

Vepco

USNRC REGION II
ATLANTA, GEORGIA

VIRGINIA ELECTRIC AND POWER COMPANY, RICHMOND, VIRGINIA 23261

79 SEP 17 A10: 21

September 14, 1979

Mr. James P. O'Reilly, Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Serial No. 747
PSE&C/SCJ:mac:wang

Docket No. 50-339

Dear Mr. O'Reilly:

On September 10, 1979, a report was made under the provisions of 10CFR50.55(e) concerning the Emergency Diesel Generator Fan Cooling System.

In accordance with the reporting requirements of 10CFR21, the following information is submitted:

A. Name and address of reporting individual:

Mr. E. A. Baum, Executive Manager
Licensing and Quality Assurance
Virginia Electric and Power Company
P. O. Box 26666
Richmond, Virginia 23261

B. Facility, activity and/or component affected:

North Anna Power Station, Unit 2
Emergency Diesel Generator

C. Name of firm constructing the facility or supplying the component, activity or service:

Fairbanks Morse, Inc.
Power System Division - Colt Industries
701 Lawton Avenue
Beloit, Wisconsin 53511

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D. Description of defect, deficiency, or failure to comply:

The Emergency Diesel Generator Fan Cooling System for North Anna Unit 2 appears to be inadequately designed. For any given fan blade pitch setting there is an associated ambient temperature range through which the Fan Cooling System can satisfactorily operate. Analysis of local meteorological data indicates that ambient temperature ranges exist which exceed the capability of the current Fan Cooling System. For instance, if the fan blade is pitched for adequate cooling at high ambient temperatures and low ambient temperatures occur, the fan drive system could be overloaded. Similarly, if the system is pitched for low ambient temperatures and high ambient temperatures occur, the Diesel Engine will be inadequately cooled.

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E. Date of determination of reportability:

September 10, 1979

F. Similar components, activities, or services:

North Anna Unit 1

G. Corrective action which has been, is being or will be taken, the individual responsible and the length of time to complete the action:

A meeting held September 11 & 12 between Colt Industries, Stone & Webster, and Vepco representatives determined that various technical alternatives are available to solve the problem identified in Section D. These alternatives are currently being evaluated to determine the most feasible solution.

H. Other information:

None

Any information not available at this time will be submitted in a follow-up letter as a 30-day report.

Should you require further information, please contact this office.

Very truly yours,

Sam C. Brown, Jr.

Sam C. Brown, Jr.
Senior Vice President - Power Station
Engineering and Construction

cc: Director, Office of Inspection
and Enforcement (3)

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