		-	L									
NRC Form 366 (9.83)		LIC	ENSEE	EVEN	TRE	PORT	(I.ER)	U.S. NU	APPROVED OM EXPIRES 8/31/8	TORY COMM 8 NO 3150-0 8	AISSION 104	
FACILITY NAME (1)		the same of the same of the same of						DOCKET NUMBER	(2)	PAG	JE (3)	
Sequoyah, Unit 2						0 5 0 0 0 3 2 8 1 OF 0						
Accumulators Was	uirement	Used To med Wit	Verif	fy Bor	on C	oncen ble T	tration I	n The Col	d Leg			
EVENT DATE (5)	LER NUMBER	6)	REPO	ORT DATE	(7)	020 2	OTHER	FACILITIES INVO	LVED (8)			
MONTH DAY YEAR YEAR	INTH DAY YEAR YEAR SEQUENTIAL REVISION MONTH DAY YEAR PACILITY NAM					MES	DOCKET NUMBER(S)					
						Segu	oyah, Uni	t 1	0 15 10 1	0 0 3	1217	
03068888	- 0 1 1	01	0 5	10	8 8				0 15 10 1	0 1 0 1	11	
OPERATING THIS REP	ORT IS SUBMITTE	D PURSUANT 1	TO THE RE	QUIREMEN	TS OF 10	CFR \$ 10	Check one or more	of the following! (1	1)			
MODE (9) 3 20.	MODE (9) 3 20.402(b) 20.405((c) 50.73(a)(2/(v)								
POWER 20.	405(a)(1)(()		\$0.38(c)(0.36(c)(1)					73.71(c)			
(10) 0 0 0 20.	405(a)(1)(iii)		50.36(c)(2)		-	50.73(a)(2)(vii)		Specify in Ab. in Text, NRI	ctract C Form		
20	405(a)(1)(iii)	XX	50.73(#)0	50.73(a)(2)(/)			50.73(a)(2)(viii))	(A)	366A/			
20	405 (#1(11(x))		80.73(#)()	2//(#)			50.73(a)(2)(viii)	(#)				
ev.	400 (8)(1)(Y)		ICENSEE C	ONTACT E	OR THIS	1.58 (12)	00/73(#/127(K)					
NAME				S. I. A.S. I.	CH ITTLE				TELEPHONE NU	MBER		
12 10 10 10 10								AREA CODE				
K. E. Meade, Plant	Operatio	ons Revi	ew Sta	aff				6 1 5	81710	-1612	1510	
	COMPLETE	ONE LINE FOR	EACH CON	MPONENT A	AILURE	GESCRIBE	D IN THIS REPOR	RT (13)				
CAUSE SYSTEM COMPONENT	MANUFAC TURER	REPORTABLE TO NPROS			CAUSE	SYSTEM	COMPONENT	MANUFAC. TURER	REPORTABLE TO NPRDS			
	1.1.1							1.1.1				
TILL	1.1.1		L			1		111	1,	Ļ		
	SUPPLEME	ENTAL REPORT	EXPECTED	0 (14)		-		EXPECT	ED MONT	H DAY	YEAR	
YES (II ver. complete EXPECTED	SUBMISSION DATE	Ð		NO.				DATE I	61	1 .		
ABSTRACT (Limit to 1400 speces, i.e. a	oproximetely fifteen	single spece type	ewcitten line	u) (16)						-		
This LER is bein 2030 EST on Marc cold leg accumul Surveillance Rec boron concentrat solution volume volume. Reactor leg accumulator periodically. A RCS inventory. to the RCS leak not notified to was not performe accumulators are forced in the co the RCS boron co accumulator woul The missed SR di causes of this e not consider the and the applicat boron concentrat this event, Syst a boron concentrat operations. Als detailing this s	ing revised in 6, 1988 lator 3 was luirement ion of the increase coolant 3 at 400 after drain The Operative was a fill verify the d in accord on the operative on the operation sample tem Operative ation sample tem operative tem operative te	to upd b, with as decla (SR) 4. he cold of grea system psig; t ining th ations s ling op he boron ordance i to ens e event ion was ve cause ve an ad e been d cage int tion pro le for s ting Ins nple to ining le atter.	ate th unit 1 red in 5.1.1. leg ac ter th (RCS) herefore accu hift co eration conce with t ure a of a 1 above d a di verse etermi o the cedure uch ar tructi be pul tter h	he cau he cau l in m hopera .1.b. ccumul han or inven ore, t umulat crews on. H entrat crews on. H entrat crews on. H entrat crews on. H entrat crews on. H entrat crews on. H entrat crews on. (S lled a has be S	se a ode ble Thi ator equ tory he a or, did lence ion cal nof ton o be ulat t. OI) fter is BO5 DR	nd con S and due to s SR with al to at 1 ccumu the a not co the in co special the the the the that or co aler In or 63.1, both ssued 20007 ADOC	rrective unit 2 i o the fai requires in six ho one perc 600 psig lator had ccumulato onsider t Radioche ld leg ac fication ume of bo k. At th s, the in accumulat safety of the Oper nstituted t the ope der to pr "ECCS," filling to Opera 71 88051 CK 050000	action se n mode 3, lure to p verificat ours after ent of th was leaki i to be dr or was ref hat the i mistry la cumulator (TS). Th rated wat the time of leakage i or below the plan ations sh a fillin rator to event rec was revis and drain tions per 0	ctions. the uni erform ion of t each e tank's ng into ained illing w ncrease boratory 3, the e cold 1 er will this ev nto the TS limit t. The ift crew g operat request urrence ed to re ing sonnel	At t 2 he cold ith due was SR eg be ent, s. s did ion a of guire		

