

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

W. L. STEWART  
VICE PRESIDENT  
NUCLEAR OPERATIONS

May 22, 1986

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
Attn: Mr. Lester S. Rubenstein, Director  
PWR Project Directorate No. 2  
Division of PWR Licensing-A  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Serial No. 86-279  
NO/EJL/acm  
Docket Nos. 50-339  
License Nos. NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATION UNIT 2  
CORE SURVEILLANCE REPORT FOR CYCLE 5 - REVISION 1

In accordance with North Anna Unit 2 Technical Specification 6.9.1.7 enclosed is Revision 1 of the Core Surveillance Report for Cycle 5. As discussed with members of your staff on May 9, 1986 we have expanded the report to more explicitly represent the N(Z) function versus core height and burnup. N(Z) is the cycle dependent function that accounts for power distribution transients encountered during normal operation. The previous Core Surveillance Report for Cycle 5 (which was provided in our letter dated March 4, 1986 - Serial No. 85-655B) contained N(Z) data for three burnup ranges. This Core Surveillance Report provides additional N(Z) data for a total of six burnup ranges. We have determined that this will provide additional margin for the heat flux hot channel factor, FQ, surveillance which utilizes the N(Z) function data in accordance with North Anna Unit 2 Technical Specification 4.2.2.2. This is particularly true for burnups between the beginning and the middle of cycle life, when N(Z) changes rapidly. The Axial Flux Difference Limits, which are also part of the Core Surveillance Report, were not affected by the revised N(Z) data and remain unchanged. We would like this information to become effective by June 6, 1986.

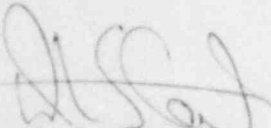
The information in the report was developed in accordance with our topical report VEP-NE-1, "Relaxed Power Distribution Control Methodology and Associated FQ Surveillance Technical Specifications," for the Cycle 5 core.

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Please contact us if you have any questions or require any additional information.

Very truly yours,



W. L. Stewart

Attachment

1. North Anna Unit 2, Cycle 5 RPDC Core Surveillance Report for FQ=2.20, Revision 1

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

NRC Senior Resident Inspector  
North Anna Power Station

Mr. Leon B. Engle  
NRC North Anna Project Manager  
PWR Project Directorate No. 2  
Division of PWR Licensing-A

Director, Office of Nuclear Reactor Regulation  
Attention: Chief, Reactor Systems Branch  
Division of PWR Licensing-A  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555