

## LICENSEE EVENT REPORT (LER)

APPROVED ONS NO. 3180 DION  
EXPIRES 8/31/83

FACILITY NAME (1)

Limerick Generating Station - Unit 1

DOCKET NUMBER (2)

050003521 OF 013

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 (8)	
07	12	85	85	063	000	07	16	85		050003521	
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)								
4			<input checked="" type="checkbox"/> 20.402(a) <input type="checkbox"/> 20.406(a) <input type="checkbox"/> 20.73(a)(2)(iv) <input type="checkbox"/> 20.73(a)(2)(v) <input type="checkbox"/> 20.73(a)(2)(vi) <input type="checkbox"/> 20.73(a)(2)(vii)(A) <input type="checkbox"/> 20.73(a)(2)(vii)(B) <input type="checkbox"/> 20.73(a)(2)(viii)								
POWER LEVEL (10)			OTHER (Specify in Abstract below and in Title, NRC Form 200A)								
0.00											

LICENSEE CONTACT FOR THIS LER (12)

NAME

John C. Nagle, Senior Engineer - Special Projects

TELEPHONE NUMBER

AREA CODE

215841-5184

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	V.I	A.E.M.	028	N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If you complete EXPECTED SUBMISSION DATE)	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input checked="" type="checkbox"/>	<input type="checkbox"/>				

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

Abstract: 85-063

On July 12, 1985, at 12:37 a.m., with the unit in cold shutdown, an Engineered Safety Feature (ESF) actuation occurred. Failure of the 'C' control room chlorine detector caused the normal ventilation system to isolate and the 'A' 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, 85-050, and 85-059. 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 8/31/86

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

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

Description of the Event:

At 12:37 a.m. on July 12, 1985, the operators received an alarm "Control Room Chlorine Isolation Initiated" and the 'A' 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 'C' chlorine analyzer (AE-78-016C), 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 'C' 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 (6)

PAGE (3)

YEAR

SEQUENTIAL  
NUMBERREVISION  
NUMBER

0 5 0 0 0 3 5 2 8 5 - 0 6 3 - 0 0 0 3 OF 0 3

TEXT (If more space is required, use additional NRC Form 366A'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, 85-050, and 85-059 report similar events.

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

July 16, 1985

Docket No. 50-352

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U.S. Nuclear Regulatory Commission  
Washington, DC 20555

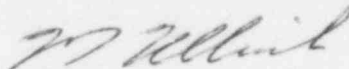
SUBJECT: Licensee Event Report  
Limerick Generating Station - Unit 1

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:	85-063
Revision Number:	00
Event Date:	July 12, 1985
Report Date:	July 16, 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. Conner, Jr., Esq.  
Ann P. Hodgdon, 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 Board Panel  
Docket & Service Section (3 Copies)  
E. M. Kelly  
Timothy R. S. Campbell

July 3, 1985