

LICENSEE EVENT REPORT (LER)

APPROVED ONS NO. 3140-0104
EXPIRES - 6/31/85FACILITY NAME (1)
Limerick Generating Station - Unit 1DOCKET NUMBER (2)
0 5 0 0 0 3 5 2 1 OF 0 1 3TITLE (4)
RHR Shutdown Cooling Isolation

EVENT DATE (8)			LER NUMBER (8)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (9)												
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)										
1	1	2	6	8	4	8	4	-	0	1	5	-	do	1	2	2	6	8	4		0 5 0 0 0 1 1

OPERATING MODE (3)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)																														
4	<table border="1"><tr><td>20.402(a)</td><td>20.409(a)</td><td><input checked="" type="checkbox"/></td><td>60.73(a)(2)(iv)</td><td>73.71(a)</td></tr><tr><td>20.406(a)(1)(ii)</td><td>60.34(a)(1)</td><td><input type="checkbox"/></td><td>60.73(a)(2)(v)</td><td>73.71(a)</td></tr><tr><td>20.406(a)(1)(iii)</td><td>60.34(a)(2)</td><td><input type="checkbox"/></td><td>60.73(a)(2)(vi)</td><td>OTHER (Specify in Abstract below and in Test, NRC Form 306A)</td></tr><tr><td>20.406(a)(1)(iv)</td><td>60.73(a)(2)(i)</td><td><input type="checkbox"/></td><td>60.73(a)(2)(vii)(A)</td><td></td></tr><tr><td>20.406(a)(1)(v)</td><td>60.73(a)(2)(ii)</td><td><input type="checkbox"/></td><td>60.73(a)(2)(vii)(B)</td><td></td></tr><tr><td>20.406(a)(1)(vi)</td><td>60.73(a)(2)(iii)</td><td><input type="checkbox"/></td><td>60.73(a)(2)(viii)</td><td></td></tr></table>	20.402(a)	20.409(a)	<input checked="" type="checkbox"/>	60.73(a)(2)(iv)	73.71(a)	20.406(a)(1)(ii)	60.34(a)(1)	<input type="checkbox"/>	60.73(a)(2)(v)	73.71(a)	20.406(a)(1)(iii)	60.34(a)(2)	<input type="checkbox"/>	60.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Test, NRC Form 306A)	20.406(a)(1)(iv)	60.73(a)(2)(i)	<input type="checkbox"/>	60.73(a)(2)(vii)(A)		20.406(a)(1)(v)	60.73(a)(2)(ii)	<input type="checkbox"/>	60.73(a)(2)(vii)(B)		20.406(a)(1)(vi)	60.73(a)(2)(iii)	<input type="checkbox"/>	60.73(a)(2)(viii)	
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20.406(a)(1)(vi)	60.73(a)(2)(iii)	<input type="checkbox"/>	60.73(a)(2)(viii)																												

LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER
NAME	AREA CODE	
B. L. Clark, Senior Engineer-Special Projects	2 1 5	8 4 1 - 5 0 1 4 7

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)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input type="checkbox"/> NO				

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

Abstract: 84-015

On November 26, 1984, the outboard RHR shutdown cooling valves received an isolation signal as the result of surveillance testing. Procedural deficiency was identified as the cause of the occurrence. At the conclusion of the surveillance test, the shutdown cooling mode was restored to operation.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED DWS NO. 3150-0104
EXPIRES 8/31/85

FACILITY NAME (1) Limerick Generating Station Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 5 2 8 4	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	DIVISION NUMBER			
		84	0 1 5	0 0	0 2	OF	0 3

TEXT (if more space is required, use additional NRC Form 368A) (1)

Description of the Event:

On November 26, 1984, at 6:50 a.m., prior to initial criticality, the shutdown cooling outboard injection valves HV-51-1F015 A and B received an isolation signal. HV-51-1F015A isolated to the closed position. HV-51-1F015B was already closed at the time of the event. The 'A' RHR Pump, which was providing reactor heatup to facilitate the reactor vessel hydrostatic test, was taken out of service.

At 7:52 a.m., after shutdown cooling mode of RHR system had been restored, a second isolation occurred. Both isolations involved the same surveillance test.

Consequences of the Event:

The portion of the nuclear steam supply shutoff system that received the isolation signal operated as designed with the exception of the shutdown cooling outboard suction valve which was blocked in the open position during the first isolation as required by the surveillance test. All other valves affected by the isolation system were either isolated at the time of the event or operated to the closed position. There were no adverse consequences due to the isolation, since there was no decay heat being produced at the time of the event.

Cause of the Event:

The cause of the first event was procedural error. Instrument technicians were performing a surveillance test to calibrate a reactor steam dome high pressure isolation instrument. This instrument closes the outboard valves of the shutdown cooling and head spray modes of the RHR system to provide isolation, when the reactor pressure exceeds 75 psig. The surveillance test identified and prevented operation of the shutdown cooling outboard suction valve but failed to identify the shutdown cooling injection valves as isolation valves. Consequently, HV-51-1F015A closed to the isolation position. The head spray outboard isolation valve and the 'B' loop shutdown cooling injection valve were already closed at the time of the event. The second isolation occurred while restoring the reactor steam

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (3)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
Limerick Generating Station Unit 1	0500035284	0	15	0	03	OF 03

TEXT (if more space is required, use additional NRC Form 366A (1))

dome pressure trip unit to service at the conclusion of the surveillance test.

Corrective Actions:

ST-2-042-448-1 (RPS/NSSS - Reactor Steam Dome Pressure High; Division II B, Channel B2/D) is being revised to identify the RHR shutdown cooling injection valves as isolation valves.

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

December 26, 1984

Docket No. 50-352

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U.S. Nuclear Regulatory Commission
Washington, DC 20555

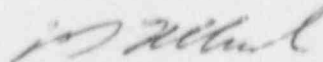
SUBJECT: Licensee Event Report
Limerick Generating Station - Unit 1

This LER deals with the automatic isolation of the RHR shutdown cooling system. This event occurred prior to initial criticality.

Reference:	Docket No. 50-352
Report Number:	84-015
Revision Number:	00
Event Date:	November 26, 1984
Report Date:	December 26, 1984
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

IE22
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