

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

July 13, 1979

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
Attention: Mr. O. D. Parr, Chief
Light Water Reactors Branch No. 3
Division of Project Management
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No. 540
PO/FHT:baw
Docket No. 50-338
License No. NPF-4

Dear Mr. Denton:

North Anna Unit No. 1
Additional Instrument Qualification Information

This is a supplement to our letter of June 19, 1979, regarding additional instrument qualification information for North Anna Unit 1.

The initial justification for use of the Barton Transmitters at North Anna was presented as an attachment to our letter of August 22, 1978, Serial No. 424. In response to your requests, additional justification has been provided since that submittal. The following summarizes the most recent submittals on this topic.

In a letter sent to Mr. Harold R. Denton, Serial No. 541, September 29, 1978, we submitted a report entitled "Westinghouse Reactor Protection System/Engineered Safety Features Actuation System Setpoint Methodology." That report contains a table which shows instrument setpoints and allowed deviations. You will note that an allowance of +14% has been made for the Barton 763 Narrow Range Pressurizer Pressure to account for the inaccuracies which were seen during LOCA testing. In a follow-up letter, Serial No. 565, October 13, 1978, we indicated that the trip setpoints at North Anna will be revised based on the new methodology. The environmental effects of the LOCA testing will be accounted for by a setpoint change.

Also, additional testing performed by Westinghouse is reported in NS-TMA-1059, dated September 29, 1978, demonstrates that accuracies would be within specification for radiation doses and environments characteristic of design basis events. In the NRC evaluation letter (dated May 15, 1978) of NS-TMA-1950, the Staff did request Westinghouse to perform additional confirmatory testing on production Lot 1 Barton transmitters to demonstrate their long-term acceptability. Westinghouse will be completing an additional test program on the Barton Lot 1 transmitters to provide the additional justification requested by the NRC. Preliminary results are expected to be available by the requested date of September, 1979. Westinghouse states that the details of this additional test program have not yet been finalized, but will be submitted to the NRC within the stipulated period.

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Mr. Harold R. Denton, Director

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Based on this additional information and on our previously submitted qualification data, we feel that the use of the existing Barton transmitters at North Anna is justified.

If you require additional information, please contact this office.

Very truly yours,

C. M. Stallings

C. M. Stallings
Vice President-Power Supply
and Production Operations

cc: Mr. James P. O'Reilly, Director
Office of Inspection & Enforcement
Region II