Commonwealth Edison Company Braidwood Generating Station Route #1, Box 84 Braceville, IL 60407-9619 Tel 815-458-2801

ComEd

October 5, 1995 BW/95-0097

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

Gentlemen:

The enclosed Licensee Event Report from Braidwood Generating Station is being transmitted in accordance with the requirements of 10 CFR 50.73(a)(2)(i) and 10 CFR 50.36(c)(2), which require a 30-day written report.

This report is number 95-009-00, Docket No. 50-456.

Yours truly,

T.J. Tulon Station Manager Braidwood Nuclear Station

TJT/PS/dla o:\corresp\zcsteno\bwdletrs.doc

Encl: Licensee Event Report No. 456-95-009-00

cc: NRC Region III Administrator NRC Resident Inspector INPO Record Center CECo Distribution Center I.D.N.S. I.D.N.S. Resident Inspector

9510170126 95100 PDR ADDCK 05000 A Unicom Company

JE221

NRC FOI (5-92)	RC FORM 366 U.S. NUCLEAR REGULATORY COMMISSION 5-92)						APPROVED BY OMB NO. 3150-0104 EXPIRES 5/31/95									
(Se	e rever	LI se for i	CENSEE	EVENT REP(O RT (1 /charac	LER	.) for ea	ach blo	ock)	EST THI FOR THE (MN WAS REDI MAN	IMAT S II WARD IN BB 7 HINC UCTI AGEM	ED BURDEN PE NFORMATION CO D COMMENIS RE FORMATION AND 7714), U.S. NU STON, DC 20555 ON PROJECT MENT AND BUDGE	R RESPON GARDING RECORDS CLEAR REC -0001, A (3150-0 T, WASHIN	ISE TO REQUES BURDEN MANAG SULATOR ND TO T 1104), NGTON, (COMPLY WITH T: 50.0 HRS. ESTIMATE TO EMENT BRANCH Y COMMISSION, THE PAPERWORK OFFICE OF DC 20503.	
FACILI Brai	dwood	(1) d 1			Contract of the second of the					DOC	KET	NUMBER (2) 05000456	5	1	PAGE (3) OF 6	
TITLE	(4)Misse	d Contr	ol Room V	entilation one	hour LCO	DAR C	due to	Person	nel Err	or an	nd Ed	quipment Failu	ire.			
E SVF	NT DATE	(5)		LER NUMBER (6))		REPO	RT DAT	E (7)	T		OTHER FACIL	ITIES IN	VOLVED	(8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION		MONTH	DAY	YEAR	FACILITY NAME Braidwood Unit 2				DOCKET NUMBER 05000457		
09	08	95	95	009	00		10	05	95	FACILITY NAME				DOCKET NUMBER		
OPER	ATING	1	THIS RE	PORT IS SUBMITTE	D PURSU	ANT	TO THE	REQUIR	EMENTS	OF 10	0 CF	R§: (Check o	one or mo	re) (11)	
MODE	(9)	1	20.4	20.402(b)			20.405((c)				50.73(a)(2)(iv)		73	.71(b)	
PO	WER	100	20.4	05(a)(1)(i)			50.36(0	:)(1)				50.73(a)(2)(v	()	73	.71(c)	
LEVEL	(10)	100	20.4	05(a)(1)(ii)		X	50.36(0	:)(2)				50.73(a)(2)(vii)		OTI	HER	
Contractor and a	and the second second	an ar an an Angalan San Angalan	20.4	05(a)(1)(iii)		X	50.73(a	1)(2)(1	2)(1)			50.73(a)(2)(v	(iii)(A)	(Speci	fy in	
			20.4	05(a)(1)(iv)			50.73(a	a)(2)(i	i)			50.73(a)(2)(viii)(B)		and in Text,		
