

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

October 15, 1996

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

NAPS: JRP
Docket Nos. 50-338
50-339
License No. 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. 50-338/96-007-00

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,


W. R. Matthews
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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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 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.

FACILITY NAME (1)

North Anna Power Station Unit 1

DOCKET NUMBER (2)

05000338

PAGE (3)

1 OF 3

TITLE (4)

FAILURE TO FUNCTIONALLY CHECK WASTE GAS DECAY TANK HYDROGEN/OXYGEN ANALYZER ALARM

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
09	24	96	96	007	00	10	15	96	North Anna Unit 2	05000339
									FACILITY NAME	DOCKET NUMBER
OPERATING MODE (9)		1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)							
POWER LEVEL (10)		100	20.402(b)			20.405(c)			50.73(a)(2)(iv)	73.71(B)
			20.405(a)(1)(i)			50.36(c)(1)			50.73(a)(2)(v)	73.71(C)
			20.405(a)(1)(ii)			50.36(c)(2)			50.73(a)(2)(vii)	OTHER
			20.405(a)(1)(iii)		X	50.73(a)(2)(i) (B)			50.73(a)(2)(viii)(A)	(Specify in Abstract below End in Text, NRC Form 366A)
			20.405(a)(1)(iv)			50.73(a)(2)(ii)			50.73(a)(2)(viii)(B)	
			20.405(a)(1)(v)			50.73(a)(2)(iii)			50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME

Mr. W. R. Matthews

TELEPHONE NUMBER (Include Area Code)

(540) 894-2101

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, completed EXPECTED SUBMISSION DATE)	X	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

On September 24, 1996, with Unit 1 in Mode 1 at 100 percent power and Unit 2 in Mode 6, it was noted that a monthly surveillance test required by Technical Specification (TS) 4.3.3.11 failed to include a functional test of the high oxygen alarm associated with the Waste Gas Decay Tank (WGDT) Hydrogen / Oxygen Analyzer. TS 3.3.3.11 Action was entered. The surveillance test was revised and the WGDT high oxygen alarm was functionally tested and the action cleared.

The cause of the failure to functionally test the WGDT oxygen alarm has been attributed to personnel error due to a failure to develop adequate procedures to cover TS surveillance requirements. This event is reportable pursuant to 10 CFR 50.73 (a)(2)(i)(B), as a condition prohibited by Technical Specifications.

This event posed no significant safety implications since WGDT oxygen levels were verified every 12 hours to be below 2% and quarterly Instrumentation Calibration Procedure testing of the alarm demonstrated that it has operated correctly since its installation. Therefore, the health and safety of the public were not affected at any time during this event.

LICENSEE EVENT REPORT (LER)

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

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FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
North Anna Power Station Unit 1		05000338	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	2 OF 3
			96	007	00	

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

1.0 Description of the Event

On September 24, 1996, with Unit 1 in Mode 1 at 100 percent power and Unit 2 in Mode 6, it was noted that a monthly surveillance test required by Technical Specification (TS) 4.3.3.11 failed to include a functional test of the greater than 2% oxygen alarm associated with the Waste Gas Decay Tank (WGDT) Hydrogen / Oxygen Analyzer [EIS System WE, Component AA].

Based on this failure to perform a functional check of the oxygen alarm, the WGDT analyzer was declared inoperable at 1135 hours and Technical Specification (T.S.) 3.3.3.11 Action (a) was entered. The Action to take grab samples every 24 hours was cleared when the WGDT analyzer was restored to service at 2137 hours on September 24, 1996, following satisfactory performance of a revised periodic test which incorporated the necessary oxygen analyzer functional checks.

2.0 Significant Safety Consequences and Implications

This event posed no significant safety implications since the WGDT oxygen concentration is logged by Operations every 12 hours to verify that WGDT oxygen levels are maintained below 2% and quarterly Instrumentation Calibration Procedure testing of the alarm demonstrated that it has operated correctly since its installation. Therefore, the health and safety of the public were not affected at any time during this event. This event is reportable pursuant to 10 CFR 50.73 (a)(2)(i)(B), as a condition prohibited by Technical Specifications.

3.0 Cause of the Event

The cause of the failure to develop adequate procedures to functionally check the >2% oxygen alarm has been attributed to personnel error due to a failure to recognize the importance of testing all of the conditions that would cause the alarm.

A review of Instrument Calibration, Preventative Maintenance and Periodic Test procedures as well as design change supporting documentation revealed that the requirement to functionally check the >2% oxygen alarm had been overlooked since installation of a Speedomax 100 Recorder was installed in the Control Room on April 3, 1990. Completed Preventative Maintenance and Periodic Surveillance Tests associated with the WGDT, indicated that surveillance had been met prior to April 3, 1990.

4.0 Immediate Corrective Actions

The WGDT Hydrogen/Oxygen analyzer was declared inoperable on September 24, 1996 at 1135 hours and Technical Specification (T.S.) 3.3.3.11 Action (a) was entered which required that grab samples be taken every 24 hours.

*** LICENSEE EVENT REPORT (LER)**

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North Anna Power Station Unit 1		05000338	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	3 OF 3
			96	007	00	

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5.0 Additional Corrective Actions

Periodic test 1-PT-45.9.3, Rev 5, - Waste Gas Decay Tank Outlet Oxygen Functional Test (O2-GW-102) was revised, approved and performed satisfactorily on September 24, 1996 at 2137 hours. This cleared the action and the grab sample requirement was subsequently terminated.

6.0 Actions to Prevent Recurrence

Revision of the affected Periodic test and continued Station Management coaching regarding verbatim compliance with procedures including Technical Specifications and the Updated Final Safety Analysis Report should be sufficient to prevent recurrence.

Additionally, since the initiation of the modification to replace the WGDT Hydrogen / Oxygen analyzer, the Design Control and procedure revision processes have undergone significant enhancements that would have identified the failure to functionally check all of the conditions that would cause a >2% oxygen alarm.

7.0 Similar Events

No previous failures to functionally check TS required WGDT alarms have been identified.