

Commonwealth Edison Braidwood Nuclear Power Station Route #1, Box 84 Braceville, Illinois 60407 Telephone 815/458-2801

> March 24, 1992 BW/92-0175

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

Dear Sir:

# Subject: Licensee Event Report 92-003-00

The enclosed Licensee Event Report from Braidwood Generating Station is being transmitted to you in accordance with requirement of 100FR60.75(A)(2)(i)(B) which requires a 30-day written report.

This report is number 02-003-00, Docket No. 50-456.

K. L. Ketron

Station Manager Braidwood Nuclear Station

KLK/AS/dla 531/2085G

Encl: Licensee Event Report No. 92-003-00

 NRC Region III Administrator NRC Resident Inspector INPO Record Center CECo Distribution List

GEOZ.

		- 200 - 10 T			LICENSE	E CVENT	REPORT	(LER)			Form Rev 2.0
Facility	y Name	(1)		de l'acceletara di de acceletara					Docket Nu	mber (2)	Page (3)
Braidwood 1						01 01 8	1 5 6 1 of 0				
Drainwe	0 <u>00 :</u>	-			and a second second second				and the second of the	er (f. chor official course	a de carda da esta de la carde en esta de la carda de la competitiva de la carda de la competitiva de la compe
incre (-	1										
Person	nel Eri	ror cal	USES in	prerability of Safe	y inject	on Accum	Wiald.	(7)	Other: I	Carillini	(R) havious (R)
Event	Date	21	Veri	LEK NUMBER 101	Paulalon	Maath	Day	Vear	Farility !	Campe 1	Docket Number(s)
Munth	Uay	rear	tear	Number ///	Number					- # C/ N. #	AXAURY INC. AND INC.
100									None		0 5 0 0 0 0 1
013	01 9	91.2	91.2	0 0 3	010	613	21.4	31 2	an alaannamana ameri		0 5 0 0 0 0 1
AATEA	T TAK			THIS REPORT IS SUD!	ITTED PUR	SUANT TO	) THE R	LOUIREN	MENTS OF 10C	8	
OFERA	CLNG C (G)			ICheck one or more	of the fo	(indiwoil)	(11)		and the second sec		
	. 191	an incorrect	1	20.402(6)	20	.405(c)		50	1.73(a)(2)(')	()	73.71(b)
PAWES	1			20.405(a)(1)(i)		1,36(c)(1	3	50	1.73(a)(Z)/v	) 	73.71(c)
LEVEL		11		20.405(a,(1)(i)	)	1.36(c)(2			1.73(a)(2)(Y	11) 111/41	Uther (specify
(10)	1.0	1 9	9	20.405(a)(1)(1)	A LOO	73(8)(4	1111 11711		70(a)(2)(v	111(0)	helow and in
0.992		1444		20.405(a)(1)(v)	50	,73(a)(2	(111)	50	.73(a)(2)(x	)	Text)
CHEELI	(13.14.1.)		i dada dağadı. Ka		LICENSEE	CONTACT	FOR TH	IS LER	(12)		
Name	CONTRACTOR OF A									TEL	EPHONE NUMBER
									AREA	300E	
P. Lav.	HPES.	Coord	inator				fixt. 2	957	1.8.1	151	4 5 8 - 2 8 0
			COMP	LETE ONE LINE FOR E	CH COMPON	ENT FAIL	VRE DE	SCRIBED	IN THIS EL	PURE (13	
CARE	SYSTEM	H CON	MPONENT	MANULAC- REPOR	ABLE VIII	all car	125 361	1316.0	CONFORCES	THEFT	TO NORDS
	1		1.3	10828 10.19	200 1999	3/1/		1	111	11	1 19 10 100 1999
	-		in describes			1111		1	111		1 1/1/1
		arak raak	SUPPL	EMENTAL REPORT EXPER	(1.4) Q3T					Expect	ed  Month   Day   Yea
				and the second		1				Submiss	ion
IVer	115		a false	CYDECTED CHAMICCIAN	DATES	1×1x	0			Date (	15)
ADSTOR	CT 11 1	ni: 10	1600 -	DACES I & STORAGE	ately fil	tpon sie	nale-se	ara tur	worition li	nes) (16	aranda anda arada a da anda a da

