



## Northern States Power Company

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April 27, 1992

10 CFR Part 50 Section 50.73

U S Nuclear Regul-tory Commission Attn: Document Go...iol Desk Washington, DC 20555

> PRAIRIE ISLANL NUCLEAR GENERATING PLANT Docket Nos. 50.282 License Nos. DPR-42 50-306 DPR 60

Auto-Start of Motor-Driven Auxiliary Feedwater Pump

Due to Personnel Error During Surveillance Test

The Licensee Event Peport 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 March 26, 1992. Please contact us if you require additional information related to this event.

Thomas M Parker

Manager - Nuclear Support Services

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

Attachment

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#### LICENSEE EVENT REPORT (LER)

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On March 26, 1992, Unit 2 was at 100% power. At about 0802, surveil'ance procedure SP2035A, Reactor Protection Logic Test, was begun. To test steam generator level bistables without starting auxiliary feedwater pumps, the pump control switches are placed in MANUAL, one train at a time. Though the procedure had directed that the Motor-Driven Auxiliary Feedwater Pump be MANUAL, at about 0830 the control room operator placed the Turbine-Driven Auxiliary Feedwater Pump in MANUAL. Shortly thereafter, the Motor-driven Auxiliary Feedwater Pump was incorrectly independently verified to be in MANUAL. At about 0832, an Instruments and Controls Technician actuated the Train A Lo-Lo Steam Cenerator Level bistables per the test procedure. A few minutes later, control room operators noticed a slight change in reactor power and temperature. The test was halted while an investigation was done. Control room operators noticed a change in feedwater flow and determined that steam generator blowdown flow had stopped and No. 21 Motor-Driven Auxiliary Feedwater Pump was running (start of the pump is not annunciated in the control room). At about 0849 the running pump was stopped, the error was corrected, and SP2035A was resumed and completed.

#### APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92

LICENSEE EVENT REPORT (LER)

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# EVENT DESCRIPTION

On March 26, 1992, Unit 2 was at 100% power. At about 0802, surveillance procedure SP2035A, Reactor Protection Logic Telt, was begun. To test steam generator level bistables without starting auxiliary feedwater pumps, the pump control switches are placed in MANUAL, one train at a time. Though the procedure had directed that the Motor-Driven Auxiliary Feedwater Pump be placed in MANUAL, at about 0830 the control room operator placed the Turbine-Driven Auxiliary Feedwater Pump in MANUAL. Shortly thereafter, the Motor-driven Auxiliary Feedwater Pump was incorrectly independently verified to be in Paral. At about 0832, an Instruments and Controls Technician actuated the Train A Lo-Lo Steam Generator Level bistables per the test proc.dure. A few minutes later, control room operators noticed a slight change in reactor power and temperature. The test was helded while an investigation was done. Control room operators noticed a change in feedwater flow and determined .... t steam generator blowdown flow had stopped and No. 21 Motor-Driven Auxiliary Feedwater Pump was running (start of the pump is not annunciated in the control room). At about 0849, the running pump was stopped, the error was corrected, and SP2035A was resumed and completed.

#### CAUSE OF THE EVENT

Cause of the event was personnel error in that the control room operators failed to self-check.

Contributing causes were:

- The switch number given in the procedure is physically hard to read on the control panel.
- The pump number is not given in the procedure.

## ANALYSIS OF THE EVENT

Auxiliary feedwater pumps are routinely 1 ed during startup and shutdown reations. Since No. 21 Motor-Driven At Liary Feedwater Pump responded as designed during this event, there was no effect on the health and safety of the public.

Since this event resulted in an unplanned automatic start of an ESF component, it is reportable pursuant to 10CFR50.73(a)(2)(iv).

MRCA		

#### U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES 4/30/92

LICENSEE EVENT REPORT (LER)
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### CORRECTIVE ACTION

When the error was found, the procedure was suspended, the running pump was stopped, the error was corrected and the test rerun successfully. The operators involved were counseled regarding the need for self-checking and independent verification.

Procedure changes have been submitted that will specify pump numbers.

Other corrective actions are being considered:

Procedure changes which will implement independent verification using an independent method.

- Relabal the control board components affected by this event.

#### FAILED COMPONENT IDENTIFICATION

None.

## PREVIOUS SIMILAR EVENTS

Previous unplanned auto-starts of auxiliary feedwater pumps have been reported as Unit 1 LER's 87-006 and 89-005, and Unit 2 LER's 86-004, 90-004, 90-005 and 92-001. These events were from causes different from the event reported in this LER.