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#### Description of the Event:

On January 12, 1985, at 1430 hours (day shift), during performance of surveillance test, ST-2-044-630-1, "NSSSS-RWCU Area Differential Temperature - High; Division I Functional Test", the RWCU inboard suction isolation valve closed. The isolation occurred when I&C Technicians inadvertently deenergized The NSSSS logic while removing a jumper. The deenergization occurred when a wire on the same terminal screw as the jumper momentarily lost contact when technicians were loosening the terminal screw to remove the jumper, causing the isolation relays to actuate. The RWCU isolation was immediately reset and the system was returned to service.

At 2043 hours the same day (afternoon shift), during performance of the same surveillance test, the RWCU inboard suction isolation valve again closed to its isolated position. This isolation occurred for the same reason as the previous isolation. Technicians, while removing a jumper, inadvertently de-energized the NSSSS isolation logic circuitry. The RWCU isolation was reset and the system was returned to service by 2108.

### Consequences of the Event:

On both occasions, the Reactor Water Cleanup system isolated as designed upon de-energization of the isolation relays at 1430 hours and 2043 hours. There were no adverse consequences because the duration of each isolation was not sufficient to adversely affect reactor water chemistry.

#### Cause of the Event:

The design of the panel for the logic circuits of the RWCU Differential Temperature, Area Temperature and Differential Flow makes the installation and removal of jumpers without causing an isolation, for these particular surveillance tests, very difficult. During the removal of two jumpers the isolation circuit de-energized when the wires at the same terminal points lost continuity.

NAC Form 3444 (6-83)	LICENSEE EVENT REP		U.E. NUCLEAR REGULATORY COMMISSION APPROVED DWB NO. 3150-0104 EAPIRES \$/21/85						
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## Corrective Actions:

As an immediate corrective action, a Temporary Procedure Change (TPC) was made to ST-2-044-630-1 on January 12, 1985, to allow for the de-energization of the valve (opening the breaker to the isolation valve), during the surveillance test rather than utilizing jumpers to prevent the RWCU isolations during the simulated trip signals. This change was also made to the NSSSS RWCU area differential temperature and area temperature functional surveillance tests ST-2-044-631-1, ST-2-044-602-1, and ST-2-044-603-1. As an interim measure, this change will be made to the NSSSS RWCU differential flow functional surveillance tests ST-2-044-600-1 and ST-2-044-601-1.

As a long term corrective action, our Engineering and Research Department is pursuing a hardware design modification to accommodate access to panels to eliminate the difficulty encountered while performing surveillance testing of this type.

# PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

February 19, 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 deals with automatic isolations of the Reactor Water Cleanup system.

Reference:	Docket No. 50-352
Report Number:	85-010
Revision Number:	00
Event Date:	January 12, 1985
Report Date:	February 19, 1985
Facility:	Limerick Generating Station P.O. Box A, Sanatoga, PA 19464
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This LER is being submitted pursuant to the requirements of 10 CFR 50.73(a)(2)(iv). We regret the late submission of this LER. The delay in the reporting of this LER was the result of the time required to determine and to initiate an appropriate long term corrective action in response to this event.

Very truly yours,

millent

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

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 Zitzer 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, Esg. 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

1/16/85