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VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION
P. O. BOX 402
MINERAL, VIRGINIA 23117

10 CFR 50.73

December 30, 1992

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

NAPS:MPW
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

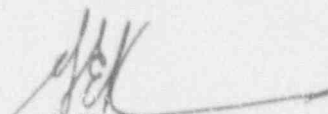
Dear Sirs:

The Virginia Electric and Power Company hereby submits the following Licensee Event Report applicable to North Anna Units 1 & 2.

Report No. 50-338/92-016-00

This Report has been reviewed by the Station Nuclear Safety and Operating Committee and will be forwarded to the Corporate 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

Mr. M. S. Lesser
NRC Senior Resident Inspector
North Anna Power Station

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PDR ADCCK 05000338
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LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 70.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)										DOCKET NUMBER (2)										PAGE (3)											
North Anna Power Station Units 1 & 2										050003381										OF04											
TITLE (4) TWO CONDITIONS OUTSIDE OF THE TECHNICAL SPECIFICATIONS OCCURRED DUE TO INADEQUATE INITIAL DEVELOPMENT OF TEST PROCEDURES AND LACK OF SPECIFIC TECHNICAL SPECIFICATION GUIDANCE																															
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 NAMES						DOCKET NUMBER(S)							
																		North Anna Unit 2						05000339							
																								DOCKET NUMBER(S)							
1		2		03		92		92		-016		-00		12		30		92								05000339					
OPERATING MODE (9)						THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)																									
1						20.402(b)						20.405(c)						50.73(a)(2)(iv)						73.71(b)							
POWER LEVEL (10)						20.405(a)(1)(i)						50.36(c)(1)						50.73(a)(2)(v)						73.71(c)							
050						20.405(a)(1)(ii)						50.36(c)(2)						50.73(a)(2)(vi)						OTHER (Specify in Abstract below and in Text NRC Form 308A)							
						20.405(a)(1)(iii)						<input checked="" type="checkbox"/> 50.73(a)(2)(i)						50.73(a)(2)(vii)(A)													
						20.405(a)(1)(iv)						50.73(a)(2)(ii)						50.73(a)(2)(vii)(B)													
						20.405(a)(1)(v)						50.73(a)(2)(iii)						50.73(a)(2)(viii)													
LICENSEE CONTACT FOR THIS LER (12)																															
NAME															TELEPHONE NUMBER																
G. E. Kane, Station Manager																															
AREA CODE																															
703															894-2101																
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																															
CAUSE		SYSTEM		COMPONENT		MANUFACTURER		REPORTABLE TO NRC		CAUSE		SYSTEM		COMPONENT		MANUFACTURER		REPORTABLE TO NRC		CAUSE		SYSTEM		COMPONENT		MANUFACTURER		REPORTABLE TO NRC			
SUPPLEMENTAL REPORT EXPECTED (14)																															
YES (If yes, complete EXPECTED SUBMISSION DATE)															<input checked="" type="checkbox"/> NO																
EXPECTED SUBMISSION DATE (15)															MONTH DAY YEAR																
ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)																															
<p>On December 3, 1992, with Unit 1 at 50 percent power (Mode 1) and Unit 2 at 100 percent power (Mode 1) the continuing evaluation of surveillance requirements being performed as a corrective action reported under LER 50-338/92-007-00 identified two conditions outside the actions of Technical Specification (TS) 3.3.1.1, Table 3.3-1 Action 2.(a) and 3.6.2.2. During a review of the nuclear instrumentation (NI) periodic tests, it was discovered that an inoperable condition existed with the power range channel and the one hour action of the TS was not applied. Further review identified a condition where performance of the undervoltage (UV) periodic test for the 1/2 H & J Emergency Buses simultaneously renders a recirculation spray pump and casing cooling pump inoperable for a brief time. These events are reportable pursuant to 10CFR50.73 (a) (2) (i) (B).</p> <p>The cause of the events was inadequate initial development of test procedures and lack of specific guidance in the TS. The controlling procedures allowed situations outside of the TS limiting condition of operation (LCO).</p> <p>No significant safety consequences resulted from the first event because the minimum number of operable power range NI channels required by TS 3.3.1.1, Table 3.3-1 was maintained. No consequences resulted from the second event because the redundant train equipment was operable and capable of performing the design function. Therefore, the health and safety of the public were not affected at any time during this event.</p>																															

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 RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (3)				PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
North Anna Power Station Units 1 & 2	05000338	92	016	00	02	OF	04

TEXT (If more space is required, use additional NRC Form 360A) (17)

1.0 Description of the Event

On December 3, 1992, with Unit 1 at 50 percent power (Mode 1) and Unit 2 at 700 percent power (Mode 1) the continuing evaluation of surveillance requirements being performed as a corrective action reported under LER 50-338/92-007-00 identified two conditions outside the actions of Technical Specification (TS) 3.3.1.1, Table 3.3-1 Action 2.(a) and 3.6.2.2. During a review of the NI periodic tests, it was discovered that an inoperable condition existed when the power range channels (EIIS System Identifier-JD, Component Identifier-CHA) are being tested. The detector input signal cable (EIIS Component Identifier-CBL) is disconnected from the power range drawer without placing the channel into a trip condition to allow testing of the entire circuit. Operations personnel were not notified that the channel was inoperable. As such, the one-hour action of TS 3.3.1.1, Table 3.3-1 Action 2.(a) for an inoperable power range NI was exceeded without the channel being placed in the trip condition.

