

Northern States Power Company

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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

Automatic Start of Both Unit 2 Auxiliary Feedwater Pumps Caused by Use of Inadequately Reviewed Procedure

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 September 5, 1990. Please contact us if you require additional information related to this event.

Amo May

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 September 5, 1990 Unit 2 was at 77% power coasting down to a refueling outage planned for the following week. Installation of replacement ATWS Mitigating System Actuating Circuitry (AMSAC) equipment was in progress on Unit 2. During the performance of the work, at 1508, an AMSAC actuation signal was generated, which started both auxiliary feedwater pumps automatically. A turbine trip signal was also generated, but leads connecting AMSAC to turbine trip circuitry had been lifted earlier in the work process, so no turbine trip occurred. The auxiliary feedwater pumps' actuation was determined to be spurious, and the pumps were shut down at 1523. This was a non-ESF actuation of ESF equipment.

Cause of the event was inadequate review of work procedures.

LICENSEE EVENT	APPROVED DNS NO. 3150-0104 EXPIRES: 4/30/82 ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST: SOD HRS. FORMARD COMMENTS REGARDING SUNDER ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (# SSG). U.S. NUCCEAR REGULATURY COMMISSION, WASHINGTON, DC 20555, AND TO THE FAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.						
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EVENT DESCRIPTION

On September 5, 1990 Unit 2 was at 77% power coasting down to a refueling outage planned for the following week. Installation of replacement ATWS Mitigating System Actuating Circuitry (AMSAC) equipment was in progress on Unit 2. During the performance of the work, at 1508, an AMSAC actuation signal was generated, which started both auxiliary feedwater pumps (EIIS System Identifier BA)(EIIS Component Identifier P) automatically. A turbine trip signal was also generated, but leads connecting AMSAC to turbine trip circuitry had been lifted earlier in the work process, so no turbine trip occurred. The auxiliary feedwater pumps' actuation was determined to be unnecessary, and the pumps were shut down at 1523. This was a non-ESF accuation of ESF equipment.

CAUSE OF THE EVENT

Cause of the event was inadequate review of work procedures. A Work Request was written and reviewed for AMSAC installation, but the work package was held up while awaiting arrival of vendor-supplied installation instructions. When the vendor-supplied instructions arrived, they were attached to the Work Request and work was begun. It was not immediately recognized that the instructions attached to the Work Request provided for both installation and testing. When the testing portion of the instructions was performed, an actuation signal was sent to the auxiliary feedwater pumps, which started automatically.

ANALYSIS OF THE EVENT

Since the auxiliary feedwater system 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 engineered safeguards components, it is reportable pursuant to 10CFR50.73(a)(2)(iv).

CORRECTIVE ACTION

Review of the work control process was done and it was determined that existing controls should be adequate to prevent this event. The individuals involved have been counseled in the requirements of the work control process. This event report will be routed to others who are responsible for reviewing work packages.

LICENSEE EVENT REPOR TEXT CONTINUATIO	APPROVED DMB NO. 3150-0104 EXPIRES: 4/30/82 ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH THIS II FORMATION COLLECTION REQUEST 500 HRS. FORMARD CAMBENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND A REPORTS MANAGEMENT BRANCH (P-530). U.S. NUCLEAR RE JULATORY COMMISSION, WASHINGTON, DC 20555, AND TO TH I PAPERWORK REDUCTION PROJECT (3150-3104). OFFICE OF WANAGEMENT AND BUDGET, WASHINGTON, DC 20503.					
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Prairie Island Unit 2	0 15 10 10 10 1 3 10 1 6	910 - 01014 - 010				

FAILED COMPONENT IDENTIFICATION

None.

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PREVIOUS SIMILAR EVENTS

There have been previous auto-starts of auxiliary feedwater pumps, but none caused by work on the AMSAC system.