

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Fermi 2 DOCKET NUMBER (2) 0 5 0 0 0 3 4 1 1 OF 0 2 PAGE (3)

TITLE (4) APRM Scrams

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(S)
0	4	27	85	85	010	0	0	52	88	5	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		20.402(b)		20.405(c)	X	50.73(a)(2)(iv)		73.71(a)			
POWER LEVEL (10)	0 0 0	20.405(a)(1)(i)		50.36(c)(1)		50.73(a)(2)(v)		73.71(e)			
		20.405(a)(1)(ii)		50.36(c)(2)		50.73(a)(2)(vii)		OTHER (Specify in Abstract below and in Text, NRC Form 388A)			
		20.405(a)(1)(iii)		50.73(a)(2)(i)		50.73(a)(2)(viii)(A)					
		20.405(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)					
		20.405(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(ix)					

LICENSEE CONTACT FOR THIS LER (12)  
NAME A.E. Wegele, Compliance Engineer TELEPHONE NUMBER 3 1 3 5 8 6 - 5 3 1 3  
AREA CODE

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)											
CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPDOS		
X	I	G	C	O	N	A	3	8	0	N	

SUPPLEMENTAL REPORT EXPECTED (14)  
YES (If yes, complete EXPECTED SUBMISSION DATE) X NO  
EXPECTED SUBMISSION DATE (15)  
MONTH DAY YEAR

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

On April 27, 1985, at 0844 hours while in Operational Condition 5, an RPS trip occurred caused by an APRM "E" upscale trip. Within a few seconds of resetting the trip, a second trip occurred from the same cause. After resetting the second trip, a third was caused by a Scram Discharge Volume high water level signal. When marking the events on the APRM chart recorder paper, another RPS trip was caused by the recorder door striking the "B" backup manual scram pushbutton. An operator sent to reset the "B" manual scram breaker reset both "A" and "B" resulting in numerous isolations and actuations.

The recorder door has been modified; all operators will be cautioned to ensure proper communication procedures are followed and the LPRM cables which caused the spurious APRM signals are being repaired.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

FACILITY NAME (1)  Fermi 2	DOCKET NUMBER (2)  0 5 0 0 0 3 4 1 8 5 - 0 1 0 - 0 0 0 2	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
					OF	

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

On April 27, 1985, at 0844 hours, an APRM "E" upscale trip occurred. The plant was in Operational Condition 5 with control rod friction testing in progress and the RPS shorting links removed. Because of the non-coincident logic, the APRM upscale signal caused an RPS trip. Control rod 38-03, which was partially withdrawn, fully inserted. The control room operator reset the RPS trip at 0845 hours. Within a few seconds of resetting the trip, another APRM "E" upscale signal caused a second RPS trip. At 0846 hours the control room operator reset the second RPS trip. At 0847 hours an RPS trip signal was generated from the Scram Discharge Volume High Water Level instrumentation as a result of the water volume which had entered the SDV from the RPS trips. The operator then bypassed the high water level signal and reset the RPS trip.

At 0853 hours while the operator was marking the APRM chart recorder paper, the recorder door struck the "B" backup manual scram pushbutton resulting in an RPS trip. An operator was dispatched to the third floor of the Auxiliary Building room to reset the backup manual scram breaker. Because of a misunderstanding, the operator reset both the "A" and "B" backup manual scram breakers. This action resulted in the following isolations: Reactor Water Cleanup (Groups 10 and 11); Drywell Sumps (Group 13); Recirculation Pump Seal Purge (Group 17); Containment Pneumatic Supply (Group 18); Reactor Building Sumps. In addition, Division I Standby Gas Treatment System auto started, Division I and II Control Air Compressors auto started and both divisions of the Control Center HVAC switched to the recirculation mode. These isolations and actuations occurred as designed.

The scram and isolations were reset after confirming that the recorder door was in fact responsible for the actuation of the backup manual scram pushbutton.

Post event investigation revealed that two LPRM cables which feed APRM "E" were not connected and two had been pulled out of the connector. Two other LPRM connectors were also damaged. It is believed that the damage occurred as a result of extensive activity under the vessel in the several previous weeks while refurbishing control rod drives. Under-vessel activity had also been in progress when the APRM upscale trips were received and probably caused the spurious signals because of the damaged connectors and exposed conductors.

Corrective actions taken or planned are as follows: the LPRM cables and connectors are being repaired; the chart recorder door has been modified to prevent it from striking the backup manual scram pushbutton; this LER will be placed on the required reading list for all licensed and non-licensed operators and all operators will be cautioned to pay more attention to proper communication.

**Detroit  
Edison**

2000 Second Avenue  
Detroit, Michigan 48226  
(313) 237-8000

May 28, 1985  
NP-85-573

050-341

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

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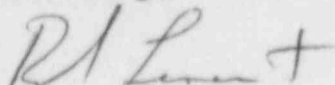
Reference: Fermi 2  
NRC Operating License No. NPF-33

Subject: Transmittal of Licensee Event Report  
No. 85-010

Please find enclosed LER No.85-010-00, dated May 28, 1985, for a reportable event which occurred on April 27, 1985. As indicated below, a copy of this LER is being sent to the Region III office.

If you have any questions, please contact us.

Sincerely,



R. S. Lenart  
Superintendent  
Nuclear Production

Enclosure: NRC Forms 366, 366A

cc: Mr. P.M. Byron  
Mr. M.D. Lynch

Regional Administrator  
USNRC Region III  
799 Roosevelt Rd.  
Glen Ellyn, IL 60137

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