	de Carlos		20.4			50.73(a	a)(2)(i	(2)(iii)			50.73(a)(2)()	()	NRC FC	orm 366A)		
					LICENSE	E CC	DNTACT	FOR TH	IS LER	(12)		,				
P. S	tudd	ard,	Syste	m Enginee	ring							(815)458	3-2801	x31	.10	
			COMP	LETE ONE LINE FO	OR EACH	COMP	ONENT	FAILUR	E DESCR	IBED	IN T	HIS REPORT (1	3)			
CAUSE SYSTEM C		EM C	OMPONENT	MANUFACTURER	REPORTA TO NPR		ABLE		CAUSE	SYSTEM		COMPONENT	MANUFACTURER		REPORTABLE TO NPRDS	
Х	X IL		-Ring	GA Tech. Inc.	N	N										
			SUPPLEMEN	SUPPLEMENTAL REPORT EXPECTED (1						EXPECTED MONT			MONTH	DA	YEAR	
YES (If yes, complete EXPECTED SUBMISSION DATE).).		x	NO		DATE (15)							
ABSTRA	CT (Lim	it to 1	400 space	s, i.e., approx	imately	15 s	ingle-	spaced	typewr	itten	lir	nes) (16)	fann berne til er ster effekter.			
At 1	425	on 09	/08/9	5, an ext	ra Nu	101	ear	Stat	tion	Ope	era	tor (NSO	, lic	ense	d	
reac	tor	opera	(tor)	noted tha	t the	e 0	PR32	J ((Contr	.01	Ro	om Air I	ntake	Tra	in A	
Rad	Moni	tor)	was i	n interlo	ck on	1 t	he R	M-23	3 (Co	ntr	:01	/Display	Modu	le f	or	
safe	ty r	elate	d rad	monitors), (I	he	ext	ra l	ISO n	oti	fi	ed the U	nit 1	Uni	t	
Supe	rvis	or (1	icens	ed senior	reac	to	r op	erat	cor).	T	The	Unit 1	Unit	Supe	rvisor	
noti	fied	the	Shift	Engineer	(lic	en	sed	seni	or r	eac	cto	r operat	or) a	nd e	ntered	
LCOA	R 3.	3.1-1	.a. A	review o	f the	R	M - 11	Alā	arm I	ype	er	indicate	d tha	t th	е	
OPR3	2J sl	kid ł	ad be	en off-li	ne fr	om	112	7.	At 1	433	3 t	he OA Co	ntrol	Roo	m	
Vent	ilat.	ion (VC) t	rain was j	place	d	in m	alter	ıp wi	th	th	le absorb	er on	lin	e,	
howe	ver	the C	ontro	1 Room Ver	ntila	ıti	on S	yste	em wa	s n	lot	isolate	d pri	or t	0	
plac	ing	the (B VC	train in .	servi	.ce	. A	t 15	501 t	he	0A	VC Trai	n was	shu	tdown	
in p	repa	ratic	n to	shift to	the O	B	VC T	rair	1. A	t 1	151	1 the OB	VC T	rain	was	
plac	placed in service. The one hour LCOAR requirements were not met for 3															
hour	hours and 44 minutes. Repairs to the OPR32J skid were completed and the															
LCOA	R ex	ited	on 9/	13/95. T	he ca	us	e of	the	e eve	ent	Wa	s person	nel e	rror		
Corr	ecti	ve ac	tions	include	couns	sel	ing	pers	sonne	el c	con	cerning	their			
perf	orman	nce r	elati	ng to the	even	ıt.	and	mana	ngeme	ent'	S	expectat	ions	rega	rding	
team	work	, sta	indard	s, and a	quest	io	ning	att	itud	le,	as	well as	enha	ncem	ents to	
trai	ning	cond	ernin	g teamwor	k and	i t	eam	buil	ding	ſ.,	Th	ere have	been	two		
previous occurrences of missed LCOARs due to personnel error.																

