

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)

Monticello

DOCKET NUMBER (2)

0 5 0 0 0 2 6 3 1 OF 2

PAGE (3)

TITLE (4)

EFT Actuation Due to Ammonia Detector Spike

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)													
1	2	1	8	8	5	0	2	1	0	0	0	1	1	6	8	6	0	5	0	0	0	1	1

OPERATING MODE (9)

N

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)

20.402(b)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	73.71(b)
20.405(a)(1)(i)	<input type="checkbox"/>	50.73(a)(2)(v)	73.71(c)
20.405(a)(1)(ii)	<input type="checkbox"/>	50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 368A)
20.405(a)(1)(iii)	<input type="checkbox"/>	50.73(a)(2)(vii)(A)	
20.405(a)(1)(iv)	<input type="checkbox"/>	50.73(a)(2)(vii)(B)	
20.405(a)(1)(v)	<input type="checkbox"/>	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME

Lyle M. Kamppinen, I & C Engineer

TELEPHONE NUMBER

AREA CODE

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 NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS

SUPPLEMENTAL REPORT EXPECTED (14)

EXPECTED SUBMISSION DATE (15)

MONTH DAY YEAR

YES (If yes, complete EXPECTED SUBMISSION DATE)

☒ NO

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

On December 18, 1985, the EFT system (Control Room HVAC) transferred to the emergency mode as a result of a spurious trip of an Ammonia monitor. Extensive investigation revealed no apparent cause for the trip. Subsequent operation has been satisfactory.

On December 25, 1985, the EFT System transferred to the emergency mode as a result of a chlorine monitor tape break which resulted in a spurious trip of the monitor. The tape was advanced past the break and the monitor reset. The EFT System was returned to normal operation. The apparent cause was a defective tape.

On December 28, 1985, the EFT system transferred to the emergency mode as a result of a chlorine monitor tape break which resulted in a spurious trip of the monitor. The monitor was reset and the EFT System returned to the normal mode of operation. The apparent cause was a defective tape. A visit to the manufacturer's facility has been scheduled to try to resolve the tape quality problems.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Monticello	DOCKET NUMBER (2) 0 5 0 0 0 2 6 3 8 5 — 0 2 1 — 0 0	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
					0 2	OF	0 2

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

During power operation on December 18, 1985, at approximately 1420, the EFT System (Control Room HVAC) (System Code VI), automatically transferred to the toxic chemical emergency mode (isolation of outside air intake and exhaust) as a result of a spurious trip of ammonia monitor AT9031 (MDA Scientific Model 7060 FAN) (Component Code AA). The monitor was reset and the System returned to the normal mode of operation. Extensive investigation could not determine a definite cause for the trip. An intermittent electronics problem is suspected. There has been one previous, similar event, LER-85-20. A license amendment request has been submitted to the NRC for removal of this monitor.

During power operation on December 25, 1985, at approximately 1020, the EFT System automatically transferred to the toxic chemical emergency mode when a chlorine monitor, AT9046B (MDA Scientific Model 7040 FAN) detector tape broke resulting in a spurious trip of the monitor. The tape was advanced past the break, the monitor reset, and the EFT System returned to the normal mode of operation.

The cause of the event was a small imperfection on the tape surface which caught on the detector head, tearing the tape and initiating a monitor trip. The manufacturer was informed.

During power operation on December 28, 1985, at approximately 1750, the EFT system automatically transferred to the toxic chemical emergency mode when a chlorine monitor, AT9046A (MDA Scientific Model 7040 FAN) detector tape broke resulting in a spurious trip of the monitor. The tape was advanced past the break, the monitor reset, and the EFT System returned to the normal mode of operation.

The cause of the event was an apparent imperfection (weak spot) on the tape which allowed it to tear under normal tension, initiating a monitor trip. The manufacturer was informed. A trip to the manufacturer's facility has been scheduled to try to resolve defective tape quality problems.

There have been three previous, similar reportable events, LER 85-06, LER 85-16 and LER 85-17.

We have initiated a project to replace the chlorine monitors with more reliable equipment and improve the trip logic. A system specification has been prepared to improve the EFT System reliability. The project is scheduled for completion during the next refueling outage.

There was no effect on public health or safety because the safety function of the EFT System was initiated.

DJJ104



Northern States Power Company

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

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

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

EFT Actuation Due To Ammonia Detector Spike

The License Event Report for these occurrences is attached.

These events were reported via Emergency Notification System per 10 CFR
Part 72 on December 18, 25, and 28, 1985.

Monica Vik

David Musolf
Manager - Nuclear Support Services

DMM/MMV/jk

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

Attachment

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