Vepco VIRGINIA ELECTRIC AND POWER COMPANY NORTH ANNA POWER STATION P. O. 80X 402 MINERAL, VIRGINIA 23117

10 CFR 50.73

October 31, 1991

U. S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, D.C. 20555 Serial No. N-91-029 NAPS:MPW Docket Nos. 50-339 License Nos. NPF-7

Dear Sirs:

The Virginia Electric and Power Company hereby submits the following Licensee Event Report applicable to North Anna Unit 2.

Report No. 50-339/91-010-00

This Report has been reviewed by the Station Nuclear Safety and Operating Committee and will be forwarded to the Corporate Management Safety Review Committee for its review.

ruly Yours,

Statio Man er

Enclosure:

cc: U.S. Nuclear Regulatory Commission 101 Marietta Street, N.W. Suite 2900 Atlanta, Georgia 30323

> Mr. M. S. Lesser NRC Senior Resident Inspector North Anna Power Station

> > 2632.

ESTIMATED BURDON FER RESPONSE TO COMPLY WITH THINFORMATION COLLECTION REQUEST SON HES FORWAY COMMENTS REGARDING BURDON ESTIMATE TO THE RECORD AND REPORTE MANAGEMENT BRANCH PARCE OF MUCLE-

LICENSEE EVENT REPORT (LER)

							CIE MANACES	OF MANAGEMENT AND BUOGET WASHINGTON DC 20803.								
ACILITY (II)							000	KET NUMBER	(2)	-	FAGE	737				
NORTH.	ANNA	PO	KER	STATION	UNIT 2				0	5 0 0	0]	31.31.91	1 OF	014		
	SER A	AIR	EJ	ECTOR ISO	LATION AN	D SUBSEQUE	NT EYP	ASSIN	G OF FLOW	TO THE	RAD	ATION	MONIT	101		
EVENT	DATE (S)			LER NUMBE	PL (6)	NEPORT DATE	(2)		OTHER FAL	LITTES INVO	LVED H					
MONTH DAY YEAR		YEA	in Stovens		SIGNAL DAY YEAR 4			FACILITY NAMES		ODCKET NUMBERIE						
			-	- NO.	The State of the S						0 13	510101	0 1	1.1		
100		L	9	1 0 1 REPORT IS SUBMI	0 0 0	1 0 3 1	9 1 NTS DF 10	CPR \$1 IO	hack one or more of t	he followings 11	de inski	e 10 10 1	01 1			
MODE	(8)	11		20.402(6)		20.406(c)			50.73(a)(2)(H)			23.71(6)				
POWER.				26.405(e)(11)(i)		60.38(4)(1)		X.	50.73(a)(2)(c)			73.75(6)				
(10)	(10) 1 0 0 20 406(a)(15(b))				50 M(c)(2)		50 73(4)(2)(9))			OTHER Guechs in Adulters						
20.606(4):11(:(i))				50.73(a)(2)(i)		80 73(4)(2)(4)(6)			366 A							
		20 406 (4)(1)(iv)			80.73(a)(2)(iii			\$6,7841(210)(10)								
				20.408(a)(1)(v)		50.73(a)(2)(iii)			50.73(a)(2)(x)					-		
						LICENSEE CONTACT	FOR THIS	LER (12)								
NAME												PHONE NUMB	ER.			
										AREA CODE						
G. E. Kane, Station Manager								71013	181	سلفات	[244]	013				
				COMPL	ETE ONE LINE FO	R EF H COMPONEN	T FAILLINE	DESCRIBE	D IN THIS REPORT	(13)	and the same of			COLUMN TO SERVICE		
CAUSE ST	CETEM	COMP	ONEN	MANUFAC TURES	REPORTABLE TO NERD		CHUSE	evetem	COMPONENT	WANDFAC TURKE		C MENDS				
										1.1.1				Designation of the		
-	4-4-		-		CARRYON DANS	A	4					MONTH	DAY	YEAR		
		-	-	SUPP	LEWENTAL HEPOT	RY EXPECTED (14)				5 8 7 5 C		-				
		and the second	E VECT	THE RESERVE TO A	NATE:					DATE		100	1 ::-	1.		

ABSTRACT (Limit to 1400 spaces is approximately filteen single space syspewriter lines (140)

on october 6, 1991, with Unit 2 operating at 100 percent power (Mode 1) inspections were in progress for possible condenser air inleakage sources. At 2000 hours both condenser air ejectors were observed to be aligned with flow to the turbine building atmosphere, bypassing the installed radiation monitor. With the radiation monitor bypassed, the capability for automatic diversion of air ejector flow to containment upon a high-high radiation monitor alarm was defeated. The event was discovered while investigating low background radiation levels on the air ejector radiation monitor. This event is reportable pursuant to 10CFRSO.73 (a) (2) (v) (C), and a four hour report was made pursuant to 10CFRSO.72 (b) (2) (iii) (C).

The cause of the event was failure to provide adequate supervisory controls over a non-routine evolution. The lack of detailed procedural guidance was a contributing factor.

No significant safety consequences resulted from this event because the calculated total gaseous release activity was a small fraction of the allowable effluent limit. Therefore, the health and safety of the public was not affected at any time during this event.

