

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1) Peach Bottom Atomic Power Station - Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 27 17	LER NUMBER (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
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TEXT (if more space is required, use additional NRC Form 305A) (17)

Description of the Event:

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.

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FACILITY NAME (1) Peach Bottom Atomic Power Station - Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 2 7 7	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 4	0 1 1 1	0 0	0 3	OF	0 3

TEXT (If more space is required, use additional NRC Form 366a) (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 absence 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.

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July 9, 1984

Docket No. 50-277

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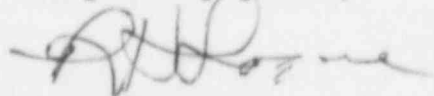
SUBJECT: Licensee Event Report

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
Event Date:	June 8, 1984
Report Date:	July 9, 1984
Facility:	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. Logue
Superintendent
Nuclear Services

cc: Dr. Thomas E. Murley, Administrator
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LE22
11