

LICENSEE EVENT REPORT

CONTROL BLOCK:

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(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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7 8
V A N A S 1 2 0 0 - 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5
9 14 15 25 26 30 57 58
LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT

CON'T

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REPORT SOURCE L 6 0 5 0 0 0 3 3 8 7 0 2 2 8 7 9 8 0 3 2 1 7 9 9
60 61 68 69 74 75 80
DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

During normal mode 1 operation, power range channel N42 was placed in tripped condition to allow replacement of the N-42 Delta Flux indicator. Action Statement 2c of T.S. 3.3.1.1 was entered and the quadrant power tilt ratio was monitored. The health and safety of the general public was not endangered. This event is reportable per T.S. 6.9.1.9.b.

09		SYSTEM CODE I D 11		CAUSE CODE E 12		CAUSE SUBCODE E 13		COMPONENT CODE I N S T R U 14		COMP. SUBCODE I 15		VALVE SUBCODE Z 16	
7 8		9 10		11 12		12 13		13 18		19 20		20 21	
17 LER/RO REPORT NUMBER		EVENT YEAR 7 9 21 22		SEQUENTIAL REPORT NO. 0 2 5 24 26		OCCURRENCE CODE 0 3 28 29		REPORT TYPE L 30		REVISION NO. 0 32			
ACTION TAKEN A 18		FUTURE ACTION Z 19		EFFECT ON PLANT Z 20		SHUTDOWN METHOD Z 21		HOURS 0 0 0 0 22 37 40		ATTACHMENT SUBMITTED Y 23		NPRD-4 FORM SUB. Y 24	
33 34		35 36		36 37		37 40		41 42		43 44		44 47	
PRIME COMP. SUPPLIER N 25		COMPONENT MANUFACTURER W 1 2 0 26											

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Power range channel N-42 was placed in the tripped condition to allow replacement of

1 1 an erratically reading Delta Flux indicator. The indicator was replaced without

1 2 complications and power range detector N-42 was returned to service.

1 3

1 4

8 9
FACILITY STATUS (28) 1 0 0 29 N/A (30) METHOD OF DISCOVERY (31) Z N/A DISCOVERY DESCRIPTION (32)

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY (35) N/A LOCATION OF RELEASE (36)

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION (39) N/A

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

PERSONNEL INJURIES NUMBER DESCRIPTION (41) N/A

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION (43) N/A

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

PUBLICITY ISSUED DESCRIPTION (45) N/A

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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NRC USE ONLY

NAME OF PREPARER W. R. Cartwright

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Virginia Electric and Power Company
North Anna Power Station, Unit #1
Docket No.: 50-338
Report No.: LER 79-025/03L-0

Description of Event:

During normal mode 1 operation, channel N-42 delta flux indicator was noticed to be reading erratically. The other channels did not exhibit the same behavior as channel N-42, therefore faulty indication was suspected. Although the indicator was still within calibration tolerances, replacement was desired. Power range channel N-42 was placed in a tripped condition and channel N-42 delta flux indicator was replaced within 12 hours.

Probable Consequences of Event:

The delta flux indication associated with the power range detectors gives a continuous indication of flux shape within the core. Operational requirements limit delta flux to certain values to insure hot channel factors are not exceeded. Although there is no reactor trip associated with the delta flux indication, it is still a safety related indication.

There are other methods for determining in core flux shapes in addition to three other delta flux indicator channels. Disabling one channel of power range instrumentation did not affect the safe operation of the plant or the health and safety of the general public.

Cause of Occurrence:

The cause of the erratic indication of channel N-42 delta flux indication was due to indicator failure.

Immediate Corrective Actions:

Channel N-42 delta flux indicator was replaced.

Subsequent Corrective Action:

No further action required.

Action Taken to Prevent Recurrences:

No further action required.