

U.S. NUCLEAR REGULATORY COMMISSION
LICENSEE EVENT REPORT

CONTROL BLOCK / / / / / / (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)
 /0/1/ /V/A/N/A/S/1/ (2) /0/0/-/0/0/0/0/0/-/0/0/ (3) /4/1/1/1/1 (4) / / / (5)
 LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT
 /0/1/ REPORT /L/ (6) /0/5/0/0/0/3/3/8/ (7) /0/8/1/1/8/1/ (8) /0/8/2/6/8/ ✓ (9)
 SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

/0/2/ / On August 11, 1981, with Unit 1 at 100 percent power, the individual rod position/
 /0/3/ / indication for rod D-10 deviated from the group demand position by greater than /
 /0/4/ / 12 steps. The IRPI channel was satisfactorily calibrated within one hour; there-/
 /0/5/ / fore, the health and safety of the general public were not affected. This is /
 /0/6/ / reportable pursuant to T.S. 3.1.3.2 and 6.9.1.9.b. /
 /0/7/ / /
 /0/8/ / /

SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
/0/9/	/I/E/ (11)	/E/ (12)	/E/ (13)	/I/N/S/T/R/U/ (14)	/I/ (15)
	LER/RO	EVENT YEAR	SEQUENTIAL REPORT NO.	OCCURRENCE CODE	REPORT TYPE
(17)	REPORT				REVISION NO.
	NUMBER	/8/1/	/-/	/0/6/7/	/ \ /
				/0/3/	/L/
					/-/
					/0/

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
/E/ (18)	/Z/ (19)	/Z/ (20)	/Z/ (21)	/0/0/0/0/ (22)	/Y/ (23)	/N/ (24)	/N/ (25)	/W/1/2/0/ (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

/1/0/ / The cause of this indicator disagreement was attributed to instrument drift. /
 /1/1/ / This is a recurring problem and is generic to Westinghouse analog position /
 /1/2/ / indicating systems. The rod position indicator channel for rod D-10 was properly/
 /1/3/ / recalibrated and returned to service. /
 /1/4/ / /

FACILITY STATUS	%POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
/1/5/	/E/ (28)	/1/0/0/ (29)	/ NA / (30)	/B/ (31) / Operator Observation /
	ACTIVITY	CONTENT		
	RELEASED	OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
/1/6/	/Z/ (33)	/Z/ (34)	/ NA /	/ NA /
	PERSONNEL EXPOSURES			
	NUMBER	TYPE	DESCRIPTION (39)	
/1/7/	/0/0/0/ (37)	/Z/ (38)	/ NA /	/
	PERSONNEL INJURIES			
	NUMBER	DESCRIPTION (41)		
/1/8/	/0/0/0/ (40)	/ NA /	/	/
	LOSS OF OR DAMAGE TO FACILITY			
	TYPE	DESCRIPTION (43)		
/1/9/	/Z/ (42)	/ NA /	/	/
	PUBLICITY			
	ISSUED	DESCRIPTION (45)		
/2/0/	/N/ (44)	/ NA /	/	/

NRC USE ONLY
/ / / / / / / / / / / / /

NAME OF PREPARER W. R. CARTWRIGHT PHONE (703) 894-5151

Virginia Electric and Power Company
North Anna Power Station, Unit #1
Docket No. 50-338
Report No. LER 81-067/03L-0

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Description of Event

On August 11, 1981, with the unit in Mode 1, the Control Room operator observed a greater than 12 step disagreement between the Individual Rod Position Indicator (IRPI) for rod D-10 and the group demand indication.

Probable Consequences of Occurrence

Operability of control rod position indication is required to determine rod position and thereby ensure compliance with the control rod alignment and insertion limits. Since the control rod was not misaligned and the position indication was properly restored within one hour, there was no effect on the safe operation of the plant. As a result, the health and safety of the general public were not affected.

Cause of Event

The cause of the disagreement in rod position indication was instrument drift. This drift can be caused by changes in the temperature of the rod drive line, changes in the frequency of the excitation source, and by changes in secondary loadings.

Immediate Corrective Action

The rod position indicator channel for rod D-10 was satisfactorily recalibrated and returned to service.

Scheduled Corrective Action

A long term investigation into the problems associated with the IRPI system is in progress. No further corrective action is scheduled until an adequate design modification is developed and proven effective.

Actions Taken to Prevent Recurrence

No further actions are required at this time.

Generic Implications

Rod position indicator drift is a generic problem with the Westinghouse Analog rod position indication system. This system is used in North Anna Units 1 and 2.