

Northern States Power Company

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November 5, 1990

10 CFR Part 50 Section 50.73

Director of Nuclear Reactor Regulation U S Nuclear Regulatory Commission Attn: Document Control Desk Washington, DC 20555

> PRAIRIE ISLAND NUCLEAR GENERATING PLANT Docket Nos. 50-282 License Nos. DPR-42 50-306 DPR-60

Unit 2 Reactor Trip from Zero Power When Fuses Were Removed from the Wrong Nuclear Instrumentation Channel Drawer

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 October 7, 1990. Please contact us if you require additional information related to this event.

much las

Thomas M Parker Manager Nuclear Support Services

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

Attachment

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On October 7, 1990 Unit 2 was critical at zero power after refueling. Zero power physics testing had just been completed. The reactivity computer used for physics testing was to be disconnected from Nuclear Instrumentation (NIS) Power Range Channel N41. An instrument and control technician, when asked to do the work, reviewed the procedure and the logic diagrams to determine what his actions should be. With procedure in hand, he proceeded to remove the control power and instrument power fuses from the front panel of the NIS drawer, causing a Unit 2 reactor trip at 1712 because he had inadvertently removed the fuses from NIS Intermediate Range Channel N35 instead of Power Range Channel N41. The trip and recovery from the trip were uneventful.

Cause of the event was personnel error in removing fuses from the wrong NIS channel drawer. Channel N35 is immediately above Channel N41 on the NIS rack. The technician failed to use self-checking when removing the fuses.

	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION											APPROVED ONE NO. 3150-0104 EXPIRES: 4/30/92 ESVIMATED BURDEN PER RESPONSE TO COMPLY WTH THIS GIFORMATION COLLECTION REQUEST SOD HRS. PORWARD COMMENTS RECARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P.530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPETWORK REDUCTION FROJECT (J1550-104), OF ICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.											
FACILITY NAME (1)						DOCKET NUMBER (2)							LER NUMBER (6)							PAGE (3)			
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EVENT DESCRIPTION

On October 7, 1990 Unit 2 was critical at zero power after refueling. Zero power physics testing had just been completed. The reactivity computer used for physics testing was to be disconnected from Nuclear Instrumentation (NIS) (EIIS System Code IG) Power Range Channel N41. An instrument and control technician, when asked to do the work, reviewed the procedure and the logic diagrams to determine what his actions should be. With procedure in hand, he proceeded to remove the control power (EIIS Component Identifier JC) and instrument power fuses (EIIS Component Identifier FU) from the front panel of the NIS drawer, causing a Unit 2 reactor trip at 1712 because he had inadvertently removed the fuses from NIS Intermediate Range Channel N35 instead of Power Range Channel N41. The trip and recovery from the trip were uneventful.

CAUSE OF THE EVENT

Cause of the event was personnel error in removing fuses from the wrong NIS channel drawer. Channel N35 is immediately above Channel N41 on the NIS rack. The technician failed to use self-checking when removing the fuses.

A' LYSIS OF THE EVENT

The trip signal was generated when the fuses from Intermediate Range Channel N35 were pulled, satisfying a one of two trip coincidence logic. Reactor trip signals from the power range channels require two of four channels to be tripped.

There was no effect on public health and safety since the reactor protection system operated as designed. This event is reportable pursuant to 10CFR50.73(a)(2)(iv).

LICENSEE EVENT REPOR TEXT CONTINUATIO	US NUCLEAR RECULATORY COMMISSION	APPROVED ONE NO. 31600104 EXPIRES 4/30/82 ESTIMATED SURDEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST SOO HRS. FORWARD COMMENTS REGARDING SURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (PS30). US NUCLEAR REGULATORY COMMISSION WASHINGTON DC 20585. AND TO THE PARERWORK REDUCTION PROJECT (DISDIDAL), OFFICE OF MANAGEMENT AND SUDGET, WASHINGTON, DC 20503.								
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CORRECTIVE ACTION										

The technician was counseled in the need to use self-checking.

Labeling of the NIS drawers has been improved to help prevent recurrence. A procedure revision has been initiated that will provide for use of Power Range Channel N44 instead of N41, since the rack containing N44 has no associated Intermediate Range or Source Range Channels. The revision will be completed prior to the next use of the procedure.

FAILED COMPONENT IDENTIFICATION

None.

PREVIOUS SIMILAR EVENTS

There have been no previous similar events reported at Prairie Island.