

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

January 14, 1994

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

Serial No. 94-015  
NL&P/MAE: R1  
Docket Nos. 50-339  
License Nos. NPF-7

Gentlemen:

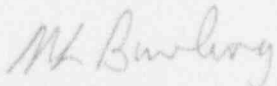
**VIRGINIA ELECTRIC AND POWER COMPANY**  
**NORTH ANNA POWER STATION UNIT 2**  
**MINIMUM BOLTING REQUIREMENT**  
**VOLUME CONTROL TANK MANWAY**

In our letter dated January 7, 1994 (Serial No. 94-008), we committed to performing a calculation to determine the minimum bolting required to maintain the structural integrity of the volume control tank manway. Attached is that calculation, CE-1126 Revision 0.

The manway cover is a blind flange consisting of 16 bolts (1-1/8" diameter A-193 Grade B7). The calculation determined that based on a design pressure of 75 psig, the equivalent of one bolt, same diameter and material, is adequate to withstand the design pressure load. We have determined that these 16 bolts would be structurally adequate if they were 1/4" diameter of the same material. Additionally, in the calculation we determined that assuming all the top half of the flange bolts are non-functional, the eight bolts on the bottom half of the flange with cross sectional area equal to 3/4" diameter A-193 Grade B7 bolts would be adequate for structural integrity.

If you have any further questions, please contact us.

Very truly yours,



M. L. Bowling, Manager  
Nuclear Licensing and Programs

Attachment

cc: United States Nuclear Regulatory Commission  
Region II Suite 2900  
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Atlanta, Georgia 30323

Mr. R. D. McWhorter  
NRC Senior Resident Inspector  
North Anna Power Station

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