

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

May 1, 1992

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

Serial No. 92-141A  
NL&P/JBL: R2  
Docket No. 50-338  
License No. NPF-4

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATION UNIT 1  
MID-CYCLE STEAM GENERATOR INSPECTION RESULTS AND  
STEAM GENERATOR OPERATING CYCLE EVALUATION

On March 2, 1992, Virginia Electric and Power Company and Westinghouse Electric Corporation met with the NRC to discuss the results of the North Anna Unit 1 mid-cycle steam generator inspections and to present a technical evaluation of those results. The purpose of this letter is to transmit the Westinghouse report which provides the detailed written version of the information presented at the March 2, 1992 meeting.

Enclosed are ten copies each of WCAP-13326, "North Anna Unit 1 Steam Generator Operating Cycle Evaluation" (Proprietary) (Attachment 1) and WCAP-13327, "North Anna Unit 1 Steam Generator Operating Cycle Evaluation" (Non-Proprietary) (Attachment 2). Also enclosed is a Westinghouse application letter for withholding proprietary information, CAW-92-300, with accompanying affidavit, Proprietary Information Notice, and Copyright Notice (Attachment 3).

The proprietary aspects of this information are supported by the affidavit signed by Westinghouse, the owner of the information. The affidavit sets forth the basis on which the information may be withheld from public disclosure by the Commission and addresses with specificity the considerations listed in paragraph (b)(4) of 10 CFR Section 2.790 of the Commission's regulations. Accordingly, it is respectfully requested that the information which is proprietary to Westinghouse be withheld from public disclosure in accordance with 10 CFR Section 2.790 of the Commission's regulations.

Correspondence with respect to the proprietary aspects of the items listed above or the supporting Westinghouse Affidavit should reference CAW-92-300 and should be addressed to Nicholas J. Liparulo, Manager of Nuclear Safety & Regulatory Affairs, Westinghouse Electric Corporation, P.O. Box 355, Pittsburgh, Pennsylvania 15230-0355.

One aspect of the information presented on March 2, 1992 was in error and has been corrected in the enclosed report. The primary-to-secondary leak rate as a result of a

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*Appl of n prop prop Change NRC for 1 INP*

special main steam line break accident analysis was calculated to be 24.2 gpm. This value was represented as being based on the actual mid-cycle inspection results. However, during preparation of the attached reports, an error was found in that a preliminary tube plugging list had been used in calculating the requested leak rate. The calculated leak rate value for this special accident scenario should be 30.5 gpm based on the corrected crack distribution. An evaluation of the theoretical dose consequences at the site boundary based on the 30.5 gpm primary-to-secondary leak rate determined that the thyroid dose would be less than 24 Rem (versus the previously reported 19 Rem based on 24.2 gpm leak rate). This dose remains within a small fraction of the 10 CFR Part 100 limits. Further, as described in the WCAP report, this improbable end-of-cycle leak rate would be reduced due to the mid-cycle "inspection transient" and the reduced level of power for the remainder of the cycle. By letter dated March 26, 1992, we provided to the NRC our evaluation of primary-to-secondary leak rates for a postulated main steam line break accident which concluded that these conservative crack leak scenarios do not involve a significant hazards consideration as defined in 10 CFR 50.92. This correction of the calculated leak rate value does not change the no significant hazards consideration determination provided in that submittal.

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

Very truly yours,



W. L. Stewart  
Senior Vice President - Nuclear

#### Attachments

1. Westinghouse Electric Corporation Report, WCAP-13326, "North Anna Unit 1 Steam Generator Operating Cycle Evaluation" (Proprietary) (10 Copies).
2. Westinghouse Electric Corporation Report, WCAP-13327, "North Anna Unit 1 Steam Generator Operating Cycle Evaluation" (Non-Proprietary) (10 Copies).
3. Westinghouse letter, Application for Withholding Proprietary Information

cc: U.S. Nuclear Regulatory Commission  
Region II  
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Atlanta, Georgia 30323

Mr. M. S. Lesser  
NRC Senior Resident Inspector  
North Anna Power Station