NRC FORM 366 (5-92)

APPROVED BY OMB NO. 3150-0104 NRC FORM 366A U.S. NUCLEAR REGULATORY COMMISSION EXPIRES 5/31/95 (5-92) ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, LICENSEE EVENT REPORT (LER) (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503. TEXT CONTINUATION DOCKET NUMBER (2) LER NUMBER (6) PAGE (3) FACILITY NAME (1) REVISION Braidwood 1 SEQUENTIAL YEAR NUMBER NUMBER 2 OF 6 05000456 95 00 -- 009 --

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

A. PLANT CONDITIONS PRIOR TO EVENT:

Unit: Braidwood 1; Event Date: September 8, 1995; Event Time: 1127; Mode: 1 - Power Operation; Rx Power: 100%; RCS [AB] Temperature/Pressure: NOT/NOP

Unit: Braidwood 2; Event Date: September 8, 1995; Event Time: 1127; Mode: 1 - Power Operation; Rx Power: 100%; RCS [AB] Temperature/Pressure: NOT/NOP

B. DESCRIPTION OF EVENT:

There were no systems or components inoperable at the beginning of the event that contributed to the severity of the event.

On 9/8/95 Instrument Maintenance personnel were performing calibrations on the 2PR27J (Steam Jet Air Ejector Rad Monitor) skid. During the course of events this resulted in numerous alarms being received on the RM-11's (Central Processing Unit for radiation monitors) for both units. At approximately 1115 operating commenced 1BwOS 3.2.1-921 (Unit One ESFAS Instrumentation Slave Relay Surveillance - Train A Turbine Trip - K640). At approximately 1120 the extra Nuclear Station Operator (NSO, licensed reactor operator) performing 1BwOS 3.2.1-921 reported problems with the surveillance to the Unit 1 Unit Supervisor (licensed senior reactor operator). During restoration of the surveillance the local Electro Hydraulic (EH) pressure did not approximate the pressure that was taken before the 20/Emergency Trip (ET) valve was cycled. The Unit 1 Unit Supervisor reviewed the surveillance and associated system drawings. At approximately 1122 the Unit Supervisor reviewed appropriate Technical Specifications and determined that the station had six hours to correct the problem or be in at least hot standby within the next six hours. There was also concern that the problem could cause a unit trip. The Unit 1 Unit Supervisor beeped the Shift Engineer (licensed senior reactor operator) at the 1100 planning meeting. At approximately 1124 the Unit Supervisor called and then paged the System Engineer. At approximately 1126 the System Engineer contacted the Unit Supervisor and discussed the problem and provided recommendations. The Shift Engineer contacted the Unit Supervisor and was informed of the problems encountered during the surveillance. At 1127 the RM-11 alarmed for the OPR32J skid. An extra NSO (licensed reactor operator) in the Main Control Room acknowledged the alarm and reported it to the Unit 1 Unit Supervisor. The extra NSO was directed to try and restart the skid. Instrument Maintenance personnel involved in the 2PR27J skid calibrations were not in the Main Control Room at this time. The

IRC FORM SOGA U.S. NUCLEAR RE (5-92)	GULATORY COMMISSION	APPROVED BY OMB NO. 3150-0104 EXPIRES 5/31/95								
LICENSEE EVENT REPORT (LER TEXT CONTINUATION	ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.									
FACILITY NAME (1)	DOCKET NUMBER (2)		LER NUMBER (6)	PAGE (3	3)				
Braidwood 1		YEAR	SEQUENTIAL	NUMBER						
	05000456	95	- 009 -	00	3 OF	0				
NAMAGENERT AND REGIN CASENGLY CASENED & COULTINAMAGENERT AND REGIN COULT WANTER (1)Braidwood 1DEDOCT WANTER (2)UPARTER OF TABLE STATEBraidwood 1OPAGE (3)DEDOCT WANTER (2)VER UNDER (2)DEDOCT WANTER										

This event is being reported pursuant to 10CFR50.36(c)(2) - When a limiting condition for operation of a nuclear reactor is not met and 10CFR50.73(a)(2)(i)(B) - Any operation or condition prohibited by the plant's Technical Specifications.

NRC FORM 366 (5-92)

APPROVED BY OMB NO. 3150-0104 NRC FORM 366A U.S. NUCLEAR REGULATORY COMMISSION **EXPIRES 5/31/95** (5-92) ESTIMATED BURDEN PER RESPONDE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503. LICENSEE EVENT REPORT (LER) TEXT CONTINUATION PAGE (3) DOCKET NUMBER (2) LER NUMBER (6) FACILITY NAME (1) SEQUENTIAL REVISION Braidwood 1 YEAR NUMBER NUMBER 4 of 6 05000456 95 00 -- 009 --

TEXT (If more space is required, use additional copies of NRC Form 366A) (17) C, CAUSE OF THE EVENT:

The cause of the event was Personnel Error and Equipment Failure. There was a lack of teamwork and a questioning attitude between the Unit Supervisor, Unit 1 NSO, Unit 2 NSO and the extra NSO. This led to corrective actions not being performed in a timely manner and these actions were not adequate in ensuring the action requirements were met within the one hour time frame.

An o-ring on the OPR32J skid gas channel detector plug was found to be brittle and not making the required seal to atmosphere. This allowed leakage to the atmosphere and produced a low flow condition within the skid.

D. SAFETY ANALYSIS:

This event had no effect on the safety of the plant or the public. The radiation monitor that failed senses the minimum outside air intake for the A Train of the VC system. There are two redundant radiation monitors in the minimum outside air intake for both trains of Control Room Ventilation. Flant safety was not effected during this event because the redundant radiation monitor remained operable and was capable of realigning the VC system if a high radiation level was detected on the OA VC Train. Public safety was not effected because the VC system does not exhaust air to the atmosphere, therefore there was no chance of an unmonitored release from the VC system. NRC FORM 366 (5-92)

NRC FORM 366A

(5-92)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104 EXPIRES 5/31/95

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

LICENSEE EVENT REPORT (LER TEXT CONTINUATION	ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET. WASHINGTON, DC 20503.						
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)					
Braidwood 1		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	E OF C		
	05000456	95	009	00	5 OF 6		

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

E. CORRECTIVE ACTIONS:

Personnel involved in the event were counseled concerning their performance relating to the event and management's expectations regarding teamwork, standards, and a questioning attitude.

