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Abstract: 85-018

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On January 26, 1985, the 'A' reactor enclosure ventilation isolation system, the reactor enclosure recirculation system and the standby gas treatment system initiated upon receiving an inadvertent reactor enclosure low differential pressure signal. Immediately after the isolation, the low differential pressure signal was reset and the affected systems were returned to normal operation. Approximately 30 minutes after the event, a second similar isolation occurred. Cause of both isolations was failure to isolate a refuel floor differential pressure transmitter from a reactor enclosure differential pressure transmitter (the two transmitters share a common reference leg) prior to troubleshooting the refuel floor instrument loop.

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NRC Form 3664 (5-83)	LICENSE	N	U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EAPIRES \$23105						
FACILITY NAME (1)	Generating	Station	DOCKET NUMBER (2)		LEA NUMBER	16)	PAGE (3)		
Limerick				TEAR	SEQUENT:	AL REVISION		T	
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Description of the Event:

On January 26, 1985, at 4:00 a.m., the 'A' reactor enclosure ventilation isolation system, the reactor enclosure recirculation system, and the standby gas treatment system initiated upon receiving an inadvertent reactor enclosure low differential pressure signal. At 4:33 a.m., on the same date, these systems received a second similar initiation signal. Immediately after each initiation, the low differential pressure signal was reset and all affected systems were returned to normal operation.

Consequences of the Event:

The 'A' reactor enclosure ventilation isolation system, the reactor enclosure recirculation system, and the standby gas treatment system operated properly during each initiation. There were no adverse consequences.

Cause of the Event:

At the time of the event, instrument and controls technicians were troubleshooting a downscale condition on refuel floor differential pressure indicator PDI-76-099A. While attempting to obtain a response on this indicator, the technicians opened the equalizer valve on the transmitter which provides the input signal to PDI-76-099A. The equalizer valve on this transmitter, PDT-76-399A, was opened without isolating the transmitter from the process.

The technicians did not realize that refuel floor differential pressure transmitter PDT-76-399A shares a common outside-air reference leg with reactor enclosure differential pressure transmitter PDT-76-498A. When the equalizer valve was opened on PDT-76-399A, the differential pressure sensed by both transmitters (PDT-76-399A and PDT-76-498A) was reduced to a value that initiated the reactor enclosure isolation systems.

NRC Form 366A (9-83)	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION							
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)						
Limerick Generating Stat	ion	YEAR SEQUENTIAL REVISION NUMBER NUMBER						
Unit 1	0 5 0 0 0 3 5 2	8 5 - 0 1 8 - 0 0 3 OFD 3						

TEXT // more space is required, use additional NRC Form 366.4 s/ (17)

While operators were attempting to identify the cause of the first isolation, a second similar isolation occurred for the same reason.

The operators were aware that technicians were troubleshooting a refuel floor differential pressure instrument loop; however, they were not immediately aware of the interconnection between the refuel floor and reactor enclosure differential pressure transmitters. Therefore, the technicians were not requested to stop their work after the first isolation. After the second isolation, the operators determined that the work being performed by the technicians was the cause of the isolation and requested the technicians to stop their work on the refuel floor instrument loop.

Corrective Actions:

All of the instrument and controls technicians are currently attending an instrument valving training program.

Research and testing procedure RT-11-00467 (procedure for filling, venting and valving instruments) has been drafted and is in the process of being approved.

The technicians involved with this event were counseled as to the consequences of their actions and the importance of observing proper valving techniques.

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

February 25, 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 isolations of the reactor enclosure ventilation system.

Reference:	Docket No. 50-352
Report Number:	85-018
Revision Number:	00
Event Date:	January 26, 1985
Report Date:	February 25, 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,

31 Welland

W. T. Ullrich Superintendent Nuclear Generation Division

IE22

cc: Dr. Thomas E. Murley, Administrator, Region I, USNRC J. T. Wiggins, Senior Site Inspector See Service List 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 Panel Docket & Service Section (3 Copies) James Wiggins Timothy R. S. Campbell

January 16, 1985