U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED DIME NO DISCOTOR EXPIRES A/30/92

ESTIMATED BURDEN FER RESPONSE TO OCKPLY WIN THIS INFORMATION COLLECTION REQUEST 800 HRS. FORWARD COMMENTS REGARING BURDEN ESTIMATE TO THE RECORDS AND REIGHTS MATIAGEMENT BRANCH IPESOL U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON DE 20556. AND TO THE PUPERWORK REDUCTION PROJECT DISOUDDED OFFICE

FACILITY NAME (1)	DOCF ST NUMBER (2)	LER NUMBER (6)	PAGE (8)		
		VEAR SEQUENTIAL REVISION NUMBER			
NORTH ANNA POWER STATION UNIT 2	0 5 0 0 0 3 3 9	9 11 - 0 11 10 - 0 10	0 12 01 0 14		

TEXT /// more space is required, use additional NAC form 3664 (21) 17)

1.0 Description of the Event

On October 6, 1991, with Unit 2 operating at 100 percent power (Mode 1) inspections were in progress for possible condenser air inleakage sources. At 2000 hours both condenser air ejectors were observed to be aligned with flow to the turbine building atmosphere, bypassing the installed radiation monitor. With the radiation monitor bypassed, the capability for automatic diversion of air ejector flow to containment upon a high-high radiation monitor alarm was defeated. The event was discovered while investigating low background radiation levels on the air ejector radiation monitor. This event is reportable pure and to 10CFR50.73 (a)(2)(v)(C), and a four hour report was made pursuant to 1JCFR50.72 (b) (2) (iii) (C).

Prior to 0800 hours, on 10/08/91, maintenance and contract test personnel requested operations support to perform secondary plant condenser air inleakage inspections. The test crew then proceeded to the air ejectors (BISS System Identifier SH, Component Identifier E(R) and began setting up the test equipment. At 0800 hours the operator met with the test crew to begin the inspections and noted that 2-VP-12 and 2-VP-21 (EISS System Identifier SH, Component Identifier EJR-ISV) were already closed (normally open). The test equipment was connected to the air ejector flow path and the discharge from the test equipment aligned to "ent into the turbine building.

Inspections by the test crew and the operator continued and at one point the operator was assigned to another task. Upon completion of testing, the test equipment was disconnected by contract personnel. The test crew did not notify the Operations Shift Supervisor that testing was completed. At 2000 hours a Shift Technical Advisor, while investigating low background radiation levels on the air ejector radiation monitor (EISS System Identifier SH, Component Identifier MON), discovered that air ejector flow was bypassing the radiation monitor. This alignment resulted in the automatic divert feature, of the air ejector exhaust to containment on a Hi-Hi Radiation Monitor signal, being defeated. Reference the drawing on page 4 of 4 for the as found valve alignment (There are two air ejectors, only one is shown for simplicity). The resultant discharge flow was through a loop seal to the turbine building atmosphere. Precautionary sampling showed that the total radioactive effluent release, whole body, to the turbine building was calculated to be a small fraction of the allowable effluent release limit. A four hour report pursuant to 10CFR50.72 (b)(2)(iii)(C) was made to the NRC at 2204 hours on 10/06/91.

Significant Safety Consequences and Implications

No significant safety consequences resulted from this event because the calculated total gaseous release activity was a fraction of the allowable effluent limit. Therefore, the health and safety of the public was not affected at any time during this event.

APPROVED OMB NO. 3160-0104 EXPIRES 4/30/92

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION PEDUTET SOO MIS FORWARD COMMENTS REQUIRED BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P.530). U.S. NUCLEAR REGULATION COMMISSION WASHINGTON GC 20565 AND TO THE PARENWORK REDUCTION PROJECT (3150 0104). OFFICE OF MANAGEMENT AND BUDGET WASHINGTON DC 20503.

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (S)		
		YEAR SECULENTIAL MEVICION NUMBER			
NORTH ANNA POWER STATION UNIT 2	0 5 0 0 0 3 3 9	9 11 - 0 12 10 - 0 10	0 3 0 0 4		

TEXT IF more space is required, use additional NRC Form 366.6 a. (17)

3.0 Cause of the Event

The cause of the event was failure to provide adequate supervisory controls over a non-routine evolution. The lack of detailed procedural guidance was a contributing factor.

4.0 Immediate Corrective Actions

The air ejector discharge flow path was directed to the radiation monitor and the test connections were isolated. An Abnormal Procedure (AP-SA) was entered due to the unplanned radioactive gaseous release as a precautionary me sur. The Health Physics Department calculated the total release activity to be a small fraction of the effluent release limit.

5.0 Additional Corrective Actions

Operating Procedures 1 & 2-OP-30.6 Secondary Plant Air In-leakage Inspections have been revised to include aligning air ejector discharge to loak detection equipment and subsequent return to normal alignment with flow through the radiation monitor at all times.

Meetings between the Shift Supervisors, the Assistant Shift Supervisors and the Superintendent Operations are being conducted to ensure supervision's role, responsibilities and expectations are known.

Plaques have been installed at each of the air ejectors cautioning that the air ejector flow is to be through the radiation monitor at all times.

Management administered positive discipline to the Operations Supervisor regarding the importance of supervisor guidance in non-routine evolutions.

6.0 Actions to Prevent Recurrence

Corrective actions taken and planned are sufficient to prevent recurrence.

7.0 Similar Events

None.

8.0 Additional Information

Unit 1 was operating at 100 percent power (Mode 1) throughout the event and was not affected.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST SOD HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTE MANAGEMENT BRANCH (F-500) U.F. NUCLEAR I-COULLATORY COMMISSION, WASHINGTON, DC 20156, AND TO THE PERFEWORK REDUCTION PROJECT (21500 TOB). OF FICE OF MANAGEMENT AND BURGET, WASHINGTON, DC 20503.

FACILITY NAME (1)	DOCKET NUMBER (2)							FAGE (3)									
							1541		At QUE	NTIAL		MEVISION NUMBER					
NORTH ANNA POWER STATION UNIT 2	0 5	10.1	0 0	ц3	13.	19	9 13	-	0.11	10	-	2.10	0	16	OF		1 9

TEXT (If more space is required, use additional NRC Form 366A to (\f)

AS FOUND ALIGNMENT ON 10/06/91 - 2000 HRS

