Tom Tynan Vice President Vogtle Southern Nuclear Operating Company, Inc. 7821 River Road Waynesborc, Georgia 30830 Tel 706.826.3151 Fax 706.826 3321

April 16, 2010



Docket Nos.: 50-425

NL-10-0714

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D. C. 20555-0001

Vogtle Electric Generating Plant-Unit 2 Licensee Event Report 2-2010-001 <u>Closure of RHR Injection Valve in Mode 1</u>

Ladies and Gentlemen:

In accordance with the requirements of 10 CFR 50.73(a)(2)(v)(D) and 10 CFR 50.73(a)(2)(vii)(D) Southern Nuclear Operating Company (SNC) is submitting the enclosed Licensee Event Report.

This letter contains no NRC commitments. If you have any questions, please advise.

Respectfully submitted,

7. J. Lyman

T. E. Tynan Vice President - Vogtle

TET/TMH/sdc

Enclosure: Unit 2 Licensee Event Report 2-2010-001

cc: <u>Southern Nuclear Operating Company</u> Mr. J. T. Gasser, Executive Vice President Mr. T. E. Tynan, Vice President – Vogtle Ms. P. M. Marino, Vice President – Engineering U. S. Nuclear Regulatory Commission Log: Page 2

RType: CVC7000

<u>U. S. Nuclear Regulatory Commission</u> Mr. L. A. Reyes, Regional Administrator Mr. R. E. Martin, NRR Project Manager – Vogtle Mr. M. Cain, Senior Resident Inspector – Vogtle Mr. P. Boyle, NRC Project Manager Enclosure Vogtle Electric Generating Plant-Unit 2 Licensee Event Report 2-2010-001 Closure of RHR Injection Valve in Mode 1

NRC FOR	IM 366			U.S. NUCLE	AR RE	GULATOR	TY COMMIS	SSION		VED BY OMB:					08/31/2010
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1. FACILITY NAME Vogtle Electric Generating Plant – Unit 2							2. DOC	CKET NUMBE		3. F	PAGE 1	OF_4			
4. TITLE				n Valve in											
	VENT D			ER NUMBER			EPORT D	ATE			OTHER F.	ACILI	ITIES INVO		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO.	MONTH	DAY	YEAR	1					DOCKET N 0500	00
02	18	2010		001	00	04	16	2010	0	LITY NAME				DOCKET N 0500	00
9. OPER	ATING	MODE	11.	THIS REPO	RTIS	SUBMITTE	ED PURSL	UANT T	OTHE	REQUIREME	ENTS OF	10 CF	R§: (Cheo	ck all that a	ipply)
10. POW	1 VER LEV 100	/EL	20.22 20.23 20.23 20.24 20.25 20.23 20.24 20.25 20.25 20.25 20.25 20.25 20.25 20.25 20.25 20.25 20.25	201 (b) 203(a)(1) 203(a)(2)(i) 203(a)(2)(ii) 203(a)(2)(iii) 203(a)(2)(iv) 203(a)(2)(v) 203(a)(2)(v) 203(a)(2)(vi)			20.2203(a)(20.2203(a)(20.2203(a)(50.36(c)(1)(50.36(c)(2)(50.36(c)(2)(50.46(a)(3)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(2)(50.73(a)(50.7	(3)(ii) (4))(i)(A))(ii)(A)))(ii))(ii))(i)(A))(i)(B)		□ 50.73(a) □ 50.73(a) □ 50.73(a) □ 50.73(a) ⊠ 50.73(a)	(2)(ii)(A) (2)(ii)(B) (2)(ii) (2)(iv)(A) (2)(v)(A) (2)(v)(B) (2)(v)(C)		□ 50.7 □ 50.7 □ 50.7 □ 73.7 □ 73.7 □ 0TH Spec	'3(a)(2)(vii) '3(a)(2)(viii) '3(a)(2)(viii) '3(a)(2)(ix)('3(a)(2)(ix)('3(a)(2)(x) '1(a)(2)(x) '1(a)(4) '1(a)(5) 1ER cify in Abstra <u>NRC Form 5</u>)(A))(B) (A) act below
					1	2. LICENS	SEE CONT	TACT F	OR THI	SLER	,				
FACILITY N Voatle		ric Gen	erating	g Plant/Ma	rk Hi	ickox. P	rincipal	Licen	isina I	Engineer	1		HONE NUMBE		ea Code)
													/		
			REPOR	RTABLE EPIX		CAUSE SYSTEM				MANU- FACTUREF		ORTABLE D EPIX			
	ES (If ve			EMENTAL R				X		SUB	XPECTED MISSION DATE		MONTH	DAY	YEAR
				i.e., approxim											<u> </u>
	On F opera valve mom in Ma the R The of funda Tech to pe	Vebruary ability of e (MOV) e (MOV) ode 1 res Ode 1 res CHR pun cause of amental anical Sp erform th	18, 201 f the Tra) that is stroked anders be np(s) ca this even knowle becification test w	10 while re rain B shutce colates Resid d closed two ooth trains of annot be as rent was du edge of the tion Limiti was inadequ	viewi down idual vice w of RH ssured te to c Emen ng Co uate s	ing a par panel tra Heat Ren vith the u IR inoper d, and rec cognitive rgency C ondition since at th	rtially con ansfer fu emoval (F unit in Me erable sin quires en e error by Core Coo of Opera he time t	omplete unction RHR) fode 1, nce the ntry int y Oper- bling S ations the val	ed surv n, it wa flow to on Jan requisito Tech rations System (LCO) Ive was	veillance p as discover to loops 3 a nuary 5, 20 red emerge hnical Spec departmer configurat p) requirement as stroked, i it at power.	red that t and 4 col 010. Stru- ency con- cification nt persor- tion need ents. Al- it did no	the m ld leg roking re coco on LC nnel a eded t lso, th	notor ope gs had be g this val oling flow CO 3.0.3. applying to satisfy the proce	erated een lve close w from	d

