

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) /0/8/2/4/8/1/ (8) /0/9/1/6/8/1/ (9)
 SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

/0/2/ / On August 24, 1981, with the Unit at full power, the Axial Flux Difference devi- /
 /0/3/ / ated greater than 5% from the target for a maximum of one minute while altering /
 /0/4/ / the core flux pattern during the performance of 1-PT-22.2, Incore vs. Excore /
 /0/5/ / Axial Offset. Since the Axial Flux Difference was restored to within the target /
 /0/6/ / band limits within the time required by the Action Statement, the public health /
 /0/7/ / and safety were not affected. This event is contrary to T.S. 3.2.1 and report- /
 /0/8/ / able pursuant to T.S. 6.9.1.9.b. /

SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
/0/9/ /R/C/ (11)	/X/ (12)	/Z/ (13)	/Z/Z/Z/Z/Z/Z/ (14)	/Z/ (15)	/Z/ (16)
LER/RO REPORT NUMBER	EVENT YEAR	SEQUENTIAL REPORT NO.	OCCURRENCE CODE	REPORT TYPE	REVISION NO.
(17) /8/1/	/-/	/0/7/0/	/ \ /	/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
/X/ (18)	/Z/ (19)	/Z/ (20)	/Z/ (21)	/0/0/0/0/ (22)	/Y/ (23)	/N/ (24)	/Z/ (25)	/Z/9/9/9/ (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

/1/0/ / The target band was exceeded while increasing delta flux as a prerequisite to /
 /1/1/ / taking a full core flux map. The problem was corrected by inserting control /
 /1/2/ / rods into the core until the Axial Flux Difference was within the required /
 /1/3/ / operating band. /
 /1/4/ /

FACILITY STATUS	%POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
/1/5/ /E/ (28)	/1/0/0/ (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
/ / / / / / / / / / / / / / /

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 81-070/03L-0

Attachment: Page 1 of 1

Description of Event

On August 24, 1981, with the unit at 100% power, the Axial Flux Difference deviated greater than 5% from the target for a maximum one minute duration while altering the core flux pattern during the performance of 1-PT-22.2, Incore vs. Excore Axial Offset, on power range nuclear instrumentation. This event is contrary to T.S. 3.2.1 and reportable pursuant to T.S. 6.9.1.9.b.

Probable Consequences of Occurrence

The Axial Flux Difference was restored to within the target band limits within 15 minutes as specified by the Action Statement. As a result, the health and safety of the general public were not affected.

Cause of Event

The target band was exceeded while increasing delta flux in preparation for full core flux mapping. The operator was monitoring the increase on the computer display which indicated an acceptable Axial Flux Difference when the high delta flux deviation alarm was received. This occurred because the alarm is two out of four detectors reading $\pm 5\%$ from target while the computer point is the average of the four detectors.

Immediate Corrective Action

The operator inserted control rods into the reactor core until the Axial Flux Difference was within the operating band specified by T.S. 3.2.1.

Scheduled Corrective Action

No scheduled corrective action is required.

Actions Taken to Prevent Recurrence

During performance of PT-22.2, operators will use individual detectors rather than the computer when monitoring delta flux.

Generic Implications

There are no generic implications associated with this event.