

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)

Loss of System Service 64 Transformer

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	3	85	85	002	0	0	4	26	85		0 5 0 0 0
THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)											
OPERATING MODE (9)		5		20.402(b)		20.405(c)		<input checked="" type="checkbox"/> 50.73(a)(2)(iv)		73.71(b)	
POWER LEVEL (10)		0 0 0		20.405(a)(1)(i)		50.36(c)(1)		<input type="checkbox"/> 50.73(a)(2)(v)		73.71(c)	
				20.405(a)(1)(ii)		50.36(c)(2)		<input type="checkbox"/> 50.73(a)(2)(vii)		OTHER (Specify in Abstract below and in Text, NRC Form 365A)	
				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

A.E. Wegele, 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	MANUFAC. TURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFAC. TURER	REPORTABLE TO NPROS

SUPPLEMENTAL REPORT EXPECTED (14)

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

MONTH	DAY	YEAR

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

At 0645 on 03/31/85, while in Operational Condition 5 with no core alterations in progress, breaker D on Bus # 11 automatically opened. This interrupted power to System Service Transformer # 64 (SS 64) which supplies power to Division I. The Reactor Water Cleanup System isolated and power was lost to the Reactor Building HVAC, Control Center HVAC and Division I of the RPS Motor Generator Set because the Division I Emergency Diesel Generators were unavailable. Tie breakers were used to restore power from Division II. HVAC systems and isolations were reset.

The cause of the event was determined to be a ground fault at the A6 breaker (an alternate feed to SS 64) caused by water entering the switchgear cabinet through a defective seal. The duct leak was repaired with a temporary seal. More permanent corrective repairs will be made in a future Division I outage.

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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 0 2 - 0 0 0 2 OF 0 2	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		

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

At 0645 hours on 03/31/85, while in Operational Condition 5 with no core alterations in progress, breaker D on Bus # 11 automatically opened. This interrupted 13.8 KV power to System Service Transformer # 64 (SS 64) which supplies power to Division I. The loss of power caused a half scram signal (since Reactor Protection System (RPS) shorting links were installed), and the Reactor Water Cleanup System to isolate (isolation valve groups 10 and 11). Power to the Reactor Building HVAC, Control Center HVAC and Division I of the RPS Motor Generator Set was lost because Emergency Diesel Generators 11 and 12 were unavailable. The operator reenergized Bus 64C and Bus 72B using tie breakers, reset isolations, restarted HVAC systems, restarted the RPS Motor Generator Set and reset the half scram. Division II systems remained unaffected throughout the event and were available to perform their intended function. A similar event occurred on 03/28/85, (see LER 85-001).

While trouble shooting the event, plant maintenance personnel observed a target relay indication that breaker D had opened because of a ground fault. When tagging the A6 breaker position to allow testing of the cable feeding SS 64, water was observed inside the switchgear cabinet. Further testing confirmed that the water had caused a ground fault condition at breaker A6 which caused arcing and some damage of a heater circuit inside the cabinet. A heavy rain storm with strong winds had occurred the previous night. It was concluded that water had entered the switchgear cabinet through a defective seal in a duct directly above the switchgear cabinet. This duct houses the power feeds from Combustion Turbine Generator (CTG) # 11 transformer to the cabinet.

The heater circuit was repaired, the A6 breaker was replaced and the duct leak was repaired with a temporary seal. During a future outage of Division I, the duct and switchgear will be thoroughly inspected and necessary repairs made to ensure a permanent seal. Other switchyard equipment will be inspected and repaired as necessary. A periodic maintenance schedule will be established to identify and correct equipment degradation.



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

April 26, 1985
NP-85-407

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

Gentlemen:

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

Subject: Transmittal of Licensee Event Report No. 85-002

Please find enclosed LER No. 85-002-00 dated 04/26/85, for a reportable event which occurred on 03/31/85. 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: Regional Administrator
USNRC Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Mr. P.M. Byron

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bcc: Approval Control

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