Virginia Electric and Power Company North Anna Power Station P. O. Box 402 Mineral, Virginia 23117

October 7, 1998

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U. S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, D. C. 20555

Serial No.: 98-594 NAPS: MPW Docket No.: 50-338 License No.: NPF-4

Dear Sirs:

Pursuant to 10CFR50.73, Virginia Electric and Power Company hereby submit the following Licensee Event Report applicable to North Anna Unit 1.

Report No. 50-338/98-005-00

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

Very truly yours,

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W. R. Matthews Site Vice President

Commitments contained in this letter: None

Enclosure

cc: U. S. Nuclear Regulatory Commission Region II Atlanta Federal Center 61 Forsyth Street, SW, Suite 23T85 Atlanta, Georgia 30303

> Mr. M. J. Morgan NRC Senior Resident Inspector North Anna Power Station

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(4-9	5)			

U.S. NUCLEAR REGULATORY COMMISSION

## APPROVED BY OMB NO. 3150-0104 **EXPIRES 4/30/98**

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS

## LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

FACILITY NAME (1)

X

## NORTH ANNA POWER STATION, UNIT 1

- 1	MANDALORY INFORMATION COLLECTION REQUEST 50.0 HRS
1	REPORTED LESSONS LEARNED ARE INCORPORATED INTO THE
	LICENSING PROCESS AND FED BACK TO INDUSTRY, FORWARD
1	COMMENTS REGARDING BURDEN ESTIMATE TO THE
1	INFORMATION AND RECORDS MANAGEMENT BRANCH (1-6 F33)
1	U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC
1	20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT
1	(3150-0104), OFFICE OF MANAGEMENT AND BUDGET.
1	WASHINGTON, DC 20503
1	DOCKET NUMBER (2) BACE (2)
- 1	PAGE (3)

1 OF 3

05000338

## TITLE (4) SAFETY VALVE SETPOINTS OUT OF TOLERANCE DUE TO SETPOINT VARIANCE EVENT DATE (5) LER NUMBER (6) REPORT DATE (7) OTHER FACILITIES INVOLVED (8) SEQUENTIAL FACILITY NAME REVISION DOCUMENT NUMBER MONTH DAY YEAR YEAR MONTH DAY YEAR 05000 NUMBER NUMBER 09 21 98 FACILITY NAME 98 005 00 10 07 DOCUMENT NUMBER 98 05000 THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11) OPERATING MODE (9) 20.2201(b) 6 20.2203(a)(2)(v) X 50.73(a)(2)(i) 50.73(a)(2)(viii) POWER 20.2203(a)(1) 20.2203(a)(3)(i) 50.73(a)(2)(ii) 50.73(a)(2)(x) LEVEL (10) 0 20.2203(a)(2)(i) 20.2203(a)(3)(ii) 50.73(a)(2)(iii) 73.71 20.2203(a)(2)(ii) 20.2203(a)(4) 50.73(a)(2)(iv) OTHER 20.2203(a)(2)(iii) 50.36(c)(1) 50.73(a)(2)(v) Specify in Abstract below 50.36(c)(2) 20.2203(a)(2)(iv) 50.73(a)(2)(vii) or in NRC Form 366A LICENSEE CONTACT FOR THIS LER (12) NAME TELEPHONE NUMBER (Include Area Code) W. R. Matthews, Site Vice President (540) 894-2101 COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13) CAUSE SYSTEM COMPONENT MANUFACTURER REPORTABLE CAUSE SYSTEM COMPONENT MANUFACTURER REPORTABLE TO NPRDS TO NPRDS SB RV C710 Y SUPPLEMENTAL REPORT EXPECTED (14) EXPECTED MONTH DAY YEAR YES SUBMISSION NO X DATE (If yes, complete EXPECTED SUBMISSION DATE).

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On September 21, 1998, with Unit 1 in Mode 6, Refueling, the "as found" set pressure for one Main Steam Safety Valve (MSSV) was found to be outside the setpoint tolerance allowed by the Technical Specifications (TS). During subsequent testing the "as found" set pressure for one additional MSSV was found to be outside the setpoint tolerance allowed by the TS. The remaining thirteen MSSVs tested satisfactorily. These failures are reportable pursuant to 10CFR50.73 (a)(2)(i)(B) for a condition prohibited by TS.

The cause of the event is attributed to setpoint variance from what appears to be aging when valves remain in service for extended periods.

This event posed no significant safety implications because the safety valves would have performed their safety function in the event of an overpressure condition. Therefore, the health and safety of the public were not affected at any time during this event.

