

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

March 28, 1995

United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D. C. 20555

Serial No. 95-036C
NL&P/CGL R0'
Docket Nos. 50-280
50-281
License Nos. DPR-32
DPR-37

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION UNITS 1 AND 2
CORE UPRATE - REQUEST FOR ADDITIONAL INFORMATION
REGARDING IMPACT ON RADWASTE SYSTEMS

The Surry Core Uprate Technical Specification change request was submitted for NRC review by an August 30, 1994 letter (Serial No. 94-509). On November 7, 1994, the NRC indicated that our core uprate submittal did not include a discussion of liquid and gaseous waste management and requested that we provide such a discussion. We informally provided the requested information on January 13, 1995. The purpose of this letter is to formally document the information previously provided on January 13, 1995. This information is contained in Attachment 1.

If you have further questions or require additional information, please contact us.

Very truly yours,



James P. O'Hanlon
Senior Vice President - Nuclear

Attachment 1- Impact of Core Uprate on Radwaste Systems - Surry Power Station
Units 1 and 2

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cc: U. S. Nuclear Regulatory Commission
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Mr. M. W. Branch
NRC Senior Resident Inspector
Surry Power Station

Commissioner
Department of Radiological Health
Room 104A
1500 East Main Street
Richmond, Virginia 23219

ATTACHMENT 1

Impact of Core Uprate on Radwaste Systems - Surry Power Station Units 1 and 2

The impact of core uprate on the Radwaste Systems has been reviewed. The results of this review are as follows:

Gaseous Waste

The gaseous waste system is designed to provide adequate radioactive decay storage for the waste gases and, in addition, provide long-term holdup of these gases. The Surry fission product source terms used for the gaseous waste system design is based on a reactor power of 2546 MWt. The operational impact of the uprated power level is expected to be minimal and, therefore, the design of the gaseous waste system is adequate for the uprated reactor power level of 2546 MWt.

Liquid and Solid Waste

The liquid waste system collects and processes radioactive liquid waste. The Radwaste Facility evaporator system processes the normal liquid waste generated by the two units. The Radwaste Facility also has an ion-exchange system available for use during high liquid waste generation periods or as a backup to the evaporator system. The spent resin and solid waste systems process solid waste for shipment offsite. The Radwaste Facility also has a solidification system capable of processing waste which includes evaporator concentrates and spent resins.

The Radwaste Facility was recently installed to increase the plant radioactive waste process capability. The impact of core uprate will be within the current capacity of the Radwaste Facility. The operational impact of the uprate is expected to have minimal impact on the frequency of and amount of waste processed and, therefore, the liquid and solid waste systems are adequate for the uprated power level of 2546 MWt.