

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Monticello Nuclear Generating Plant										DOCKET NUMBER (2) 0 5 0 0 0 2 6 13										PAGE (3) 1 OF 0 2																													
TITLE (4) Emergency Diesel Generator Relay Qualification																																																	
EVENT DATE (5) 0 1 0 6 8 6										LER NUMBER (6) 8 6 - 0 0 1 - 0 0 0 2 0 5 8 6										REPORT DATE (7) 0 1 0 6 8 6										OTHER FACILITIES INVOLVED (8) FACILITY NAMES DOCKET NUMBER(S) 0 5 0 0 0																			
OPERATING MODE (9) N										THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)																																							
POWER LEVEL (10) 0 9 7										20.402(b)										20.405(e)										50.73(a)(2)(iv)										73.71(b)									
										20.405(a)(1)(i)										50.36(a)(1)										X 50.73(a)(2)(v)										73.71(e)									
										20.405(a)(1)(ii)										50.36(a)(2)										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)										50.73(a)(2)(viii)(A)																			
										20.405(a)(1)(iv)										50.73(a)(2)(iii)										50.73(a)(2)(viii)(B)																			
										20.405(a)(1)(v)										50.73(a)(2)(iii)										50.73(a)(2)(ix)																			
LICENSEE CONTACT FOR THIS LER (12)																																																	
NAME Lawrence E. Pudlick, Production Engineer																				TELEPHONE NUMBER 6 1 2 2 9 5 - 5 1 5 1																													
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																																																	
CAUSE										SYSTEM										COMPONENT										MANUFACTURER										REPORTABLE TO NRC									
SUPPLEMENTAL 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)																																																	
<p>Investigation of IE INFORMATION NOTICE NO. 85-82: "DIESEL GENERATOR DIFFERENTIAL PROTECTION RELAY NOT SEISMICALLY QUALIFIED" revealed that the emergency diesel generator high speed differential relays, GE Model No. 12CFD12B1A are susceptible to actuation during a seismic event. Activation of this relay would leave the emergency diesel generators inoperable.</p> <p>The differential relays trip function was subsequently bypassed. As an interim measure, a safety evaluation was performed that allows for the restoration of the differential relays' trip function for generator protection during monthly surveillance operation of the emergency diesel generators.</p> <p>The final resolution will be to replace the existing differential relays with the GE type IJD Seismically Qualified relays.</p>																																																	
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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)  Monticello	DOCKET NUMBER (2)  0 5 0 0 0 2 6 3 8 6	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		— 0	0 1	— 0 0	0 2	OF	0 2

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

On January 6, 1986 with the plant at 97% power operation during coastdown, investigation of IE INFORMATION NOTICE NO. 85-82: "DIESEL GENERATOR DIFFERENTIAL PROTECTION RELAY NOT SEISMICALLY QUALIFIED" revealed that in the de-energized state of operation, emergency diesel generator (EK) high speed differential relays (87), GE Model No. 12CFD12B1A, are susceptible to activation from a seismic event of 0.75g magnitude. These relays are de-energized whenever the emergency diesel generator is not electrically connected to the essential safeguard bus (EB).

This design deficiency could result in the lockout of the tie breaker (BKR) between the emergency diesel generator and its essential safeguard bus. This would inhibit the emergency diesel generator from supplying the essential safeguard bus until the lockout is reset locally. With this information and after a review of the applicable operational basis earthquake seismic spectra, it was decided to bypass the differential relays' trip function. This was completed on the same day.

As an interim measure, a safety evaluation was performed that allows for the restoration of the differential relays' trip function for generator protection during the monthly surveillance operation of the emergency diesel generators.

The final resolution will be to replace the existing differential relays with the GE type IJD seismically qualified relays.

This event had no affect on the health and safety of the public.

There have been no reportable events of a similar nature.

KMS1324



Northern States Power Company

414 Nicollet Mall  
Minneapolis, Minnesota 55401  
Telephone (612) 330-5500

February 4, 1986

U S Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

MONTICELLO NUCLEAR GENERATING PLANT  
Docket No. 50-263 License No. DPR-22

Emergency Diesel Generator Relay Qualification

The License Event Report for this occurrence is attached.

This event was reported via Emergency Notification System per 10 CFR Part 72  
on January 6, 1986.

*Monica Vike*

*for* David Musolf  
Manager - Nuclear Support Services

DMM/MMV/dab

c: Regional Administrator-III, NRC  
NRR Project Manager, NRC  
Resident Inspector, NRC  
MPCA  
Attn: J W Ferman

Attachment

IE22  
1/1