NRC Form (9-83)	386				LIC	ENSEE EVE	NT RE	PORT	(LER)	U.S. N	UCLEA APPRO EXPIRI	AR REQULATO	0RY COM	MISSION 04
FACILITY		1)								DOCKET NUMBER	R (2)		PA	GE (3)
	Cata	wba Nu	clea	ar Statio	n, Unit	1				0 15 10 10	10	141113	1 OF	014
TITLE (4)														
	Unit	1 Ver	it Sa	ampling P	ump Powe	er Loss		_						
EVE	NT DATE	15)		SEQUENTIAL	(6) REVISION	REPORT DATE	(7)		EACILITY NA	FACILITIES INVO	LVED	KET NUMBER	(8)	
RIVINIA	DAY	TEAM	TEAM	NUMBER	NUMBER	MONTH DAT	TEAN				0	51010	101	2.1
		6 - E	1.1								-			
1 0	1 8	848	4	0116	- olo	1 1 1 1 6	8 4				0	51010	101	1.1.
OPE	RATING	T	HIS 82	PORT IS SUBMITTI	ED PURSUANT 1	O THE REQUIREME	NTS OF 1	CFR §: (	Check ane or more	of the following) (1	11)		<u> </u>	1
MO	DE (9)	5	20.	402(b)		20.405(e)			50.73(a)(2)(iv)			73.71(b)		
POWER	10	0.0-	20.4	406(s)(1)(i)		50.36(c)(1)			50.73(a)(2)(v)			73.71(c)		
(10)	10	010	20.4	405(a)(1)(#)		50.38(e)(2)			50.73(a)(2)(vii)			OTHER (Spe	city in Ab	C Form
		- F	20.4	405(s)(1)(iii)	X	50.73(a)(2)(i)		-	50.73(a)(2)(viii)(	A)		368A)		
		H	20.0	405(a)(1)(iv)	-	50.73(a){2)(ii)		-	60.73(a)(2)(viii)(	8)				1.1
			20.1	wwb(a)(1)(v)		00.73(a)(2)(iii)		158 (13)	50.73(a)(2)(x)		-			
NAME						CONTACT I	UN THIS	CER (12)		T	TELE	PHONE NUMB	ER	
1.1										AREA CODE	T			
	Roge	r W. O	lueli	lette, As	sistant	Engineer -	Lice	ensing	3	71014	31	7131-	7 15	1310
				COMPLETE	ONE LINE FOR	EACH COMPONENT	FAILURE	DESCRIBE	D IN THIS REPOR	AT (13)				
CAUSE	SYSTEM	COMPON	ENT	MANUFAC. TURER	REPORTABLE TO NPROS		CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	RET	PORTABLE O NPROS		
	1	11	1	111					111					
			.											
				SUPPI EAA	INTAL BENORT	EXECTED IN	1				_			
YES	111 488. 00	mpiete EXP	ECTED	SUBMISSION DATI						EXPECT SUBMISSI DATE II	ED ION 5)	MONTH	DAY	YEAR
ABSTRAC	T (Limit t	o 1400 xpace	¥; /.#., #\$	oproximetely fifteen	single-spece type	written linesi (16)								
	On Oc power is re Requir Monit requir There The U that break an el from	tober was equire iremen tors ( ired t efore, Unit 1 suppl ter tr ectri the i	18, four d to t 4. EMF- o ru thi Ven ies ippe cal ncid	, 1984, a nd to be o run con 11.2.1.2 35, 36, 3 in continu s inciden t Samplin power to ed due to outlet wh lent, the	t 0946 h interrup tinuous1 . Since 37) were uous1y p nt cause ng Pump the pump the pum overcur nich was circuit	ours while ted to the y per Tech the Unit inoperabl er the Act d the viol was de-ene p's electr rent cause powered f breaker w	Unit Unit Unit Unit Unit Unit Unit Unit	t 1 wa t 1 Ve I Spec nt Par the t Staten n of t ed bec outle plugg that c eclose	as in Mod ent Sampl cificatio rticulate time, the nent of T two Tech cause the et had tr jing anot circuit b ed.	e 5 (Cold ing Pump. n Surveil , Gas, an pump was ech Spec Spec sect circuit ipped. T her compo reaker.	I Sh Ian Id I al 3.3 :ion bre he onen To	utdown he pump odine so 1.3.11. is. eaker circuit it into recover	), t	
	This inade Specs outle This	event quate to r et was incid	is ana un c pow ent	classifie lysis of ontinuous ered from is report	ed as a process sly, it n a more table pu	Design Def variables should hav reliable rsuant to	icier . Si e ens sourc	incy, d ince t sured te. R 50.	due to th the pump that the 73 Secti	e apparen is requir pump's e on (a) (2	ed lec	by Tech trical i).	1	
			3411 DR	280461 ADOCK 0	841116 500041 PD	3							1ª	N

