

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

July 1, 1992

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

Serial No. 92-441  
NAPS/RMNR4  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATION UNITS 1 AND 2  
REPORT OF DEFECT IN ACCORDANCE WITH 10 CFR 21

On June 16, 1992, we discovered a 480 volt breaker in a tripped condition. We subsequently determined that the failure mode was the same as two previous failures that occurred on the same model breaker. Based on our evaluation, we concluded that the condition identified met the requirements for reporting according to 10 CFR 21.

In accordance with 10 CFR 21, the following information is provided:

1. Name and address of the individual informing the Commission:

Mr. W. L. Stewart  
Senior Vice President - Nuclear  
Virginia Electric and Power Company  
5000 Dominion Boulevard  
Glen Allen, Virginia 23260.

2. Identification of the facility or component that contains the defect:

North Anna Power Station Units 1 and 2  
Klockner-Moeller model NZM6-63 480 volt breakers

3. Identification of the firm supplying the component which contains the defect:

Klockner-Moeller  
25 Forge Parkway  
Franklin, Massachusetts 02038  
Point of contact: Mr. Thomas Erskin (508) 520-7080

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4. Nature of the defect and the safety hazard which is created or could be created by the defect:

Three Klockner-Moeller model NZM6-63 480 volt breakers have failed open due to fracture of a plastic arm within the breaker. All three have failed in the same manner, with the same point of breakage. One additional breaker, which was not in service, has cracks in the plastic arm, although it did not fail. Failure of these breakers would make the associated equipment inoperable. The three failures were associated with Unit 2 motor operated valves in the charging and safety injection systems.

5. The date on which information on this defect was obtained:

The Vice President - Nuclear Operations obtained the results of the evaluation on June 30, 1992, in accordance with our administrative procedures for addressing potential 10 CFR 21 reportable items.

6. The number and location of all such components in use at the facility:

There are approximately 439 NZM6-63 breakers installed at North Anna. The three failed breakers were in the Unit 2 Cable Vault and Tunnel Area and were part of the charging or safety injection systems.

7. The corrective action which has been, is being, or will be taken; the name of the individual or organization responsible for the action; and the length of time that has been or will be taken to complete the action:

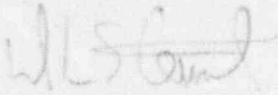
Two of the failed breakers have been sent to Klockner-Moeller for analysis. One failed breaker and the breaker with the cracked plastic arm that had not yet failed are being analyzed by Virginia Power. Results are expected by the end of July 1992. A list of installed breakers has been prepared and prioritized by application and function. This prioritization will be used to schedule breaker inspections or replacements. We have also implemented increased surveillance of safety-related breaker position in the control room.

8. Any advice related to the defect that has been or will be given to purchasers or licensees:

Virginia Power has conducted a search using NPRDS, the Nuclear Network and NOMIS and has not found any other nuclear utility using Klockner-Moeller model NZM6-63 480 volt breakers, including our Surry Power Station.

Should you have any questions or require additional information, please contact us.

Very truly yours,



W. L. Stewart  
Senior Vice President - Nuclear

cc:

Regional Administrator  
U.S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, N.W.  
Suite 2900  
Atlanta, GA 30323

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

Mr. Thomas Erskin  
Klockner-Moeller  
25 Forge Parkway  
Franklin, Massachusetts 02038