

## LICENSEE EVENT REPORT (LER)

APPROVED OMB NO. 3180-0104  
EXPIRES - 8/31/85FACILITY NAME (1)  
Limerick Generating Station - Unit 1DOCKET NUMBER (2)  
0 5 0 0 0 3 5 2 1 OF 0 2TITLE (4)  
Control Room Chlorine Analyzer Failure

EVENT DATE (8)			LER NUMBER (6)		REPORT DATE (7)			OTHER FACILITIES INVOLVED (9)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES
1	2	3	0	8	4	8	4	0	0
4	8	4	0	4	6	0	0	0	1
2	3	8	5						

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)																								
2	<table border="1"><tr><td>20.402(b)</td><td>20.406(a)</td><td>60.73(a)(2)(iv)</td><td>73.71(b)</td></tr><tr><td>20.406(a)(1)(i)</td><td>60.73(a)(1)</td><td>60.73(a)(2)(v)</td><td>73.71(a)</td></tr><tr><td>20.406(a)(1)(ii)</td><td>60.73(a)(2)</td><td>60.73(a)(2)(vi)</td><td>OTHER (Specify in Abstract below and in Test, NRC Form 306A)</td></tr><tr><td>20.406(a)(1)(iii)</td><td>60.73(a)(2)(i)</td><td>60.73(a)(2)(vii)(A)</td><td></td></tr><tr><td>20.406(a)(1)(iv)</td><td>60.73(a)(2)(ii)</td><td>60.73(a)(2)(vii)(B)</td><td></td></tr><tr><td>20.406(a)(1)(v)</td><td>60.73(a)(2)(iii)</td><td>60.73(a)(2)(ix)</td><td></td></tr></table>	20.402(b)	20.406(a)	60.73(a)(2)(iv)	73.71(b)	20.406(a)(1)(i)	60.73(a)(1)	60.73(a)(2)(v)	73.71(a)	20.406(a)(1)(ii)	60.73(a)(2)	60.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Test, NRC Form 306A)	20.406(a)(1)(iii)	60.73(a)(2)(i)	60.73(a)(2)(vii)(A)		20.406(a)(1)(iv)	60.73(a)(2)(ii)	60.73(a)(2)(vii)(B)		20.406(a)(1)(v)	60.73(a)(2)(iii)	60.73(a)(2)(ix)	
20.402(b)	20.406(a)	60.73(a)(2)(iv)	73.71(b)																						
20.406(a)(1)(i)	60.73(a)(1)	60.73(a)(2)(v)	73.71(a)																						
20.406(a)(1)(ii)	60.73(a)(2)	60.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Test, NRC Form 306A)																						
20.406(a)(1)(iii)	60.73(a)(2)(i)	60.73(a)(2)(vii)(A)																							
20.406(a)(1)(iv)	60.73(a)(2)(ii)	60.73(a)(2)(vii)(B)																							
20.406(a)(1)(v)	60.73(a)(2)(iii)	60.73(a)(2)(ix)																							

LICENSEE CONTACT FOR THIS LER (12)  
NAME  
John C. Nagle, EngineerTELEPHONE NUMBER  
AREA CODE  
2 1 5 8 4 1 - 5 1 8 4

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)									
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC
B	VI	A	E	M	Q	2	8	Y	

SUPPLEMENTAL REPORT EXPECTED (14)  
YES (If you complete EXPECTED SUBMISSION DATE) ☒ NOEXPECTED SUBMISSION DATE (15)  
MONTH DAY YEAR

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

Abstract: 84-046

Prior to initial criticality, a failure of the 'D' control room chlorine detector caused the normal ventilation to isolate and the 'B' train of the Control Room Emergency Fresh Air System to start. Investigation determined that the sample tape had broken causing the analyzer to indicate full scale. The tape was repaired and the analyzer was tested and returned to service.

IE22  
1/1

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMS NO. 3150-0104  
EXPIRES 8/31/85

FACILITY NAME (1) Limerick Generating Station Unit 1	DOCKET NUMBER (2)  0 5 0 0 0 3 5 2 8 4 - 0 4 6 - 0 1 0 0 2 of 0 2	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			

TEXT (if more space is required, use additional NRC Form 366A (17))

Description of the Event:

At approximately 1014 on December 30, 1984, the operators received an alarm "Control Room Chlorine Isolation Initiated" and the 'B' train of Control Room Emergency Fresh Air System (an engineering safety feature) started. A similar event was reported in LERS 84-006, 84-008, 84-010, 84-020, 84-028, and 84-033.

Consequences of the Event:

Technical Specification 3.3.7.8.1a permits operation in the normal ventilation mode with one chlorine detection subsystem inoperable for up to seven days. The failed analyzer was returned to service within 24 hours, so the consequences of this event are minimal.

Cause of the Event:

Investigation determined that the sample tape of the 'D' chlorine analyzer (AE-78-0167), an MDA Scientific, Inc. Model 740 FAN, had broken causing the analyzer to indicate full scale.

Corrective Actions:

Instrument and Controls technicians repaired the sample tape and a checkout and calibration was completed. The analyzer was tested satisfactorily and returned to service.

Actions to Prevent Recurrence:

An investigation into the cause of the tape breakage has been undertaken in concert with the equipment manufacturer. Several modifications are being considered as the result of these investigations.

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

January 23, 1984

Docket No. 50-352

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

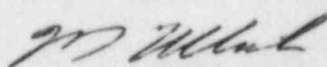
SUBJECT: Licensee Event Report  
Limerick Generating Station - Unit 1

This LER deals with the failure of a Control Room Chlorine Analyzer prior to initial criticality.

Reference:	Docket No. 50-352
Report Number:	84-046
Revision Number:	00
Event Date:	December 30, 1984
Report Date:	January 23, 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

See Service List

IE 22  
11

cc: Judge Helen F. Hoyt  
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1/16/85