LICENSEE EVENT	REPORT	(LER)	TEXT	CONTINUATION
----------------	--------	-------	------	--------------

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OM8 NO. 3150-0104

FACILITY NAME (1)				DOCKET NUMBER (2)						LER NUMBER (6)							PAGE (3)							
						1								YE.	LP .		SEQU	NRER	AL Z	RE	VISION		T	
(	Catawba	Nuclear	Station,	Unit	1	0	5	10	10	10	14	1 11	3	81	4		01	11	61-	_0	110	01	2 05	10
EXT I'll mone	space is required	l, use edditionel Ni	RC Form 366.4's) (17)			-	-	-	-	-	<u> </u>	1-1	-	M	-	_	01	*	v I	10	10	1012	. 101	10
T a u	The Unit a 115 V/ used to	t 1 Vent AC, 5.4 A continuo	Sampling AMP motor	Pump . It	is is	ma po	de wei t	by rec		Gas fro	t M m a	lanu 12	ifa 20	VAC	iri C c	ing but	Co let	mpi	any Th	e 1	It	has b is		

analysis program specified in Table 4.11-2 of Tech Spec Surveillance Requirement 4.11.2.1.2. Since the Unit 1 Vent Particulate, Gas, and Iodine Monitors (1EMF-35, 36, 37) were inoperable due to Nuclear Station Modification NSM-10087, the pump was also needed per the Action Statement of Tech Spec 3.3.3.11. Action 50 of this Tech Spec states "With the number of channels operable less than required by minimum channels operable requirement, effluent releases via the affected pathway may continue for up to 30 days provided samples are continuously collected with auxiliary sampling equipment as required in Table 4.11-2".

On October 18, 1984, at 0946 hours, the pump was found de-energized. Immediately after discovering that the pump was not operating, a drop cord was run from the pump to another electrical outlet. However, this outlet had no power available to it. At 1005 hours, the pump's power cord was returned to its original electrical outlet. The pump then began to operate.

At the time of the incident, it was not known how the power to the pump was interrupted. It was discovered that workers had vacuumed the area the morning of October 18, 1984. The circuit breaker (LA22-30) supplying power to the electrical outlet that their vacuum cleaner and the Unit 1 Vent Sampling Pump were plugged into are powered from the same circuit breaker. Since the pump motor operates at a current of 5.4 amps, and the vacuum cleaner motor operates at 15 amps, simultaneous operation of the two resulted in the 20 amp circuit breaker tripping due to overcurrent. A third outlet powered from breaker 1LA22-30 is the outlet that the drop cord was connected to immediately after the pump was found not operating. With the circuit breaker tripped, no power was available to that outlet at the time. The other outlets that are powered from circuit breaker 1LA22-30 were examined and covered. A sign was placed over each of the outlets prohibiting their use.

The Unit 2 Vent Sampling Pump and the Conventional Waste Water Treatment (WC) Compositor Pump were identified as having the potential for becoming de-energized inadvertently. Therefore, the other electrical outlets fed from the same circuit breaker as the Unit 2 Vent Sample Pump's electical outlet were covered, and a sign was placed over each of the outlets prohibiting their use.

This incident is classified as Design Deficiency, due to the inadequate analysis of process variables. To prevent this incident from reoccurring, the Unit 1 Vent Sampling Pump, the Unit 2 Vent Sampling Pump, and the WC Compositor Pump will each have independent outlets installed that are connected to a battery backed power source. Until this is implemented, warning tags will be placed on circuit breakers feeding the pumps' electrical outlets. These warning tags on the circuit breakers and the warning signs and coverings over the outlets should prevent the pumps from becoming de-energized inadvertently in the mean time.

Other electrical outlets supplied by circuit breaker 1LA22-30 were covered to prevent use. A sign was posted over them stating that the outlets should not be utilized.

