

LICENSEE EVENT REPORT (LER)

APPROVED OMB NO. 3150-0104  
EXPIRES - 8/31/93

FACILITY NAME (1) **Limerick Generating Station - Unit 1** DOCKET NUMBER (2) **05000352** PAGE (3) **1 OF 3**

TITLE (4) **Reactor Water Cleanup System 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
01	05	85	85	003	00	01	20	48	
								DOCKET NUMBER(S)	
								050003	

OPERATING MODE (9) **2** THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 50. (Check one or more of the following) (11)

POWER LEVEL (10) <b>003</b>	20.402(b)	20.406(a)	<input checked="" type="checkbox"/>	00.73(a)(2)(i)	73.71(b)
	20.406(a)(1)(i)	00.30(a)(1)	<input type="checkbox"/>	00.73(a)(2)(ii)	73.71(c)
	20.406(a)(1)(ii)	00.30(a)(2)	<input type="checkbox"/>	00.73(a)(2)(iii)	
	20.406(a)(1)(iii)	00.73(a)(2)(i)	<input type="checkbox"/>	00.73(a)(2)(iii)(A)	OTHER (Specify in Abstract below and in Test, NRC Form 364A)
	20.406(a)(1)(iv)	00.73(a)(2)(ii)	<input type="checkbox"/>	00.73(a)(2)(iii)(B)	
	20.406(a)(1)(v)	00.73(a)(2)(iii)	<input type="checkbox"/>	00.73(a)(2)(iii)	

LICENSEE CONTACT FOR THIS LER (12)

NAME **John C. Nagle, Engineer - Special Projects** TELEPHONE NUMBER **215 841-5184**

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

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If you complete EXPECTED SUBMISSION DATE)  NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

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

Abstract: 85-003

On January 5, 1985, with Unit 1 in the startup mode at 3 percent power, a nuclear steam supply shutoff isolation signal resulted in the isolation of the Reactor Water Cleanup (RWCU) cutboard valve. The isolation signal was caused by an inadvertent RWCU high differential flow signal while valving the system return flow transmitter out-of-service for troubleshooting. The isolation signal was cleared and the Reactor Water Cleanup system was returned to service.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)

Limerick Generating Station  
Unit 1

DOCKET NUMBER (2)

0 5 0 0 0 3 5 2

LER NUMBER (6)

YEAR	SEQUENTIAL NUMBER	REVISION NUMBER
85	003	00

PAGE (3)

0 2 OF 0 3

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

Description of the Event:

On January 5, 1985, at 1:15 a.m. with Unit 1 at 3 percent power, a nuclear steam supply shutoff system isolation signal caused the Reactor Water Cleanup system outboard suction valve, HV-44-IF004, to close to the isolated position. The isolation was caused by an inadvertent high differential flow signal from the Reactor Water Cleanup system. After the isolation was reset, the Reactor Water Cleanup system was returned to normal operation.

Consequences of the Event:

The Reactor Water Cleanup system isolated properly upon receiving the high differential flow signal. Reactor water chemistry was not adversely affected due to the short duration of the isolation.

Cause of the Event:

The Reactor Water Cleanup system flow differential logic compares suction flow to return flow plus dump flow with redundant flow transmitters on each line. When one of the two return flow transmitters is valved out-of-service with the corresponding suction flow transmitter valved in service, the Reactor Water Cleanup system will isolate as a result of an inadvertent high differential flow signal.

At the time of the event, instrument and control technicians were testing the Reactor Water Cleanup system return line flow transmitter, FT-44-IN041D. Due to a misunderstanding between the technician and the operator, the return line transmitter was valved out-of-service with the corresponding suction line transmitter valved in-service resulting in the false high differential flow isolation signal.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

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

Corrective Actions:

Instruction letters will be incorporated into the Operator Training Package and Technician Training Package to define the responsibilities of these two plant organizations when work in the plant on instruments and controls that could potentially affect operations.

The letter intended for the Technician Training Package will instruct the technicians to properly inform the plant operator as to what instrument will be maintained and what maintenance is to be performed.

The letter intended for the Operator Training Package will reinforce the importance of operator awareness of technician activity in the plant and potential effects on operating systems. The plant operators will be further instructed that they are responsible for assuring that system configuration during troubleshooting activities is consistent with Technical Specifications and reduce challenges to engineered safety features.

PHILADELPHIA ELECTRIC COMPANY

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P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

February 4, 1985

Docket No. 50-352

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U.S. Nuclear Regulatory Commission  
Washington, DC 20555

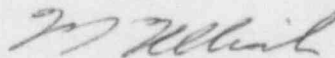
SUBJECT: Licensee Event Report  
Limerick Generating Station - Unit 1

This LER addresses the automatic isolation of the Reactor Water Cleanup system.

Reference: Docket No. 50-352  
Report Number: 85-003  
Revision Number: 00  
Event Date: January 5, 1985  
Report Date: February 4, 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

cc: Dr. Thomas E. Murley, Administrator, Region I, USNRC  
J. T. Wiggins, Senior Site Inspector  
See Service List

IE22  
41

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January 16, 1985

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