NRC Form 386 19-831 LICENSEE EVENT REPORT (LER)											U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85													
			-	-		_											Tooc	VET N	UMBEI	2 (2)			PA	GE (3)
FACILITY	Y NAME (1			h =	Nuc	10		C+a	tion	Ilni	+ 1						1			-	14	11 13	1 OF	T
TITLE (4)	,	dlo	1W	Da	Nuc	100	I	Sta	tion.	, Uni	L 1						T.		-1-	1	17	1101	. 1-	10 1 3
		Tmp	na	ne	» Br	וחמו	2	amn	lina	as F) o a u	ined	by t	ha One	avat	ina	Lic	one	0					
eve	ENT DATE		Y	05	00		NUMB			9 1		RT DAT		TE VI	- Lat				S INV	OLVED	(8)			
MONTH DAY YEAR			R	YEAR SEQUENTIAL NUMBER				REVISION MONTH DAY			YEAR	YEAR FACILITY N			AMES DOG			OCKET NUMBER(S)						
TO THE			1												1					0	15	0 0	0	11
			-		-								. [
0 8	26	8	4	8	4	10	0	6		00	91	0 5	8 4							0	15	0 10	01	LL
	ERATING			THIS	REPOR	AT &	SUBM	TTEC	PURSUA	NT TO TH	HE REO	UIREME	NTE OF 10	CFR 8: 10	Check on	e or mo	re of th	e follo	wing) (11)				
POWER LEVEL (10) 0 10 10						20,406(c) 80,36(c)(1) 50,36(c)(2)			50.73(a)(2)(v) 50.73(a)(2)(v)			_	4	· *(b)										
													-	4	.71(c)									
									-	50.73(a)(2)(vii)				X	J bei	HER (Special law and in	Text, NR	C Form						
			20.406(a)(1)(Hi) 20.406(a)(1)(Iv)				50.73(a)(2)(i)			-	50.73(a)(2)(viii)(A) 50.73(a)(2)(viii)(S)			1	36	6A)								
			1			THE PLANE	1000				0.73(a)(2			-	-									
					20,406	5(a)(1)	(v)				0.73(a){2		FOR THIS	150 (10)	80.73	(a){2}(x)				_			_	
NAME							-	-		Licen	AREE CO	INTACT	FUR THIS	LEM (12)						TEL	ЕРНО	NE NUMB	ER	
																		AREA	CODE	T				
P.	cger J	ul.	Ou	01	lett	-0	Δς	sis	tant	Engi	nee	r -	licen	sina				7 0	14	3	1 7	131-1	715	13 10
01	- GEI	4	24		1561								FAILURE		D IN T	IS REP	ORT (-	10	-		-11-	1-1-
						MAN	UFAC		REPORTA	ABLE								MAN	JFAC-	R	EPOR	TABLE		
CAUSE	SYSTEM	CO	MPO	NEN	'		RER		TO NPR	DS			CAUSE	SYSTEM	COM	PONENT		TUE	RER			PRDS		
								1																
		1					1									11								
						1										11	_							
							SUPPL	EME	NTAL REP	PORT EXP	ECTED	(14)					_		EXPEC			MONTH	DAY	YEAR
7.0	S (If yes, co			250	TEO 81	- AMIC	rion i	CATE			-	NO							DATE					
	CT /Limit to									- Dunawait	X						_			-				
To L	o sat icens o be i	isf e N mon	y PF it	1i -2	cens	se bor	con on rly	dit cor wh	tion ncent nile	eleve ratio	en (i on o	11) f th 3,	e Rea 4, an	ctor d 5.	Cool On	ant Augu	(No	6,	iyst 198	em	is bo	requ ron s	ired ampl	es

(ND) System. Sampling from the non-operational train of ND did not provide a representative sample of boron concentration of the reactor coolant. The Primary Sampling System was being used to obtain samples from the ND System.

The cause of the incident is classified as a Personnel Error. The Technician performing the sampling did not inform Operations prior to changing the primary sampling valve lineup, as re ired by Operating Procedures OP/O/A/6200/11, Operating Procedure for the Primary Sampling System. Unit 1 was in Mode 5 following initial fuel load at the time of the incident.

Immediate corrective action was realignment of the sampling valves by the Technician in order to obtain a sample of ND Train A. This report is being filed pursuant to paragraph 2.F of Facility Operating License NPF-24.

> 8409190399 840905 PDR ADOCK 05000413

		364	

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104 EXPIRES 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)	PAGE (3)		
		YEAR SEQUENTIAL REVISION NUMBER NUMBER			
Catawba Nuclear Station, Unit 1	0 5 0 0 0 4 1 3	8 4 -0 0 6 -0 0 0 2 OF0	3		

The Catawba Facility Operating License NPF-24, paragraph 2.C.11 requires that the boron concentration of the Reactor Coolant (NC) System be maintained at 2000 ppm or greater so that criticality may not be achieved even with all control rods fully withdrawn. This concentration is required while in Modes 3, 4, and 5.