		SEE EVENT REF	-	ER) 0.5. NO	LEAR REG	ULAIOR		331UN
	1. FACILITY NAME	2. DOCKET		. LER NUMBER				
/oatle Electric	c Generating Plant-Unit 2	05000425	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	2	OF	4
09.00 2.000			2010	- 001 -	0			
ARRATIVE (II n	REQUIREMENT FOR REPO The VEGP Emergency Core charging (high head), safety i Each of the three subsystems and redundant such that eithe mitigate the accident consequ be Operable in Modes 1-3. T such that each RHR pump m MOVs installed on the discha MOV isolates RHR injection injection flow to loops 3 and was closed, the low head acc pump could not be assured. 10CFR50.73(a)(2)(v)(D), "A safety function of structures a accident."	ORT Cooling System (EQ injection (intermedia s consist of two 100 j er train is capable of uences. Technical S The design of the res ust be capable of inj arge of the RHR pur flow to loops 1 and 4 cold legs. During eident required ECCS Therefore this condition or systems that are me 'Any event where a s me inoperable in a si	CCS) consider ate head), a percent cap supplying pecification idual heat n pecting into mps that can l 2 cold legs the time the S flow to the ition is report on that coul needed to m	sts of three su and residual he pacity trains th 100 percent of n 3.5.2 require removal (RHF all four cold I n isolate flow s while the oth he RHR to col he four cold le portable under t d have preven hitigate the con	bsystems: tat removal at are inter f the requires two train s two train s) subsyste egs. There to the cold her MOV is d legs 3 an gs from eit he following ted the ful hsequences causedt	l (low h reconnect red flow is of EC m at VI are two l legs. 0 solates id 4 MC her RH ing secti fillment s of an	lead). ted v to CCS to EGP is o One RHR OV R sons of	
B.	consequences of an accident. UNIT STATUS AT TIME C							
	At the time of the event on Ja thermal power. There was no	anuary 5, 2010 Unit o other inoperable e	2 was oper quipment t	rating in Mode	e 1 at 100 g d to this ev	percent ent.	rated	
C.	DESCRIPTION OF EVENT							
	Technical Specification surverse shutdown panel control circu months. At VEGP, there are procedure contains all of the procedure contains all of the	uit and transfer switc two procedures that	t implements on the A	the intended t this surveilla train shutdow	function evance requir on panel an	very 18 ement. d anoth	One	

