

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

February 14, 2001

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

Serial No.  
NL&OS/GSS/ETS  
Docket Nos.  
  
License Nos.

01-020A  
R0  
50-338  
50-339  
NPF-4  
NPF-7

Gentlemen:

**VIRGINIA ELECTRIC AND POWER COMPANY**  
**NORTH ANNA POWER STATION UNITS 1 AND 2**  
**RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION**  
**PROPOSED TECHNICAL SPECIFICATIONS CHANGES**  
**REACTOR COOLANT SYSTEM PRESSURE/TEMPERATURE LIMITS**  
**LTOPS SETPOINTS, AND LTOPS ENABLE TEMPERATURES**

In a letter dated June 22, 2000 (Serial No. 00-306) and supplemented January 4, 2001 (Serial No. 01-020) Virginia Electric and Power Company (Dominion) submitted a Technical Specification change request concerning the North Anna Units 1 and 2 RCS pressure/temperature (P/T) limits, low temperature overpressure protection system (LTOPS) setpoints, and LTOPS enable temperatures ( $T_{enable}$ ). During a February 7, 2001 teleconference call, the NRC staff requested additional information regarding the vessel stresses associated with a plant heatup. This letter provides the additional data requested to support the heatup and cooldown curves.

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

Very truly yours,



William R. Matthews  
Vice President - Nuclear Operations

Attachment

Commitments made in this letter: None

ADD 1

cc: U.S. Nuclear Regulatory Commission  
Region II  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW  
Suite 23T85  
Atlanta, Georgia 30303

Mr. M. J. Morgan  
NRC Senior Resident Inspector  
North Anna Power Station

Commissioner  
Bureau of Radiological Health  
1500 East Main Street  
Suite 240  
Richmond, VA 23218

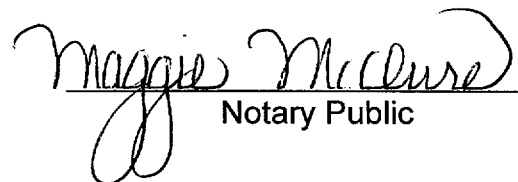
Mr. J. E. Reasor, Jr.  
Old Dominion Electric Cooperative  
Innsbrook Corporate Center  
4201 Dominion Blvd.  
Suite 300  
Glen Allen, Virginia 23060

COMMONWEALTH OF VIRGINIA     )  
   )  
COUNTY OF HENRICO             )

The foregoing document was acknowledged before me, in and for the County and Commonwealth aforesaid, today by William R. Matthews, who is Vice President - Nuclear Operations, of Virginia Electric and Power Company. He has affirmed before me that he is duly authorized to execute and file the foregoing document in behalf of that Company, and that the statements in the document are true to the best of his knowledge and belief.

Acknowledged before me this 14<sup>th</sup> day of February, 2001.

My Commission Expires: 3-31-04.

  
\_\_\_\_\_  
Notary Public

(SEAL)

**Attachment**

**Stress Data for 60°F/hr Heatup Curve**

**North Anna Power Station  
Units 1 and 2  
Virginia Electric and Power Company  
(Dominion)**

Data for 60°F/hr Heatup Curve

$\frac{1}{4} T_{RT_{NDT}} = 218.5^{\circ}F$		50.3 EFPY	$\frac{3}{4} T_{RT_{NDT}} = 195.6^{\circ}F$	
Water Temperature ( $^{\circ}F$ )	$\frac{1}{4}T$ Temperature ( $^{\circ}F$ )	$\frac{3}{4}T$ Temperature ( $^{\circ}F$ )	$\frac{1}{4}T$ Kit (KSI SQ. RT. IN.)	$\frac{3}{4}T$ Kit (KSI SQ. RT. IN.)
545	530.21	514.11	-9.18586	6.96661
550	535.16	519.02	-9.21934	6.99182
550	538.77	523.81	-8.15404	6.43103
550	540.64	528.16	-6.73857	5.39857
550	542.22	531.80	-5.66526	4.51274
550	543.53	534.82	-4.69793	3.76012
550	544.58	537.35	-3.93671	3.13988
550	545.51	539.44	-3.27116	2.61772
550	546.23	541.19	-2.73946	2.18586
550	546.87	542.65	-2.27782	1.82304
550	547.38	543.87	-1.90767	1.52235
550	547.82	544.89	-1.58641	1.26994
550	548.17	545.73	-1.32901	1.06055
550	548.48	546.44	-1.10503	0.884812
550	548.73	547.03	-0.926159	0.738979
550	548.94	547.52	-0.769776	0.616559
550	549.12	547.93	-0.645581	0.514985
550	549.26	548.27	-0.536241	0.429672
550	549.38	548.56	-0.450103	0.358921
550	549.49	548.79	-0.373538	0.299449
550	549.57	548.99	-0.313882	0.250171
550	549.64	549.16	-0.260173	0.208701