LICENSEE	EVENT	REPORT
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N AZUF 2 9 27-774	M,36E		S. NUCLEAR REGULATORY COMMISSION
1	——————————————————————————————————————	CENSEE EVENT REPORT	•
	CONTROL BLOCK:	1) (PLEASE PRINT OR TYPS	ALL REQUIRED INFORMATION
<u> </u>	V   A   S   P   S   2   2   0   0   -   (	0 0 0 0 0 0 - 0 0 3 4 LICENSE NUMBER 25	1 1 1 1 1 2
C 1 1	SOURCE L E 0 5 0 0 0 2	2 8 1 7 0 6 2 5 8 8 EVENT DATE	2 8 D 17 12 10 18 12 9
0121	With the unit at full power, i		sclosed that control rods
0 (3	from Power Cabinet 2AC would r	not respond to demand sign	al. Since the problem was
(C)   -	[ in the power, cabinet, the prov	risions of T.S.3.12.C.3 we	re applicable. This event
0 15	is reportable per T.S. 6.6.2.1	o(2). Since reactor contr	ol was maintained at all
0 16	times and the control rods wer	ce returned to service wit	hin the time span allowed
017	by T.S.3.0.1, the health and s	safety of the public were	not affected.
213			
; E	SYSTEM CAUSE CAUSE CODE SUBCOL	COMPONENT CODE	CDMP. VALVE SUBCODE SUBCODE
7 6	5 10 11 12	13   I N S T R U (14)	19 20
•	LERIRO EVENTYEAR RE	DUENTIAL DOCCURRENCE CDDE	REPORT REVISION  TYPE NO.  D  30  31  32  32
	ACTION FUTURE DEFECT SHUTDOWN METHOD  ACTION ON PLANT METHOD  A 18 2 19 2 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	40 41 47	PRIME COMP.   COMPONENT   MANUFACTURER   N   25   N   1   2   0   25   25   27   27   27   27   27   27
110	The rod failure was caused by		phase control card in
	the power cabinet. The failed	components were replaced	and all rods were
112	tested to verify proper operat	ion.	
: 13	<u></u>		`
114	<u></u>		DD.
	FACILITY SPOWER OTHER STATU    E 28   1 0 0 29 N/A	s 30 METHOD OF DISCOVERY  B 31 Periodic	DISCOVERY DESCRIPTION (32) Test 6.0
	ETIVITY CONTENT 13  ELEASED OF RELEASE AMOUNT OF ACTIVITY    Z   (23)   Z   (34)   N/A	, (25) 45 46 N/A	LOCATION OF RELEASE (36)
7 &	PERSONNEL EXPOSURES. NUMBER TYPE DESCRIPTION (29)	45	03
- 2	0 0 0 0 37 Z 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A	
112	NUMBER DESCRIPTION(41)	N/4	•
1:191	S 11 17 LOSS OF DE DAMAGE TO FACILITY (3) THE DESCRIPTION TO (42)	N/A	· gc
- i	* ************************************	B20720	NEC USE ONLY
	SUISE DESCRIPTION (S) PDR ADOCK S	05000280 PDR	56 SE EO 5

ATTACHMENT 1

SURRY POWER STATION, UNIT NO. 2

DOCKET NO: 50-281

REPORT NO: 82-034/03L-0

EVENT DATE: 06-25-82

TITLE OF THE EVENT: Rod Control Urgent Failure

#### 1. DESCRIPTION OF THE EVENT:

With the Unit at full power, it was discovered through performance of PT-6.0 (Control Rod Assembly Partial Movement), that the rods powered by power cabinet £AC (Group 2 of shutdown bank A, Control Banks A and C) would not respond to demand signal. It was determined that the problem was in the power cabinet, which is external to the control rod drive mechanisms. Therefore, the provisions of Technical Specification 3.12.C.3 were applicable. This event is reportable in accordance with Technical Specification 6.6.2.b(2).

# 2. PROBABLE CONSEQUENCES and STATUS of REDUNDANT EQUIPMENT:

The control rods must be capable of being inserted to fullfill part of the shutdown margin requirement necessary to shut down the reactor. At all times during this event, all control rods were capable of being tripped. The controlling bank, D Control Bank, remained operable throughout this event. Boron is used in addition to control rods for reactivity control of the reactor. There were numerous ways in which boron could have been injected into the core if needed, including the charging pumps, Boron Injection Tank, RWST, and the accumulators. The Control Rods were returned to service in 2 hours, 50 min., which is within the limits prescribed by Technical Specification 3.0.1.

## 3. CAUSE:

Failure of the control rods to respond to the demand signals was caused by a blown fuse and a failed phase control circuit card in the 2AC power cabinet.

#### 4. IMMEDIATE CORRECTIVE ACTION:

The immediate corrective action was to initiate A.P 1-1.1 (Rod Control System Malfunction) and to begin repairs to the power cabinet.

## 5. SUBSEQUENT CORRECTIVE ACTION:

The failed fuse and card were identified and replaced. The Control Rods were then returned to service in accordance with PT 6.0.

# 6. ACTION TAKEN TO PREVENT RECURRENCE:

The failure of the fuse and card are considered random failures. Therefore, no further action is required.

### 7. GENERIC IMPLICATIONS:

None.