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VIRGINIA ELECTRIC AND POWER COMPANY, RICHMOND, VIRGINIA 23261

October 11, 1978

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. 575
PSE&C/LCK/bep/mc

Docket No. 50-339

Dear Sir:

On October 6, 1978, a report was made under the provisions of 10CFR50.55(e) concerning a possible deficiency in the calculation of the LOCA peaking factor shape limits by the APDMS hardware for North Anna Unit 2.

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
Axial Power Distribution Monitoring System (APDMS)

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

Westinghouse Electric Corporation
Water Reactor Divisions
P. O. Box 355
Pittsburg, Pennsylvania 15230

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

A similar facility utilizing Westinghouse APDMS hardware for calculating the LOCA peaking factor shape limits, discovered a non-conservative error in the computer software which determined the alarm setpoint envelope. This error is caused by a calculational round off which could increase the setpoint above the desired value by as much as 1.1%.

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E. Date of determination of reportability:

October 6, 1978

F. Similar components, activities, or services:

North Anna Power Station, 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:

The equipment is not yet operational. A permanent solution is currently being discussed with Westinghouse.

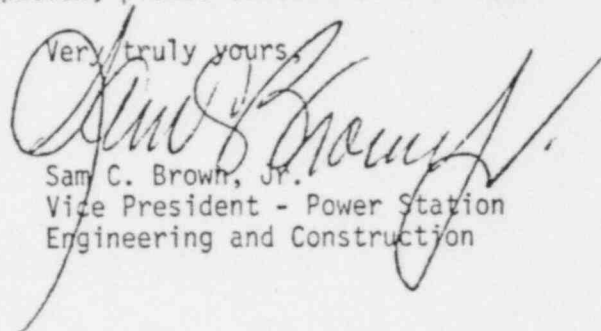
H. Other information:

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.
Vice President - Power Station
Engineering and Construction

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