

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

April 6, 1994

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

Serial No. 94-176
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Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNITS 1 & 2
FUEL OIL PUMP HOUSE HIGH PRESSURE CARBON DIOXIDE SYSTEM
AND CONTROL ROOM HALON SYSTEM SPECIAL REPORT

Pursuant to North Anna Updated Final Safety Analysis Report (UFSAR) Technical Requirement 16.2.1.2.3 Action - A.2.2 and 16.2.1.2.4 Action A.2.2, a Special Report is hereby submitted because the manual actuation portion of the functional tests, which verify operability of the Fuel Oil Pump House High Pressure Carbon Dioxide (CO₂) System and Control Room (CR) Halon System, were not performed as required. Subsequently, testing was satisfactorily completed on the CO₂ System and CR Halon System.

A systematic review of the North Anna UFSAR Chapter 16 surveillance requirements was initiated in 1994 as a continuation of the Technical Specification surveillance review completed in 1993. The UFSAR review involves a line-by-line examination to verify surveillance requirements are completely addressed by station procedures. During the review of surveillance requirements associated with the CO₂ System it was determined that manual actuation of the system had not been functionally tested. On March 7, 1994, the CO₂ System was declared inoperable.

A temporary revision to the functional test procedure was made to test manual actuation of the CO₂ System. The initial test of the CO₂ System's manual actuation failed. An investigation initiated with vendor support attributed the initial failure of the CO₂ system to the lack of component exercise. The CO₂ System was satisfactorily retested on March 9, 1994. Minor leakage was observed from two pneumatic control valves during the investigation. An evaluation confirmed that the leakage from the pneumatic valves was minute and would not affect operability of the CO₂ System. Work orders were submitted to repair the leakage, and the CO₂ System was declared operable on March 9, 1994.

On March 17, 1994, the CR Halon System was also declared inoperable after it was determined that portions of the system had not been functionally tested. The test procedure was temporarily revised to implement adequate testing of the CR Halon System regarding manual and automatic actuation. On March 25, 1994, CR Halon System tested satisfactorily and was declared operable. Permanent procedure revisions will be completed prior to the next scheduled test performance.

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A fire watch was established in accordance with UFSAR Chapter 16 until both of the above systems were returned to operable status.

The systematic review of the North Anna UFSAR surveillance requirements is currently scheduled for completion by the end of 1994. Similar situations identified during the examination will be submitted upon completion of the review in a single report.

This Special Report has been reviewed by the Station Nuclear Safety and Operating Committee and will be provided to the Management Safety Review Committee.

Should you have any questions regarding this report, please contact us.

Very truly yours,



W. L. Stewart
Senior Vice President - Nuclear

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