VIRGINIA ELECTRIC AND POWER COMPANY RICHMOND, VIRGINIA 23261

December 18, 1997

United States Nuclear Regulatory Commission

Attention: Document Control Desk

Washington, D. C. 20555

Serial No. 97-697 NL&OS/GDM R4

Docket Nos. 50-280, 281

50-338, 339

License Nos. DPR-32, 37

NPF-4, 7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY **SURRY POWER STATION UNITS 1 AND 2 NORTH ANNA POWER STATION UNITS 1 AND 2** THERMO-LAG RADIANT ENERGY SHIELDS

In a letter dated December 15, 1995 (Serial No. 95-007B), Virginia Electric and Power Company submitted Appendix R Exemption Requests Nos. 27 and 37 for Surry and North Anna Power Stations, respectively. These submittals provided the technical basis for the continued use of Thermo-Lag 330-1 radiant energy shields in containment relative to the requirements of 10 CFR 50 Appendix R, Section III.G.2.f. A request for additional information was received from the NRC on October 15, 1996, and we responded to the request in our letter dated April 22, 1997 (Serial No. 96-539). The NRC denied the exemption requests in a letter dated November 24, 1997. This letter is provided to document our subsequent corrective action plan to ensure compliance with Appendix R requirements.

Virginia Electric and Power Company will implement design change packages to install non-combustible radiant energy shields in containment. We are currently evaluating various alternatives to satisfy the requirement for non-combustible radiant energy shields, and will implement the chosen alternative(s) during the next unit refueling outages for Surry and North Anna. The refueling outages are presently scheduled as follows:

Surry Unit 1 -

October 1998

Surry Unit 2 -

April 1999

North Anna Unit 1 -

September 1998

North Anna Unit 2 -

April 1998

Prior to the implementation of the design changes, the containment air temperatures in each of the four containments will be monitored at least once per hour using the permanently installed RTDs or the containments will be inspected once per 8 hours to allow early detection of a fire in containment. This compensatory measure, in

1/2 a029.

801020041 9712 ADDCK 05000280 conjunction with the technical basis provided in support of our exemption requests, provides justification that adequate protection exists against a fire in containment prior to implementation of the design changes and ensures the units can be maintained in a safe shutdown condition in the event of a fire.

Please contact us should you have any questions or require further information related to this matter.

Very truly yours,

James P. O'Hanlon

Senior Vice President - Nuclear

Commitments made in this letter:

- 1. Virginia Electric and Power Company will implement design change packages to install non-combustible radiant energy shields in Surry and North Anna Units 1 and 2 containments during their next scheduled refueling outages.
- 2. Prior to the implementation of the design changes, the containment air temperatures in each of the four containments will be monitored at least once per hour using the permanently installed RTDs or the containments will be inspected once per 8 hours to allow early detection of a fire in containment.

cc: US Nuclear Regulatory Commission Region II Atlanta Federal Center 61 Forsyth Street, SW, Suite 23T85 Atlanta, Georgia 30303

> Mr. R. A. Musser NRC Senior Resident Inspector Surry Power Station

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