On March 9, 1992 at 0535 the volume of the 1A Safety Injection Accumulator was increased. Technical Specifications required verification of the boron concentration in the 1A Accumulator within the limits of 1900-2100 parts per million (ppm) in the next 6 hours. The Station Control Room Engineer (SCRE) notified a Chemistry Laboratory Supervisor (CLS) that a sample of the 1A Accumulator would be necessary. At 0805, a sample of the 1A Accumulator was obtained. The snalysis of the boron concentration (2117.6 ppm) was completed at 0910. At 0943, the SCRE recorded the boron concentration as 2117.6 ppm for the 1A Accumulator in a surveillance procedure. Although the boron concentration of the 1A Accumulator was above the limit, the SCRE and the CLS signed the reveillance is being acceptable. At 1357, a Nuclear Station Operator (NSO) was informed of the 1A Accumulator boron concentration. The NSO realized that the 1A Accumulator boron concentration was declared inoperable and a confirmatory sample was requested. At 1602, the boron

concentration was determined to be within the limit and the IA Accumulator was declared operable. The cause of

the event was cognitive personnel error by the SCRE and CLS and programmatic deficiencies.

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	Page (3)	
		Year //// Sequential //// Revision		
Braidwood 1	01510101014151	6 9 2 - 0 0 3 - 0 0	01 2 07 01	

A. PLANT CONDITIONS PRIOR TO EVENT:

Unit: Braidwood 1; Event Date: March 9, 1992; Event Time: 0943 Mode: 1 - Power Operation; Rx Power: 99% RCJ [AB] Temperature/Pressure: NOT/NOP

#### B. DESCRIPTION OF EVENT:

The Unit i Boric Acid Storage Tank (BAST) had been previously declared inoperable on March 2, 1992 because the concentration was below the Technical Specification limit of 7000 ppm. No Technical Specification Limiting Condition for Operation Action Statement was entered because the other borated water ource was operable. The DAST inoperability was being tracked by an administrative program.

On March 9, 1992 at 0535 the volume of the 1A Safety Injection (SI) [BR] Accumulator was increased by greater than 70 galions. In accordance with Technical Specification requirements, to boron concentration of the 1A Accumulator would need to be verified within the limits of 1909-2100 parts per million (ppm) in the next 6 hours.

The Station Control Room Engineer (SCRE) (licensed-SRO) began to track this 6 hour time clock by initiating sorveillance IBwOS SI-la. The SCRE then notified the Chemistry Department that a sample of the IA Accumulator would be necessary to measure the boron concentration. A representative of the Chemistry Department was requested to come to the control room and sign the applicable portion of IBwOS SI-la.

Shortly after 0630, the SCRE was relieved during a shift turnove. The turnover meeting included a discussion of the pending sample and the time limitation (1135). At 0658, a Chemistry Laboratory Supervisor (CLS) (non-licensed) entered the control room and acknowledged receipt of the sampling requirement not(fication.

At 0805, a sample of the 1A Accumulator was obtained. An analysis of the boron concentration was completed at 0910. The boron concentration was recorded on a data sample sheet as 2117.6 ppm. This concentration was identified as being above the Technical Specification limit of 2100 ppm and was brought to the attention of the CLS.

At 0940, the CLS went to the control room to report the boron concentration of the TA Accumulator and that the six hour time clock had been satisfied. The CLS and SCRE began a discussion about the sample results of the TA Accumulator and the BAST. The SCRE was told that the boron concentration of the BAST was above the Technical Specification limit of 7000 ppm. NOTE: Since the BAST had been previously declared inoperable. the higher boron concentration allowed the SCRE to restore the BAST to an operable condition.

