

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) 1 OF 0 2			
TITLE (4) HPCI Isolation																							
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	8	2	8	8	5	8	5	0	5	5	0	0	0	9	2	7	8	5	0 5 0 0 0				
OPERATING MODE (9)		2		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)																			
POWER LEVEL (10)		0 0 3		20.402(b)		20.406(c)		X		80.73(a)(2)(iv)		73.71(b)											
				20.406(a)(1)(i)		80.38(a)(1)				80.73(a)(2)(v)		73.71(c)											
				20.406(a)(1)(ii)		80.38(a)(2)				80.73(a)(2)(vi)		OTHER (Specify in Abstract below and in Text, NRC Form 366A)											
				20.406(a)(1)(iii)		80.73(a)(2)(i)				80.73(a)(2)(vii)(A)													
				20.406(a)(1)(iv)		80.73(a)(2)(ii)				80.73(a)(2)(vii)(B)													
				20.406(a)(1)(v)		80.73(a)(2)(iii)				80.73(a)(2)(a)													
LICENSEE CONTACT FOR THIS LER (12)																							
NAME L.P. Bregni, Compliance Engineer										TELEPHONE NUMBER AREA CODE 3 1 3 5 8 6 - 5 3 1 3													
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																							
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs													
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR							
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input checked="" type="checkbox"/> NO											

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

On August 28, 1985, with the plant in Operational Condition 2 and reactor power at 3.2 percent, the High Pressure Coolant Injection (HPCI) system isolation logic train "A" tripped at 2257 hours. The HPCI steam supply inboard isolation valve E41-F002 closed on receipt of the isolation signal. The HPCI pump suction inboard isolation valve E41-F042 received a close signal but was already closed. Actuation of the HPCI primary containment isolation logic is a reportable ESF actuation. Troubleshooting revealed that HPCI differential pressure transmitter E41-N057A was providing an incorrect (low) output current. The incorrect output was caused by a poor connection between the amplifier card and the pins into which it plugs. It is believed that the board may have been installed incompletely seated or may have worked loose since initial installation. Immediate corrective action was to reseal the amplifier board securely. This type of problem has not been found on other instruments to date. This occurrence is considered isolated and no further corrective action is planned. The consequences of this event were minimal and would have been similar if the plant had been operating at full power.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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			
Fermi-2	0 5 0 0 0 3 4 1	8 5	— 0 5 5	— 0 0	0 2	OF	0 2

TEXT (If more space is required, use additional NRC Form 365A's) (17)

On August 28, 1985, with the plant in Operational Condition 2 and reactor power at 3.2 percent, the High Pressure Coolant Injection (HPCI) system isolation logic train "A" tripped at 2257 hours. The HPCI steam supply inboard isolation valve E41-F002 closed on receipt of the isolation signal. The HPCI pump suction inboard isolation valve E41-F042 received a close signal but was already closed. Actuation of the HPCI primary containment isolation logic is a reportable ESF actuation.

Trip units E41-N657A and E41-N660A which initiate an isolation on HPCI high steam flow had failed downscale. The "Gross Failure" indication had sealed in and could not be cleared. The gross failure indication is present when the instrument loop current is abnormally high or low. HPCI was declared inoperable. Troubleshooting at 0600 hours on August 29 revealed that HPCI differential pressure transmitter E41-N057A was providing an incorrect (low) output current. The incorrect output was caused by a poor connection between the amplifier card and the pins into which it plugs. The board can make contact with these pins even though the board is not properly seated.

Immediate corrective action was to reseat the amplifier board securely. A review of the equipment history file revealed no previous work on this equipment which might have required removing the amplifier board. From this it is believed that the board may have been installed incompletely seated or may have worked loose since initial installation. If so, prior testing would not necessarily have revealed the poor connection. If the poor connection found in this event caused only intermittent failures, it would be very hard to detect during routine testing.

The consequences of this event were minimal and would have been similar if the plant had been operating at full power. All other Emergency Core Cooling Systems and the Reactor Core Isolation Cooling system were operable at the time.

This type of problem has not been found on other instruments to date. Therefore, this occurrence is considered isolated and no further corrective action is planned.

**Detroit
Edison**

Robert S. Lenart
Plant Manager

Fermi-2
6400 North Dixie Highway
Newport, Michigan 48166
(313) 586-5201

September 27, 1985
NP850104



Nuclear
Operations

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

Gentlemen:

Reference: Fermi 2
NRC Docket No. 50-341
NRC Operating License No. NPF-43

Subject: Transmittal of Licensee
Event Report 85-055

Please find enclosed LER No. 85-055-00, dated September 27, 1985, for a reportable event which occurred on August 28, 1985. As indicated below, a copy of this LER is being sent to the Administrator Region III.

If you have any questions, please contact us.

Sincerely,

R. S. Lenart
Plant Manager

Enclosure: NRC Forms 366, 366A

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

Regional Administrator
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Director/Coordinator
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