Each operating crew was briefed on the event.

Teamwork is being stressed during simulator training for Operating Department personnel. This is performed during briefs held prior to the simulator training and during the actual simulator training.

Licensed Operator training is being revised to include more team building. Training will include management's expectations that reactor operators and senior reactor operators are equally responsible in ensuring that the units are in compliance with Technical Specifications. This will be tracked to completion by NTS item #456-180-95-00901.

F. PREVIOUS OCCURRENCES:

There have been two similar incidents of failure to meet LCOAR action requirements due to personnel error at Braidwood Station in the past:

On April 19, 1993, Unit 2 was in Mode 5. Two NSOs performed the task of blocking the Source Range (SR) monitors in tandem. The two NSOs did not clearly communicate their actions to each other. One of the NSOs informed a third, oncoming NSO of the blocking of the SR monitors. The oncoming NSO was given an inaccurate turnover of the SR monitor status. A LCOAR was entered for having the SR monitors blocked. Later, when unblocking the SR monitors, the second NSO unblocked the "Hi Flux at Shutdown" alarm and reset the "Boron Dilution Prevention System" (BDPS) but failed to unbiock the "Source Level Hi Reactor Trip" function. The NSO was not aware that the latter function had been blocked. The NSO then exited the LCOAR based on this action. Approximately eight hours later, the blocked trip was identified and unblocked. The cause of this event was personnel error and procedural deficiency. Corrective actions included counseling of the individuals involved, and the development of a procedure for properly blocking the SR monitors.

On August 10, 1995 surveillance OBwOS 7.6.B-1 was in progress on the OA VC makeup filter train with the charcoal absorber in bypass. At 0845 the RM-11 alarmed for the ORE-PR032B. The NSO reported this alarm to the Unit Supervisor precipitating a discussion concerning the status of LCOAR 3.3.1la for the OPR32J calibration. After completing a current task, the Unit Supervisor determined that the LCOAR in question had been exited and entered the LCOAR 3.3.1-la. This was reported to the Shift Engineer at 0915. The Unit Supervisor determined the action requirements were met by the OA VC train being in the makeup mode per the surveillance in progress,

NOC FORM 366 (5-02)

NRC FORM 366A (5-92)	U.S. NUCLEAR REGULATORY C	APPROVED BY OMB NO. 3150-0104 EXPIRES 5/31/95						
LICENSEE E TEXT	VENT REPORT (LER) CONTINUATION		ESTIMATED BURDEN PER RESPONSE TO COMPLY THIS INFORMATION COLLECTION REQUEST: 50.0 FORWARD COMMENTS REGARDING BURDEN ESTIMA THE INFORMATION AND RECORDS MANAGEMENT F (MNBB 7714), U.S. NUCLEAR REGULATORY COMMIS WASHINGTON, DC 20555-0001, AND TO THE PAPE REDUCTION PROJECT (3150-0104), OFFICE MANAGEMENT AND REDUCET WASHINGTON DC 2050					WITH HRS. E TO RANCH SION, RWORK OF
FACILITY NAME	(1) DOCKET NU	MBER (2)	LER NUMBER (6) PAGE (GE (3)
Braidwood 1			YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	6 OF	6	
	0500	0456	95	009	00			

TEXT (If more space is required, use additional copies of NRC Form 366A) (17) At 0950 the Unit Supervisor recognized that with the charcoal absorber in bypass it was questionable if the action requirements were being met. The Unit Supervisor informed the Shift Engineer and a discussion between the Shift Engineer and both Unit Supervisors determined the OB VC train needed to be placed in service to ensure meeting the action requirements. OBwOS 7.6.b-1 was terminated and the OB VC train was placed in service. Requirements of the one hour LCOAR were not met for 1 hour and 24 minutes. The cause of this event was personnel error and procedural deficiency. Corrective actions included counseling of personnel involved and procedural changes.

G. COMPONENT FAILURE DATA:

MANUFACTURER GA Technologies Inc.

NOMENCLATURE O-Ring

MODEL N/A

MFG PART NO. 50008228-001