NRC FORM 366
(7-77)

LICENSEE EVENT REPORT

CONTROL BLOCK: | | | | | | | (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01	NEFCS1 (2)	0000000000 (3)	41111 (4)	(5)
	LICENSEE CODE	LICENSE NUMBER	LICENSE TYPE	CAT

CON'T

01	REPORT SOURCE L (6)	05000285 (7)	072479 (8)	080679 (9)
		DOCKET NUMBER	EVENT DATE	REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 During normal power operation, "D" channel wide range nuclear instrumentation failed

03 with complete loss of power. The system was placed in a 2 out of 3 trip logic

04 by bypassing "D" channel while the power supply was being troubleshot. No previous

05 event of this nature has occurred at FCS1. Reference Tech. Spec. 2.15, Table 2-2,

06 Item 10. No Technical Specification requirements were violated.

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08

09	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
	IA (11)	E (12)	A (13)	INSTRU (14)	P (15)	Z (16)

(17) LER/RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	79	—	017	/	03	L	—	0

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
A (18)	Z (19)	Z (20)	Z (21)	0000	Y (23)	N (24)	N (25)	X999 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 It was discovered that the main power fuses, 2 each Buss MDL-1's, were blown

11 causing loss of power to the drawer. The fuses were replaced and the drawer

12 placed in service. No further corrective action is required.

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15	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
	E (28)	100 (29)	NA	A (31)	DURING NORMAL POWER OPERATION

16	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
	Z (33)	Z (34)	NA	NA

PERSONNEL EXPOSURES

17	NUMBER	TYPE	DESCRIPTION (39)
	000 (37)	Z (38)	NA

PERSONNEL INJURIES

18	NUMBER	DESCRIPTION (41)
	000 (40)	NA

7908210450

LOSS OF OR DAMAGE TO FACILITY (43)

19	TYPE	DESCRIPTION
	Z (42)	NA

PUBLICITY

20	ISSUED	DESCRIPTION (45)	NRC USE ONLY
	N (44)	NA	

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Omaha Public Power District
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Attachment No. 1

Safety Analysis

The wide range drawer is used only for indication when reactor power is below 10^{-4} and above 15% power. The wide range drawer is used during reactor start-up, between 10^{-4} and 15% power to trip the reactor in the event of a high start up rate. The trip unit for high start up rate is automatically bypassed above 15% power. Since the plant was operating at 100% power, this trip unit had no effect on the Reactor Protective System. In the event the reactor would be required to go below 15%, the other three channels could have been used for indication of nuclear power below 10^{-4}.

D channel was bypassed as a precautionary measure while troubleshooting that channel. At this time, the Reactor Protective System was placed in two out of three logic.

R L Andrews

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Attachment No. 2

Corrective Action

The Technicians removed all power supplies from the drawer and checked all possible points for a short or other deficiency that might cause a blown fuse. After finding no problem in the power supply drawer, the fuses, Buss MDL-1's, were replaced with two new Buss MDL-1's and the unit was placed back in service. Voltage checks were made on the power supply and after insuring that the power supplies were operational, the "D" channel was declared operational and the bypass key removed.

The fuse failure was deemed to have been due to old age of the fuse and not due to any actual problem in the power supply itself. The plant staff consideres this problem a one-time failure of the fuse and contemplates no further action.

R Andrews

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Attachment 3

Failure Data

This is the first failure of its kind at Fort Calhoun Station Unit No. 1.

R Andrews