



Northern States Power Company

414 Nicollet Mall
Minneapolis, Minnesota 55401-1927
Telephone (612) 330-5500

October 7, 1994

Report Required by
10 CFR Part 50, Section 50.73

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

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

Electrical Maintenance Personnel Error During Surveillance Test Causes
Both Emergency Diesel Generators to Fast Start

The Licensee Event Report for this occurrence is attached. This report contains the following new NRC commitment:

Procedure 0301 will be modified to control the use of the clear plastic covers on the relays on the 4kV cubicle doors.

Please contact Marv Engen, Sr Licensing Engineer, at (612) 295-1291 if you require further information.

William J. Anderson for ROA

Roger O Anderson
Director
Licensing and Management Issues

c: Regional Administrator - III NRC
Sr Resident Inspector, NRC
NRR Project Manager, NRC
State of Minnesota,
Attn: Kris Sanda

Attachment

140023

*IF22
11*

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)

MONTICELLO NUCLEAR GENERATING PLANT

DOCKET NUMBER (2)

05000 - 263

PAGE (3)

1 OF 4

TITLE (4) Electrical Maintenance Personnel Error During Surveillance Test
Causes Both Emergency Diesel Generators to Fast Start

EVENT DATE (5)			LER NUMBER (6)			REPORT NUMBER (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
09	07	94	94	-- 009 --	00	10	07	94	FACILITY NAME	DOCKET NUMBER
										05000
									FACILITY NAME	DOCKET NUMBER
										05000

OPERATING MODE (9)	N	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)					
POWER LEVEL (10)	81%	20.402(b)		20.405(c)	X	50.73(a)(2)(iv)	73.71(b)
		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)	OTHER
		20.405(a)(1)(iii)		50.73(a)(2)(i)		50.73(a)(2)(viii)(A)	(Specify in Abstract below and in Text, NRC Form 366A)
		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

Tom Parker

TELEPHONE NUMBER (Include Area Code)

612-295-1014

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
XX					

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

Electrical maintenance personnel were performing the Monthly Degraded Safeguards Bus Voltage surveillance, when both Emergency Diesel Generators unexpectedly received a fast start signal and started. Electrical maintenance personnel did not perform the test in accordance with the procedure. An incorrect relay was manually actuated, causing the Emergency Diesel Generators to start. The person responsible was disciplined. The procedure will be modified.

NRC FORM 366A (5-92)		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB NO. 3150-0104 EXPIRES 5/31/95	
LICENSEE EVENT REPORT (LER) TEXT CONTINUATION				ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.	
FACILITY NAME (1)		DOCKET NUMBER (2)		LER NUMBER (5)	
MONTICELLO NUCLEAR GENERATING PLANT		05000 263		YEAR 94	SEQUENTIAL NUMBER 009
				REVISION NUMBER 00	PAGE (3) 2 of 4

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

Description:

While operating at 81% reactor power, on September 7, 1994, electrical maintenance personnel were performing the Monthly Degraded Safeguards Bus Voltage Surveillance (Procedure 0301). During the test, both Emergency Diesel Generators (EIS System Code: EK) unexpectedly received a fast start signal and started. The generator output breakers remained open; not closing on to the bus, because the busses remained energized from their normal sources.

Cause:

A cognitive personnel error was made during the performance of Step 48 of the test procedure, which caused both Emergency Diesel Generators to receive fast start signals. When performing Step 48, the worker dropped out relay 127-6Y rather than picking up relay 127-6. The workers had been working in 4kV cubicle 601 (ACB-152-601). In order to perform Step 48, a different cubicle needed to be entered in order to pick up relay 127-6. Relay 127-6Y is in 4KV cubicle 601; whereas relay 127-6 is in cubicle 605 (ACB-152-605).

A note at the beginning of Step 48 states: "Relay 127-6 is located in breaker cubicle ACB-152-605." This note was ineffective in preventing this event.

The electrical push button, used to drop out relay 127-6Y incorrectly, is normally covered by a clear plastic plate. These covers are not controlled by the procedure and are normally removed at the beginning of the test and installed following completion of the test. Had these covers been installed while Step 48 was being performed, it is believed that this error would not have occurred.

NRC FORM 366A (5-82)		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB NO. 3150-0104 EXPIRES 5/31/95	
LICENSEE EVENT REPORT (LER) TEXT CONTINUATION				ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.	
FACILITY NAME(1)		DOCKET NUMBER (2)		LER NUMBER (6)	
MONTICELLO NUCLEAR GENERATING PLANT		05000 263		YEAR 94	SEQUENTIAL NUMBER 009
				REVISION NUMBER 00	PAGE (3) 3 of 4

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

Analysis:

The event is being reported under 10 CFR Part 50, Section 50.73.(a)(2)(iv) as both Emergency Diesel Generators started when the wrong relay was manually actuated. This caused the automatic actuation of an engineered safety feature.

This event caused the unnecessary actuation of the Emergency Diesel Generators. Although additional fast starts are not desirable, there were no significant consequences associated with this actuation.

Corrective Actions:

The following immediate actions were promptly taken:

1. The Emergency Diesel Generators were secured as soon as the start signal was determined to be invalid.
2. The surveillance on the safeguards bus was successfully completed.

The following action was taken following the immediate actions:

The company Positive Discipline Program was implemented and the responsible person was disciplined.

The following action will be taken in the future:

This procedure (0301) will be modified to control the use of the clear plastic covers on the relays on the 4kV cubicle doors

NRC FORM 366A (5-92)		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB NO. 3150-0104 EXPIRES 5/31/95	
LICENSEE EVENT REPORT (LER) TEXT CONTINUATION				<small>ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.</small>	
FACILITY NAME(1)		DOCKET NUMBER (2)		LER NUMBER (6)	
MONTICELLO NUCLEAR GENERATING PLANT		05000 263		YEAR	REVISION NUMBER
				94	009 00
				PAGE (3)	
				4 of 4	

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

Additional Information:

Failed Component Identification: None

Previous Similar Event:

The following past LERs involved spurious Emergency Diesel Generator starts:
84-023, 85-001, 89-016, 91-007

LER 85-001 reported the start of the Emergency Diesel Generators during Essential Bus Degraded and Loss of Voltage Testing, but this had to do with a procedure error associated with seal-in circuitry.

LER 87-012 reported the start of the Emergency Diesel Generators during Essential Bus Degraded and Loss of Voltage Testing, however this start was caused by a different type of personnel error.

The corrective actions taken for the above two events would not have prevented the event described in this report. The rest of the LERs are not applicable to the cause of this event.