

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
McGuire Nuclear Station, Unit 1DOCKET NUMBER (2)
0 5 0 0 0 3 6 9 1 OF 0 2

TITLE (4)

Diesel Generator 1A Automatic start due to a failed diode

EVENT DATE (6)			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)	
03	29	84	84	011	00	04	30	84			0 5 0 0 0 1	
												0 5 0 0 0 1

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)										
6	20.402(b)			20.406(c)			<input checked="" type="checkbox"/> 50.73(a)(2)(iv)			73.71(b)	
POWER LEVEL (10) 0 0 0	20.406(a)(1)(i)			50.38(c)(1)			50.73(a)(2)(v)			73.71(c)	
	20.406(a)(1)(ii)			50.38(c)(2)			50.73(a)(2)(vii)			OTHER (Specify in Abstract below and in Text, NRC Form 365A)	
	20.406(a)(1)(iii)			50.73(a)(2)(i)			50.73(a)(2)(viii)(A)				
	20.406(a)(1)(iv)			50.73(a)(2)(ii)			50.73(a)(2)(viii)(B)				
	20.406(a)(1)(v)			50.73(a)(2)(iii)			50.73(a)(2)(ix)				

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
Phillip B. Nardoci, Licensing Engineer	AREA CODE 710 4 373 - 743 2

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14)

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

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

Diesel Generator (D/G) 1A experienced an invalid automatic start on March 29, 1984 at 0401 when a diode shorted in a temporary trip monitor device, generating a start signal. The trip monitor device had been temporarily installed in the control circuit of the D/G to preclude any spurious, non-emergency trips during Engineered Safety Features testing.

Unit 1 was in a refueling outage with all fuel removed from the reactor at the time of this occurrence. This event is attributed to Component Failure due to the diode in the trip monitor device failing.

The D/G was shutdown after operating for approximately 36 minutes. The D/G performed as designed during this incident and would have subsequently loaded had this been a valid test. The trip monitor device will either be modified prior to future use or not used. The health and safety of the public were unaffected.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

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			
McGuire Nuclear Station, Unit 1	0500036984	0	11	00	02	OF	02

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

Diesel Generator (D/G) [EIIS:GEN] 1A experienced an invalid automatic start on March 29, 1984 at 0401 when a diode shorted in a temporary trip monitor device, generating a start signal. The trip monitor device had been temporarily installed in the control circuit of the D/G to preclude any spurious, non-emergency trips during Engineered Safety Features [EIIS:EK] testing.

Unit 1 was in a refueling outage with all fuel removed from the reactor at the time of this occurrence. This event is attributed to Component Failure due to the diode in the trip monitor device failing.

The trip monitor device was temporarily installed (on March 28, 1984) in the D/G 1A control circuit (with the D/G control power breaker open) prior to 24 hour operation for ESF testing. The monitor device places a 1.0 second time delay on all trips except low lube oil pressure, lockout, D/G underspeed (95%), and emergency stop (i.e. non-emergency trips), and indicated non-emergency trip signals which last longer than 0.5 seconds.

Approximately six minutes after the control power breaker [EIIS:BRK] was closed supplying power to the control circuit of D/G 1A, the diode failed (shorted), which provided power to the start relays [EIIS:RLY] thereby starting D/G 1A. The failed diode also bypassed the operation of the stop pushbuttons.

D/G 1A shutdown (by removing control power) after operating for approximately 36 minutes. The trip monitor device will either be modified prior to future use or not used.

D/G 1A performed as designed during this incident and would have subsequently loaded had this been a valid test. The health and safety of the public were not affected.

DUKE POWER COMPANY

P.O. BOX 33189
CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

April 30, 1984

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Document Control Desk

U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Subject: McGuire Nuclear Station, Unit 1
Docket No. 50-369
LER 369/84-11

Gentlemen:

Pursuant to 10 CFR 50.73 Sections (a)(1) and (d), attached is Licensee Event Report 369/84-11 concerning a diesel generator 1A automatic start due to a failed diode which is submitted in accordance with §50.73(a)(2)(iv). Initial notification of this event was made (pursuant to §50.72 Section (b)(2)(ii)) with the NRC Operations Center via the ENS on March 29, 1984. This event was considered to be of no significance with respect to the health and safety of the public.

Very truly yours,

H.B. Tucker

Hal B. Tucker

PBN:glb

Attachment

cc: Mr. James P. O'Reilly
Regional Administrator
U. S. Nuclear Regulatory Commission
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McGuire Nuclear Station

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