NRC (4-95)	FORM 366A		U.S.	NUCLEAR REC	GULATORY C	COMM	MISSIO
(4-55)	, LICENSEE EV TEXT C	ENT REPORT (LER)					
	FACILITY NAME (1)	DOCKET		LER NUMBER	(6)	PA	AGE (3)
North	h Anna Power Station Linit 1	05000222	TEAR	NUMBER	REVISION NUMBER		
TI	EXT (If more space is required, use additional copies of NRC Form	1 366A) (17)	98	005	00	2	OF 3
1.	DESCRIPTION OF THE EVENT						
	Technical Specification 3.7.1.1 requires N SB, Component- RV) to be operable with three MSSV banks (A/B/C) were shipped pressure settings. The "A" bank was ider bank valves tested satisfactorily.	Main Steam Safety lift settings as spe for testing of their ntified as the prima	Valves cified in respect ry test g	(MSSV) (E Table 3.7 tive "as fou group. All f	EIIS Syste -2. All nd" lift five "A"	em	
	During testing of the "B" bank on Septem psig which is greater than the required "a minus 3 percent (i.e., 1077 to 1143). The satisfactorily.	ber 21, 1998, MSS s found" lift set pre e other four valves	SV 103E ssure o in the "I	3 actuated of 1110 psig B" bank tes	at 1155 g, plus or sted		
	During testing of the "C" bank on Septem psig which is greater than the required "a minus 3 percent (i.e., 1087 to 1153). The satisfactorily.	ber 22, 1998, MSS s found" lift set pre other four valves	SV 1040 ssure o in the "(	C actuated of 1120 psig C" bank tes	at 1211 g, plus or sted		
2.	SAFETY CONSEQUENCES AND IMPLICATIONS						
	This event posed no significant safety implications because the "as-found" lift setpoints would not have subjected the plant to any overpressure condition more adverse then those previously evaluated in the licensing analysis. Therefore, the health and safety of the public were not affected at any time during this event						
	This event is reportable pursuant to 10CF Technical Specifications.	R50.73(a)(2)(i)(B)	for a co	ondition pro	phibited b	у	
3.	CAUSE OF THE EVENT						
	The cause of the event is attributed to set Maintenance Applications Center (NMAC Maintenance Guide, TR-105872. Lifting a failure mode for safety valves. Typically i a higher pressure is applied, then will actu was the case with the two MSSV failures.	point variance as ) Safety and Reliev at higher than allow n these cases the uate at lower press	defined f Valve vable pr valves o sure on	in the Nuc Testing and ressure is t do not initia subsequer	lear d he leadir ally lift un nt tests, a	ng til is	
4.	IMMEDIATE CORRECTIVE ACTION(S)						
	The two MSSVs that failed were disassen jacking and lapping), re-assembled, and t	nbled, inspected, r ested satisfactory.	epaired	as necess	ary (e.g.		

NRC (4-95)	FORM 366A LICENSEE EV TEXT C	ENT REPORT (LER)	U.S.	NUCLEAR REGI	ULATORY (	COMM	AISSION	
AND	FACILITY NAME (1)	DOCKET	YEAR			PA	GE (3)	
North	h Anna Power Station, Unit 1	05000338	98	005	00	3	OF 3	
5.	ADDITIONAL CORRECTIVE ACTIONS	n 300A) (17)						
	Part of the revised preventive maintenand disassembly, inspection, and testing of all valves were disassembled, inspected, rea	ce activities for the Il five valves in a se assembled, and te	safety elected sted sat	valves invol bank. The ' tisfactory.	ves "A" banł	<		
6.	ACTIONS TO PREVENT RECURRENCE							
	The number of failed safety valves dropp last Unit 1 refueling outage to two this ref maintenance activities implemented follow effective in reducing the number of failed program.	ed from five (i.e., 3 fueling outage. The wing the last refuel valves. We will co	MSSV e revise ling outa ontinue	/ 2 PZR) du ed preventive age appear with our cur	uring the e to be rent	•		
7.	SIMILAR EVENTS							
	Previous events where Unit 1 MSSVs have included in the following LERs: N1-87-00 00, N1-96-001-00, and N1-97-002-00.	ve been outside th 9-00, N1-89-009-0	e requir 0, N1-9	ements of T 1-002-00, N	"S were 11-93-00	)2-		
8.	ADDITIONAL INFORMATION							
	During this period, Unit 2 was operating a this event.	at 100 percent pow	er and	was not affe	ected by			

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