NRC Form 366A

LICENSEE	EVENT	REPORT	(LER)	TEXT	CONTINUATION
----------	-------	--------	-------	------	--------------

U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO 3150-0104

NAME (1)		DOCKET NUMBER (2)	EXPINES 8/31/8	
			YEAR SEQUENTIAL REVISION	PAGE (3)
Catalan N	Chapters Halts	0 15 10 10 10 10 10 10		10 050
ore space is required, use additional N	Station, Unit 1 RC Form 3664 3/ (17)	10 10 10 10 14 11 3	18 14 1-101 11 61-0 1010	13 010
Other plugs in p	pumps which needed	i a more reliable p	ower source were identi	fied.
Other electrical Vent Sampling Pu stating that the	l outlets supplied ump were covered t e outlets should r	t by the same circu to prevent use. A s not be utilized.	it breaker as the Unit sign was posted over th	2 em
A Station Proble Unit 1 Vent Samp Pump electrical powered from 120 will be availabl	em Report (SPR) wi bling Pump, the Un outlets placed on DVAC Auxiliary Con le.	11 be originated to it 2 Vent Sampling individual breaker trol Power System s	b have power for the Pump, and the WC Compo rs. They should be since a battery backup	sitor
Temporary warnin placed on the fo WC Compositor Pu	ng tags stating "C Dilowing breakers ump will not lose	ontact HP before de in order that the L power inadvertently	e-energizing" will be Unit Vent Pumps and the /.	
1LA22-#30 1LA22-#35 1MXK-F02C 1MXK-F03A 1MXK-F05A 1LXE-5A 1LXF-5B WCP1-23/25 SMXY-F03E SMXY-F03A 2SLXD-4D 1SLXA-4D SMXY-F05A	(Unit 1 Vent Sam (Unit 2 Vent Sam (Feeder to Panel (Normal Incoming (Alternate Incom (IMXK Normal Sup (IMXK Alternate (WL Compositor P (Feeder to Panel (Alternate Incom (SMXY Alternate (SMXY Normal Sup (Normal Incoming)	pling Pump) Board 1LA22) Feeder Breaker fro ing Feeder Breaker ply) Supply) ump) Board WCP1) ing Feeder Breaker Supply) ply) Feeder Breaker fro en the SPR is recol	from 1LXE) from 1LXF) from 2SLXD) m 1SLXA)	
inese cays sho	utu be removed wh	en the SPR 15 resol	ved.	
VERIFICATION The immediate co to perform its f from being plugg circuit breaker action identifie Health Physics p	rrective action v unction. The sub ed into electrica as the Unit 1 Ven d and tempo arily umps being used f	erified that the pu sequent action prev l outlets that are t Sampling Pump. A corrected similar or Tech Spec Survei	mp was operating again ented other components powered from the same lso, the subsequent problems with other llance requirements.	
SAFETY ANALYSIS				
Although the Uni of time, analysi Specification, G incident reveale Surveillance Req initial critical	t 1 Vent Sampling s of the Unit Ven aseous Waste Samp d that samples we uirement 4.11.2.1 ity, no significa	Pump was de-energi t per Procedure HP/ ling and Analysis) re within specifica .2. Since Unit 1 h nt amounts of radia	zed for a short period 0/B/1001/12 (Technical prior to and after the tions of Tech Spec ad not yet achieved tion could have been	

released through the Unit Vent.

NRC Form 366A

NRC Form 366A (9-83)	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION													U.S. NUCLEAR REGULATORY COMMIS APPROVED OMB NO 3150-0104 EXPIRES 8/31/85							
FACILITY NAME (1)						DOCKET NUMBER (2)					T		LE	A NU	NBER (	A (6)			PAGE (3)		
											78	AR		SEQU	ENTIAL		REVISION NUMBER				
Catawba Nuc	lear Station	, Unit :	1	0	5	0	0	0	4   1	13	8	4	_	01	1 6	-	010	01	4	OF	0  4

Therefore, the health and safety of the public were unaffected by this incident.

## DUKE POWER COMPANY P.O. BOX 33189 CHARLOTTE, N.C. 28242

HAL B. TUCKER vice president nuclear production

November 16, 1984

TELEPHONE (704) 373-4531

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

Subject: Catawba Nuclear Station, Unit 1 Docket No. 50-413

Gentlemen:

Pursuant to 10 CFR 50.73 Section (a) (1) and (d), attached is Licensee Event Report 413/84-16 concerning loss of power to the Unit 1 vent sampling pump. This event was considered to be of no significance with respect to the health and safety of the public.

Very truly yours,

H.B. Tuchn 1 150

Hal B. Tucker

RWO:s1b

Attachment

cc: Mr. James P. O'Reilly, Regional Administrator U. S. Nuclear Regulatory Commission Region II 101 Marietta Street, NW, Suite 2900 Atlanta, Georgia 30323

INPO Records Center Suite 1500 1100 Circle 75 Parkway Atlanta, Georgia 30339

NRC Resident Inspector Catawba Nuclear Station

American Nuclear Insurers c/o Dottie Sherman, ANI Library The Exchange, Suite 245 270 Farmington Avenue Farmington, CT 06032

Palmetto Alliance 2135½ Devine Street Columbia, South Carolina 29205 Document Control Desk November 16, 1984 Page Two

cc: Robert Guild, Esq. P. O. Box 12097 Charleston, South Carolina 29412

> Mr. Jesse L. Riley Carolina Environmental Study Group 854 Henley Place Charlotte, North Carolina 28207

Mr. James L. Kelley, Chairman Atomic Safety and Licensing Board Panel U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Dr. Paul W. Purdom 235 Columbia Drive Decatur, Georgia 30030

Dr. Richard F. Foster P. O. Box 4263 Sunriver, Oregon 97702