

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/2/ (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) /0/5/0/0/0/3/3/9/ (7) /0/6/1/9/8/1/ (8) 0/7/1/5/8/1/ (9)  
SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

/0/2/ / On June 19 and 20, 1981, during RCS cooldown to cold shutdown conditions, the /  
/0/3/ / individual rod position indication for "B" shutdown bank rod G-7 and J-9, /  
/0/4/ / respectively, deviated from the group demand position by greater than 12 steps. /  
/0/5/ / On each occasion, the reactor trip breakers were immediately opened in compliance/  
/0/6/ / with T.S. 3.1.3.3 and the IRPI was recalibrated, consequently the health and /  
/0/7/ / safety of the general public were not affected. This event is reportable pursuant/  
/0/8/ / to T.S. 6.9.1.9.b. /

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)	/Z/ (16)
LER/RO REPORT NUMBER	EVENT YEAR	SEQUENTIA REPORT NO.	OCCURRENCE CODE	REPORT TYPE	REVISION NO.
(17)	/8/1/	/-/ /0/5/0/ / \ /	/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. This/  
/1/1/ / is a recurring problem and is generic to Westinghouse analog rod position indica-/  
/1/2/ / tion systems. In both cases, the rod position channel was properly recalibrated /  
/1/3/ / and returned to service. /  
/1/4/ /

FACILITY STATUS	%POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
/1/5/ /G/ (28)	/0/0/0/ (29)	/ NA /	(30) /A/ (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

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Virginia Electric and Power Company  
North Anna Power Station, Unit 2  
Docket No. 50-339  
Report No. LER 81-050/03L-0

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#### Description of Event

On June 19, 1981, an RCS cooldown to cold shutdown conditions was in progress when the Control Room operator observed a greater than 12 step disagreement between the Individual Rod Position Indicator (IRPI) for rod G-7 in shutdown bank "B" and the group demand indication. On June 20, a greater than 12 step disagreement was also observed on the IRPI for "B" shutdown bank rod J-9.

#### Probable Consequences of Occurrence

Operability of the control rod position indication is required to determine rod position and thereby ensure compliance with the control rod misalignment and insertion limits. Since neither control rod was misaligned and both position indications were properly restored, 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

On both occasions, the reactor was immediately tripped as per T.S. 3.1.3.3 and the rod position indicator channel 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.