

Nebraska Public Power District

COOPER NUCLEAR STATION
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CNSS923523

January 17, 1992

U.S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555

Dear Sir:

Cooper Nuclear Station Licensee Event Report 91-022, Revision O, is being forwarded as an attachment to this letter.

Sincerely,

J. M. Meacham Division Manager of Nuclear Operations

Coope "uclear Station

JMM,

Attachment

cc:

R. D. Martin

G. R. Horn

R. E. Wilbur

V. L. Wolstenholm

D. A. Whitman

INPO Records Center

NRC Resident Inspector

R. J. Singer

CNS Training

CNS Quality Assurance

1822

NRC Form 266 (9-F3)		LICENSEE EVE	NT RE	PORT (LER)	U.S. NI	CLEAR REQUESTORY COMMISSION APPROVED CIMB NO. 312-0104 EXPIRES 8/31/80				
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On December 21, 1991, at 6:52 p.m., upon opening the inlet valve to the 'B' Reactor Water Cleanup (RWCU) Filter Demineralizer, a partial Group 3 Isolation was received, causing one of the two inlet isolation valves, RWCU-MOV-MO18 to close. The Group 3 Isolation occurred due to actuation of differential pressure flow switch RWCU-DPIS-170B. The setpoint was reached as a result of an apparent flow surge due to the filter demineralizer not being completely full of water.

NO

MONTH

EXPECTED

TEAR

> PLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)

ABSTRACY (min to 1870 pages (a, approximately fifteen single-space typewriten lines) (18)

At the time, the plant was operating at approximately 55 percent power (450 MWe). Power was being increased with control rods and Reactor Recirculation flow during the return to full power operation following the 1991 Refueling Outage.

An investigation revealed that the normally open Waste Sample Pomp Discharge Valve to the Condensate Supply (CM) Sweetem, CY AOV-643AV, was closed, preventing proper filling of the Filter Demineralia. It is postulated that during other processing activities during the 00-0800 shift on December 21, the control switch for CM-AOV-643AV was mis-positioned to CLOSE.

The Filter Demineralizer was filled and vented. The Group 3 Isolation was reset, and at 7:01 p.m., the 'B' Filter Demineralizer was placed in service. In order to proclude a similar error in the future, a switch guard has been installed around the control switch for CM-AOV-643AV on panel LR-28. Further action to be taken includes a discussion of this event with Operations Department shift personnel and a review of Radwaste Procedure 2.5.3.4, RWCU Filter Demineralizer.

MRC FORM 266A

U.S. NUCLEAR REGULATORY COMMISSION

LIPPROVED DMB NO. 3150-0104 EXPIRES: 4/30/92

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REDUCET, BDD 1485, FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P.ESD). U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20868, AND TO THE 1.AFERWORK REDUCTION PROJECT (3160-0104). DFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20803.

TEXT CONTINUATION

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A. Event Description

On December 21, 1991, at 6:52 p.m., upon opening the inlet valve to the 'B' Reactor Water Cleanup (RWCU) Filter Demineralizer, a partial (Channel B) Group 3 (RWCU System) Isolation was received, causing one of the two inlet irolation valves, RWCU-MOV-MO18 to close. The Group 3 Isolation occurred due to actuation of differential pressure flow switch RWCU-DPIS-170B. The flow switch setpoint was reached as a result of an apparent flow surge that occurred due to the filter demineralizer not being completely full of water.

B. Plant Status

Operating at approximately 55 percent power (450 MWe), increasing power with control rods and Reactor Recirculation flow during the return to full power operation following the 1991 Refueling Outage.

C. Basis for Report

Unplanned actuation of the Croup 3 Isolation circuit, an Engineered Safety Feature (ESF), reportable in accordance with 10CFR50.73 (a)(2)(iv).

D. Cause

Human Miscue. An investigation revealed that the normally open Waste Sample Pump Discharge Valve to the Condensate Supply (CM) System, CM-AOV-643AV, was closed. Water supplied from one of the two Waste Sample Tanks via the Waste Sample Pump (through CM-AOV-643AV) is the principal source for backwashing and filling a RWCU filter demineralizer. The control switch for this valve along with control switches for approximately a dozen other valves, is located on panel LR-28 'ust outside of the east Radwaste Control Room door. Two of these valves are routinely operated. CM-AO-10338, the Waster Demineralizer Outlet valve, is opened when processing water from the Waste Surge Tank to the Waste Sample Tanks. CM-AOV-642AV, the Waste Sample Pump Discharge Valve to the Condensate Storage Tank, is opened when transferring water from a Waste Sample Tank to the Condensate Storage Tank. Both of these activities had been performed in the early morning hours of December 21. It is postulated that upon completion of one of these evolutions, the control switch for CM-AOV-643AV was mis-positioned to CLOSE.

E. Safety Significance

The RWCU System high flow switches are provided to mitigate the consequences of a break in the system. The purpose of automatic losure of the RWCU inlet isolation valves upon actuation of the high flow switch(es) is to protect the core by preventing continued inventory losses through the break. In this particular situation, a RWCU System break had not occurred. Instead a small vold existed within a RWCU filter demineralizer. Consequently, actuation of the Group 3 Isolation circuitry was not required for core protection.

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U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 31EJ DICK

EAPIRES 4/30/82 ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST BED HRS. FORWARD COMMENTS RECARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530). U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 2055. AND "D THE PAPERSWORK REDUCTION PROJECT (3:50-0:104). OFFICE OF MANAGEMENT AND BURDET, WASHINGTON P. 2003.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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Safety Implications F.

Since a RWCU System break did not exist, actuation of the Group 3 Isolation function under the plant conditions that existed would not have been more significant than at any other plant condition or power level.

C. Corrective Action

The filter demineralizer was filled and vented. The Group 3 Isolation was reset, and st 7:01 p.m., the 'B' Filter Demineralizer was placed in service. As noted in paragraph D, a subsequent investigation revealed the incorrectly positioned valve.

In order to preclude a similar error in the future, a switch guard has been installed around the control switch for CM-AOV-643AV on panel IR-28. With the switch guard installed, actuation of the switch will require positive operator action. Further action to be taken includes a discussion of this event with Operations Department shift personnel and a review of Radwaste Procedure 2.5.3.4, RWCU Filter Demineralizer.

Similar Events H.

None.