

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

W. L. STEWART
VICE PRESIDENT
NUCLEAR OPERATIONS

December 20, 1985

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
Attn: Mr. Lester S. Rubenstein, Director
PWR Project Directorate #2
Division of PWR Licensing-A
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Serial No. 85-854
NO/EJL:acm
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNITS NO. 1 AND 2
CONDENSER FLOW MODIFICATION PROGRAM

As discussed with members of your staff, this letter is being provided in order to inform you and your staff of a design change that is being made at the North Anna Power Station. Specifically, during the cooler months of the year we will be reducing the circulating water flow through the station by removing circulating water pumps from service and by throttling the discharge valves of the circulating water pumps that remain in service. This modification is being made in order to increase the back pressure in the condenser which will help reduce condenser tube vibration and improve the operating efficiency of the station. As a result of this modification, the temperature change across the condensers will increase above existing levels with a subsequent increase of water temperatures to the Waste Heat Treatment Facility environment. There will be no increase in thermal output (BTU) from the station and the temperature of the water being discharged from the Waste Heat Treatment Facility into Lake Anna is expected to be equal to or less than those that currently exist.

In accordance with Appendix B to the Facility Operating Licenses for North Anna Units 1 and 2 we have prepared an environmental evaluation of this activity. This evaluation assesses the effect of the increased water temperatures in the Waste Heat Treatment Facility on the environment. Based on this evaluation we have concluded that this activity does not constitute an unreviewed environmental question, and does not involve a change in the Environmental Protection Plan. This activity has been reviewed with the North Anna 316(a) Technical Advisory Committee, and copies of the environmental evaluation have been provided to the Committee and to the Virginia Water Control Board. In addition, the Station Nuclear Safety and Operating Committee (SNSOC) has reviewed and approved this evaluation. Five copies of the environmental evaluation are enclosed.

Finally, we have determined that this design change will require us to modify portions of the Offsite Dose Calculation Manual (ODCM) to address the change in the circulating water flow. These modifications will be

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PSB (GAMMILL)

RSB (BERLINGER)

FOB (BENAROYA)

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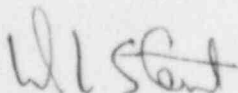
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made in accordance with the requirements of Section 6 of the Technical Specifications for the North Anna Power Station Units 1 and 2, respectively.

We plan to implement this design change later this month following the completion of the Unit 1 refueling outage.

If you have any questions on this material, please contact us.

Very truly yours,



W. L. Stewart

Enclosure:

1. North Anna Power Station Intake Flow Modification Program
Environmental Evaluation

cc: Dr. J. Nelson Grace
Regional Administrator
NRC Region II

Mr. Morris W. Branch
NRC Resident Inspector
North Anna Power Station

Mr. Charles Price
Department of Health
109 Governor Street
Richmond, Virginia 23219

Mr. Leon B. Engle
NRC North Anna Project Manager
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