Virginia Electric and Power Company North Anna Power Station P. O. Box 402 Mineral, Virginia 23117

April 8, 1995

.

U. S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555 NAPS: MPW Docket No. 50-338 License No. NPF-4

Dear Sirs:

Pursuant to North Anna Power Station Technical Specifications, Virginia Electric and Power Company hereby submits the following Licensee Event Report applicable to North Anna Unit 1.

Report No. 50-338/96-003-00

This Report has been reviewed by the Station Nuclear Safety and Operating Committee and will be forwarded to the Management Safety Review Committee for its review.

Very truly yours,

JBel

J. A. Stall Station Manager

Enclosure:

cc: U.S. Nuclear Regulatory Commission 101 Marietta Street, N.W. Suite 2900 Atlanta, Georgia 30323

> R. D. McWhorter NRC Senior Resident Inspector North Anna Power Station

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NRC FORM 366 (5-92)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104 **EXPIRES 5/31/95**

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

ESTIMATED BUNDEN PER RESPONSE TO COMPLY WITH THIS
INFORMATION COLLECTION REQUEST: 50.0 HOURS. FORWARD
COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION
AND RECORDS MANAGEMENT BRANCH (MNBB 7714). U.S. NUCLEAR
REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO
THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF
MANAGEMENT AND BUDGET, DC 20503.

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North Anna	Power	Station	Unit	1

TITLE (4)

PAGE (3) DOCKET NUMBER (2) 1 OF 3 05000338

DATE (15)

MODE 3 ENTRY WITH INOPERABLE REDUNDANT HEAT TRACE CIRCUIT DUE TO PERSONNEL ERROR

EVENT DATE (5) LER NUMBER (6)				REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)							Approximation in the state of the			
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISIO	R R	MONTH	DAY	YEAR	FACILITY NAME					DOCKET NUMBER 05000		A
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ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

NO X

On March 14, 1996, at approximately 2000 hours, with Unit 1 in Mode 1, (75 percent power), it was determined that Mode 3 was entered at 0511 hours on March 11, 1996, with the redundant boron injection flow path heat trace circuit inoperable. Both the normal and redundant circuits are required to be operable by Technical Specifications (TS) 3.5.4.2 in Modes 1, 2, or 3. Technical Specification 3.0.4 is applicable, where entry into an Operational Mode or other specified applicability condition shall not be made unless the conditions of the Limiting Conditions for Operations are met without reliance on provisions contained in the Action statement. This event is reportable pursuant to 10 CFR 50.73 (a)(2)(i)(B) for any operation or condition prohibited by TS 3.0.4.

The cause of the event has been determined to be personnel error. Tracking and review of the boron injection flow path heat trace circuit condition was inadequate.

This event posed no significant safety implications because the boron injection flow path temperatures were verified, once every six hours, to have been greater than the TS limit of 115 degrees Fahrenheit since entering Mode 3. Therefore, the health and safety of the public were not affected at any time during this event.

NCR FORM 366 (5-92)

YES

(If yes, completed EXPECTED SUBMISSION DATE)

NRC FORM 366 (5-92)	APPROVED BY OMB NO. 3150-0104 EXPIRES 5/31/95						
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North Anna Power S	ver Station Unit 1	05000338	96	003	00	2 OF 3	

1.0 Description of the Event

On March 14, 1996, at approximately 2000 hours, with Unit 1 in Mode 1, 75 percent power, it was determined that Mode 3 was entered at 0511 hours on March 11, 1996, with the redundant boron injection (EIIS System - CB) flow path heat trace (EIIS System - FE) circuit inoperable. Both the normal and redundant circuits are required to be operable by Technical Specifications (TS) 3.5.4.2 in Modes 1, 2, or 3. Technical Specification 3.0.4 is applicable, where entry into an Operational Mode or other specified applicability condition shall not be made unless the conditions of the Limiting Conditions for Operations are met without reliance on provisions contained in the Action statement.

During the Unit 1 refueling outage, with the unit defueled, it was noted that the heat trace circuit for the boron injection flow path was not maintaining temperature. On February 22, 1996, the low temperature alarm (EIIS Component - TA) locked in at 113 degrees Fahrenheit. The low temperature alarm is received at 132.5 degrees Fahrenheit. The redundant circuit was in operation at the time. The normal heat trace circuit was placed in service and the line temperature increased above the TS minimum temperature of 115 degrees Fahrenheit. The flow path temperature was verified to be above the TS minimum temperature once every six hours. A work request was initiated for the redundant circuit. A work order was subsequently entered in the work control system to check and/or repair the redundant circuit.

On March 11, 1996, Unit 1 entered Mode 3 at approximately 0511 hours with the redundant boron injection flow path heat trace circuit inoperable. On March 14, 1996, during the performance of heat trace functional testing it was noted that the redundant circuit for the boron injection flow path was still inoperable and the unit was in Mode 1.

2.0 Significant Safety Consequences and Implications

This event posed no significant safety implications because the boron injection flow path temperatures were verified, once every six hours, to have been greater than the TS limit of 115 degrees Fahrenheit since entering Mode 3. Therefore, the health and safety of the public were not affected at any time during this event.

These events are reportable pursuant to 10 CFR 50.73 (a) (2) (i) (B) for any operation or condition prohibited by TS 3.0.4.

NRC FORM 366A (5-92)

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FACILITY NAME (1)	DOCKET NUMBER (2)		(6)	PAGE (3)		
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 3.0 Cause of the Event 3.0 The cause of the event has been dreview of the boron injection flow path heat tracing system that requires both the norm the same time while in Modes 1 - 3 associated with the heat trace circuldescription. As such, reviews of edredundant heat trace was associated entered. 4.0 Immediate Corrective Action The boron injection flow path temports limit of 115 degrees Fahrenheit and continued to verify the normality temporature greater than 115 degrees. 5.0 Additional Corrective Actions The redundant heat trace was replated by a continued to verify the normality temporature greater than 115 degrees. 5.0 Additional Corrective Actions The redundant heat trace was replated by a continued to prevent Recurrent. The mark number descriptions for the associated power supply equipment (i.e. TECH SPEC BIT). Any addition necessary pending the results of the results of the state trace text. None 8.0 Additional Information 	etermined to be persi- ath heat trace circuit ing is unique in that, it al and redundant heat that and redundant heat that are similar to othe quipment status failed ed with the boron inje is eratures were verified since entering Mode circuit was maintainin ees Fahrenheit once s aced, tested and retu eing performed on the nce the boron injection floor thave been changed onal corrective actions he root cause evaluation in a contractive evaluation	onnel e conditio is the o at trace numbe at trace to iden oction fl d to hav 3. Ent g the a every s rned to is even ow path d to inc s will be ion.	error. Tracki on was inad only borated circuits to b er descriptio tracing with ntify that the ow path and we been great tered action affected flow six hours.	ng and equate. The water he operable ns no unique inoperable Mode 3 we ater than the of TS 3.5.4 path March 15, g circuits and e identifient ed as	ne e at evas	
During this period, Unit 2 was open event.	ating at 100% power	and wa	as not affect	ed by this		