. . .

NRU Form 3884 19-831 I.ICENSEE EV	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION					
FACILITY NAME (1)	DOCKET NUMBER (2)		LER NUMBER (6)	PAGE (3)		
요즘 물건이 많은 감사.		YEAR	SEQUENTIAL REVISION	N R		
Sequoyah, Unit 2	0 5 0 0 3 2 8	8 8	- 0 1 1 1 - 0 1	020003		

TEXT (# more space is required, use additional NRC Form 3064's) (17)

DESCRIPTION OF EVENT

At 2030 EST on March 6, 1988, with unit 1 in mode 5 (0 percent power, 6 psig, 125 degrees F) and unit 2 in mode 3 (0 percent power, 1600 psig, 450 degrees F), the unit 2 cold leg accumulator 3 was declared inoperable due to the failure to perform Surveillance Requirement (SR) 4.5.1.1.1.b. This SR requires verification of the boron concentration of the cold leg accumulator within six hours after each solution volume increase of greater than or equal to one percent of the tank's volume. Reactor coolant system (RCS) inventory at 1600 psig was leaking into cold leg accumulator 3 at 400 psig; therefore, the accumulator had to be drained periodically. After draining the accumulator, the accumulator was refilling with RCS inventory. The Operations shift crews did not consider that the increase due to the RCS leak was a filling operation. Hence, the Radiochemistry laboratory was not notified to verify the boron concentration in cold leg accumulator 3, the SR was not performed in accordance with technical specification (TS).

Upon realizing the missed SR, the cold leg accumulator 3 was declared inoperable, and the Radiochemistry Laboratory was immediately notified to verify the boron concentration in the accumulator. At 2149 EST, the Radiochemistry Laboratory notified the shift supervisor (SS) that the boron concentration was 2085 ppm, which is within TS limits. The accumulator was then declared operable.

This event affected unit 2 only. Unit 1 could have been affected as the systems are identical on both units.

CAUSE OF EVENT

The cause of this event has been determined to be that the Operations shift crews did not consider that the RCS leakage into the accumulator constituted a filling operation. Operations personnel were draining the tank and allowing the RCS inleakage to refill the tank. No one considered the fact that RCS inleakage into the accumulator constituted a refilling operation. Thus, a boron concentration sample was not obtained as required by TSs.

