generator steam flow channels provide steam line break and loss of heat sink protection by providing input to safety injection and reactor trip logic. The redundant steam flow channel for "A" steam generator remained operable and the failed steam flow channel was placed in the tripped condition within one hour as required by the Action Statements of the applicable LCO's. The public health and safety were not affected.

Cause of Event

The exact cause of the event is unknown. The channel was placed in trip in accordance with the applicable Abnormal Procedure. Placing the associated bistables in the trip condition removes power from the "A" steam generator channel IV steam flow transmitter. The calibration of the loop power supply card was checked and found to be satisfactory. In order to further troubleshoot the problem, the flow transmitter was repowered by placing the loop master test switch in the "TEST" position. The steam flow indicator returned to normal and a channel check showed that it was within the required tolerance and responding normally. No further investigation of the problem was possible and the channel was returned to service.

It is suspected that this event was caused by either oxidation or dirt accumulation in the relay contacts which are normally closed to supply power to the transmitter. This relay was cycled during the course of troubleshooting and is also cycled on a monthly basis via the channel functional test.

Immediate Corrective Action

The "A" steam generator channel IV steam flow channel was placed in the tripped condition within one hour. After the problem cleared during troubleshooting, a channel check was performed and the channel was returned to service.

Scheduled Corrective Action

No scheduled corrective action is required.

Actions Taken to Prevent Recurrence

No further action is required.

Generic Implications

There are no generic implications associated with this event.