Further review identified a condition during the performance of the functional test for the emergency bus undervoltage/degraded voltage relay 27A (EIIS System Identifier-EK, Component Identifier-27) which simultaneously renders a recirculation spray pump (EIIS System Identifier-BE, Component Identifier-P) and casing cooling pump (EIIS System Identifier-BE, Component Identifier-P) inoperable for a brief time. During the time the test button for the 27A relay at the control cabinet is depressed, to simulate an undervoltage condition, the recirculation spray (RS) and casing cooling pumps are locked out. The pumps remain inoperable until after the 35 second UV timer (EIIS Component Identifier-TMR) is reset. This test typically takes approximately two minutes. This condition is outside the TS 3.6.2.2 LCO and the actions of TS 3.0.3 apply.

These events are reportable pursuant to 10CFR50.73 (a)(2)(i)(B) for conditions prohibited by the Technical Specifications.

2.0 Significant Safety Consequences and Implications

No significant safety consequences resulted from the first event because the minimum number of operable power range NI channels required by TS 3.3.1.1, Table 3.3-1 was maintained. No consequences resulted from the second event because the redundant train equipment was operable and capable of performing the design function. Therefore, the health and safety of the public were not affected at any time during this event.

3.0 Cause of the Event

The cause of the first event was inadequate initial development of the periodic test procedures. The power range channel calibration and functional test procedures lacked the guidance necessary to ensure the actions required by TS 3.3.1.1, Table 3.3-1 Action 2.(a) were met.

The cause of the second event was inadequate initial development of the periodic test procedure. The periodic test procedures controlling the UV

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FACILITY NAME (1) North Anna Power Station Units 1 & 2	DOCKET NUMBER (2) 05000338	LER NUMBER (6) <table border="1"><thead><tr><th>YEAR</th><th>SERIAL NUMBER</th><th>REVISION NUMBER</th></tr></thead><tbody><tr><td>92</td><td>016</td><td>00</td></tr></tbody></table>	YEAR	SERIAL NUMBER	REVISION NUMBER	92	016	00	PAGE (3) 03 OF 04
YEAR	SERIAL NUMBER	REVISION NUMBER							
92	016	00							

TEXT (if more space is required, use additional NRC Form 365A) (17)

3.0 Cause of the Event (continued)

testing of the emergency buses had not been adequately reviewed to determine that a TS 3.0.3 action would occur every time the test was performed. In addition, the initial development of TS 3.6.2.2 did not provide provisions for the recirculation spray and casing cooling pumps being simultaneously inoperable even though design basis requirements remain satisfied.

4.0 Immediate Corrective Actions

Changes to the power range channel functional periodic tests, instrument calibration procedures and periodic tests were completed to ensure compliance with TS. A change to the TS for containment recirculation spray system was also initiated to provide an appropriate action statement for inoperable RS subsystems.

5.0 Additional Corrective Actions

The station deviation reports concerning the inoperable conditions of the NI channels and recirculation spray and casing cooling pumps were placed in required reading for operations personnel.

The instrumentation and periodic test procedures controlling power range channel calibrations were revised to include guidance for complying with the TS action statement requirements. Additionally, the periodic test procedures controlling power range channel functional testing have also been revised.

The NI channel functional tests were performed satisfactorily on December 20, 1992, for Unit 1 and on December 18, 1992, for Unit 2 using the new revised periodic test procedures.

The periodic test procedures for degraded voltage/loss of voltage functional tests for the emergency buses were revised to notify the shift supervisor of the impending conditions.

6.0 Actions to Prevent Recurrence

Revisions to the periodic tests for channel functional testing and the revisions to the instrument channel calibration procedures will ensure compliance with the TS requirements. A change to TS 3.3.1.1 that will allow NI testing with the detector cable disconnected for greater than one hour is being evaluated.

A change to TS 3.6.2.2 is aggressively being pursued to clarify the components associated with a train of the containment recirculation spray system and revise the actions to be taken when a failure of components in the containment recirculation spray system occurs. Also, the revision to the functional test for the emergency buses will ensure the shift supervisor is aware of the equipment conditions.

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0 | 5 | 0 | 0 | 0 | 3 | 3 | 8 | 9 | 2 | — | 0 | 1 | 6 | — | 0 | 0 | 0 | 4 | OF | 0 | 4

TEXT (If more space is required, use additional NRC Form 305A's) (17)

7.0 Similar Events

The following LERs were written identifying missed surveillances due to inadequate procedures and/or inadequate initial development of procedures used to satisfy TS: 1/2-92-007, 1/2-92-009-01, 1/2-92-011, 1/2-92-013, 1/2-92-014.

8.0 Additional Information

Technical Specification 3.0.3 will be voluntarily entered during each performance of the emergency bus UV periodic test (PT) until such time that the TS change is submitted and approved. This has been discussed with the NRC Resident Inspector, NRR, and Region II. Therefore, notification of the scheduled entries into TS 3.0.3 during each performance of the PT is included as part of this Licensee Event Report.