

Nebraska Public Power District

COOPER NUCLEAR STATION P.O. BOX 98, BROWNVILLE, NEBRASKA 68321 TELEPHONE (402)825-3811 FAX (402)825-5211

NLS950224

November 27, 1995

U.S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555-0001

Dear Sir:

Cooper Nuclear Station Lizensee Event Report 95-015 is forwarded as an attachment to this letter.

Sincerely,

), T. Herron Plant Manager

cc:

Attachment

2010060

PDR

L. J. Callan G. R. Horn J. H. Mueller R. G. Jones R. A. Sessoms M. F. Peckham R. L. Gardner N. E. Champlin T. N. Ferrando INPO Records Center NRC Resident Inspector B. Turnbull CNS Training CNS Quality Assurance

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NRC FORM 366A (4.95)			EVENT REPORT ((LER)	U.S. NUCLEA	R REGULAT	ORY	COMMI	SSION
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TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

Plant Status

On October 26, 1995, when this condition was discovered, the plant was in cold shutdown with no fuel handling in progress.

Event Description

On October 26, 1995, electricians were performing Maintenance Procedure 7.3.16, Attachment 1 (Low Voltage Relay Removal and Installations) under MWR 95-2599 to test the undervoltage auxiliary relay, 27X2/1A. According to the first step in Attachment 1 to the procedure, they installed a jumper from CP1A terminal board XS-2 to CP1A terminal board YS-2. The jumper being placed in the circuit shorted the negative to the positive due to two closed contacts. The "NM" fuse blew and opened the circuit. The loss of the 125 VDC caused the 27X4/1A contacts to trip the 1AF breaker, which separated the 1F bus from its normal 4160 Volt supply. As a result, the 1F bus transferred to the 69 KV Emergency Transformer. The momentary deenergization of the "F" bus during the automatic transfer caused an interruption of power to the Group 6 isolation logic, which resulted in the initiation of a Group 6 isolation.

A subsequent investigation revealed the following facts surrounding this event:

- The purpose of installing the jumper was to jumper out relay contacts while performing the test on the undervoltage auxiliary relay, 27X2/1A. It should have been accomplished by installing the jumper across the test jacks already in place at points XS-4 and XS-1; however, the step for jumper connections in Attachment 1 to the Procedure 7.3.16 was incorrectly identified.
- 2) The Group 6 isolation did not originate from a valid Engineered Safeguards Feature (ESF) signal; a temporary loss of voltage to the control relays of the Group 6 isolation logic simulated a valid ESF signal by isolating primary containment ventilation and secondary containment, and starting the Standby Gas Treatment (SBGT) system.

The investigation determined that the engineer incorrectly identified the step for jumper installation in Attachment 1 to Procedure 7.3.16 and that a Group 6 isolation resulted from momentary deenergization of the "F" bus, not from a valid ESF signal.

Safety Significance

At the time of this event, Cooper Nuclear Station was in a refueling outage with the Division I non-protected. During the event, incorrect jumper connection tripped the 1AF breaker causing momentary interruption to the 1F bus. Consequently, the "F" bus transferred to the 69 KV Emergency Transformer as designed and it restored the power to the loads on the non-protected 1F bus. The Group 6 isolation resulting from the momentary interruption of power to the "F" bus simulated a valid ESF signal and the expected actuations, such as, isolation of primary containment ventilation and secondary containment, and initiation of SBGT, occurred as designed. Therefore, the safety significance of the Group 6 isolation encountered in this event was minimal.

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NRC FORM 366A	U.S. NUCLEAR REGULATORY COMMISSION
• NRC FORM 366A (4.95)	

LICENSEE EVENT REPORT (LER)

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TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

Cause

The cause of this event was an error committed by the engineer in providing test instructions in MWR 95-2599 (Personnel Error per NUREG-1022, Cause Code A).

Corrective Action

As an immediate corrective action, the engineer who prepared MWR 95-2599 has been counseled by engineering management on his work performance, in particular, management expectation with respect to self-checking of work.

To prevent recurrence of such an event, the MWRs prepared to date by the engineer in question, that involve testing of timing relays, will be reviewed prior to field implementation.

Similar Events

None.

LIST OF NRC COMMITMENTS

Correspondence No: NLS950224

The following table identifies those actions committed to by the District in this document. Any other actions discussed in the submittal represent intended or planned actions by the District. They are described to the NRC for the NRC's information and are not regulatory commitments. Please notify the Licensing Manager at Cooper Nuclear Station of any questions regarding this document or any associated regulatory commitments.

COMMITMENT	COMMITTED DATE OR OUTAGE
To prevent recurrence of such an event, the MWRs prepared to date by the engineer in question, that involve testing of timing relays, will be reviewed prior to fiald implementation.	None

PROCEDURE NUMBER 0.42 REVISION NUMBER 0.2 PAGE 10 OF 16