NRC Form 306 (9-83)					ENSEE EVE	NSEE EVENT REPORT (LER)				U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/86				
FACILITY	NAME (1)								DOCKET NUMBER	(2)		PA	GE (3)
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TITLE 14)													
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EVI	ENT DATE	(5)		LER NUMBER	-	REPORT DAT	E (7)			FACILITIES INVO	_			
MONTH	DAY	YEAR	YEAR SEQUENTIAL NUMBER		REVISION MONTH DAY YEAR		YEAR	FACILITY NAMES		MES	DOCKET NUMBERIS			
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OPE	RATING		THIS REPO	RT IS SUBMITTE	D PURSUANT	TO THE REQUIREME	ENTE OF 1	CFR 8: 10	heck one or more	of the following) (1)	1)			
POWER LEVEL 110) 0 8.7		20.402(b) 20.406(a)(1)(ii) 20.406(a)(1)(iii) 20.406(a)(1)(iii) 20.406(a)(1)(iv) 20.406(a)(1)(iv)			20.406(a) 80.36(a)(2) 80.73(a)(2)(i) 80.73(a)(2)(ii) 80.73(a)(2)(iii)		X	X 80.73(a)(2)(iv) 80.73(a)(2)(v) 80.73(a)(2)(vii)(A) 80.73(a)(2)(viii)(B) 80.73(a)(2)(viii)(B)		73.71(b) 73.71(c) OTHER (Specify in Abstract below and in Text, NRC Form 366A)				
NAME						ICENSEE CONTACT	FOR THIS	LER (12)			TEI ERWO	ONE NUM	050	
	JAYNE	HARR	ELL							710 13	819		15 (1	1511
				COMPLETE	ONE LINE FOR	EACH COMPONENT	FAILURE	DESCRIBE	D IN THIS REPO	RT (13)				
CAUSE	SYSTEM	соме	DNENT	MANUFAC- TURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFAC TURER		RTABLE		
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				SUPPLEM	ENTAL REPORT	EXPECTED (14)				EXPECTE	en.	MONTH	DAY	YEAR
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On October 24, 1985, at 0350 hours, a manual reactor trip, turbine trip was initiated on North Anna Unit 1 due to a loss of Reactor Coolant Pump motor cooling water flow and subsequent elevated motor bearing temperatures. The Reactor Coolant Pumps were secured at 0352 hours and the unit stabilized on natural circulation cooling at normal no losd temperature and pressure. Plant parameters remained normal for a natural circulation condition during the event.

At 0352 hours a Notification of Unusual Event was declared due to the plant being in an unusual condition, this decision was at the descretion of the shift supervisor and not required by the emergency plan.

The cause of the loss of RCP cooling water was a fault on Battery room 1-III supply fan motor which subsequently caused bus bar failure on the "lJ" bus motor control center, and closure of cooling water supply trip valves to the RCP's.

This event is reportable pursuant to 10CFR50.73 (a)(2)(iv).

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ABSTRACT (Limit to 1400 apaces, i.e., approximetely fifteen single-spece type

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NRC Form 300 (9-83)

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)	
		YEAR SEQUENTIAL REVISION NUMBER		
NORTH ANNA POWER STATION, UNIT 1	0 5 0 0 0 3 3 8	8 5 - 0 1 9 - 0 0	0 2 OF 0 3	

TEXT (If more space is required, use additional NRC Form 366A's) (17)

On October 24, 1985, at 0350 hours, a manual Reactor Trip, Turbine Trip was initiated on North Anna Unit 1 at 87 percent power, due to a loss of Reactor Coolant Pump (RCP) motor cooling water flow and subsequent elevated motor bearing temperatures. The RCP's were secured at 0352 hours and the unit stabilized on natural circulation cooling at no load temperature and pressure. Plant parameters remained normal during the event for a natural circulation condition.

