2.	Report Date: May 5, 1978	3. Occurrence Date: April 24, 197	
4,		ear One-Unit 1 Arkansas 72801	
5.	Identification of Occurrence:		
	Loss of required overlap b	etween operating control rods groups.	
6.	Conditions Prior to Occurr	ence:	
	Steady-State Power X	Reactor Power MWth	
	Hot Standby	Net Output MWe	
	Cold Shutdown	Percent of Full Power 75 %	
	Refueling ShutdownRoutine StartupOperation	Load Changes During Routine Power Operation	
	Routine Shutdown Operation		
	Other (specify)		
7.	Description of Occurrence:		
	into the core due to a fail	on 4/24/78, Group 7 control rods dropped ure of a gate drive circuit. Due to this up was not maintained as required by 1.2.5.2.	

1. Reportable Occurrence Report No. 50-313/78-12

Reportable Occurrence Report No. 50-313/78-12

## 8. Designation of Apparent Cause of Occurrence:

Design	Procedure
Manufacture	Unusual Service Condition Including Environmental
Installation/ Construction	Component Failure x
Operator	(See Failure Data)
Other (specify)	

## 9. Analysis of Occurrence:

A detailed investigation was performed but the cause of the failure is not known.

There is no core safety significance associated with the minimum overlap requirement, rather the concern is for an overlap greater than 30%. This reduction in overlap did not create an unsafe condition, and no core protection limits were approached. This incident did not endanger the health and safety of the public.

Reportable Occurrence Report No. 50-313/78-12

## 10. Corrective Action:

The corrective action taken was to insert Group 6 to obtain the required overlap.

## 11. Failure Data:

Similar events reported include Reportable Occurrences 50-313/75-10, 50-313/76-01 and 50-313/77-22.

CONTROL BLOCK:
1 ARANO 200 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CON'T SOURCE SO ST SOURCE SOURCE SO ST SOURCE SOURCE SO ST SOURCE SOURCE SOURCE SO SOURCE SOURCE SOURCE SOURCE SOURCE SOURCE SOURCE SOURCE SOURCE SO
During Power operation, Group 7 control rods dropped into the core, and
1) Isabsequently the 25 = 5% overlap as required by T.S. 3.5.2.5.2 was
or but maintained. There was no core safety significance
1015 associated with the minimum overlap requirement, thus no
1015 thazard to the public health and satety of the public. Similar
1) Hents were reported in LER 50-313/77-22, 76-01, \$ 75-101
7 4 9 SYSTEM CAUSE CAUSE COMP NAME
CODE SUBCODE S
SEQUENTIAL OCCURRENCE REPORT TOPE NO.
ACTION PUTURE EFFECT SHUTDOWN HOURS (22) ATTACHMENT NPRO PRIME COMP. COMPONENT SUBMITTED FORM SUB. SUPPLIER MANUFACTURER
13 (18) (A) (19) (20) (21) (21) (21) (23) (24) (23) (25) (26) (26) (27) (27) (27) (27) (27) (27) (27) (27
Group 7 control rods dropped due to a failure of a gate drive aircuit.
Cause of failure is unknown. Control rod ground 6 was inserted to
113 lebtoin required overlap. Reactor power was ultimately reduced from
1 7590 to 5690. Reactor power was increased back to 7570 after
in mormal overlap was established. The failed gate will be repried repl
1 5 E 28 0 7 5 29 Z OTHER STATUS OISCOVERY DISCOVERY DIS
ACTIVITY CONTENT 12 13  ACTIVITY CONTENT 12 13  AMOUNT OF ACTIVITY 35  LOCATION OF RELEASE 36
7 8 9 10 11 44 45 80
NUMBER OSSCRIPTION (39)  1 1 12 (38) NA
PERSONNEL INJURIES NUMBER DESCRIPTION 41
LOSS OF OR DAMAGE TO FACILITY (43)
1 9 Z 42 NA
SSUED DESCRIPTION (45)  AND USE ONLY
NAME OF PREPARER Chris N. Shively PHONE: 501/968-2519