

Maine Yankee

RELIABLE ELECTRICITY FOR MAINE SINCE 1922

EDISON DRIVE • AUGUSTA, MAINE 04336 • (207) 622-4868

10 CFR 50.73

January 7, 1991
MN-91-07

SEN-91-09

UNITED STATES NUCLEAR REGULATORY COMMISSION
Attention: Document Control Desk
Washington, D. C. 20555

References: (a) License No. DPR-36 (Docket No. 50-309)

Subject: Maine Yankee Licensee Event Report 90-10-00 - Diesel Fire Pump Inoperable

Gentlemen:

Please find enclosed Maine Yankee Licensee Event Report 90-010-00. This report is submitted as a special report in accordance with Maine Yankee Technical Specification 3.23.B.

Please contact us should you have any questions regarding this matter.

Very truly yours,

SENichols

S. E. Nichols, Manager
Nuclear Engineering & Licensing

SEN/sjj

Enclosure

c: Mr. Thomas T. Martin
Mr. E. H. Trottier
Mr. Charles S. Marschall
Mr. Patrick J. Dostie

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LICENSEE EVENT REPORT (LER)

Facility Name(1) Maine Yankee Atomic Power Company	Docket Number(2) 0 5 10 10 10 3 10 19 1 of 2	Page(3)
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Title(4)
Diesel Fire Pump Inoperable

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)
11	11	90	90	- 1 0 1	- 0 0	0 1	0 7	9 1		

This Report is Submitted Pursuant to the Requirements of 10 CFR § (Check one or more of the following) (11)

Operating Mode (9) 7	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
Power Level (10) 1 0 0	20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
	20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	<input checked="" type="checkbox"/> Other (Specify in Abstract below and in Text, NRC Form 366A)
	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)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME Ethan Brand, Nuclear Safety Engineer	Telephone Number Area Code 2 0 7 8 8 12 6 3 2 1
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

Cause	System	Com-ponent	Manufac-turer	Reportable to NPRDS	Cause	System	Com-ponent	Manufac-turer	Reportable to NPRDS

Supplemental Report Expected (14)

(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 November 11, 1990, a weekly test run of the diesel fire pump was conducted in accordance with plant procedures. The test consists of a manual start of the fire pump. During the test run, it was noted that the Panalarm for the diesel fire pump running did not function, and was referred for repair. The weekly test run was completed satisfactorily, and the diesel fire pump was considered operable. On November 19, 1990, work on the Panalarm discovered that the fire pump generator was failed, causing the Panalarm to fail. Further investigation revealed that the failed generator would cause the diesel fire pump to automatically shutdown 120 seconds after an autostart (but not a manual start).

The generator was repaired on November 21, 1990, and return to service.

Due to the failure of the diesel fire pump generator, the fire pump was assumed to be inoperable as of November 11, 1990. The Technical Specification remedial action for an inoperable fire pump allows up to seven days for repair, or a Special Report must be submitted to the NRC within 30 days. The fire pump was inoperable for 10 days. Therefore, this report is submitted in accordance with the requirements of Maine Yankee Technical Specification 3.23.B.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

Facility Name(1)	Docket Number(2)	LER Number (6)			Page(3)
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TEXT (If more space is required, use additional NRC Form 366A's) (17)

On November 11, 1990, a weekly test run of the diesel fire pump was conducted in accordance with plant procedures. The test consists of a manual start of the fire pump. During the test run, it was noted that the Control Room Panalarm for the diesel fire pump running did not function, and was referred for repair. The weekly diesel test run was completed satisfactorily. Failure of the Panalarm was not considered to be a fire pump operability concern at that time, therefore, the Panalarm repair was not immediately started. On November 19, 1990, work began on the Panalarm problem. During troubleshooting of the alarm circuitry, a failure of the diesel fire pump's generator was discovered. Further investigation revealed that with the generator failed, the fire pump would not stay running when automatically started. Circuitry in the fire pump controls would automatically shutdown the diesel after ten seconds if normal generator voltage was not sensed. If the autostart signal was still present, the diesel would autostart, and repeat the cycle for up to 2 minutes and then stop. The fire pump was, therefore, declared inoperable.

The diesel fire pump generator is installed to provide electrical power for battery charging when the diesel is running. It was established that low voltage from the diesel's generator was causing the Panalarm's failure. The weekly test run of the diesel fire pump conducted on November 11 consisted of a manual start, and in this mode, the control circuitry does not shut down the engine.

On November 21, 1990, the diesel fire pump generator was repaired. Fire pump testing, including autostart testing, was successfully performed. The diesel fire pump was declared operable.

The remedial action statement for Technical Specification 3.23 allows up to seven days with one fire pump out of service, or a Special Report must be submitted to the NRC within 30 days. Since the fire pump was inoperable for 10 days, this Special Report is being submitted to comply with the remedial action.

During the 10 days that the fire pump was inoperable, the electric fire pump was available at all times.

Plant procedures are being revised to alert operators that failure of the diesel fire pump Control Room annunciator may affect fire pump operability. These procedure changes will be completed by February 28, 1991.