At 0943, the SCRE then recorded the value of 2117.6 ppm for the 1A Accumulator in the applicable section of 18w0S SI-la. A rough the boron concentration of the 1A Accumulator was above the limit, the SCRE and the CLS signed off the section as being satisfactory.

At 1135, the 6 hour surveillance time requirement expired without appropriately verifying that the 1A Accumulator was within the allowed boron concentration.

FACILITY NAME (1)	DOCYET NUMBER (2)	LER HUMBER (6)	Page (3)	
		Year /// Sequential /// Revision Number /// Number		
Braidwood 1	0151010101415	16 91 2 - 0 10 13 - 0 10 01	3 OF 01	

At 1357, the Nuclear Station Operator (NSO) 'licensed-RO) called the Chomistry Dept. to obtain normal weekly boron sample results. The NSO obtained the noron concentrations as requested and additionally was informed of the 1A A-cumulator boron concentration. The NSO realized that the 1A A-cumulator boron concentration was above the Technical Specification limit and guestioned the SCRE. The SCRE confirmed that the 1A A-cumulator was above the limit and entered the Technical Specification Action Statement for an inoperable Accumulator. A confirmatory sample was requested.

At 1510, the buron concentration was reported as 2061.5 ppm. An additional sample was requested. At 1540 the result was obtained with a boron concentration of 2062.7 ppm. The 1A Accumulator was declared operable at 1602 and the Technical Specification Action Statement was exited.

This event is being reported pursuant to 10CFF50.73(a)(2)(i)(0) = any operation prohibited by the plant's Technical Specifications.

### C. CAUSE OF EVENT:

The cause of the event was orgnitive personnel error by the SCRE and CLS.

The SCRE failed to recognize the 1A Accumulator boron concentration sample result was above the Technical Specification limit even though the required concentration range was adjacent to the place provided for documunting the sample result. The SCRE believed that as long as the boron concentration was greater than 2000 ppm, it was acceptable. NOTE: 2000 ppm is the lowest boron concentration allowed by Technical Specifications for the Refueling Water Storage Tank.

The CLS was aware that the boron concentration was above the 2 30 ppm limit. The CLS signed, as being satisfactory, the section of 18w3S SI-la which addresses the sample limits. The CLS believed the signature was for sampling and analysis completion within the 6 hour time clock. Since the sample and analysis was done prior to expiration, the CLS signed the section without reading the action requirements.

Two contributing causes were due to programmatic deficiencies. When the sample result was obtained and identified to be outside of the range specified on the data sample sneet, no requirement existed to immediately notify licensed shift personnel. Additionally, no policy existed to obtain a contirmatory sample when the analysis yields a result outside the range specified in the Technical Specifications.

### D. SAFETY ANALYSTS:

This event had no effect on the safety of the plant or the public. The IA Accumulator bo' i concentration was determined to be within the Technical Specification limit. With a boron concentration slightly above the limit, more negative reactivity would have been inserted into the core following an Accumulator injection during a large break loss-of-coolant accident

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	Page (3)	
		Year /// Sequential /// Revision		
Braidwood 1	0151010101415	16 91 2 - 01013 - 010	01 4 OF 01	

### E. CORRECTIVE ACTIONS:

A meeting was held with the SCRE and CLS with the discussions focused on the inappropriate actions taken and that these actions were contrary to management expectations.

The Chemistry Dept. will add a requirement to immediately notify a licensed shift supervisor whenever a sample result is outside the specified limits for each Technical Specification related system sample data sheet. This item will be tracked to completion by Action Item No. 456-180-92-00301.

The Chemistry Dept. will add a requirement to obtain a confirmatory sumple whenever a sample result is outside Technical Specification limits. This item will be tracked to completion by Action Item No. 456-180-92-00302.

### F. PREVIOUS OCCURRENCES:

LER 89-020 LER 91-011

## G. COMPONENT FAILURE DATA:

This event was not the result of component failure, for did any components fail as a result of this event.