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VIRGINIA ELECTRIC AND POWER COMPANY, RICHMOND, VIRGINIA 23261

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
Attn: 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. 855/101879
PSE&C/GLP:mac:wang

Docket No. 50-339

November 1, 1979

Dear Mr. Denton:

ENVIRONMENTAL QUALIFICATION OF REACTOR COOLANT TEMPERATURE DETECTORS AND CONTAINMENT PRESSURE TRANSMITTERS

We have reviewed your letter concerning RTD and Containment Pressure Transmitter qualification and we have also reviewed these items with respect to their environmental qualification. We have the following responses to your request for additional information.

1. The Reactor Coolant Temperature Detectors are being re-evaluated by Westinghouse to determine their capability to withstand the radiation doses based on your source term requirements. The total integrated dose will be based on plant specific information provided to Westinghouse from us and it will include normal service integrated dose for 40 years plus a LOCA dose. Westinghouse will then, by analysis and previous test data justify a qualified life for the RTD's. We will submit that information to you no later than December 7, 1979.

2. RTD field connections in North Anna consist of an approved qualified Raychem covered splice, therefore we do not have a problem with field terminations. This type of termination is referenced in our 79-01 report for North Anna and we identified Raychem Technical Report F-C4033, January 1975 as the qualifying document.

3. We do not use a remote bellows sensor for containment pressure sensing, therefore we do not have a concern for t phenomenon observed during the bellows tests.

If you require additional information on these items, please contact this office.

Very truly yours,

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Sam C. Brown, Jr.
Senior Vice President - Power Station
Engineering & Construction

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

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