The loss of RCP motor cooling water resulted from the closure of the Component Cooling (EIIS System Identifier CC) supply valves TV-CC-106A, B, C, upon the loss of Motor Control Center 1J1-1 (EIIS System Identifier ED, Component Identifier MCC), 1-EP-MC-11, due to a fault on the bus. A sequence is listed below which describes events and actions taken prior to and subsequent to the Reactor Trip.

- 0330 hours 480 volt A.C. Motor Control Center I-EP-MC-11 supply breaker 14J-4 from 480 volt bus IJ opens due to a fault on the motor control center. Multiple equipment loss noted from the control room and a report from a security officer of smoke and loud noise in the emergency switchgear room. Operations and electrical personnel investigated and found breaker IJI-1E4, supply breaker to 1-HV-F-57C, faulted and breaker cubicle charred. TV-CC-106A,B, and C closed causing loss of cooling water to the RCP motors. Bearing temperatures were put on computer trend for monitoring.
- 0345 hours Unit rampdown initiated due to inability to restore MCC and cooling water to the RCP motors.
- 0350 hours Reactor and Turbine manually triped due to RCP motors upper radial bearings and thrust bearings exceeding procedural limit of 195F. Peak temperature monitored was 216°F.
- 0352 hours All RCP's secured, natural circulation cooling established, plant stabilized at no load temperatures and pressure. Incore temperatures stable at 560-570F. Emergency Plan Notification of Unusual Event initiated by shift supervisor discretion due to the natural circulation condition and loss of electrical bus.
- 0515 hours Received RM-VG-104, and 106 Vent Stack "A" and Auxiliary building Radiation Monitors Hi-Hi Radiation alarms. The Hi-Hi radiation alarms were caused by purging to the sample sink via letdown sampling lines to lower the Volume Control Tank level. Auxiliary Building exhaust switched to the through Iodine filter position and purging secured.
- 0519 hours Jumper installed to reenergize TV-CC-106A to supply component cocling to "A" RCP. Component cooling flows normal to "A" RCP.
- 0545 hours Auxiliary Building exhaust repositioned to bypass Iodine filters ' 1-AP-5.2 terminated. Hi-Hi alarms clear.
- 0645 hours Started "A" RCP, forced flow cooling re-established. All primary parameters normal. "A" RCP motor bearing temperatures normal.

NAC Form 386A

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)	
		YEAR SEQUENTIAL REVISION NUMBER NUMBER		
NORTH ANNA POWER STATION, UNIT 1	0 5 0 0 0 3 3 8	8 8 5 - 0 11 19 - 0 0	0 3 0 0 3	

TEXT (If more space is required, use additional NRC Form 366A's) (17)

0745 hours - Repair to 1-EP-MC-11, motor control center, complete. Bus bars on column E breakers replaced. Commenced reloading MCC.

0856 hours - All loads from 1-EP-MC-11 returned to normal except 1-HV-F-57C.

0902 hours - Secured from Notification of Unusual Event.

The event was cause by a fault in the 1-III, 125 volt D.C. battery room supply fan motor (EIIS System Identifier VJ, Component Identifier MO), 1-HV-F-57C. The exact cause of failure could not be determined. The MCC bus bars were found degraded at area of lower insulator and the breaker 1JI-1E4 was found tripped. Independent testing of breaker, subsequent to the event, indicated the breaker functioning properly with respect to current and time to trip. Contacts were found burnt and pitted indicating opening under an overload condition. No further corrective actions are planned.

This event is reportable pursuant to 10CFR50.73(a)(2)(iv).

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VIRGINIA ELECTRIC AND POWER COMPANY

P. O. BOX 402

MINERAL, VIRGINIA 23117

U. S. Nuclear Regulatory Commission Document Control Desk 016 Phillips Building Washington, D.C. 20555 Serial No. N-85-033 NO/CLF: kbs Docket No. 50-338

License No. NPF-4

Dear Sirs:

The Virginia Electric and Fower Company hereby submits the following Licensee Event Report applicable to North Anna Unit No. 1.

Report No. LER 85-019-00

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 Marrell Station Manager

Enclosures (3 copies)

cc: Dr. J. Nelson Grace, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 2900
Atlanta, Georgia 30323

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