

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Fermi 2	DOCKET NUMBER (2) 050003411	PAGE (3) 1 OF 03
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TITLE (4) Control Center Heating Ventilating and Air Conditioning Shifts to Recirculation Mode Because of Loss of Control Power

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	8	8	8	0	5	27	N/A		050003411
0	4	27	8	8	8	0	5	27	N/A		050003411

OPERATING MODE (9) 4

POWER LEVEL (10) 000

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)

20.402(b)	20.405(c)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	73.71(b)
20.405(a)(1)(i)	50.38(e)(1)	<input type="checkbox"/>	50.73(a)(2)(v)	73.71(c)
20.405(a)(1)(ii)	50.38(e)(2)	<input type="checkbox"/>	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
20.405(a)(1)(iii)	50.73(a)(2)(i)	<input type="checkbox"/>	50.73(a)(2)(viii)(A)	
20.405(a)(1)(iv)	50.73(a)(2)(ii)	<input type="checkbox"/>	50.73(a)(2)(viii)(B)	
20.405(a)(1)(v)	50.73(a)(2)(iii)	<input type="checkbox"/>	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME Patricia Anthony, Compliance Engineer	TELEPHONE NUMBER 313586-1617
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS
X	VII	ILL	G080	N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)  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, 1988, the Division II Control Center Heating Ventilation and Air Conditioning System (CCHVAC) shifted to recirculation mode due to de-energization of the local panel. This was caused by a short in the panel when an operator attempted to remove a burned out indicator lamp on the panel. The indicator lamp was loose at its base and apparently the filaments leads contacted upon being rotated.

The burned out indicator lamp and the opened fuse were replaced. Division II CCHVAC was returned to normal mode of operation in 96 minutes.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)  Fermi 2	DOCKET NUMBER (2)  0500034188	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		88	0117	00	02	CF	03

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

Initial Plant Conditions:

Operational Condition: 4 (Cold Shutdown)  
 Reactor Power: 0%  
 Reactor Pressure: 0 psig  
 Reactor Temperature: 150 degrees Fahrenheit

Description of Event:

On April 27, 1988, an operator performing his rounds in the Division II Control Center Heating Ventilation and Air Conditioning System (CCHVAC) (VI) noted there was no indication for the T41-F036 damper (DMP) at the local panel, H21-P296B. He checked the indicating lamp's condition and found that it was burned out.

While removing the indicator lamp, the lamp momentarily flashed on. Then the local panel lost indication. Concurrently, the main control room high radiation alarm was received and the main control room Division II CCHVAC damper position indication was lost. The Division II CCHVAC shifted to recirculation mode at 0929 hours.

Upon investigating the problem, an opened fuse was found in the power supply circuit for H21-P296B. The fuse was replaced and Division II of CCHVAC was restored to its normal operating mode at 1105 hours.

Cause of Event:

The indicator lamp is replaced by removing a threaded lens holder and then unscrewing the lamp. The indicator was inspected to ensure that the indicator housing was securely tightened and was not free to rotate such that a short could occur. The assembly was found to be secure.

The loss of indication at the panel occurred while the operator was unscrewing the lamp. Inspection of the lamp revealed that the glass was loose from the screw base. Twisting the lamp apparently caused a momentary short when the filament leads came in contact with each other.

The indicating circuit is powered from a non-class 1E source. This source also picks up a normally energized control relay used in the mode control circuit for the Division II CCHVAC. Upon de-energization, this fail safe circuit initiates an alarm and automatically shifts the CCHVAC to recirculation mode.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

Analysis of Event:

The purpose of the CCHVAC is to ensure control center envelope habitability under all plant operating conditions. The failure of the indicating lamp and the subsequent de-energization of the local panel did not inhibit the required operation of the system. Therefore, no reduction in the health and safety of the public or plant personnel.

Corrective Action:

The burned out indicator lamp and the opened fuse were both replaced. Then the Division II CCHVAC was returned to its normal mode of operation. No other corrective actions were deemed necessary because of the unique circumstances of this failure.

Previous Similar Occurrences:

This event is considered to be unique. No similar events have been identified at Fermi 2.

Failed Component Data:

The indicating lamp is a standard commercially available 6 watt 125 vac incandescent type lamp with a candelabra screw base made by General Electric (6S6-125 v)

Detroit  
Edison

William S. Orser  
Vice President  
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Newport, Michigan 48166  
(313) 586-5300

10CFR50.73



Nuclear  
Operations

May 27, 1988  
NRC-88-0129

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

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

Subject: Licensee Event Report (LER) No. 88-017-00

Please find enclosed LER No. 88-017-00, dated May 27, 1988, for a reportable event that occurred on April 27, 1988. A copy of this LER is also being sent to the Regional Administrator, USNRC Region III.

If you have any questions, please contact Patricia Anthony at (313) 586-1617.

Sincerely,

Enclosure: NRC Forms 366, 366A

cc: A. B. Davis  
J. R. Eckert  
R. C. Knop  
T. R. Quay  
W. G. Rogers

Wayne County Emergency  
Management Division

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