10 CFR 50.73

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

May 17, 1994

U. S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555 NAPS: MPW

Docket Nos. 50-338

50-339

License Nos. NPF-4

NPF-7

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 Units 1 & 2.

Report No. 50-338/94-003-00

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,

G. E. Kane

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 1877

NRC FORM 366

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 BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS 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, WASHINGTON, DC 20509.

FACILITY NAME (1)

North Anna Units 1 & 2

05000 338

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TITLE (4)

CONTAINMENT HYDROGEN ANALYZER INOPERABLE DUE TO A FAILED TUBING FITTING

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)				
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OPERATING MODE (9)	Π	1	THIS REPORT IS SUBMITTED PURSUA 20.402(b)				UANT TO THE REQUIREMENTS 20.405(b)			10 CFR §: (Check one or more 50.73(a)(2)(iv)	of the following) (11) 73.71(b)		
POWER LEVEL (10)	100		20.405(a)(1)(i) 20.405(a)(1)(ii)			50.36(c	AND THE RESERVE AND THE			50.73(a)(2)(v) 50.73(a)(2)(vii)	73 71(c) OTHER		
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NAME

Greg Kane, Station Manager

TELEPHONE NUMBER (Include Area Code)

(703) 894-2101

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ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On April 26, 1994, at 0815 hours, with both units in Mode 1, 100 percent power, a seven day action was entered per Technical Specification (TS) 3.6.4.1 to leak check piping associated with the containment hydrogen analyzers as required by TS 6.8.4. At approximately 1100 hours a leak was discovered on the Unit 1 containment hydrogen analyzer inlet sample fitting. The fitting was inspected and noted to be tight, and required above normal tightening force to stop the leak. System leakage testing was completed and the TS action was cleared at 1612 hours on April 26, 1994. It was postulated that this condition had existed since the last performance of an instrument calibration procedure on February 2, 1994. This condition rendered the analyzer inoperable for that time period. As such, the allowed 30 day outage time for one of the shared analyzers required by TS 3.6.4.1.a was exceeded. The condition is prohibited by TS and is reportable pursuant to 10CFR50.73 (a)(2)(i)(B).

The cause of the event is mechanical failure of the fitting resulting in an inoperable analyzer.

This event posed no significant safety implications since alternative means were available to sample containment hydrogen levels throughout the event. Therefore, the health and safety of the public were not affected at any time.

NRC FORM 366A

U.S. NUCLEAR REGULATORY

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

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH IMNBB 77-14), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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TEXT (If more spece is required, use additional NRC Form 366A's) (17)

#### 1.0 Description of the Event

On February 4, 1994 the Unit 1 containment hydrogen analyzer (EIIS System IP, Component AA) was removed from service to perform its calibration. During calibration of the analyzer the sample line (EIIS Component TBG) was disconnected to provide a flow path for the sample pump (EIIS Component P). When the calibration was completed the sample line was reconnected, verified and the analyzer was returned to operable status.

On April 26, 1994, at 0815 hours, with both units in Mode 1, 100 percent power, a seven day action was entered per Technical Specification (TS) 3.6.4.1 to leak check piping associated with the containment hydrogen analyzers as required by TS 6.8.4. At approximately 1100 hours a leak was discovered on the Unit 1 containment hydrogen analyzer inlet sample fitting (EIIS Component CPLG). The fitting was inspected and noted to be tight, and required above normal tightening force to stop the leak. System leakage testing was completed and the TS action was cleared at 1612 hours on April 26, 1994. It was postulated that this condition had existed since the last performance of an instrument calibration procedure on February 2, 1994. This condition rendered the analyzer inoperable for that time period. As such, the allowed 30 day outage time for one of the shared analyzers required by TS 3.6.4.1.a was exceeded. The condition is prohibited by TS and is reportable pursuant to 10CFR50.73 (a)(2)(i)(B).

Subsequent to identification of the leak, testing was performed to quantify the fitting leakage to assess the consequences had a design basis accident occurred. After determining the leakage and adding it to the current leakrate values for both units, the resultant total leakrate would still be within the requirements of the technical specifications. However, the leakage was sufficient to render the analyzer inoperable once the containment returned to sub-atmospheric conditions because the actual hydrogen sample would be significantly diluted. Therefore, the analyzer was inoperable for greater than the time limits specified in the TS.

## 2.0 Significant Safety Consequences and Implications

This event posed no significant safety implications since alternative means were available to sample containment hydrogen levels throughout the event. In addition, analyses documented in the Updated Final Safety Analysis Report show that hydrogen concentration, with no controls employed, for the first 48 hours following a Loss Of Coolant Accident remains below 4 percent. Therefore, the health and safety of the public were not affected at any time.

NRC FORM 366A

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# LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

#### 3.0 Cause of the Event

The cause of the event is a mechanical failure of the sample line fitting. Continued removal and recoupling of the fitting, during each quarterly calibration, resulted in a connection that ultimately would not seal properly when reinstalled by procedure.

#### 4.0 Immediate Corrective Actions

The containment hydrogen analyzer sample fitting was tightened and the leak stopped. The leak test of the Unit 1 containment atmosphere clean-up system (EIIS System BB) was completed and the seven day TS action cleared.

#### 5.0 Additional Corrective Actions

The Unit 2 containment hydrogen analyzer leak check we completed satisfactorily on April 26, 1994.

A station work order has been issued to replace the fitting during the next calibration of the Unit 1 containment hydrogen analyzer.

#### 6.0 Actions to Prevent Recurrence

The testing configuration has been modified or that the sample line fittings will not have to be disconnected to provide a flow path, or the sample pump. Existing vent taps in the containment atmospheric clean up system will be used for this purpose.

## 7.0 Similar Events

Unit 2 LER N2-93-016-00, dated May 27, 1993, was written to report an inoperable hydrogen analyzer due to a pressure switch sensing line being disconnected. This event was due to personnel error where the sensing line was not reconnected following testing and the procedure did not require second verification.

## 8.0 Additional Information

None