NRC Form 366 (9-63)	L	CENSEE EVENT RE	PORT (LER)	U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO: 3150-0104 EXPIRES 8/31/85
PACILITY NAME (1)			00	CKET NUMBER (2) PAGE (3)
Mont	ticello		0	15 10 10 10 12 16 13 1 OF 0 12
TITLE (4) Faulty Fee	edwater Pump Oil P	ressure Switch A	ctuation During	Painting Leads to
Reactor So	cram	A BERGAR DATE (3)	07458.54	CULTER INVOLVED (8)
MONTH DAY YEAR Y	EAR SEQUENTIAL REVISI	DN MONTH DAY YEAR	FACILITY NAME	S DOCKET NUMBER(S)
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OPERATING TH MODE (0) N	HIS REPORT IS SUBMITTED PURSUAN	T TO THE REQUIREMENTS OF 10	CFR § (Check one or more of)	the following) (11)
POWER	20.408(e)(1)(i)	50.36(e)(1)	50.73(a)(2)(v)	73.71(c)
LEVEL 11010	20.406(a)(1)(8)	50.38(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract
	20.406(e)(1)(iii)	60.73(a)(2)(i)	50.73(a)(2)(viii)(A)	Jelow and in Text, NHC Form 366A)
	20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(8)	
	20.408(a)(1)(v)	50.73(a)(2)(iii)	50.73(e)(2)(x)	
NAME		LICENSEE CONTACT FOR THIS	LEH (12)	TELEPHONE NUMBER
David A Dille	ey, Production Eng.	ineer		AREA CODE 6 1 2 2 9 5 - 5 1 5 1'
	COMPLETE ONE LINE S	OR EACH COMPONENT FAILURE	DESCRIBED IN THIS REPORT	(13)
CAUSE SYSTEM COMPONE	INT MANUFAC REPORTAB	CAUSE	SYSTEM COMPONENT	MANUFAC REPORTABLE -
				111
	1 1 1 1 1			
	SUPPLEMENTAL REPO	AT EXPECTES (14)		EXPECTED MONTH DAY YEAK
				SUBMISSION DATE (15)
ABSTRACT /Limit to 1400 wares	L i s. approximately fifteen single-space i	X NO		
The event was due to a low working in the Vessel level both RFPs and dropped to the group II and of the stand manually inits conditions we The #11 RFP of plate was rep procedure for on the immedi- activities.	s initiated by a tr oil pressure trip he area. Power was increased rapidly d the main turbine he low level setpo a group III prima by gas treatment sy tiating HPCI and re ere stabilized usin oil pressure switch placed and the trip recovery from low iate actions to be Feedwater level co	rip of the #11 r switch (PS-1735) s reduced and the to the high wate giving a load re int, causing a r ry containment is ystem. Reactor estoring the feed ong normal scram h gauge glass was p setpoint of the ss of one RFP was taken. A processor	eactor feedwater) actuation by a e tripped RFP re- er level setpoin eject scram. Ve eactor building solation and an vessel level wa dwater system to recovery procedure s found loose. e switch verifi- s revised to giv dure was prepar- ied to be opera	r pump (RFP) (P-2A) a painter who was eturned to service. nt, tripping essel level then isolation, a automatic start s recovered by o normal. Plant ures. The housing cover ed correct. The ve better guidance ed for painting ting properly.
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

EXPIRES 8/31/85

ACILITY NAME (1)	DOCKET NUMBER (2)		LER NUMBER (6)					PAGE (3)			
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Monticello	0 15 10 10 10 12 16 13	8 8 7	-	0 10 14	-	0,0	0	0 2 0	OF	0	12

On January 19, 1987, while at a steady state 100% power, plant painters were working in the reactor feedwater pump area. Some paint went on the gauge glass of the #11 reactor feedwater pump low oil pressure trip switch (PS). The gauge glass had not been taped up during painting preparation because it was noticed that the glass appeared loose. The painter was not aware of the significance of the switch and attempted to wipe the paint off. The loose gauge glass fell in and actuated the switch, which tripped the #11 reactor feedwater pump (RFP) (P) at 1329:51. The only initial alarm was "Reactor Feedwater Pump Trip". The only RFP trip signal which is not also independently alarmed is the low suction pressure trip. Adequate suction pressure was verified and thus, the trip was assumed to be spurious. Action was taken then to return the #11 RFP to service. At the same time, reactor power was immediately reduced to approximately 54% power at 1330:21 by manually reducing the recirculation pumps' (P) speed controllers (SIK) to minimum speed. At 1330:43, the #11 RFP was returned to service. Feedwater level control allowed vessel level to increase to the high water trip level at 1331:01, causing both RFPs to trip, as well as the main turbine (TUR). This in turn caused a load reject scram. Vessel level dropped below the low level trip setpoint at 1331:06, causing a reactor building isolation (JM) a group II/III primary containment isolation (JM), and an automatic initiation of the standby gas treatment system (BH). At approximately 1331:30, the high pressure coolant injection system (BJ) was manually initiated and at 1332:29, the feedwater system was returned to normal to restore normal water level. Normal scram recovery procedures were utilized.

The root causes of the event were determined to be:

- The loose gauge glass in the #11 reactor feedwater pump oil pressure trip switch housing.
- 2) The painter was not aware of the significance of the instrumentation in the area.

A contributing cause was procedural inadequacy for immediate actions to be taken upon loss of one reactor feedwater pump. The procedure in use had the operator immediately restart the reactor feedwater pump, rather than stabilize plant conditions prior to restart.

Corrective actions were:

- Replaced the loose gauge glass from the #11 reactor feedwater pump low oil pressure trip switch and verified correct setpoint.
- 2) A procedure was prepared and is now used that requires the painters and their supervisor to walkdown an area to be painted with the applicable system engineers, operations personnel and an instrument and controls specialist to identify all significant instrumentation and equipment.
- 3) The procedure for recovery from loss of one reactor feedwater pump has been revised to have the operator stabilize plant conditions prior to restarting a tripped reactor feedwater pump.
- 4) Feedwater level control was verified to be operating properly.

No further corrective actions are planned. This event had no effect on public health and safety, since the safety function of the affected systems were initiated and operated as designed. There have been no similar reportable events.

NRC Form 366A



Northern States Power Company

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

February 18, 1987

Report Required by 10 CFR Part 50, Section 50.73

JE22

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

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

Faulty Feedwater Pump Oil Pressure Switch Actuation During Painting Leads to Reactor Scram

The Licensee Event Report for this occurrence is attached.

This event was reported via the Emergency Notification System in accordance with 10 CFR Part 50, Section 50.72, on January 19, 1987.

oucable 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

