

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) North Anna Unit 2 DOCKET NUMBER (2) 0 5 0 0 0 3 3 9 1 OF 0 2

TITLE (4) Casing Cooling Tank Discharge To Unit 2 Containment Sump

| 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) | | | | | | | | | | | | |
| 1 | 0 | 2 | 5 | 8 | 4 | 8 | 4 | 0 | 0 | 9 | 0 | 0 | 1 | 1 | 9 | 8 | 4 | 0 | 5 | 0 | 0 | 0 |

| OPERATING MODE (9) | | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|--|---|-----------|-----------------|------------------|-------------------|------------------|-----------------|-----------------|------------------|-------------------|------------------|-----------------|------------------|-------------------|-----------------------|-----------------------|------------------|-----------------|----------------|-----------------|------------------|----------------------|----------------------|-----------------|----------|----------|--|
| POWER LEVEL (10) | 0 | 0 | 0 | 20.402(b) | 20.406(a)(1)(i) | 20.406(a)(1)(ii) | 20.406(a)(1)(iii) | 20.406(a)(1)(iv) | 20.406(a)(1)(v) | 20.406(a)(2)(i) | 20.406(a)(2)(ii) | 20.406(a)(2)(iii) | 20.406(a)(2)(iv) | 20.406(a)(2)(v) | 20.406(a)(2)(vi) | 20.406(a)(2)(vii) | 20.406(a)(2)(viii)(A) | 20.406(a)(2)(viii)(B) | 20.406(a)(2)(ix) | 50.73(a)(2)(iv) | 50.73(a)(2)(v) | 50.73(a)(2)(vi) | 50.73(a)(2)(vii) | 50.73(a)(2)(viii)(A) | 50.73(a)(2)(viii)(B) | 50.73(a)(2)(ix) | 73.71(b) | 73.71(c) | OTHER (Specify in Abstract below and in Text, NRC Form 366A) |

LICENSEE CONTACT FOR THIS LER (12) E. Wayne Harrell TELEPHONE NUMBER 7 0 3 8 9 4 - 5 1 5 1

| COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13) | | | | | | | | | | |
|--|--------|-----------|----------------|---------------------|-------|--------|-----------|----------------|---------------------|--|
| CAUSE | SYSTEM | COMPONENT | MANUFAC. TURER | REPORTABLE TO NRCDS | CAUSE | SYSTEM | COMPONENT | MANUFAC. TURER | REPORTABLE TO NRCDS | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

SUPPLEMENTAL REPORT EXPECTED (14) YES (If yes, complete EXPECTED SUBMISSION DATE) X NO EXPECTED SUBMISSION DATE (15) MONTH DAY YEAR

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

ABSTRACT

On October 25, 1984, with Unit 2 in Mode 5, 81,250 gallons of borated water discharged from Unit 2 Casing Cooling Tank and into the recirculation spray pump sump, flooding the floor of Unit 2 containment. This event was caused by the inadvertent opening of a casing cooling line isolation valve during functional testing of unrelated equipment while performing the Containment Depressurization Actuation (CDA) functional test.

Water was reported in the Unit 2 containment basement and the valve was subsequently closed. The water was pumped to a Boron Recovery Tank and the Casing Cooling Tank was refilled to its Technical Specification limits from the Unit 2 Refueling Water Storage Tank.

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PDR ADOCK 05000339
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

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|--|--|----------------|-------------------|-----------------|----------|-----|
| FACILITY NAME (1) North Anna Unit 2 | DOCKET NUMBER (2) 0 5 0 0 0 3 3 9 8 4 - | LER NUMBER (6) | | | PAGE (3) | |
| | | YEAR | SEQUENTIAL NUMBER | REVISION NUMBER | | |
| | | 8 4 - | 0 0 9 - | 0 0 | 0 2 OF | 0 2 |

TEXT (If more space is required, use additional NRC Form 365A's) (17)

On October 25, 1984, with Unit 2 in Mode 5, 81,250 gallons of borated water discharged from Unit 2 Casing Cooling Tank (EIIS Component Identifier TK) (116,500 gallon capacity) and into the 'A' recirculation spray pump (EIIS Component Identifier P) sump, flooding the floor of Unit 2 containment. This event was caused by the inadvertent opening of MOV-RS-200A ('A' Train casing cooling line isolation valve, EIIS Component Identifier ISV) during functional testing of unrelated equipment (MOV-SW-204A and D) by the Containment Depressurization Actuation (CDA) functional test.

Two hours and fifteen minutes after the initiation of the event, cold water (18 inches) was reported in the containment basement by station personnel, and MOV-RS-200A was subsequently closed. The water was pumped to a Boron Recovery Tank (EIIS Component Identifier TK), and the Casing Cooling Tank was refilled to its Technical Specification limits from the Unit 2 Refueling Water Storage Tank (EIIS Component Identifier TK). A walkdown of the area was conducted and all affected equipment was identified. Two hydraulic snubbers (EIIS Component Identifier SNB) were replaced. No other safety related equipment was found to have been affected.

The underlying reason behind MOV-RS-200A being accidentally opened without notice was an error in a CDA Functional Test procedure. This test provides retest capability for equipment which did not perform its CDA function during the initial testing. Upon returning the equipment to operable status, a retest is performed by jumpering (or lifting a wire) between electrical contacts for that piece of equipment causing it to perform its required CDA function. MOV-SW-204A and D were retested in this manner by jumpering an entire relay (EIIS Component Identifier RLY). After opening as required, the jumper was removed and the valves were reclosed by the Control Room operator. However, a previously performed plant design change had moved the actuation signal for MOV-RS-200A to the same relay which operates MOV-SW-204A and D, thereby causing MOV-RS-200A to be opened when the jumper was placed. This change was not reflected in the list of electrical contacts contained in the procedure.

Corrective actions to prevent recurrence of this event include the revision of the procedure to reflect current plant wiring and a review of ESF procedures prior to their next performance to insure their technical accuracy. An evaluation of this event is ongoing. Based on the results of this evaluation, additional actions may be taken.



VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

P. O. BOX 402

MINERAL, VIRGINIA 23117

November 19, 1984

U. S. Nuclear Regulatory Commission
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016 Phillips Building
Washington, D.C. 20555

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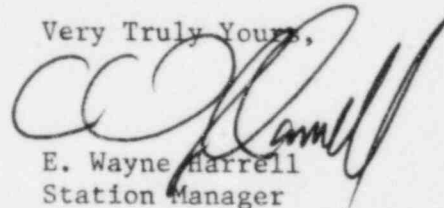
Dear Sirs:

The Virginia Electric and Power Company hereby submits the following License Event Report applicable to North Anna Unit No. 2.

Report No. LER 84-009-00

This report has been reviewed by the Station Nuclear Safety and Operating Committee and will be forwarded to Safety Evaluation and Control for their review.

Very Truly Yours,



E. Wayne Harrell
Station Manager

Enclosures (3 copies)

cc: Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 2900
Atlanta, Georgia 30303

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