ANALYSIS OF EVENT

This event is being reported under the requirements of 10 CFP 50.73, paragraph a.2.i, as an operation prohibited by TS.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

EXPIRES: 8/31/98

FACILITY NAME (1)	DOCKET NUMBER (2)	T	LER NUMBER (6)					PAGE (3)		
		YEAR	1	SEQUENTIAL NUMBER		REVISION NUMBER		Π		
Sequoyah, Unit 2	0 5 0 0 3 2 8	8 8 8	-	0 11 1	-	0 1	03	OF	0 3	
TEXT // more space is required use additional NSC form \$64.4 (117)		1010		101414	-	IO II	1010		<u>N</u>	

The cold leg accumulators are required to be operable in modes 1, 2, and 3 (mode 3 above 1000 psig pressurizer pressure) with a boron concentration between 1900 ppm and 2100 ppm. SR 4.5.1.1.1.b requires a verification of boron concentration within six hours after each solution volume increase of greater than or equal to one percent of tank volume to ensure the concentration is between 1900 ppm and 2100 ppm. The cold leg accumulators are designed to ensure a sufficient volume of borated water will be forced in the core in the event of a large line break. At the time of this event, the RCS boron concentration was above 2000 ppm. Thus, the inleakage into the accumulator would not have caused a dilution of the accumulator below TS limits. The missed SR did not have an adverse affect on the safety of the plant.

If a loss of coolant accident (LOCA) had occurred while the plant was in a higher mode of operation and this condition existed, there is the potential to have diluted the cold leg accumulator below TS limits.

CORRECTIVE ACTION

NRC Form 366.4

Once it was discovered the SR had not been performed as required, the accumulator was declared inoperable and the Radiochemistry Laboratory was immediately notified to verify the boron concentration in the accumulator.

In order to prevent recurrence of this event, SOI-63.1 was revised to require a boron concentration sample to be pulled after draining occurs. This will prevent refilling of the accumulator without obtaining the corresponding boron concentration, thus complying with TSs. A training letter has been issued to Operations personnel detailing the subject matter of this report. This will ensure the operators are aware inleakage into a tank or accumulator constitutes a refilling operation so the appropriate action can be initiated. Also, SI-2, "Shift Log," contains a note which will alert Operations personnel to notify the Radiochemistry Laboratory to perform a boron concentration analysis should cold leg accumulator volume increase one percent, as required by TSs.

ADDITIONAL INFORMATION

There have been 7 LERs since January 1, 1987, on missed performances of SR's -SQR0-50-327/87008, 87023, 87038, 87059, 87068, and 328/88008.

COMMITMENTS

None.

0912Q

TENNESSEE VALLEY AUTHORITY Sequoyah Nuclear Plant Post Office Box 2000 Soddy-Daisy, Tennessee 37379

May 10, 1988

U. S. Nuclear Regulatory Commission Document Control Dest Washington, DC 20555

Gentlemen:

TENNESSEE VALLEY AUTHORITY - SEQUOYAH NUCLEAR PLANT UNIT 2 - DOCKET NO. 50-328 - FACILITY OPERATING LICENSE DPR-79 - REPORTABLE OCCURRENCE REPORT SQR0-50-328/88011 REVISION 1

The enclosed licensee event report is being revised to update the cause and corrective action sections. This report provides details concerning a surveillance requirement used to verify boron concentration in the cold leg accumulators which was not performed within the applicable timeframes. This event was originally reported in accordance with 10 CFR 50.73, paragraph a.2.i, on April 1, 1988.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

S. J. Smith

Plant Manager

Enclosure cc (Enclosure):

> J. Nelson Grace, Regional Administrator U. S. Nuclear Regulatory Commission Suite 2900 101 Marietta Street, NW Atlanta, Georgia 30323

Records Center Institute of Nuclear Power Operations Suite 1500 1100 Circle 75 Parkway Atlanta, Georgia 30339

NRC Inspector, Sequoyah Nuclear Plant

IE22

. 8