

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Limerick Generating Station - Unit 1 DOCKET NUMBER (2) 050103521 OF 02 PAGE (3) 1 OF 02

TITLE (4) Automatic Isolation of the Reactor Water Cleanup System

Table with columns for EVENT DATE (6), LER NUMBER (6), REPORT DATE (7), and OTHER FACILITIES INVOLVED (8). Includes sub-columns for MONTH, DAY, YEAR and FACILITY NAMES, DOCKET NUMBERS.

Table for OPERATING MODE (9) and regulatory requirements (10 CFR 50.402, 50.406, 50.73, 50.72). Includes checkboxes for various codes and a section for OTHER (Specify in Abstract).

LICENSEE CONTACT FOR THIS LER (12) John C. Nagle, Engineer TELEPHONE NUMBER 215841-5184 AREA CODE 215841-5184

Table for COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13). Columns include CAUSE, SYSTEM, COMPONENT, MANUFACTURER, REPORTABLE TO NFRDS.

SUPPLEMENTAL REPORT EXPECTED (14) YES (if yes, complete EXPECTED SUBMISSION DATE) NO EXPECTED SUBMISSION DATE (15)

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

Abstract: 84-034 On December 12, 1984, the reactor water cleanup (RWC) system outboard isolation valve closed to the isolation position upon receiving a signal from the high differential temperature logic circuit of the reactor water cleanup portion of the Nuclear Steam Supply Shutoff System (NSSSS). The isolation signal was unexpectedly generated by setting the Temperature Differential Transmitter Switch TDTS-44-1N602S to the "READ" position. 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 (5)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		84	034	010	02	OF	02

TEXT (if more space is required, use additional NRC Form 364s (17))

Description of the Event:

On December 12, 1984, at 5:20 a.m., prior to initial criticality, the reactor water cleanup system outboard isolation valve, HV-44-1F004 received a signal from the high differential temperature logic circuit of the RWCU portion of NSSSS. HV-44-1F004 closed to the isolation position. After the high differential temperature isolation signal was cleared, the reactor water cleanup system was returned to normal operation at 5:57 a.m., the same morning.

Consequences of the Event:

The reactor water cleanup system isolated properly upon receiving the high differential temperature signal. There were no adverse consequences. In addition, reactor water chemistry, because of the short duration of the isolation, was not adversely affected.

Cause of the Event:

Setting the Temperature Differential Transmitter Switch TDTS-44-1N602S to the "READ" position caused a spurious isolation. A defect in the temperature differential transmitter switch is believed to be responsible for the spurious isolation signal.

Corrective Actions:

Information Tags have been placed on the inboard and outboard RWCU ambient temperature indicating panels in the Auxiliary Equipment Room. These tags state that "Before operating the differential temperature switches, notify the main control room that a RWCU isolation may result." A modification is being pursued to the "READ" circuit which will prevent inadvertent trips when using the "READ" switch on the temperature switch.

cc: Judge Helen F. Hoyt  
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Judge Richard F. Cole  
Judge Christine N. Kohl  
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January 11, 1985

Docket No. 50-352

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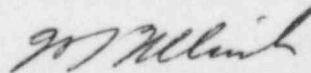
SUBJECT: Licensee Event Report  
Limerick Generating Station - Unit 1

This LER deals with the automatic isolation of the reactor water cleanup system. This event occurred prior to initial criticality.

Reference:	Docket No. 50-352
Report Number:	84-034
Revision Number:	00
Event Date:	December 12, 1984
Report Date:	January 11, 1985
Facility:	Limerick Generating Station P.O. Box A, Sanatoga, PA 19464

This LER is submitted pursuant to the requirements of 10CFR50.73 (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

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