LICENSEE EVENT REPORT (LER)								. U.S. NU	APPROVED OMB NO. 3160-0104 EXPIRES - 9/31/93							
PACILIT	Y NAME I	11									DOCKET NUMBER	***	Professional Professional	AGE 13)		
		Bot	tom	Atomic	Power	Sta	tion	- U	nit	2	0 6 0 0	1012171	7 1 0	F 3		
AC		lene	Lei	ak In Dr	rvwell											
NAME AND POST OF THE PERSON NAMED IN	ENT DATE	NAME AND ADDRESS OF THE OWNER, WHEN PERSON NAMED IN	1300	LER NUMBER	the state of the s	AE	PORT DAT	re in		OTHER	FACILITIES INVOL	VED (8)				
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	AEVBION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES			DOCKET NUMBERIS				
												0 6 0	0101	11		
0 16	018	814	814	-01111	0 10	017	ob	3 14				0 1510 1	0.0.			
		0 4		PORT IS SUBMITTE	10 0	TO THE B	9		CFR & II	Check one or more	The second secon	-	0 10 1			
POWER (#) N 20.402(b) POWER (10) 0 0 20.408(b)(11(b) 20.408(b			80.36(e) 80.36(e) 80.73(e) 80.73(e)	90.73(e)(2)(i) 90.73(e)(2)(viii			60.73(a)(3)(v) 60.73(a)(3)(v) 60.73(a)(2)(v)()(60.73(a)(2)(v)()(73,71(a) 73,71(a) 07HER (L71(a) THER (Specify in Abstract from and in Total, MRC form						
B.	L.	Cla	rk,	Senior				ecial		ojects	2, 1, 5	84 11		Opl 17		
				COMPLETE	ONE LINS FOR	EACH CO	MPONEN	FAILURE	DESCRIBE	D IN THIS REPOR	T (13)	,				
CAUSE	SYSTEM	COMP	ONENT	MANUFAC	HEPORTABLE TO NPROS		Y 34.50	CAUSE	SYSTEM	COMPONENT	TURER	TO MPROS				
				111					_		111					
							2873013 - 1944 194			111	111					
711	\$ 111 rm 11	unpieu (APECTED	SUPPLEME SUBMISSION DATE	ENTAL REPORT	EXPECTE					EXPECTED SUBMISSION DATE IN	0	H CAY	YEAR		
ABSTRAC	CT ILIMUI D	re 1400 up	mc m, / h., d			7	NO NO				EXPECTE SUBMISSIO DATE (18	D MONT	TH CAY	Ī		

On June 8, 1984, during the present refueling outage while preparing to perform preheat for welding in the Unit 2 drywell, an acetylene leak at the point where the hose is crimped onto the standard screw connection in a cutting torch resulted in a combustible gas (acetylene) concentration in the drywell above the lower explosive limit. All personnel in the drywell were evacuated and additional ventilation was utilized to expel the gas.

As a result of this event, several steps have been taken regarding the handling of acetylene in the drywell.

It 1/2

MAC Form 366

LICENSEE EV	LICENSEE EVENT DEDORT ILED TEVT CONTINUES.								ULATORY COMMISSION MB NO. 3150-0104 1/86				
FACILITY NAME [1]	DOCKET NUMBER (2)	T	LER NUMBER (8)					PAGE (3)					
Peach Bottom Atomic Po	ower	YEAR		SEQUENTIAL		REVISION		T		-			
Station - Unit 2	0 5 0 0 0 217 7	7 814	_	01 111	_	010	02	OF	0	3			

Description of the Event:

TEXT (II mort space is required, use edditional NRC Folim J66s) (17)

At approximately 8:30 a.m. on June 8, 1984, during the present refueling outage, a contractor employee, in preparation to perform preheat for welding in the Unit 2 drywell, attached and valved into service one cutting torch to acetylene and oxygen hoses at elevation 203 in the drywell.

After performing these preliminary actions, the contractor employee left to dress for performing the preheat and welding work. Upon returning to the drywell to perform the work, the contractor detected a strong smell of acetylene. The contractor employee reported the problem to contractor safety personnel, who recommended personnel evacuation from the drywell. Personnel were immediately evacuated from the drywell.

Both a contractor safety employee and a welding supervisor entered the drywell with a pretested Syntox explosive tester and measured a concentration of eight percent (8%) acetylene and eighteen percent (18%) oxygen at elevation 186. This concentration of acetylene was a threat to the safety of the plant because acetylene is explosive at concentrations between 2.5% and 100%: therefore, these two personnel immediately evacuated from the drywell.

As a mitigating measure, a second equipment cell fan and the Reactor Building exhaust fan were turned on to supplement the drywell purge and equipment cell fan. In addition, maximum ventilation was provided to the drywell by the reactor building and refuel floor supply fans.

A subsequent check of the drywell with a pretested Syntox explosive tester at approximately 1:30 p.m. measured no trace of acetylene and a concentration of twenty-one percent oxygen at elevation 203.

Apparently, the added ventilation placed in service was sufficient to expel the gas. Following this measurement, the explosive tester was tested to verify its proper operation.

LICENSEE EVENT RE	PORT (LER) TEXT CONTINU	UATION	N APPROVED OMB NO. 3150-0104 EXPIRES 8/31/86					
FACILITY NAME (1)	DOCKET NUMBER (2)	T		PAGE (3)				
Peach Bottom Atomic Power		YEAR	SEQUENTIAL	REVISION				
Station - Unit 2	0 5 0 0 0 2 7 7	814 -	0 11	-010	01 3 0 0 1			

TEXT III more space is required, use additional NHC Folim J66s (17)

Following these actions, the acetylene torch was examined and both valves to the torch were found closed. Although the oxygen side was found pressurized, the acetylene side was found empty.

Consequences of the Event:

The immediate action taken following the event was removal of all acetylene bottles from the drywell and reactor building. Following licensee review and approval of new contractor requirements, the contractor was given approval to return acetylene and oxygen gas to Unit 2 drywell on June 21, 1984.

Cause of the Event:

Investigation of the event discovered a leak at the point where the acetylene hose is crimped onto the standard screw connection.

Corrective Actions:

New control measures were written for controlling acetylene within the drywell. These measures are included within the document 'Burning and Cutting Requirements for Pipe Replacement within the Drywell'. Among these control measures are instructions requiring leak testing and the verification of the absense of leaks of all acetylene equipment from the bottle to the torch and a requirement that personnel be stationed inside the drywell whenever an acetylene bottle is valved into service.

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

July 9, 1984

Docket No. 50-277

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

SUBJECT: Licensee Event Report

This LER concerns an acetylene leak in the Unit 2 drywell during outage work.

Reference:

Docket No. 50-277

Report Number:

2-84-11

Revision Number:

00 June 8, 1984

Event Date:

Report Date: Facility:

July 9, 1984

Peach Bottom Atomic Power Station RD #1, Box 208, Delta, PA 17314

This LER is submitted pursuant to the requirements of 10 CFR 50.73a(2)(x).

Very truly yours,

R. H. Loque Superintendent Nuclear Services

cc: Dr. Thomas E. Murley, Administrator Region I, USNRC

Mr. A. R. Blough, Site Inspector