Entergy Operations, Inc.

January 28, 1991

Operations

Entergy

10

W. T. Cottle

U.S. Nuclear Regulatory Commission Mail Station P1-137 Washington, D.C. 20555

Attention: Document Control Desk

Grand Gulf Nuclear Station SUBJECT: Unit 1 Docket No. 50-416 License No. NPF-29 Reactor Water Cleanup System Containment Isolation On High Differential LER 90-027-01

GNRO-91/00014

Gentlemen:

Attached is Licensee Event Report (LER) 90-027-01 which is a final report.

Yours truly,

COS COMMENT

1 FROD271/SCMPFLR 102040188 910128 DR ADOCK 05000416

FDR

PDR

01

WTC/JS/cg attachment cc: Mr. D. C. Hintz (w/a) :00 Mr. R. B. McGehee (w/a) Mr. N. S. Reynolds (w/a) Mr. H. L. Thomas (w/o) Mr. J. L. Mathis (w/a)

> Mr. Stewart D. Ebneter (w/a) Regional Administrator U.S. Nuclear Regulatory Commission Region II 101 Marietta St., N.W., Suite 2900 Atlanta, Georgia 30323

Mr. L. L. Kintner, Project Manager (w/a) Office of Nuclear Reactor Regulation U.S. Nuclear Regulatory Commission Mail Stop 11D21 Washington, D.C. 20555

LIGENSEE EVENT REPORT (LER)						U.S. NUCLEAR REQULATORY COMMISSION APPROVED OMB NO 3150-0104 EXPIRES 8/31/06				
FACILITY NAME (1)				-	antegris interactor					
Grand Gulf Nu	clear Stati	on					151010	Terre and the	1 OF 0.13	
TITLE (A)		a a desire test di a qui i tan da	er filmen af in wear in in staardin oor	e el construir	and all of a balance ind	the branches of a standard and	and a surface surface and	hanna ha an ha da da da da	1641615	
Reactor Water	Cleanup Sy	stem Con	tainment]	solat	ion (Dn High Di	fferenti	al Flow	1	
EVENT DATE (8) LER NUMBER (8) REPORT DATE (7) DTHER FAC MONTH DAT VEAR VEAR SECUENTIAL HEVBOR MONTH DAY VEAR FACILITY NAMES						S ILITIES INVOI	the New York, and the second strength of the second strength of the second strength of the second strength of the			
	and the second second second second	CONTRACTOR OF THE				NA		0 151010		
1		-	6a 1.4.1		and the state of	er en andel biblione en rene		erosentlerore konstaak aan oo	ereste soulassak en	
	IS REPORT IS BURNITT		011 2181	9 11 1				0 5 0 0	0111	
MODE (8) 2	20.402(6)		20.408(a)	10 00 10	Y X	theck one or more of 60.73(a)(2)(iv)	the tollowing) (1	73.71(b)		
POWER	20.406(a)(1)))	a constant	60.38(ei(1)		and the	50.73(a1(21(v)		73.71(e)		
1101 01210	20.406(a)(1)(ii)	L. Property	50.36(e)(2)		ar man	60.73(a)(2)(vii)			Text NRC Form	
	20.406(a111)(iii) 20.406(a111)(iii)	-	50,73(a1(2)(i) 60,73(a1(2)(i)			60.73(s1(2)(viii)(A		366.A.)		
	20.406(a)(1)(v)	(Concession)	60.73in1(2)(iii)			80.73(a)(2)(v(ii))@) 60.73(a)(2)(v)				
NAME	The second	1	CENBEE CONTACT	FOR THIS	LER (12)			And all the reasons of the second second	Administration of the second structures	
TAME							AREA CODE	TELEPHONE NUMB	£ D.	
Jewel Summer	s / Sr. Com	pliance	Coordinate	r				4 13 1 71-	2.1.10	
A second s			EACH COMPONENT		DESCRIBE	D IN THIS REPORT	(63)	M 12 1 / 1 -	<u> 11 4 9</u>	
CAUSE SYSTEM COMPONE	NT NANUFAC TURER	REPORTABLE TO NPRDS		CAUSE	EYSTEM	COMPONENT	MANUFAC TURER	REPORTABLE TO NPROS		
	1 1 1 1					-1-1-1-1-	- 1- 1- F		***********	
	1.1.1.1.1	1.0.1								
an on a start and a start of the	SUPPLEN	ENTAL REPORT	EXPECTED (14)	*****	hindra	here describes a describ	area da antida	MÖNTH	DAY YEAR	
		White is the second second second second	No. Antonio and a state of the				EXPECT SUBMISSI DATE			
Y55 //f per complete EXPE ABSTRACT /Limit to 1400 speces			X NO					n .		
system (containm flow, Contrary operator to react procedur reactor .solatio Further contribu Superint counsell	investigati uting factor endents and led.	CE) from on of th uirement rom pre- reachin ng the s These ac ons reve in this i the rea	the pre-p e RWCU sys s of the pump mode g 100 psin econd RWC tions cau caled that incident actor oper	integr to po g. TI J pum sed f an i . Th ator	node f occurr rated ost-p p pri low p nadeq e res invol	to the pos red due to Operating ump mode o erator al or to read erturbation uate pre- ponsible ved in th	t-pump f b high d of opera so viola ching ad ons whic shift br Shift is incid	node, a ifferentia tions printed the equate h caused iefing wa	al), or the	
	ere no adven J system was								1	

