

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

W. L. STEWART  
VICE PRESIDENT  
NUCLEAR OPERATIONS

January 25, 1984

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
Attn: Mr. Steven A. Varga, Chief  
Operating Reactors Branch No. 1  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Serial No. 026  
PSE/NAS/lmf/0021N  
Docket Nos. 50-280  
50-281  
License Nos. DPR-32  
DPR-37

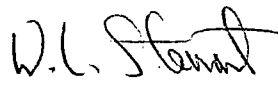
Gentlemen:

SUPPLEMENT 3 TO AN AMENDMENT TO OPERATING  
LICENSES DPR-32 AND DPR-37  
PROPOSED REDUCTION IN BORON CONCENTRATIONS  
SURRY POWER STATION UNITS 1 AND 2

In our letter dated September 13, 1983 (Serial No. 521), Vepco requested an amendment to Operating Licenses DPR-32 and DPR-37 to allow operation of Surry Unit Nos. 1 and 2 at reduced boron concentrations. This letter provides, in Attachment 1, supplemental information in response to an informal request made by the NRC staff via telephone on January 10, 1984.

Should you have any further questions, please contact us at your earliest convenience.

Very truly yours,

  
W. L. Stewart

Attachment

- (1) Response to Core Performance Branch questions for the proposed reduction in boron concentrations for Surry Power Station

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

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

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

Mr. Charles Price  
Department of Health  
109 Governor Street  
Richmond, Virginia

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# Attachment 1

## STEAMBREAK ACCIDENT STATEPOINTS

	Hypothetical Break		Credible Break
	With Power Case A	Without Power Case B	With Power Case C
Core Heat Flux, % of 2441 MWT	23.7	8.1	4.1
RCS Pressure, psia	959	853	733
Loop A Inlet Temp., °F	398	276	460
Loop B Inlet Temp., °F	469	497	482
Core Boron Concentration, PPM	0.0	0.4	8.2
RCS Flow,	100	6.4	100
Reactivity, % delta K/K	.007	.003	.026
Time, sec.	201	250	395
DNBR	1.93	2.00	5.4