

## LICENSEE EVENT REPORT (LER)

APPROVED ONS NO. 3180-0104  
EXPIRES - 8/31/85

FACILITY NAME (1)

Limerick Generating Station - Unit 1

DOCKET NUMBER (2)

0 5 0 0 0 3 5 2 1 OF 0 3

PAGE (3)

TITLE (4)

Main Control Room Chlorine Isolation

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)																																
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME		DOCKET NUMBER (9)																														
06	16	85	85	059		06	07	85			0 5 0 0 0 1 1																														
OPERATING MODE (10)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)																																						
4			<table border="1"><tr><td>20.402 (a)</td><td>20.406 (a)</td><td>X</td><td>00.73 (a) (2) (iv)</td><td>70.71 (a)</td></tr><tr><td>20.406 (a) (1) (i)</td><td>00.34 (a) (1)</td><td></td><td>00.73 (a) (2) (vi)</td><td>70.71 (a)</td></tr><tr><td>20.406 (a) (1) (ii)</td><td>00.36 (a) (2)</td><td></td><td>00.73 (a) (2) (viii)</td><td></td></tr><tr><td>20.406 (a) (1) (iii)</td><td>00.73 (a) (2) (i)</td><td></td><td>00.73 (a) (2) (ix) (A)</td><td>OTHER (Specify in Abstract below and in Title, NRC Form 204A)</td></tr><tr><td>20.406 (a) (1) (iv)</td><td>00.73 (a) (2) (ii)</td><td></td><td>00.73 (a) (2) (ix) (B)</td><td></td></tr><tr><td>20.406 (a) (1) (v)</td><td>00.73 (a) (2) (iii)</td><td></td><td>00.73 (a) (2) (ix) (C)</td><td></td></tr></table>									20.402 (a)	20.406 (a)	X	00.73 (a) (2) (iv)	70.71 (a)	20.406 (a) (1) (i)	00.34 (a) (1)		00.73 (a) (2) (vi)	70.71 (a)	20.406 (a) (1) (ii)	00.36 (a) (2)		00.73 (a) (2) (viii)		20.406 (a) (1) (iii)	00.73 (a) (2) (i)		00.73 (a) (2) (ix) (A)	OTHER (Specify in Abstract below and in Title, NRC Form 204A)	20.406 (a) (1) (iv)	00.73 (a) (2) (ii)		00.73 (a) (2) (ix) (B)		20.406 (a) (1) (v)	00.73 (a) (2) (iii)		00.73 (a) (2) (ix) (C)	
20.402 (a)	20.406 (a)	X	00.73 (a) (2) (iv)	70.71 (a)																																					
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20.406 (a) (1) (v)	00.73 (a) (2) (iii)		00.73 (a) (2) (ix) (C)																																						

NAME		TELEPHONE NUMBER	
Senior John C. Nagle, Engineer - Special Projects		AREA CODE 2 1 5 8 4 1 - 5 1 8 4	

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (12)											
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM
B	V	I	A	E	M	0	2	8	N		

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO				

ABSTRACT (Limit to 1400 words, i.e., approximately fifteen single-space typewritten lines) (16)

Abstract: 85-059

On June 16, 1985, at 11:28 p.m., with the unit in cold shutdown, an Engineered Safety Feature (ESF) actuation occurred. Failure of the 'D' control room chlorine detector caused the normal ventilation system to isolate and the 'B' train of the Control Room Emergency Fresh Air System (an ESF system) to start. The sample tape in the detector instrument had broken, causing the analyzer to indicate full scale. The tape was repaired, the analyzer was tested and returned to service, and the isolation was reset. Previous occurrences have been reported as LERs 84-008, 84-010, 84-028, 84-033, 84-046, 85-029, 85-030, 85-031, 85-042, and 85-050. The procurement of an alternate type of chlorine detection system is in progress. There were no adverse effects as a result of this event.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1)

Limerick Generating Station  
Unit 1

DOCKET NUMBER (2)

LER NUMBER (6)

PAGE (3)

YEAR SEQUENTIAL REVISION  
NUMBER NUMBER NUMBER

0 5 0 0 0 3 5 2 8 5 - 0 5 9 - 0 1 0 0 1 2 OF 0 1 3

TEXT (If more space is required, use additional NRC Form 365a (17))

Description of the Event:

At 11:28 p.m. on June 16, 1985, the operators received an alarm "Control Room Chlorine Isolation Initiated" and the 'B' train of the Control Room Emergency Fresh Air System (an ESF system) started. In order to verify the high chlorine signal, the remaining three chlorine indicators in the control room were observed, but indicated normal. Investigation determined that the sample tape of the 'D' chlorine analyzer (AE-78-016D), an MDA Scientific, Inc. Model 740 FAN, had broken, causing the analyzer to indicate full scale.

The EIIS code for the affected system is VI.

Consequences of the Event:

Because the Main Control Room Isolation System and Emergency Filtration System responded in accordance with the design, there are no adverse consequences associated with this event.

Cause of the Event:

The control room chlorine isolation and ESF actuation resulted from breakage of the sample tape in the 'D' analyzer, which produced a high reading. The cause of the sample tape breakage is an apparent design deficiency in the analyzer model.

Corrective Actions:

The sample tape was repaired, the analyzer tested and returned to service, and the isolation was reset.

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1)

Limerick Generating Station  
Unit 1

DOCKET NUMBER (2)

LER NUMBER (5)

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YEAR

SEQUENTIAL  
NUMBERREVISION  
NUMBER

0 5 0 0 0 3 5 2 8 5 - 0 5 9 - 0 0 0 3 OF 0 3

TEXT (If more space is required, use additional NRC Form 365A's) (17)

Action Taken to Prevent Recurrence

Because previous modifications to the current chlorine analyzer model have failed to prevent inadvertent sample tape breakage, measures are presently being taken regarding the procurement of an alternate type of detection system.

Previous Occurrences

LERs 84-008, 84-010, 84-028, 84-033, 84-046, 85-029, 85-030, 85-031, 85-042, and 85-050 report similar events.

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

July 15, 1985

Docket No. 50-352

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


SUBJECT: Licensee Event Report  
Limerick Generating Station - Unit 1

This LER deals with the actuation of the Control Room  
Emergency Fresh Air System due to a failed chlorine analyzer.

Reference:	Docket No. 50-352
Report Number:	85-059
Revision Number:	00
Event Date:	June 16, 1985
Report Date:	July 15, 1985
Facility:	Limerick Generating Station P.O. Box A, Sanatoga, PA 19464

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

Very truly yours,



W. T. Ullrich  
Superintendent  
Nuclear Generation Division

cc: Dr. Thomas E. Murley, Administrator, Region I, USNRC  
E. M. Kelly, Resident Site Inspector  
See Service List

LE22  
1/1

cc: Judge Helen F. Hoyt  
Judge Jerry Harbour  
Judge Richard F. Cole  
Troy B. Connor, Jr., Esq.  
Ann P. Hogdon, Esq.  
Mr. Frank R. Romano  
Mr. Robert L. Anthony  
Ms. Phyllis Zitzer  
Charles W. Elliott, Esq.  
Zori G. Ferkin, Esq.  
Mr. Thomas Gerusky  
Director, Penna. Emergency Management Agency  
Angus Love, Esq.  
David Wersan, Esq.  
Robert J. Sugarman, Esq.  
Kathryn S. Lewis, Esq.  
Spence W. Perry, Esq.  
Jay M. Gutierrez, Esq.  
Atomic Safety & Licensing Appeal Board  
Atomic Safety & Licensing Appeal Panel  
Docket & Service Section  
James Wiggins  
Timothy R. S. Campbell