Attachment to GNR0-91/00014

NRC Form 3055A (9-63)	LICENSEE EVENT RE	PORT (LER) TEXT CONTINU	U.S. NUCLEAR REGULATORY COMMISSION APPHOVED DMB NO. 3150-0104 EXPIRES 8/31/86				
FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER	and the low sector was a sector w	PAGE (3)		
Grand Gulf Nuclear Station		0 15 10 10 10 14 11 6	910 - 0121	7 011 012	2 OF 0 1		
TEXT (# more space & required	uae additional KRC Form 3054/s/(17)						
Α.	Reportable Occurre	nce					
	(RWCU) system from differential flow the RWCU system co	90, during transfer of t the pre-pump mode to th isolation occurred. The ntainment isolation valu Feature (ESF) actuation v).	ne post-pump m automatic is ves is reporte	ode, a high olation of	1		
Β.	Initial Condition						
	The plant was in M psig.	ode 2, Startup, with a r	reactor pressu	ire of 40			
С.	Description of Occ	urrence					
	Operators began sh Code: CE) from th reactor pressure;	r 24, 1990, the plant wa ifting the Reactor Water e pre-pump mode to the p however, the Integrated fting RWCU operation fro 00 psig.	r Cleanup Syst post-pump mode Operating Ins	em (CIIS at 25 psig truction			
	mode, operators al before sufficient also was contrary Erratic RWCU diffe "B" being placed i flow by using bypa operators tripped valve, all flow wa flow. The delta f containment isolat and Control (I&C)	early shift from pre-pu so started the second (i reactor pressure was est to the instructions cont rential flow indications n service. The operator ss valve G33-F044. In a the "B" pump. Upon clos s secured to the "A" pum low timer timed out and ion valves automatically personnel were subsequent t transmitters. The RWG	i.e., "B") RWC tablished. The tained in the s occurred upons attempted to an effort to r sure of the G3 mp which tripp the RWCU syst y closed. Ins htly notified	U pump is action IOI. on RWCU pump o adjust reduce flow, 3-F044 bed on low em trumentation to fill and			
D.	Apparent Cause						
	This incident occu	rred due to licensed per	rsonnel error.	The RWCU			

system is susceptible to perturbations at reactor pressures less than 100 psig when both pumps are operating, thereby causing the system to isolate on high delta flow.

LER90271/SCMPFLR

NFC Form 306.4 (9-53)	LICENSEE EVENT RE	PORT (LER) TEXT C	ONTINU	OITA	N		U.B	6,87	EAR REI ROVED C	MB NO		
FACILITY NAME (1)		DOCKEY NUMBER (2)		LER NUMBER (6)					PAGE (3)			
				VEAR		NUM	TAL FSR		NUMBER		T	
Grand Gulf Nu	clear Station	0 5 0 0 0	411 6	9 10	-	0 12	21 7		0 11	013	OF	0 13

Attachment to GNR0-91/00014

As a result of several RWCU isolations experienced in the past and efforts to make personnel aware of these operating conditions, plant procedures were changed to provide adequate margin in the pump suction pressure to prevent system isolations (Reference: LER 88-004, dated February 11, 1988.) All licensed operations personnel were instructed on the significance of these changes and the potential for RWCU system isolations. The reactor operator involved in this incident failed to follow plant procedures by placing the second RWCU pump in post-pump operation at a reactor pressure less than 200 psig.

Further investigations revealed that an inadequate pre-shift briefing, i.e., discussions on required hold points by the responsible shift superintendent, was a contributing factor.

E. Supplemental Corrective Actions

The reactor operator involved is this incident was counselled and disciplinary actions were taken. Additionally, the responsible Shift Superintendents were counselled on the importance of conducting proper pre-shift briefings.

F. Safety Assessment

There were no adverse safety consequences as a result of this incident. Containment isolation valves responded as designed. Further, no actual unidentified RWCU leakage was present.