NRC FORM 366A 9-2007)	CONT	EVENT REF	SHEET	,	LEAR REGI			
	1. FACILITY NAME	2. DOCKET		6. LER NUMBER			3. PAGE	
		05000425	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	3	OF	4
voglie Electric	Generating Plant-Unit 2	05000425	2010	- 001 -	0]	•.	•
ARRATIVE (If me	ore space is required, use additional copie	s of NRC Form 366	A)					
	To ensure all components on a gimaintain a "master" copy of each procedure as individual components signed off as completed and sent. On February 18, 2010 in preparate operator was reviewing the A trais components could be tested. Durinevised on January 11, 2010 to accept the sent of the sent	ven shutdown p procedure in th nts are tested. Of to Document C tion for an upco in remote shutd ring the review dd a caution to p alve while at po and that it had a RHR pump disc evisions were a event that had al Once the oper n February 18, 2 roked closed on grevised to caut the valve stroke the control room vas stroked from th. ation on the pla ximately 30 sec n, an operator w to cognitive err mergency Core g Condition of C	anel are te e control r Dnce all co ontrol for r ming syste own panel it was notio preclude str wer. Subs lso been re harge to lo s a result o most occu ator review 2010, it wa January 5, ion the use on this cor stroked fro s sequence . To ensur n open to c most occu	retention. em outage on R test procedure ced that the pro- roking the RHI sequently, the op- evised on Janua oops 3 and 4 co of a Condition F rred on Unit 1 wed the master is determined th , 2010. The test er that the valve mponent require the valve con- close and then b er determined the g each stroke. ously available	te the "ma tested, the area tested, the area tested, the area tested, the area tested, the area tested, the area tested area tested area tested area tested at the area area tested at the she that the val area tested at the val however, area to open the area tested area	A, the ine whi d been scharge vieweo 0 to ac ation v. was ir en cau e B tra R to lo formed t be stru- trol be tion and try was open p ve was during he valv	lure is ich e to l the B ld a alve hitiated ght in oop 3 six oked d then panel, s position a not in g the e had plying satisfy it did	

NRC FORM 366A (9-2007)		SEE EVENT REPONDENTINUATION		ER) 0.5. NOC	LEAR REGI				
	1. FACILITY NAME	2. DOCKET		6. LER NUMBER			3. PAGE		
Vogtle Electric	Generating Plant-Unit 2	05000425	YEAR	SEQUENTIAL NUMBER		4	OF	4	
C C	-		2010	- 001 -	0				
NARRATIVE (If m	ore space is required, use additional o	copies of NRC Form 366	A)						
E.	ANALYSIS OF EVENT								
	This event represents a loss of valve was closed, emergency pumps could not be assured. the short duration involved, the release frequency (LERF) we required an ECCS actuation of there was no adverse affect of	core cooling accide However, based on he increase in both ere found to be negli during the time the	ent require a risk asso core dama gible. Ad valve was	d flowrate from essment of the ge frequency (O ditionally, then closed. Based	the low h valve bein CDF) and l e were no on these co	ead RH g close arge ea events	HR d for arly which		
F.	CORRECTIVE ACTIONS								
1.	A new procedure was develo RHR cold leg injection MOV that the procedure cannot be	s. This procedure	contains th	e necessary can					
2.	The individuals involved wit relationships between surveil applicability of Technical Sp	llance procedures, T							
G.	ADDITIONAL INFORMAT	ION							
	1. Failed Components:								
	None								
	2. Previous Similar Event:								
	Licensee Event Report 1 stroked with the unit at p the operations departmer part of the "Lessons Lea These corrective actions	ower. The correction of personnel, conduction rned" segment during	ve actions ting a shif ig licensed	from that even t briefing and c l operator re-qu	t included covering th alification	counse is even trainin	ling 1t as 1g.		

event since they were one time actions that did not address the fundamental operator knowledge gap on the configuration requirements for the emergency core cooling system to ensure compliance with the Technical Specifications and accident analysis assumptions and further did not institutionalize the knowledge into plant procedures.

3. Energy Industry Identification System Codes: Residual Heat Removal Low Pressure Injection System-BP