

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

W. L. STEWART  
VICE PRESIDENT  
NUCLEAR OPERATIONS

December 31, 1984

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

Serial No. 683A  
E&C/RCA:brg:2006N  
Docket Nos. 50-280  
50-281  
50-338  
50-339  
License Nos. DPR-32  
DPR-37  
NPF-4  
NPF-7

Gentlemen:

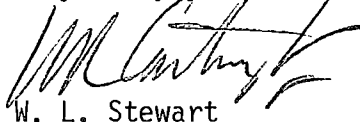
VIRGINIA ELECTRIC AND POWER COMPANY  
RELAXED POWER DISTRIBUTION CONTROL (RPDC)  
AND STATISTICAL DNBR METHODOLOGY

Veeco has developed a methodology for controlling axial power skewing in reactor cores. This methodology, known as "Relaxed Power Distribution Control," is described in topical report VEP-NE-1 which was submitted in our December 10, 1984 letter from Mr. W. L. Stewart to Mr. H. R. Denton (Serial No. 683). We intend to apply the methodology of RPDC to the North Anna and Surry plants in mid-1985. This letter proposes a meeting between Veeco and the NRC to answer NRC questions concerning the RPDC methodology.

In an independent effort, Veeco is also developing a statistical DNBR analysis capability. As a supplement to the meeting proposed above, we would like to obtain the NRC perspective on the licensing of statistical methods.

Veeco proposes that the meeting to discuss these items be held at your Bethesda offices at 10:00 A.M. on January 22, 1985. Should you have any questions, please contact us at your earliest convenience. A meeting agenda is attached.

Very truly yours,

  
W. L. Stewart

Attachment

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

Mr. Leon B. Engle  
NRC Project Manager - North Anna  
Operating Reactors Branch No. 3  
Division of Licensing

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cc: (Continued)

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

Mr. J. D. Neighbors  
NRC Project Manager - Surry  
Operating Reactors Branch No. 1  
Division of Licensing

## AGENDA FOR VEPCO/NRC MEETING

1. RPDC Methodology
  - a. Development
  - b. Details of Methodology
  - c. Schedule of Review and Implementation
  
2. Statistical DNBR Analysis
  - a. Review of Vendor Methods
  - b. Proposed Veeco Methodology
  - c. NRC Recommendations