

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

W. L. STEWART
VICE PRESIDENT
NUCLEAR OPERATIONS

December 10, 1984

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
Attn: Mr. D. G. Eisenhut, Director
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No.: 683
E&C/RCA:bhg:2005N
Docket Nos.: 50-280
50-281
50-338
50-339
License Nos.: DPR-32
DPR-37
NPF-4
NPF-7

Gentlemen:

VEPCO RELAXED POWER DISTRIBUTION CONTROL (RPDC)

Enclosed for your review and approval are 40 copies of the Vepco Topical Report VEP-NE-1, "Vepco Relaxed Power Distribution Control Methodology and Associated FQ Surveillance Technical Specifications." This report describes the Vepco methodology for relaxing the operational limits on the axial flux difference, while maintaining adequate analysis margin to the design basis limits.

The RPDC methodology will replace the Westinghouse Constant Axial Offset Control (CAOC) which is presently used at both the Surry and North Anna plants. The concept of relaxing the axial flux difference limits is not new since it has been developed in different forms by each of the three PWR vendors. Our intended use of RPDC is to provide additional operating margin in the area of axial flux difference control for the North Anna and Surry plants. The enclosed topical report documents the analysis methodology. We will begin applying RPDC to the North Anna and Surry operating cycles by making plant-specific submittals to the NRC during the second quarter of 1985.

Sample Technical Specifications can be found in Appendix A of VEP-NE-1. The format in which they are presented is consistent with previous submittals which implement widened axial flux difference limits on other Westinghouse plants.

The report has been reviewed by the North Anna and Surry Station Nuclear Safety and Operating Committees, and by the Safety Evaluation and Control staff. Based on these reviews, it has been determined that the methodology described herein does not involve an unreviewed safety question as defined in 10CFR50.59.

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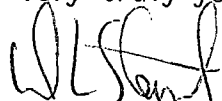
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Mr. Harold R. Denton, Director

A voucher check in the amount of \$150 is enclosed as an application fee. If you have any questions on the material in this topical report, please contact us.

Very truly yours,



W. L. Stewart

Attachments:

1. VEP-NE-1
2. Voucher Check for \$150

cc: Mr. James P. O'Reilly
Regional Administrator
Region II

Mr. James R. Miller, Chief
Operating Reactors Branch No. 3
Division of Licensing

Mr. Steven A. Varga, Chief
Operating Reactors Branch No. 1
Division of Licensing

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

Mr. D. J. Burke
NRC Resident Inspector
Surry Power Station