

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

W. L. STEWART  
VICE PRESIDENT  
NUCLEAR OPERATIONS

January 24, 1986

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
Attn: Mr. Lester S. Rubenstein, Director  
PWR Project Directorate #2  
Division of PWR Licensing-A  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Serial No. 85-879  
E&C/RRC/psj:2011N  
Docket No. 50-280  
License No. DPR-32

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY  
SURRY POWER STATION UNIT NO. 1  
APPENDIX "R" MODIFICATION - NEUTRON FLUX MONITORING

In Attachment 1, Part D of "Virginia Electric and Power Company's 1982 Appendix "R" Report," transmitted to the NRC by letter Serial No. 363 dated June 18, 1982, we committed to having an installed and functioning Neutron Flux Monitoring capability that has Appendix "R" separation.

We had originally intended to meet this commitment by installing two new channels of Neutron Flux Monitoring. Due to equipment problems, we were unable to complete installation of the second channel. It was planned that the Appendix "R" separation criteria would be met between the first channel and the original Westinghouse Neutron Flux Monitoring Channels. Subsequently, review indicates that the Unit 1 installation does not strictly conform to Appendix "R" separation criteria.

We have determined that the existing Unit 1 configuration provides reasonable assurance that the source range neutron flux indication will be maintained even in the event of a fire inside containment and that no additional compensatory measures are required.

There are three channels of source range neutron flux indication, each of which is routed in a separate conduit inside containment. There is only one point where the channels do not have the required separation. At the point of minimum separation, having three separate channels in three separate conduits, plus having a very limited amount of combustible material in the area provides an adequate measure of protection against damage by fire.

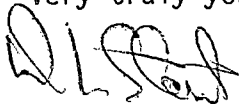
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VIRGINIA ELECTRIC AND POWER COMPANY TO Harold R. Denton

We expect to achieve planned separation by installing the detector and meter for the new second channel by no later than the end of the next Unit 1 refueling outage (currently scheduled to begin May 9, 1986).

Very truly yours,



W. L. Stewart

cc: Mr. Roger D. Walker, Director  
Division of Reactor Projects  
NRC Region II

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

Mr. Terence L. Chan  
NRC Surry Project Manager  
PWR Project Directorate #2  
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