

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

10 CFR 50.54(f)

December 13, 2005

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

Serial No.: 05-803  
NL&OS/ETS Rev 0  
Docket No.: 50-339  
License No.: NPF-7

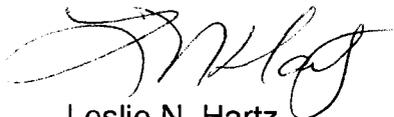
**VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION)**  
**NORTH ANNA POWER STATION UNIT 2**  
**RESULTS OF INSPECTION OF ALLOY 82/182/600 MATERIALS USED IN**  
**PRESSURIZER PENETRATIONS AND STEAM SPACE PIPING CONNECTIONS**  
**PERFORMED FOR NRC BULLETIN 2004-01**

In a letter dated May 28, 2004, the NRC issued NRC Bulletin 2004-01, "Inspection of Alloy 82/182/600 Materials Used in the Fabrication of Pressurizer Penetrations and Steam Space Piping Connections at Pressurized-Water Reactors (PWRs)." The bulletin requested inspection of the Alloy 82/182/600 materials used in the pressurizer penetrations and steam space piping connections. It also requested a 60-day report regarding the inspections performed, including the as-found condition of the pressurizer shell and associated penetrations.

During the fall 2005 refueling outage for North Anna Unit 2, Dominion performed 100% bare metal visual examination of the welds connecting the pressurizer spray, three safety valves, and the power-operated relief valve nozzles to the associated downstream piping. No indications of leakage or cracking were found. In addition, best effort ultrasonic examinations were performed to the greatest extent possible given certain geometric limitations, resulting in an aggregate coverage of about 60%. No reportable axial or circumferential flaws were found. Because the coverage was limited, no credit is taken towards fulfilling MRP-139 requirements. The ability to perform examinations that comply with Code and MRP-139 coverage and frequency requirements, and the alternatives relative to applying some form of mitigation to these welds are currently being analyzed.

Should you have any questions regarding Dominion's response to the bulletin, please contact Mr. Thomas Shaub at (804) 273-2763.

Very truly yours,



Leslie N. Hartz  
Vice President – Nuclear Engineering

Commitments made in this letter: None

cc: U.S. Nuclear Regulatory Commission  
Region II  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW  
Suite 23 T85  
Atlanta, Georgia 30303-8931

Mr. J. T. Reece  
NRC Senior Resident Inspector  
North Anna Power Station

Mr. S. R. Monarque  
NRC Project Manager  
U. S. Nuclear Regulatory Commission  
One White Flint North  
11555 Rockville Pike  
Mail Stop 8-H12  
Rockville, Maryland 20852

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

Mr. M. M. Grace  
Authorized Nuclear Inspector  
North Anna Power Station

