

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
LaSalle County Station Unit 1DOCKET NUMBER (2)
0 5 0 0 0 3 7 3PAGE (3)
1 OF 0 3TITLE (4)
OB Diesel Fire Pump FlywheelEVENT DATE (5)
MONTH DAY YEAR
0 6 1 9 8 4 8 4
LER NUMBER (6)
YEAR SEQUENTIAL NUMBER REVISION NUMBER
8 4 - 0 3 5 - 0 0 0 7 1 6 8 4
REPORT DATE (7)
MONTH DAY YEAR
0 6 1 9 8 4 8 4
OTHER FACILITIES INVOLVED (8)
FACILITY NAMES DOCKET NUMBER(S)
LaSalle County Unit 2 0 5 0 0 0 3 7 4
0 5 0 0 0THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)
OPERATING MODE (9) 1
POWER LEVEL (10) 0.97
20.402(b) 20.405(c) 50.73(a)(2)(iv) 73.71(b)
20.405(a)(1)(i) 50.36(a)(1) 50.73(a)(2)(v) 73.71(c)
20.405(a)(1)(ii) 50.36(a)(2) 50.73(a)(2)(vi) X OTHER (Specify in Abstract below and in Text, NRC Form 356A)
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)
VoluntaryLICENSEE CONTACT FOR THIS LER (12)
NAME TELEPHONE NUMBER
James H. Foster, extension 324 811 531 571-6 17 6 11
AREA CODECOMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)
CAUSE SYSTEM COMPONENT MANUFACTURER REPORTABLE TO NPDOS
X K P E N G C 7 4 2 NSUPPLEMENTAL 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 June 19, 1984, at approximately 1500 while inspecting the OB Diesel Fire Pump flywheel by Surface Penetrant Testing (PT) methods, cracks were discovered on the engine side of the flywheel.

At the time of the occurrence, Unit 1 and Unit 2 were operating in Condition 1 at approximately 97% and 30% power respectively.

The cause of the flywheel cracks is currently unknown but is under investigation by LaSalle County Station personnel and the manufacturer (Cummins Engine Company, Inc.).

A new engine flywheel (Part #3023676) was installed after being inspected by the Surface Penetrant Test method and no cracks were found. The OB Diesel Fire Pump was tested and returned to service 6/20/84 at approximately 1100.

This event is being submitted as a voluntary LER due to NRC interest in this area.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
LaSalle County Station Unit 1	0-5000373	84	035	0	0	2	OF 03

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

I. EVENT DESCRIPTION

On June 19, 1984 at approximately 1500 while inspecting the OB Diesel Fire Pump flywheel by surface Penetrant Testing (PT) methods, cracks were discovered on the engine side of the flywheel.

II. CAUSE

At the time of the occurrence Unit 1 was operating in Condition 1 at approximately 97% power and Unit 2 was operating in Condition 1 at approximately 30% power. The OB Diesel Fire Pump (KP) was out of service for an inspection and the OA Diesel Fire Pump was lined up to start automatically and supply fire protection water if needed.

The cause of the flywheel cracks is still unknown but is currently under investigation by LaSalle County Station personnel and the manufacturer (Cummins Engine Company, Inc.) (tracked by AIR 1-83-35306).

The diesel engine flywheel was manufactured by Cummins Engine Company, Inc. and the part number is 3023676. The engine model is NT-855-F2.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

There are no probable consequences of this occurrence because even though the flywheel was found to be cracked, it had performed satisfactorily one week previously when the diesel fire pump was tested in its weekly one-half hour run.

IV. CORRECTIVE ACTION

A new engine flywheel (part #3023676) was installed after being inspected by the Surface Penetrant Testing method and no cracks were found. The OB Diesel Fire Pump was tested and returned to service 6/20/84 at approximately 1100.

After discussions between LaSalle County Station personnel and NRC metallurgist, John Jacobson, it was decided that the engine flywheel would be inspected after approximately 50 service hours of engine operation.

This inspection would consist of a Surface Penetrant Test of the engine side of the diesel fire pump flywheels for signs of cracking.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1) LaSalle County Station Unit 1	DOCKET NUMBER (2) 0500037384	LER NUMBER (6)			PAGE (3)	
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		84	035	010	013 OF	013

TEXT (If more space is required, use additional NRC Form 308A's) (17)

V. PREVIOUS EVENTS

The flywheel on the 0B diesel fire pump was found to be cracked previously on December 12, 1983. At that time a new, inspected Cummins Engine Company flywheel (part #3023676) was installed. The cracked flywheel was sent to Cummins Engine Co., Inc. Service Department for examination and we are waiting for their findings. At that time, it was decided between LaSalle County Station personnel and the NRC Resident Inspector that the engine flywheels should be inspected for cracks every 3 months until the cause of the flywheel cracking is discovered and corrected.

Also the 0A DFP had cracked a previous flywheel on December 27, 1983, in basically the same place as the 0B DFP. The 0A DFP has been repaired and is currently operable.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

J. H. Foster, (815)357-6761, extension 324.



Commonwealth Edison
LaSalle County Nuclear Station
Rural Route #1, Box 220
Marseilles, Illinois 61341
Telephone 815/357-6761

July 16, 1984

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

Dear Sir:

Reportable Occurrence Report #84-035-00, Docket #050-373 is being submitted to your office in accordance with 10 CFR 50.73.

R.D. Bishop
for G. J. Diederich
Superintendent
LaSalle County Station

GJD/MLD/kg

Enclosure

xc: NRC, Regional Director
INPO-Records Center
File/NRC

IE-22
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