

## VIRGINIA ELECTRIC AND POWER COMPANY

RICHMOND, VIRGINIA 23261

September 19, 1978

Mr. H. R. Denton, Director  
 Office of Nuclear Reactor Regulation  
 Attn: Mr. Albert Schwencer, Chief  
 Operating Reactors Branch No. 1  
 Division of Reactor Licensing  
 U. S. Nuclear Regulatory Commission  
 Washington, D. C. 20555

Serial No. 532  
 FR/MLS:iw  
 Docket Nos. 50-280  
 50-281  
 50-338  
 50-339  
 License Nos. DPR-32  
 DPR-37  
 NPF-4

Dear Mr. Denton:

VEPCO THERMAL HYDRAULIC ANALYSIS MODEL

Enclosed are forty (40) copies of the Vepco topical report VEP-FRD-23, "Vepco Reactor Core Thermal Hydraulic Analysis Model using LYNX1 and LYNX2 Computer Codes".

This report is one in a series of topical reports being prepared to supply general information pertaining to the nuclear reload licensing process and core follow support of the Surry and North Anna Nuclear Power Stations. It is our intention to use the Vepco Core Thermal Hydraulic Model to perform appropriate reload safety analysis and operational support in the near future. Additional topical reports in the general area of core thermal hydraulic analysis which will augment the capability documented in VEP-FRD-23 will be provided in the future.

If you have questions on the material in this topical report, please contact us.

Very truly yours,

*W. N. Thomas*  
 W. N. Thomas  
 Vice President  
 Fuel Resources

Enclosures

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