



VIRGINIA ELECTRIC AND POWER COMPANY, RICHMOND, VIRGINIA 23261

July 2, 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. 539
PSE&C/GLP:adw:mc

Docket No. 50-339

Dear Mr. O'Reilly:

On June 27, 1979, a report was made under the provisions of 10CFR50.55(e) concerning errors that can occur in steam generator levels during accident conditions.

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 2566
Richmond, Virginia 23261

B. Facility, activity, and/or component affected:

North Anna Power Station, Unit 2
Steam Generator Level Indication and
Trip Signals.

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

Westinghouse Electric Corporation
P. O. Box 355
Pittsburgh, Pennsylvania 15230

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

We are informed by Westinghouse that the heating of the Steam Generator level reference legs following a high energy line break inside containment was not taken into account during the original Westinghouse analysis.

An increase in reference leg water column temperature will result in a decrease of the water column density with a consequent apparent increase in the indicated steam generator water level (i.e., apparent level exceeding actual level). The error could result in a delay in reaching the Low Steam Generator Level Reactor trip. This could occur when the temperatures in the containment are in excess of 110°F.

E. Date of determination of reportability:

June 27, 1979

F. Similar components, activities, or services:

North Anna Unit 1, Surry Units 1 and 2

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 problem is being analyzed by Westinghouse to determine the necessary actions to be taken, if any, to insure that these errors are accounted for and that the appropriate safety system actions will occur as required in the safety analysis for this plant. The analysis is being performed as expeditiously as possible, the results should be available within a very short period of time.

H. Other information:

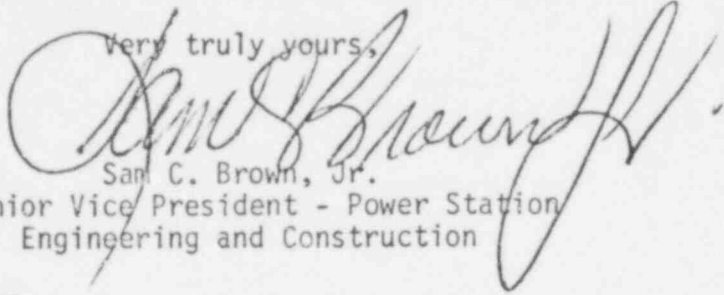
We feel that no immediate action is required at this time, a final report should be available as a part of the 30 day report on this item.

Mr. James P. O'Reilly

3

Should you require further information, please contact this office.

Very truly yours,



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

✓ cc: Director, Office of Inspection
and Enforcement