

LICENSEE EVENT REPORT (LER)

APPROVED OMB NO. 3100-0104
EXPIRES 6/31/85FACILITY NAME (1)
Limerick Generating Station - Unit 1

DOCKET NUMBER (2)

0 5 0 0 0 3 5 2

PAGE (3)

1 OF 0 3

TITLE (4)
Main Control Room Chlorine Isolation and Emergency Fresh Air System InitiationEVENT DATE (5)
MONTH DAY YEAR
1 0 1 3 8 5 8 5
LER NUMBER (6)
YEAR SEQUENTIAL NUMBER REVISION NUMBER
0 8 1 0 0
REPORT DATE (7)
MONTH DAY YEAR
1 1 1 2 8 5
OTHER FACILITIES INVOLVED (8)
FACILITY NAME DOCKET NUMBER (9)
0 5 0 0 0 1 1
0 5 0 0 0 1 1OPERATING MODE (10) 4
THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)
POWER LEVEL (12) 0 0 0
20.402(a) 20.406(a) X 20.731(a)(1)(i) 72.711(a)
20.406(a)(1)(i) 20.406(a)(1)(ii) 20.731(a)(2)(i) 72.711(a)
20.406(a)(1)(iii) 20.406(a)(1)(iv) 20.731(a)(2)(ii) OTHER (Specify in Abstract below and in Test, NRC Form 364A)
20.406(a)(1)(v) 20.406(a)(1)(vi) 20.731(a)(2)(iii) (A)
20.406(a)(1)(vii) 20.406(a)(1)(viii) 20.731(a)(2)(iv) (B)
20.406(a)(1)(ix) 20.406(a)(1)(x) 20.731(a)(2)(v) (C)

LICENSEE CONTACT FOR THIS LER (13)

NAME
John C. Nagle, Senior Engineer, Licensing Section

TELEPHONE NUMBER

AREA CODE

2 1 5 8 4 1 - 5 1 8 4

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (14)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC
B	V I	A E	M 0 2 8	N					

SUPPLEMENTAL REPORT EXPECTED (15)

YES (If yes, complete EXPECTED SUBMISSION DATE) X NO
EXPECTED SUBMISSION DATE (16)
MONTH DAY YEAR

ABSTRACT (Limit to 1600 spaces, i.e., approximately fifteen single-space typewritten lines) (17)

Abstract: 85-081

On October 13, 1985, at 4:05 a.m., while Unit 1 was in the shutdown mode, an Engineered Safety Feature (ESF) actuation occurred. The normal ventilation system isolated and the 'B' train of the Control Room Emergency Fresh Air System (an ESF system) started as a result of failure of the 'D' control room chlorine detector. 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, 85-059, and 85-063. The approval for installation and testing of a new 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) 0 5 0 0 0 3 1 5 2 8 5 - 0 8 1 - 0 0 0 2 OF 0 3	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 4:05 a.m. on October 13, 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 Fresh Air 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.

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)

0 5 0 0 0 3 5 2

LER NUMBER (6)

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YEAR

SEQUENTIAL
NUMBERREVISION
NUMBER

8 5 --

0 8 1 --

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OF 0 3

TEXT (If more space is required, use additional NRC Form 366A's) (17)

Corrective Actions:

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

Action Taken to Prevent Recurrence

Because previous modifications to the current chlorine analyzer model have failed to prevent inadvertent sample tape breakages, measures have been taken to procure and install an alternate type of detection system under Modification Design Change Package (MDCP) #85-611. In addition, modification request #85-0502 will provide a more reliable isolation logic for the Main Control Room Ventilation system.

Previous Similar Occurrences:

LERs 84-008, 85-010, 84-028, 84-033, 84-046, 85-029, 85-030, 85-031, 85-042, 85-050, 85-059, and 85-063 report similar events.

PHILADELPHIA ELECTRIC COMPANY

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(215) 841-4000

November 12, 1985

Docket No. 50-352

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Washington, DC 20555

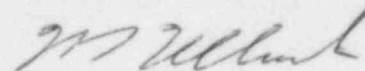
SUBJECT: Licensee Event Report
Limerick Generating Station - Unit 1

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:	85-081
Revision Number:	00
Event Date:	October 13, 1985
Report Date:	November 12, 1985
Facility:	Limerick Generating Station P.O. Box A, Sanatoga, PA 19464

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

Very truly yours,



W. T. Ullrich
Superintendent
Nuclear Generation Division

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E. M. Kelly, Senior Resident Site Inspector
See Service List

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1/1

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Docket & Service Section (3 Copies)
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Timothy R. S. Campbell

September, 1985

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