11/01/2011

Power Reactor

Event#

47395

Site: SEABROOK

Notification Date / Time: 11/01/2011

09:38 (EDT)

Unit: 1

Region: 1 State: NH

Event Date / Time: 10/31/2011 Last Modification: 11/01/2011 18:00 (EDT)

Reactor Type: [1] W-4-LP

Containment Type: DRY AMB

NRC Notified by: MICHAEL O'KEEFE

Notifications: NEIL PERRY

R1DO

HQ Ops Officer: PETE SNYDER

Emergency Class: NON EMERGENCY

10 CFR Section:

21.21

UNSPECIFIED PARAGRAPH

Jnit	Scram Code	RX Crit	Init Power	Initial RX Mode	Curr Power	Current RX Mode
1	N	Yes	100	Power Operation	100	Power Operation

GENERAL ELECTRIC CR-120B RELAYS SUPPLIED BY NATIONAL TECHNICAL SYSTEMS FAIL BENCH TEST

"On October 31, 2011, NextEra Energy Seabrook, LLC completed a 10 CFR 21 evaluation of a condition associated with General Electric (GE)-CR-120B relays supplied by National Technical Systems, Inc. and intended for use at Seabrook. Six (6) Quality Level 1 GE-CR-120B relays failed bench testing. During bench testing, the subject relays failed to reset when de-energized. An evaluation was performed to determine the applications where these relays could have been and were installed and to determine if the failure of the subject relays could result in a Substantial Safety Hazard as defined in 10 CFR 21.3. The evaluation concluded that there is one safety significant application relative to the failure of the GE-CR-120B relays to reset in the Seabrook Diesel Air Handling System (DAH).

"Each DAH system train (includes one supply fan and one exhaust fan per train) has one relay that provides a start permissive for the ventilation fans. An analysis of the failure of a GE-CR-120B relay in the DAH system determined that, if the relays were installed, the condition could create a substantial safety hazard due to a subsequent loss of the emergency power function. Therefore, this report is being submitted pursuant to the requirements of 10 CFR 21.21(d)(3)(i). A written notification will be made to the NRC within 30 days pursuant to 10 CFR 21.21(d)(3)(ii).

"No actual safety consequences resulted from this condition because the GE-CR-120B relays were not installed in the plant in this safety significant application."

The licensee notified the NRC Resident Inspector.

IE19R

PAGE 1 OF 2

NRC FORM 361 (12-2000)				B	EACTO	R PLAN	IT		U.S. NUCL		REGULATORY O RATIONS CENTE		ION
			EVE				ORKSHE	ET_	E	N #			
NRC OPERATION TELEF (2nd) 301-415-0550 and [3	HONE NUMB	ER: PR	IMARY:	301-816-51	00 or 800-5	32-3469*, BA *Licensees	CKUPS - [1st who maintain t] 30 heir	-951-0550 c	<u>, y y y</u>	ROBO LIBOU LOIOPIT	oue unuipe	ers.
	ACILITY OR OR		ÓN	LIN	т	NAME OF CAL				10	ALL BACK #		
৩৭30 ১০০০ Seabrook Station				1		Michael (l O'Keefe				603-773-7745		5
EVENT TIME & ZONE	POWE	MODE BEFO	RE				VERMODE AFT	ER					
1800 10/31) 1		100% / 1					100% / 1						
	1.1	1-Hr. Non-Emergency 10 CFR 50.72(b)(1)					(v)(A) Safe S/D Capability AINA						
EVENT CLASSIFICATIONS GENERAL EMERGENCY GENERAL				TS Deviation				-	(v)(B) RHR Copability				ANB
	SITE AREA EMERGENCY SIT/AAEC			4-Hr. Non-Emergency 10 CFR 50.72(b					(v)(C) Con	trol of f	Rad Relosso		AINC
ALERT				(i) TS Required S/D				(v)(D) Accident Mitigation					AIND
	UNUSUAL EVENT UNLEASEC			(IV)(A) ECCS Diacharge to RCS			ACCS	(xii) Offsite Medicul			dicul		AMED
50.72 NON-EMERGENCY (see nood columns)			ns) (h				ARPS				m/Asmt/Rosp		ACOM
PHYSICAL SECURITY (73.71) DODD				(xi) Offsite Notification APR				60-Day Optional 10 CFR 50.73(
MATERIAL/EXPOSURE 8777				8-Hr. Non-Emergency 10 CFR 50.72(b)(3)					Invalid Specified System Actuation				
FITNESS FOR DUTY				(II)(A) Degraded Condition AD							ed Requireme		
OTHER UNSPECIFIED REC	OTHER UNSPECIFIED REQMT. (see last column)				(II)(B) Unanalyzed Condition			\	10 CF	<u>P-</u>	21.2/6/	31(2)	NONR
INFORMATION ONLY		. ,	VINF (it	v)(A) Spec	ifled System A	Actuation RIPTION	AESF				,, 		NONR
Include: Systems affected, ac On October 31, 201 Electric (GE) CR-12 GE CR-120B relays performed to detern subject relays could significant application Each DAH system to ventilation fans. An condition could creat being submitted pursuant to 10 CFR No actual safety could significant application	1, NextEra file 208 relays substantial facility in a Son relative to train (include a analysis of ate a substantsuant to the 221.21(d)(3)	Energy upplied h testin lication Substar the fail s one s the fail htial saf require (ii).	Seabrool by Nation g. During s where t atial Safet lure of the supply far ure of a G fety haza ements of	k, LLC cornal Technic bench te hese relay y Hazard e GE-CR and one SE-CR 120 rd due to a fill CFR 2	npleted a cal Syster sting, the stould he as defined 120B relay exhaust fa DB relay in a subseque 21.21(d)(3	10 CFR 21 ns, Inc. and subject rele ave been a I in 10 CFR is to reset i an per train the DAH is ent loss of)(i). A writt	evaluation of intended for ays failed to and were instant at 21.3. The earth the Seabro has one relevante emergence in notification	of a crus rese allect allect ay t mine cy p n w	condition a e at Seabn t when de- d and to de uation cont Diesel Air I hat provide ed that, if the power functill be made	ssociook. energitermi duded fandi es a s e rel tion. to th	Six (6) Quality gized. An evaluate in the failure of that there is cling System (D/start permissive ays were instal Therefore, this is NRC within 3	Level 1 Jation wa of the one safety AH). for the led, the report is 80-days	у
The Senior Resider	YES	NO	will a		NG UNUSU DERSTOO		YES (E	xpłai .	n above)	Z	NO		
STATE(s)				ALL SYSTEMS NCTION AS REQUIRED?		YES				NO (Explain above)			
LOCAL COLLABORATION		<u> </u>	<u> </u>	FUNCTI	UN AS REC	ZUIRED?							
OTHER GOV AGENCIES		 			OPERATION	N/A	ESTIMATED	. AL	Δ	r	TIONAL INFO ON BAC		1
MEDIA/PRESS RELEAS	-	✓		UNTIL CO	RRECTED:	19/7	RESTART DATE	. 19/	~		YES 🗸	NO	