

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

W. L. STEWART
VICE PRESIDENT
NUCLEAR OPERATIONS

October 5, 1983

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
Attn: Mr. James R. Miller, Chief
Operating Reactors Branch No. 3
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No. 482
NO/JHL:acm
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNIT NOS. 1 AND 2
MAIN GENERATOR FAILURE AND MAIN TRANSFORMER FAILURE REPORTS

Enclosed, as Attachment 1, is the North Anna Unit No. 1 main generator failure report for the main generator failure that occurred on December 5, 1982. Enclosed, as Attachment 2, is a non-proprietary report on the main transformer failures at North Anna Unit Nos. 1 and 2 for the seven main transformer failures that occurred between November 29, 1980 and December 5, 1982. Enclosed, as Attachment 3, is a proprietary report on the seven transformer failures that occurred at North Anna Unit Nos. 1 and 2.

The generator report summarizes the insulation failure of the North Anna Unit 1 generator during the December 5, 1982, phase B step-up transformer fault. Westinghouse representatives have outlined their findings of an internal generator inspection performed at the site subsequent to the fault. They present these results with an analysis of the limited fault recorder data and an explanation for this particular insulation failure.

The transformer report gives a historical synopsis of each failed transformer. Also included is a multi-dimensional correlation study to analyze possible adverse effects on the failure rate of Westinghouse generator step-up transformers. The transformer report also provides an electrical system investigation, transformer processing information, gas evolution causes, oil electrification effects, dielectric analysis of line lead configuration, impulse distribution and resonant frequency analysis, and sensitivity tests of the acoustic waveguide system. The transformer report specifically covers a transformer and system analysis of the December 5, 1982, event at North Anna Unit No. 1.

Attachment 3 contains information proprietary to Westinghouse Electric Corporation, it is supported by an 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 Section 2.790 of the Commission's regulations.

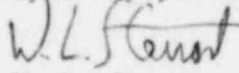
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VIRGINIA ELECTRIC AND POWER COMPANY TO Harold R. Denton

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 Application for Withholding or the supporting Westinghouse affidavits should reference CAW-83-77, and should be addressed to R. A. Wieseemann, Manager, Regulatory and Legislative Affairs, Westinghouse Electric Corporation, P. O. Box 355, Pittsburgh, PA 15230.

Very truly yours,


W. L. Stewart

Attachments

cc: Mr. James P. O'Reilly
Regional Administrator
Region II

Mr. M. B. Shymlock
NRC Resident Inspector
North Anna Power Station