

LICENSEE EVENT REPORT (LER)

APPROVED OMB NO. 3160-0104
EXPIRES - 9/31/95FACILITY NAME (1)
Limerick Generating Station - Unit 1DOCKET NUMBER (2)
0 5 0 0 0 3 5 2 1 OF 0 1 3TITLE (4)
Engineered Safety Feature Actuation-Full Scram Signal

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	0	3	1	8	4	8	4	0	0	2	0 5 0 0 0
1	0	3	1	8	4	8	4	0	0	2	0 5 0 0 0

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)																								
5	<table border="1"><tr><td>20.402(x)</td><td>20.406(x)</td><td><input checked="" type="checkbox"/> 80.73(x)(2)(iv)</td><td>73.71(x)</td></tr><tr><td>20.406(x)(1)(ii)</td><td>80.36(x)(1)</td><td>80.73(x)(2)(v)</td><td>73.71(x)</td></tr><tr><td>20.406(x)(1)(iv)</td><td>80.36(x)(2)</td><td>80.73(x)(2)(vi)</td><td>OTHER (Specify in Abstract below and in Text, NRC Form 364A)</td></tr><tr><td>20.406(x)(1)(iii)</td><td>80.73(x)(2)(i)</td><td>80.73(x)(2)(vii)(A)</td><td></td></tr><tr><td>20.406(x)(1)(iv)</td><td>80.73(x)(2)(ii)</td><td>80.73(x)(2)(vii)(B)</td><td></td></tr><tr><td>20.406(x)(1)(v)</td><td>80.73(x)(2)(iii)</td><td>80.73(x)(2)(ix)</td><td></td></tr></table>	20.402(x)	20.406(x)	<input checked="" type="checkbox"/> 80.73(x)(2)(iv)	73.71(x)	20.406(x)(1)(ii)	80.36(x)(1)	80.73(x)(2)(v)	73.71(x)	20.406(x)(1)(iv)	80.36(x)(2)	80.73(x)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 364A)	20.406(x)(1)(iii)	80.73(x)(2)(i)	80.73(x)(2)(vii)(A)		20.406(x)(1)(iv)	80.73(x)(2)(ii)	80.73(x)(2)(vii)(B)		20.406(x)(1)(v)	80.73(x)(2)(iii)	80.73(x)(2)(ix)	
20.402(x)	20.406(x)	<input checked="" type="checkbox"/> 80.73(x)(2)(iv)	73.71(x)																						
20.406(x)(1)(ii)	80.36(x)(1)	80.73(x)(2)(v)	73.71(x)																						
20.406(x)(1)(iv)	80.36(x)(2)	80.73(x)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 364A)																						
20.406(x)(1)(iii)	80.73(x)(2)(i)	80.73(x)(2)(vii)(A)																							
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20.406(x)(1)(v)	80.73(x)(2)(iii)	80.73(x)(2)(ix)																							

LICENSEE CONTACT FOR THIS LER (12)
NAME
B. L. Clark, Senior Engineer-Special ProjectsTELEPHONE NUMBER
AREA CODE
2 1 5 8 4 4 - 5 0 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		
A	JIC			N							

SUPPLEMENTAL REPORT EXPECTED (14)				EXPECTED SUBMISSION DATE (16)	MONTH	DAY	YEAR
YES (If you complete EXPECTED SUBMISSION DATE)				<input checked="" type="checkbox"/> NO			

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single space typewritten lines) (15)

Abstract: 84-002

On October 31, 1984 at 1:59 p.m. during fuel loading and prior to initial criticality of Unit No. 1, with the reactor at zero percent power level and all control rods fully inserted, a non-coincident full scram occurred accompanied by an audible alarm indicating an upscale trip of the "B" IRM channel. The "B" IRM channel had been bypassed for the preceding two days to repair the detector's cable connector. The "B" IRM channel was taken out of bypass at the end of the second day. The next day the I&C technician, neglecting to check with Shift Supervision, reconnected the cable to its connector. In doing this, a momentary short occurred, giving an upscale trip signal. A full scram resulted since the shorting links for the Neutron Monitoring portion of the RPS logic are removed during fuel loading. The scram signal was reset by 2:20 p.m. The I&C technician was counseled on the importance of communication with Shift Supervision while performing maintenance work.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB 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 (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		-0 1 0 2	-0 1 0	0 2	OF	0 3	

TEXT (if more space is required, use additional NRC Form 366A) (17)

Description of the Event:

On October 31, 1984 at 1:59 p.m. during fuel loading and prior to initial criticality on Unit 1 with the reactor at zero percent power level and all control rods fully inserted, a non-coincident full scram occurred along with an alarm in the control room indicating an upscale trip of the "B" Intermediate Range Monitor (IRM) which is part of the Neutron Monitoring System and supplies input to the Reactor Protection System. Prior to the date of this occurrence, the cable connector for the "B" IRM detector was found to be faulty and a Maintenance Request Form (MRF) had been generated to repair the connector. For the two days immediately preceding the date of this occurrence, an Instrument and Controls (I&C) technician, with permission of Shift Supervision, was working to repair the connector. The "B" IRM channel was bypassed by operations personnel to facilitate the repair work on the cable connector. At the end of the second day of repair on the connector, the operations personnel took the "B" IRM channel out of bypass. On the next day, the full scram signal was received when the I&C technician, neglecting to contact Shift Supervision, reconnected the detector to its cable, and in so doing, inadvertently caused a short. The scram occurred because the shorting links for the Neutron Monitoring System portion of the non-coincident scram channel of RPS are removed to offer protection during fuel load.

Consequences of the Event:

The unit was in the initial fuel loading phase, the reactor was at zero percent power level, and all control rods were fully inserted at the time of the occurrence. Thus, the consequences of this event were minimal.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			

TEXT (If more space is required, use additional NRC Form 368a (17))

Cause of the Event:

This event was caused by personnel error - the failure of the I&C Technician to check with Shift Supervision prior to reconnecting the cable to the detector. The subsequent scram event would not have occurred if the IRM had been bypassed as on the previous two days.

Corrective Actions:

The I&C technician, upon realizing that he had actuated the scram signal, immediately notified Shift Supervision. With the "B" IRM detector connected, the scram signal was reset and fuel loading resumed by 2:20 p.m. on October 31, 1984. The I&C technician was counseled in regard to proper communication with Shift Supervision when performing maintenance work.

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

November 30, 1984

Docket No. 50-352

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Washington, DC 20555

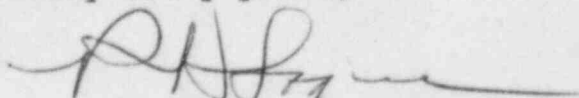
SUBJECT: Licensee Event Report
Limerick Generating Station - Unit 1

This LER concerns the upscale trip of the "B" IRM channel and resultant full scram signal actuation. This event occurred prior to initial criticality.

Reference:	Docket No. 50-352
Report Number:	84-002
Revision Number:	00
Event Date:	October 31, 1984
Report Date:	November 30, 1984
Facility:	Limerick Generating Station P.O. Box A, Sanatoga, PA 19464

This LER is submitted pursuant to the requirements of 10 CFR 50.73(a)(2)(IV).

Very truly yours,



R. H. Logue
Superintendent
Nuclear Services
Nuclear Generation Division

cc: Dr. Thomas E. Murley, Administrator
Region I, USNRC

See Service List

TE22
1/1

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