

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

September 15, 1980

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. 773
LQA/WRM:rab
Docket Nos. 50-280
50-281
License Nos. DPR-32
DPR-37

Dear Mr. Denton:

ADDITIONAL INFORMATION
SURRY POWER STATION UNITS NO. 1 AND NO. 2
PROPOSED TECHNICAL SPECIFICATION CHANGE NO. 85

In our letter dated May 15, 1980 (Serial No. 400), we proposed changes to the Technical Specifications for Surry Units No. 1 and No. 2 to permit an increase in the enrichment limit for new fuel.

In response to a verbal request posed by a member of your staff, we are providing information on the annual uranium feed requirements for a Surry Nuclear Unit for a range of discharge burnups. The table provided in Attachment 1 gives the enrichment, the number of assemblies, the U_3O_8 feed requirements, and the SWU requirements on both an annual basis and a life-time basis for one Surry unit. The annual feed and SWU requirements shown in the table are higher, and thus considered conservative, when compared to the results from studies of higher burnup effects on annual fuel requirements.

If you require any additional information, please contact this office.

Very truly yours,

B. R. Sylvia
B. R. Sylvia
Manager-Nuclear Operations
and Maintenance

Attachment:

1. Surry Fuel Requirements

cc: Mr. James P. O'Reilly
Office of Inspection and Enforcement
Region II

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SURRY FUEL REQUIREMENTS

AVERAGE DISCHARGE BURNUP (MWD/MTU)	REQUIRED ENRICH. W/O	RELOAD BATCH SIZE	TOTAL ²				ANNUAL ³		
			NO. OF ASSEM.	FEED (MTU)	FEED (MTU ₃₀₈)	SWU (KG x 10 ³)	FEED (MTU)	FEED (MTU ₃₀₈)	SWU (KG x 10 ³)
33000	3.40	62	1116	3220	3810	2660	119	141	99
36000	3.60	57	1026	3150	3720	2650	117	138	98
39000	3.80	53	954	3100	3660	2670	115	136	99
42000	4.00	59	882	3030	3570	2650	112	132	98
45000	4.20	46	828	2990	3530	2660	111	131	99

1. This reload batch size and enrichment is for equilibrium 18 month reload cycles.
2. This total is for the number of 18 month reload cycles remaining in the 40 year licensed lifetime for Surry Unit 1 or 2 (i.e., 27 years).
3. These annual feed and SWU requirements are conservative (i.e., higher) than preliminary results from studies of the effect of high burnup on annual fuel requirements.