

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

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

/0/2/ / On July 17, 1983, with Unit 2 at 100 percent power, the inverter feeding Vital /
/0/3/ / Bus 2-I failed causing the temporary loss of the Vital Bus and a reactor and /
/0/4/ / turbine trip. The bus was restored from the alternate source within two minutes /
/0/5/ / and the plant was stabilized in Mode 3; therefore, the health and safety of the /
/0/6/ / general public were not affected. This event is within the Action Statement of /
/0/7/ / T.S. 3.8.2.1 and 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/ /E/B/ (11)	/E/ (12)	/A/ (13)	/G/E/N/E/R/A/ (14)	/F/ (15)	/Z/ (16)
LER/RO REPORT NUMBER	EVENT YEAR	SEQUENTIAL REPORT NO.	OCCURRENCE CODE	REPORT TYPE	REVISION NO.

(17) /8/3/ /-/ /0/5/9/ / / /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) /A/ (20) /C/ (21) /0/0/0/8/ (22) /Y/ (23) /Y/ (24) /A/ (25) /S/2/5/0/ (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

/1/0/ / The Vital Bus inverter failed due to spikes induced by faulty silicone controlled/
/1/1/ / rectifiers causing the input fuses to blow. The faulty rectifiers were replaced /
/1/2/ / and new fuses were installed. The inverter will be returned to service after its/
/1/3/ / reliability has been verified. /
/1/4/ /

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

NAME OF PREPARER E. Wayne Harrell PHONE (703) 894-5151

Virginia Electric and Power Company
North Anna Power Station, Unit No. 2
Docket No. 50-339
Attachment to LER 83-059/03L-0

Attachment: Page 1 of 1

Description of Event

On July 17, 1983, with Unit 2 at 100 percent power the inverter feeding Vital Bus 2-1 failed causing the bus to de-energize. The loss of Vital Bus 2-1 resulted in a reactor and turbine trip. The Vital Bus powers the relay that senses the "A" reactor coolant pump breaker position. When power was lost, this relay dropped out simulating a loss of one reactor coolant pump coincident with reactor power greater than 30% causing a reactor trip.

Probable Consequences of Occurrence

The bus was restored from the alternate supply within two minutes and the plant was stabilized in Mode 3. The health and safety of the general public were not affected.

Cause of Event

Vital Bus inverter 2-1 failed internally and caused the 400 ampere input fuses to blow. This de-energized Vital Bus 2-1 causing a reactor and turbine trip.

Immediate Corrective Action

The Vital Bus was energized from the alternate source within two minutes. The silicone controlled rectifiers were replaced. The power transformer will be replaced as soon as parts are available.

Scheduled Corrective Action

The inverter will be returned to service when replacement transformers arrive and after its reliability has been verified.

Action Taken To Prevent Recurrence

No further action was taken.

Generic Implications

There are no generic implications associated with this event.

Vepco

USNRC REGION II
ATLANTA, GEORGIA

83 AUG 23 9:34
VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION
P. O. BOX 402
MINERAL, VIRGINIA 23117

August 12, 1983

Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 2900
Atlanta, Georgia 30303

Serial No. N-83-110
NO/DAH: 11
Docket No. 50-339
License No. NPF-7

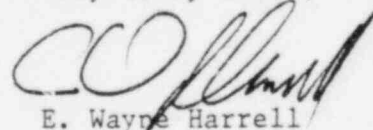
Dear Mr. O'Reilly:

Pursuant to North Anna Power Station Technical Specifications, the Virginia Electric and Power Company hereby submits the following License Event Report applicable to North Anna Unit No. 2.

Report No.	Applicable Technical Specifications
LER 83-059/03L-0	T.S. 6.9.1.9.b

This report has been reviewed by the Station Nuclear Safety and Operating Committee and will be forwarded to Safety Evaluation and Control for their review.

Very Truly Yours,


E. Wayne Harrell
Station Manager

Enclosures (3 copies)

cc: Document Control Desk (1 copy)
016 Phillips Bldg
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

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