

LICENSEE EVENT REPORT (LER)

APPROVED OMS NO. 3180-0104
EXPIRES 8/31/85

FACILITY 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)

Unplanned Isolation of the Reactor Enclosure HVAC

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	86	86	002	00	02	04	86	0 5 0 0 0					
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)											
4			20.402(a)			20.406(a)			<input checked="" type="checkbox"/> 80.73(a)(2)(i)			73.71(a)		
POWER LEVEL (10)			20.406(a)(1)(i)			80.34(a)(1)			80.73(a)(2)(v)			73.71(a)		
0 0 0			20.406(a)(1)(ii)			80.34(a)(2)			80.73(a)(2)(vi)			OTHER (Specify in Abstract below and in Title, NRC Form 204)		
			20.406(a)(1)(iii)			80.73(a)(2)(ii)			80.73(a)(2)(vii)(A)					
			20.406(a)(1)(iv)			80.73(a)(2)(iii)			80.73(a)(2)(viii)(B)					
			20.406(a)(1)(v)			80.73(a)(2)(iv)			80.73(a)(2)(ix)					
			20.406(a)(1)(vi)			80.73(a)(2)(v)			80.73(a)(2)(x)					

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
John C. Nagle, Senior Engineer, Licensing Section	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

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 three times normal typewriting speed) (16)

Abstract: 86-002

At approximately 0830 hours on January 8, 1986, an unplanned actuation of the Reactor Enclosure Recirculation System (RERS), along with initiation of the Standby Gas Treatment System (SGTS), occurred. During testing of the reactor enclosure exhaust fans, one of the containment atmosphere control valves' handswitches was erroneously left in the 'Auto' position which, in conjunction with the keylock low differential pressure isolation bypass switch in the 'Reset' position, interrupted the reset logic thereby causing a reactor enclosure isolation.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 6	- 0 0 2	- 0 0 0	2	OF	0 3

TEXT (1) more space is required, use additional NRC Form 266A (1/7)

Unit Conditions Prior to the Event:

Mode 4 (Cold Shutdown)
 Reactor Power (Zero Power)
 Maintenance Outage

Description of the Event:

An unplanned actuation of the Reactor Enclosure Recirculation System (RERS) and initiation of the Standby Gas Treatment System (SGTS) occurred during testing of the reactor enclosure exhaust fans. Due to personnel error, the handswitch for one of the containment atmosphere control valves left in the 'Auto' position which, along with the low differential pressure isolation bypass switch in 'Reset' interrupted the reset logic, thereby causing a reactor enclosure isolation.

The EIIS code for this system is VA.

Consequences of the Event:

The unit was not at power and both the SGBT and RERS functioned as designed. Therefore, there were no adverse consequences as a result of this event.

Cause of the Event:

The reactor enclosure exhaust fans were being prepared for testing under low differential pressure conditions to measure the fan motor(s) current. The low differential pressure isolation bypass switches were placed in the 'Reset' position to avoid an automatic reactor enclosure isolation. While being directed by a licensed staff engineer, the licensed operator and the staff engineer failed to recognize that all of the containment atmosphere control valves handswitches should have been placed in 'Close' and one handswitch was left in 'Auto'. The combination of the bypass switches in 'Reset' and the containment atmosphere control valve handswitch in 'Auto', allowed the low differential pressure to initiate a Reactor Enclosure isolation.

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		86	002	00	03	OF	03

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

Corrective Actions:

An information tag was immediately placed near the reset switches to remind operators that the reset logic requires the containment atmosphere control valve handswitches to be in 'Close' position in order to allow the bypass switches to prevent a low differential pressure isolation signal. The personnel performing the test were counseled on the correct operation of the system logic.

Actions Taken to Prevent Recurrence

A permanent information tag will be placed next to the 'Reset' switches in order to remind operators of the Nuclear Steam Supply Shutoff System (NSSSS) reset logic. Further, a procedure will be written and issued for shutdown of the Reactor Enclosure HVAC system.

Previous Similar Occurrences

Reactor enclosure ventilation isolations were reported in the following LERs: 84-014, 84-029, 84-041, 84-045, 85-005, 85-012, 85-018, 85-020, 85-023, 85-041, 85-067 and 85-089.

However, all of these events were of different root causes.

PHILADELPHIA ELECTRIC COMPANY

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(215) 841-4000

February 4, 1986

Docket No. 50-352

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20545


SUBJECT: Licensee Event Report
Limerick Generating Station - Unit 1

This LER concerns an unplanned actuation of the Reactor Enclosure Recirculation and Standby Gas Treatment systems.

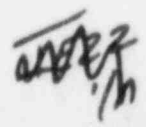
Reference: Docket No. 50-352
Report Number: 86-002
Revision Number: 00
Event Date: January 5, 1986
Report Date: February 4, 1986
Facility: Limerick Generating Station
P.O. Box A, Sanatoga, PA 19464

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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Atomic Safety & Licensing Board Panel
Docket & Service Section (3 Copies)
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Timothy R. S. Campbell

February 4, 1986

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