Operations procedure PT/1/A/4150/25, Boron Concentration Verification, states that boron concentration will be sampled and recorded hourly. The concentration is normally monitored from the Control Room by a computer analog point, a chart recorder, or the digital readout on the Boronmeter, which provides input for all of these monitoring devices. Calibration of the Boronmeter had not been verified at the time of this incident and therefore was not operable for the hourly samples. Because of this, Chemistry was required per procedure PT/1/A/4850/25 to manually pull and analyze samples.

Chemistry Procedure OP/O/A/6200/11 describes operation of the Primary Sampling (NM) System. The NM System provides the capability to manually draw samples from locations both inside and outside containment. This procedure states that sample valves located outside of the NM lab require Operations notification prior to use. Sampling lineup for the Residual Heat Removal (ND) System requires that one valve outside of the NM lab be operated. Thus Operations must be notified prior to a lineup change for ND sampling.

The operational train of the ND System was being sampled because NC system pressure was not great enough to allow for proper operation of the NM equipment associated with the NC System. With the ND System recirculating through the reactor vessel. a representative sample of NC could be obtained through ND sample taps with adequate system pressure provided by the ND pump.

The Operations Procedure was being followed while manual sampling of reactor coolant was in progress. During the 1600-2400 shift of August 5, 1984, ND Train A was operational as required for Mode 5 and being sampled hourly by Chemistry Technician A. Analysis data was satisfactory. Technician B took shift turnover at 2400 hours on August 6, 1984. During this shift turnover, Technician B was told that ND Train A was operational but that he might want to check with Operations to determine if ND Train B was being placed in service. Prior to the 2400 hour sampling, Technician B informed Operations that he was going to open the Train A sample valves. While performing the 2400 hour sampling of ND Train A, sample flow was lost after approximately 30 seconds. Technician B therefore assumed that ND Train B must have been placed in service previously and closed the ND Train A sample valves. He then aligned and opened the ND Train B sample valves but did not inform Operations prior to doing so. He was able to obtain adequate sample flow and continued sampling non-operating ND Train B throughout his shift (2400-0800). Analysis data was telephoned to Operations hourly and recorded by Operations as ND Train A, while in reality being Train B samples.

Chemistry shift turnover took place at 0800 on August 6, 1984. Sampling of ND Train B continued hourly throughout this shift (0800-1600) by several Technicians. Analysis data was telephoned to Operations during this shift and recorded by Operations as ND Train A samples.

			34	

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104

FACILITY NAME (1)	DOCKET NUMBER (2)	15r. NUMBER (6) PAGE (3)	PAGE (3)		
		YEAR SEQUENTIAL REVISION NUMBER			
Catawba Nuclear Station, Unit 1	0 15 10 10 10 14 11 13	3 814 - 01016 - 010013 OF 0	13		

TEXT (If more space is required, use additional NRC Form 366A's) (17)

Technician A took shift turnover at 1600 on August 6, 1984, and sampled ND Train B during the first hour of shift. Shortly thereafter, Operations called Technician A and requested that a sample be taken from ND Train B prior to it being placed in service. Technician A checked the entire valve lineup for sampling and discovered that ND Train B had been sampled for the previous 14 hours although it was not in service. Valves were realigned to sample ND Train A. This sample analysis of ND Train A was satisfactory. ND Train B was then placed in service and Train A removed from service by Operations. The samples taken from the non-operational train of ND did not present a representative sample of reactor coolant.

This incident did not cause any release of radioactive material, radioactive exposure, or personnel injury. It is considered to be an isolated case. This incident is reportable pursuant to Facility Operating License NPF-24, Paragraph 2.F.

CORRECTIVE ACTION

A sample was taken of the operational Train A of ND upon realization that the non-operational Train had been sampled for 2 shifts.

Chemistry Technicians received instructions to check with operations at the start of each shift to determine sampling requirements.

Appropriate disciplinary action has been taken with the person directly responsible.

Obtaining a satisfactory sample of boron concentration verified that the immediate corrective action was appropriate.

The adequacy of the instructions given to Chemistry Technicians will be verified by the absence of similar future occurances.

SAFETY ANALYSIS

Prior to the change of trains in sampling, sample data of the operational train had been within required tolerances. The sample collected from the operational train as the immediate corrective action was also within the required tolerances. During this period no boration or dilution activities were in progress. Therefore, it is apparent that no significant deviation in boron concentration of reactor coolant occurred during the improperly sampled period.

The health and safety of the public were not affected by this incident.

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

RAL B. TUCKER
VICE PRESIDENT
NEGLEAR PRODUCTION

September 5, 1934

TELEPHONE (704) 373-4531

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

Subject: Catawba Nuclear Station, Unit 1

Docket Nos. 50-413

Gentlemen:

Pursuant to Operating License NPF-24, paragraph 2.F and 10 CFR 50.73 Sections (a) (1) and (d), attached is Licensee Event Report 413/84-06 concerning improper boron sampling as required by the Operating License. This event was considered to be of no significance with respect to the health and safety of the public.

Very truly yours,

Hal B. Tucker by WAN

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

Records Center Institute of Nuclear Power Operations 1100 Circle 75 Parkway, Suite 1500 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

IE22

Document Control Desk September 5, 1984 Page Two

cc: Palmetto Alliance 2135½ Devine Street Columbia, South Carolina 29205

> Mr. Robert Guild, Esq. Attorney-at-Law P. O. Box 12097 Charleston, South Carolina 29412

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