

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

December 28, 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.: 532A
FR/RWC: mvc
Docket Nos.: 50-280
50-281
50-338
50-339
License Nos.: DPR-32
DPR-37
NPF-4

Dear Mr. Denton:

TOPICAL REPORT ON VEPKO THERMAL HYDRAULIC MODEL

In the A. Schwencer (NRC) to W. L. Proffitt (Vepco) letter dated December 4, 1978, several aspects of the Nuclear Regulatory Commission (NRC) review of the Vepco Topical Report VEP-FRD-23, "Reactor Core Thermal Hydraulic Analysis Model Using LYNX 1 and LYNX 2 Computer Codes" were addressed. Concerning topical report review fees, Vepco is aware that a fee will be charged for the NRC review of VEP-FRD-23. However, we would anticipate that the NRC review effort would be minimized by the fact that the LYNX computer codes will already have been reviewed and only our application of these codes to the Surry and North Anna units remains to be reviewed.

Your indicated review of VEP-FRD-23, tentatively scheduled for completion in the second quarter of 1979, is compatible with our internal planning. However, it should be noted that we will be providing additional topical reports in the core thermal-hydraulic area during the second quarter of 1979, and as a result, we may wish to lower the priority on the review of VEP-FRD-23. In this event, we will formally advise you.

In addition, your letter requested References 9 and 12 of topical report VEP-FRD-23. Both references contain proprietary material received from Westinghouse Electric Corporation. Reference 9 provides fuel assembly pressure drop data specifically for Surry Units No. 1 and 2. Pages 3-2 and 3-3 of VEP-FRD-23 explain the methodology and equations in which the specific values indicated in Reference 9 are used. Reference 12 provides relative power information adapted for use in Vepco analyses. Pages 4-3, 4-5 and 4-6 of VEP-FRD-23 provide further information on the use of the specific values provided in Reference 12. It is believed that a review of the portions of the text indicated above will provide sufficient information to complete your review.

Should you require more information, we would like to meet with you at your earliest convenience.

Very truly yours,

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

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cc: Mr. James P. O'Reilly

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