78-086-000 (R)

VIRGINIA ELECTRIC AND POWER COMPANY

RICHMOND, VIRGINIA 23261

November 22, 1978

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PT-21 VEPCO
086-78000

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

Serial No. 663
PO/DLB:scj
Docket No. 50-338
License No. NPF-4

Dear Mr. O'Reilly:

Under the provisions of the operating license Technical Specifications, NRC Region II was notified on 11-17-78 that a potential significant deficiency existed at North Anna Power Station, Unit No. 1. NRC Region II was notified on 11-21-78 that this also constituted a substantial safety hazard as defined in 10CFR21.

In accordance with the reporting requirements of the above regulations, the following information is submitted:

A. Name and address of reporting individual:

C. M. Stallings
Virginia Electric & Power Company
P. O. Box 26666
Richmond, Virginia 23261

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

North Anna Power Station
Service Water System - Piping and Pipe Supports

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

Stone & Webster Engineering Company
P. O. Box 2325
Boston, Massachusetts 02107

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

The Service Water System piping and support requirements have been analyzed for thermal p[illegible]mic produced stresses assuming a maximum Service Water temp[illegible]e of 95°F. The piping has been analyzed for a minimum Service Water temperature of 45°F. The pipe supports had been analyzed assuming a minimum temperature of 70°F. The Technical Specifications limit the Service Water temperature to 95°F and preliminary analysis indicates that LOCA conditions may cause a greater than 95°F Service Water temperature. Analysis completed since the discovery of this problem has determined that all pipe supports are adequate for Service Water temperatures from 45°F to 95°F.

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E. Date of determination of reportability.

November 21, 1978

F. Similar components, activities or Services:

Approximately 674 pipe supports and all Service Water piping is affected by this deviation. North Anna Unit No. 2 is also affected.

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

Investigation is continuing to determine required corrective action.

H. Other information:

Any additional information regarding the above topics will be submitted in the Licensee Event Report.

Should you require futher information, please contact this office.

Very truly yours,

C. M. Stallings
Vice President-Power Supply
and Production Operations

cc: Mr. John G. Davis, Acting Director
Office of Inspection and Enforcement