

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

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

/0/2/ / On June 6, 1983, with Unit 1 at 100% power Vital Bus 1-1 was momentarily de-ener-/  
/0/3/ / gized while trying to clear an inverter trouble alarm. The temporary power loss /  
/0/4/ / caused a turbine trip and reactor trip. The reactor was stablized in Mode 3 and /  
/0/5/ / all reactor protection equipment functioned normally; therefore, the health and /  
/0/6/ / safety of the general public were not affected. This event is within the LCO for/  
/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)	/A/ (12)	/A/ (13)	/C/K/T/B/R/K/ (14)	/A/ (15)	/Z/ (16)
	LER/RO	EVENT YEAR	SEQUENTIAL REPORT NO.	OCCURRENCE CODE	REPORT TYPE	REVISION NO.

(17) REPORT NUMBER /8/3/ /-/ /0/4/2/ /N/ /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  
/X/ (18) /H/ (19) /A/ (20) /C/ (21) /0/0/1/7/ (22) /Y/ (23) /N/ (24) /A/ (25) /W/1/2/0/ (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

/1/0/ / The Vital Bus was de-energized due to operator error during transfer of the bus /  
/1/1/ / from the inverter to the alternate AC source. The momentary loss of power re- /  
/1/2/ / sulted in a turbine trip and consequently a reactor trip. The Vital Bus was /  
/1/3/ / immediately energized from the alternate AC source. /  
/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 TYPE	DESCRIPTION (43)			
/1/9/	/Z/ (42)	/ NA /		
PUBLICITY ISSUED	DESCRIPTION (45)			
/2/0/	/N/ (44)	/ NA /		

IE22

NAME OF PREPARER E. Wayne Harrell

PHONE (703) 894-5151

Virginia Electric and Power Company  
North Anna Power Station, Unit No. 1  
Docket No. 50-338  
Attachment to LER 83-042/03L-0

Attachment: Page 1 of 1

#### Description of Event

On June 6, 1983, with Unit 1 at 100% power Vital Bus 1-I was momentarily de-energized while attempting to clear an inverter trouble alarm. The trouble alarm was caused by the inverter frequency drifting from the normal frequency. The Vital Bus was being transferred from the inverter to the alternate AC source. The transfer switch has an interlock to prevent transfer of a Vital Bus unless the frequency of the two sources is matched. Since the frequency of the two sources was not matched, the interlock would not allow the transfer unless the alternate AC source was de-energized. The operator de-energized the alternate AC source and transferred the Vital Bus to the dead bus. This resulted in turbine and reactor trips. Many valves powered by the Vital Bus went closed and the annunciator panel was lost momentarily.

#### Probable Consequences of Occurrence

Since the reactor was tripped and in a stable condition, the health and safety of the general public were not affected.

#### Cause of Event

The operator deviated an Operating Procedure in order to de-energize the alternate AC source and transfer the Vital Bus to the dead bus. The operator used a portion of the Abnormal Procedure for Loss of a Vital Bus in the deviation for the Operating Procedure. This Abnormal Procedure is only for the situation when the Vital Bus is already de-energized.

#### Immediate Corrective Action

The Vital Bus was energized from the alternate AC source within a few seconds. As a result of the Vital Bus being lost many containment isolation trip valves closed including the component cooling to the Reactor Coolant Pumps. The cooling water to the Reactor Coolant Pumps was restored immediately.

#### Scheduled Corrective Action

Operations personnel will be trained as to how a problem with the inverter that does not cause a loss of a Vital Bus will be resolved. The Abnormal Procedure will be revised to include guidance with regard to a Vital Bus that has not failed yet.

#### Action Taken To Prevent Recurrence

No further corrective action is required.

#### Generic Implications

There are no generic implications associated with this event.



VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

P. O. BOX 402

MINERAL, VIRGINIA 23117

June 30, 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-83-090  
NO/DAH: 11  
Docket No. 50-338  
License No. NPF-4

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. 1.

Report No.

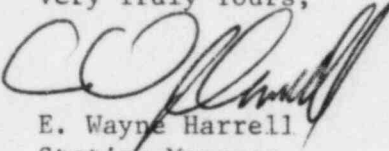
Applicable Technical Specifications

LER 83-042/03L-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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ATLANTA, GEORGIA  
JUL 5 4 11 PM '83