(7-77)

LICENSEE EVENT REPORT

UPDATE REPORT - Previous Report Date 01-15-79

CONTROL BLOCK: [| | | | | |] (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 — LICENSEE CODE: V A N A S 1 (2) — LICENSE NUMBER: 0 0 - 0 0 0 0 0 - 0 0 (3) — LICENSE TYPE: 4 1 1 1 1 (4) — CAT: (5)

CON'T 01 — REPORT SOURCE: L (6) — DOCKET NUMBER: 0 5 0 0 0 3 3 8 (7) — EVENT DATE: 0 1 0 3 7 9 (8) — REPORT DATE: 0 2 1 4 7 9 (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 A potential non-conservatism has been identified in the calculations performed in
03 monitoring the axial power distribution Fj(z) as per T.S. 4.2.6.1 and 4.2.6.2. The
04 impact of this situation has been evaluated with the determination that this event
05 did not result in conditions in which the health and safety of the general public
06 were endangered. This is reportable as per T.S. 6.9.1.8.i.
07
08

09 SYSTEM CODE	I E (11)
CAUSE CODE	B (12)
CAUSE SUBCODE	A (13)
COMPONENT CODE	X X X X X X (14)
COMP. SUBCODE	X (15)
VALVE SUBCODE	Z (16)

(17) LER/RO REPORT NUMBER:

EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
7 9	—	0 0 1	/	0 1	X	—	1

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

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 This event results from the omission of the systems and procedures used to monitor
11 Fj(z) to account for the effects of detector background. Immediate corrective
12 actions were to adjust the input values used by the surveillance systems to conser-
13 vatively account for this problem.
14

15 FACILITY STATUS: E (28) — % POWER: 0 9 7 (29) — OTHER STATUS (30): NA — METHOD OF DISCOVERY: D (31) — DISCOVERY DESCRIPTION (32): Vepco Fuel Resources

16 ACTIVITY RELEASED: Z (33) — CONTENT OF RELEASE: Z (34) — AMOUNT OF ACTIVITY (35): NA — LOCATION OF RELEASE (36): NA

17 PERSONNEL EXPOSURES — NUMBER: 0 0 0 (37) — TYPE: Z (38) — DESCRIPTION (39): NA

18 PERSONNEL INJURIES — NUMBER: 0 0 0 (40) — DESCRIPTION (41): NA

19 LOSS OF OR DAMAGE TO FACILITY (43) — TYPE: Z (42) — DESCRIPTION: NA

20 PUBLICITY — ISSUED: N (44) — DESCRIPTION (45): NA

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NRC USE ONLY

NAME OF PREPARER W. R. Cartwright PHONE: 703-894-5151

GPO 917-926

Update Report - Previous Report Date 01-15-79

Virginia Electric and Power Company
North Anna Power Station, Unit #1 Attachment: Page 1 of 1
Docket No. 50-338
Report No. LER 79-001/01X-1

Description of Event:

A potential non-conservatism has been identified in the calculations performed in monitoring the axial power distribution, Fj(z), as per T.S. 4.2.6.1 and 4.2.6.2. Based on recent operating data, the amount of this non-conservatism has been estimated to be no larger than 0.4%.

This event is reportable under Technical Specification 6.9.1.8.i since this represents the discovery of a condition not specifically considered in the safety analysis report or technical specifications that requires remedial action or corrective measures to prevent the existence or development of an unsafe condition.

Probable Consequences of Occurrence:

There are no adverse consequences associated with this occurrence. A review of the records has shown that throughout the period of its use, the APDMS has indicated that more than enough margin has existed to accomodate this non-conservatism. In view of these circumstances, it is considered that the health and safety of the general public were not endangered.

Cause of Occurrence:

This event results from the omission of the systems and procedures used to monitor Fj(z) to account for the effects of detector background (when present) on the process signal produced by the moveable incore detector system.

Immediate Corrective Action:

Immediate corrective actions were to adjust the input values used by the surveillance systems and to monitor the power shape and background values to insure that the effects of this event are accounted for in a conservative manner.

Scheduled Corrective Action:

The system and procedure used as per T.S. 4.2.6.2 were modified to account for detector background. We are discussing with Westinghouse suitable corrective measures with respect to the axial power distribution monitoring system (APDMS). The F_Q surveillance program utilized in the P250 computer has been revised to include detector background levels.

Actions Taken to Prevent Recurrence:

No actions to prevent recurrence are planned since this event is non-recurring in nature.