

CONTROL BLOCK:

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(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CONT

0	1
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REPORT SOURCE

L	6	0	5	0	0	0	3	3	8	7	1	2	1	9	7	8	8	0	1	0	3	7	9	9
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DOCKET NUMBER

EVENT DATE

REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

During performance of a routine periodic test to measure the reactor "rate" trip time constant for NIS channel N-42, the allowable limits were not observed. The measured value of 5.5% of Rated Thermal Power with a time constant of 1.98 seconds was less than the Tech. Spec. requirement of ≥ 2 seconds, as specified in Table 2.2-1. This event is reportable under T.S. 6.9.1.9.b. Because redundant instrumentation was available, this event did not jeopardize the health and safety of the general public.

7	8	9	SYSTEM CODE		CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE			COMP. SUBCODE	VALVE SUBCODE				
0	9		I	A	E	X	I	N	S	I	T	R	U	Y	Z
7		8	9	10	11	12	13			18	19	20			
LER/RO REPORT NUMBER			EVENT YEAR			SEQUENTIAL REPORT NO.			OCCURRENCE CODE		REPORT TYPE	REVISION NO.			
17			7	8	23	1	2	9	27	0	3	L	0		
21			22		23	24	25	26	27	28	29	30	31		
ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD		HOURS	ATTACHMENT SUBMITTED		NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER				
E	Z	Z	Z		0	0	0	0	Y	N	N	W			
18	19	20	21	22	23	24	25	26	27	28	29	30			

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 This problem was corrected by performance of an instrument calibration procedure. It

1 1 was apparently caused by electronic drift in the circuitry. The periodic test was

subsequently performed with satisfactory results.

7 8 9
FACILITY STATUS % POWER OTHER STATUS (30) METHOD OF DISCOVERY DISCOVERY DESCRIPTION (32)

1 5 | E | (28) | 0 | 9 | 8 | (29) | N/A | | B | (31) | Instrument Technician Observation |

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

ACTIVITY CONTENT
RELEASED OF RELEASE AMOUNT OF ACTIVITY (35)
1 6 Z 33 Z 34 N/A 44

LOCATION OF RELEASE (36)
N/A 45 80

PERSONNEL EXPOSURES					
NUMBER			TYPE	DESCRIPTION	
1	7	0 0 0	(37) Z	(38)	N/A

PERSONNEL INJURIES		DESCRIPTION	
NUMBER			
1	8	0	0
0	0	0	40
		N/A	

7		8	9	11		12
		LOSS OF OR DAMAGE TO FACILITY				
		TYPE DESCRIPTION				
1	9	Z	42	N/A		

7 8 9 10
PUBLCITY
ISSUED DESCRIPTION (45) N/A
2 0 7 44
NRC USE ONLY

NAME OF PREPARER

W. R. Cartwright

PHONE: 703-894-5151

Description of Event:

On 12/8/78, a period test was performed to measure the rate trip time constant for NIS channel N-42. The allowable limit presented in table 2.2-1 of the North Anna Technical Specification is a ≥ 2 second time constant for a $\leq 5.5\%$ change in rated thermal power. The measured value for this transient was 1.98 seconds as obtained from extrapolation of the test data. This is reportable as per T.S. 6.9.1.9.b.

Probable Consequences of Occurrence:

The power range positive rate trip provides protection against rapid flux increases which are characteristic of rod ejection events from any power level. The power range negative rate trip provides protection to ensure that the minimum DNBR is maintained above 1.30 for multiple control rod drop accidents. The rate trips are obtained from outputs of the four power range detectors. These outputs traverse 4 separate protection channels which make up a 2 of 4 "high neutron flux rate reactor trip." Since the design basis for this protection assumes a single failure, this event would not have prevented the reactor trip or subsequent equipment operation if protection was required. Therefore, the health and safety of the general public was not jeopardized.

Cause of Occurrence:

This event was caused by some electronic drift in the circuitry since the previous calibration. It is not believed that this drift was excessive or required more than recalibration to correct.

Immediate Corrective Action:

The immediate corrective action was to perform the appropriate instrument calibration procedure. The periodic test was then successfully completed.

Scheduled Corrective Action:

No further action is required.

Action Taken to Prevent Recurrence:

No further action is required.