

LICENSEE EVENT REPORT (LER)

APPROVED ONS NO. 3180-0104
EXPIRES - 8/31/93

FACILITY NAME (1)

Limerick Generating Station - Unit 1

DOCKET NUMBER (2)

0 5 0 0 0 3 5 2 1 OF 0 3

PAGE (3)

TITLE (4)

Reactor Enclosure Penetration Seals

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 NAMES	DOCKET NUMBER (8)																
1	1	2	9	8	4	8	4	0	2	2	0	1	0	5	2	8	8	5		0	5	0	0	0	1	1
OPERATING MODE (9)		5		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 50.71 (Check one or more of the following) (11)																						
TOWER LEVEL (10)		01010		20.002 (a)		20.006 (a)		20.736 (2) (u)		73.716 (i)																
				20.006 (a) (1) (b)		20.346 (a) (1)		20.736 (2) (v)		73.716 (i)																
				20.006 (a) (1) (c)		20.366 (a) (2)		20.736 (2) (w)		OTHER (Specify in narrative below and in Title, NRC Form 200-A)																
				20.006 (a) (1) (d)		20.736 (2) (1) (X)		20.736 (2) (x) (A)																		
				20.006 (a) (1) (e)		20.736 (2) (1) (b)		20.736 (2) (1) (B)																		
				20.006 (a) (1) (f)		20.736 (2) (1) (c)		20.736 (2) (1) (a)																		

LICENSEE CONTACT FOR THIS LER (12)

NAME

John C. Nagle, Engineer

TELEPHONE NUMBER

AREA CODE 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
B	K	P		N					

SUPPLEMENTAL REPORT EXPECTED (14)

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

ABSTRACT (Limit to 1000 words, i.e., approximately fifteen single-spaced typewritten lines) (16)

Abstract: 84-022

During fire damper inspection on November 29, 1984, two reactor enclosure fire penetrations were discovered not sealed. The missing seals were identified as a seismic gap fire seal at a fire damper at elevation 201 ft. and a spare conduit penetration in the same area. Fire watches/patrols were established immediately in the affected areas. Additional inspection identified fire penetration seals missing on elevation 217 feet and at elevation 352 feet, in the reactor and control enclosures.

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PDR ADDCK 05000352
S PDR

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 (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Limerick Generating Station Unit 1	0500035284	84	022	010	2	OF	03

TEXT (If more space is required, use additional NRC Form 366A's) (17)

Description of the Event:

During fire damper inspection on November 29, 1984, prior to initial criticality, two reactor enclosure fire penetrations were discovered not sealed. The missing seals were identified as a seismic gap fire seal at a fire damper at elevation 201 feet between the reactor core isolation cooling (RCIC) system pipe chase and RCIC access hatch area; and a spare conduit penetration on the same elevation. Test cables for the power ascension program had been pulled through the conduit. During plant walkdowns, as a result of previous findings, additional penetration seals were discovered missing as follows: a spare conduit penetration where test cables for the power ascension testing program were pulled through the conduit at elevation 217 feet between the Unit 2 turbine enclosure and 13KV switch gear control enclosure; a spare conduit in the reactor enclosure on elevation 352 feet where cable had been pulled to the Unit 2 elevator through a spare conduit and a seismic gap seal under the 253 feet elevation floor slab around two HVAC penetrations.

Consequences of the Event:

Fire barriers provide assurance that, in the event of a fire in any one fire area, a fire will not propagate to other areas and the plant can be safely shutdown. The above deviations were identified with the unit in the shutdown condition prior to initial criticality, and therefore, safety consequences are minimal.

Cause of the Event:

In the case of the seismic gap seals, the cause of the event appears to be failure to re-install the seal after construction activities in the area of the fire dampers. In the case of use of the spare conduits, the cause of the events appear to be the failure of plant personnel to recognize that use of the spare conduit would result in violation of a fire barrier.

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 (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		84	0 2 2	0 1	0 3	OF	0 3

TEXT (If more space is required, use additional NRC Form 366A's) (17)

Corrective Actions:

When the fire penetrations were discovered not sealed a fire watch/patrol was posted in the affected areas within one hour in accordance with Technical Specification requirements. The fire detectors in the areas so equipped were verified operable.

All power ascension program test cables in the Reactor Enclosure and Control Enclosure were walked down and two additional fire barrier violations were identified.

Additional inspection as a result of the initial discovery revealed an unsealed conduit penetration on elevation 352 feet in the reactor enclosure. This conduit penetration contained a power supply cable for the Unit 2 side reactor enclosure elevator. Additional inspection in the control enclosure revealed a missing seal around a spare conduit containing power ascension test cables at elevation 217 feet between the Unit 2 turbine enclosure and 13KV switchgear control enclosure.

All seismic gap fire barriers in the Reactor Enclosure were identified and have been inspected. An additional seismic gap seal missing around two HVAC penetrations under the 253 feet elevation floor slab was identified and replaced. Inspection is completed by January 7, 1985.

The conduit penetration seals have been replaced. The seismic gap fire seal at the fire damper on elevation 201 feet was redesigned and was installed by March 15, 1985. Fire watches/patrols remained in this area until all penetration seals were completed.

By way of letter from the Station Superintendent all affected organizations have been instructed in the Technical Specification requirements regarding the operability of fire barriers and penetration seals.

PHILADELPHIA ELECTRIC COMPANY

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May 28, 1985

Docket No. 50-352

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Washington, DC 20555

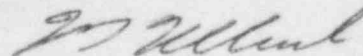
SUBJECT: Licensee Event Report
Limerick Generating Station - Unit 1

This revision of a previously reported LER concerns inoperable fire penetration seals in the reactor enclosure prior to initial criticality. The revisions are indicated by a vertical bar in the margin.

Reference:	Docket No. 50-352
Report Number:	84-022
Revision Number:	01
Event Date:	November 29, 1984
Report Date:	May 28, 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)(i).

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
11

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January 16, 1985