

## LICENSEE EVENT REPORT (LER)

APPROVED ONS NO. 3180-0104  
EXPIRES 8/31/85FACILITY NAME (1)  
Limerick Generating Station - Unit 1DOCKET NUMBER (2)  
05000352PAGE (3)  
1 OF 03TITLE (4)  
Nuclear Steam Supply Shutoff System Isolations Due to Blown Fuse

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 NAMES	DOCKET NUMBER(S)
01	16	85	85	0111	0	01	15	85		05000352

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(a)</td><td>20.406(a)</td><td>X</td><td>60.73(a)(2)(iv)</td><td>72.71(a)</td></tr><tr><td>20.406(a)(1)(i)</td><td>60.36(a)(1)</td><td></td><td>60.73(a)(2)(v)</td><td>72.71(a)</td></tr><tr><td>20.406(a)(1)(ii)</td><td>60.36(a)(2)</td><td></td><td>60.73(a)(2)(vi)</td><td></td></tr><tr><td>20.406(a)(1)(iii)</td><td>60.73(a)(2)(i)</td><td></td><td>60.73(a)(2)(vii)(A)</td><td>OTHER (Specify in Abstract below and in Test, NRC Form 366A)</td></tr><tr><td>20.406(a)(1)(iv)</td><td>60.73(a)(2)(ii)</td><td></td><td>60.73(a)(2)(viii)(B)</td><td></td></tr><tr><td>20.406(a)(1)(v)</td><td>60.73(a)(2)(iii)</td><td></td><td>60.73(a)(2)(ix)</td><td></td></tr></table>	20.402(a)	20.406(a)	X	60.73(a)(2)(iv)	72.71(a)	20.406(a)(1)(i)	60.36(a)(1)		60.73(a)(2)(v)	72.71(a)	20.406(a)(1)(ii)	60.36(a)(2)		60.73(a)(2)(vi)		20.406(a)(1)(iii)	60.73(a)(2)(i)		60.73(a)(2)(vii)(A)	OTHER (Specify in Abstract below and in Test, NRC Form 366A)	20.406(a)(1)(iv)	60.73(a)(2)(ii)		60.73(a)(2)(viii)(B)		20.406(a)(1)(v)	60.73(a)(2)(iii)		60.73(a)(2)(ix)	
20.402(a)	20.406(a)	X	60.73(a)(2)(iv)	72.71(a)																											
20.406(a)(1)(i)	60.36(a)(1)		60.73(a)(2)(v)	72.71(a)																											
20.406(a)(1)(ii)	60.36(a)(2)		60.73(a)(2)(vi)																												
20.406(a)(1)(iii)	60.73(a)(2)(i)		60.73(a)(2)(vii)(A)	OTHER (Specify in Abstract below and in Test, NRC Form 366A)																											
20.406(a)(1)(iv)	60.73(a)(2)(ii)		60.73(a)(2)(viii)(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, Engineer - Special ProjectsTELEPHONE NUMBER  
AREA CODE  
215 841-5184

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)				
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

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

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

Abstract: 85-011

On January 16, 1985, during surveillance testing on the Reactor Water Cleanup (RWC) system, a fuse supplying power to the outboard isolation logic relays in the Nuclear Steam Supply Shutoff System (NSSSS) blew resulting in isolation of the Reactor Enclosure HVAC system, the Drywell Chilled Water system, and the Instrument Gas system. An Instrument and Controls (I&C) technician inadvertently caused an electrical short to ground while installing a jumper wire in accordance with the surveillance test. The fuse was replaced and all isolated systems were returned to service.

## 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	LER NUMBER (5)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		85	0 1 1	0 0	0 2	OF	0 3

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

Description of the Event:

On January 16, 1985, at 10:15 p.m., with Unit No. 1 in the startup condition and at 3.7 percent power during surveillance testing on the Reactor Water Cleanup (RWCU) system, a fuse supplying power to the outboard isolation logic relays in the Nuclear Steam Supply Shutoff System (NSSSS) blew resulting in isolation of the Reactor Enclosure Heating, Ventilation & Air Conditioning system, the Drywell Chilled Water system, and the Instrument Gas system. The RWCU system was out-of-service during the time of the occurrence. The fuse was replaced and all isolated systems were returned to service.

Consequences of the Event:

The Nuclear Steam Supply Shutoff System functioned as designed as a result of the blown fuse. There were no adverse effects as a result of the NSSSS isolations.

Cause of the Event:

An Instrument & Controls (I&C) technician inadvertently caused an electrical short to ground while installing a jumper wire in accordance with the surveillance test. The purpose of this jumper is to prevent the initiation of a RWCU system isolation while testing the position of contacts in the isolation logic. Access to the contacts to be jumpered is difficult and therefore contributed to this event.

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 5	0 1 1	0 0	0 3	OF	0 3

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

Corrective Actions:

The blown fuse was replaced and all isolations were reset by 11:00 p.m. As short-term corrective action, the RWCU Differential Flow Functional Tests, ST-2-044-600-1 and ST-2-044-601-1, will be revised to alleviate the need for the installed jumper. The appropriate isolation valve affected by the isolation logic functional testing will be de-energized, as permitted by Technical Specification 3.6.3, during the test so that the isolation signal may be generated without isolating the RWCU valve.

As long-term corrective action, the Engineering and Research Department is pursuing a design modification to alleviate the problem of difficult access to the necessary terminals which is required while performing the surveillance test.

Previous Similar Occurrence:

LER: 85-010

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

February 15, 1985

Docket No. 50-352

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

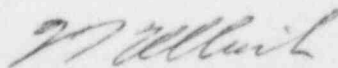
SUBJECT: Licensee Event Report  
Limerick Generating Station - Unit 1

This LER concerns the isolation of various Nuclear Steam Supply Shutoff System subsystems during surveillance testing.

Reference:	Docket No. 50-352
Report Number:	85-011
Revision Number:	00
Event Date:	January 16, 1985
Report Date:	February 15, 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

1E22  
11

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 Zitner  
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.  
Martha W. Bush, Esq.  
Spence W. Perry, Esq.  
Jay M. Gutierrez, Esq.  
Atomic Safety & Licensing Appeal Board  
Atomic Safety & Licensing Board File 1  
Docket & Service Section (3 Copies)  
James Wiggins  
Timothy R. S. Campbell

January 16, 1985