

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

December 10, 1990

United States Nuclear Regulatory Commission  
Attention: Mr. D. M. Collins  
Suite 2900  
101 Marietta Street, N. W.  
Atlanta, Georgia 30323

Serial No. 90-650  
NL&P/RMN:jmj  
Docket Nos. 50-280  
50-281  
50-338  
50-339  
License Nos. DPR-32  
DPR-37  
NPF-4  
NPF-7

Gentlemen:

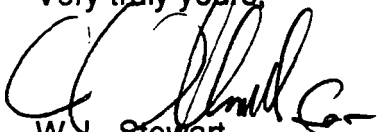
**VIRGINIA ELECTRIC AND POWER COMPANY**  
**SURRY POWER STATION UNITS 1 AND 2**  
**NORTH ANNA POWER STATION UNITS 1 AND 2**  
**NRC CONFIRMATORY MEASUREMENTS PROGRAM**  
**RESULTS OF SPIKED SAMPLES ANALYSES**

As indicated in your letters of October 12, 1990, liquid samples spiked with radionuclides were received at our Surry Power Station on October 10, 1990, and at our North Anna Power Station on October 11, 1990. The analyses were completed by November 17, 1990, that is, no later than 60 days from receipt of the samples.

The liquid samples have been analyzed for tritium (H-3), iron-55 (Fe-55), strontium-89 (Sr-89), and strontium-90 (Sr-90) in accordance with your instructions. The tritium analyses were performed at each station with a liquid scintillation counter. The Fe-55, Sr-89, and Sr-90 analyses were performed by our vendor, Teledyne Isotopes, Inc., as called for by station procedures. The results of our analyses are provided in the attachment.

If you have any questions regarding these results, please contact us.

Very truly yours,



W. L. Stewart  
Senior Vice President - Nuclear

Attachment

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cc: United States Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, D.C. 20555

Mr. W. E. Holland  
NRC Senior Resident Inspector  
Surry Power Station

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

ATTACHMENT

NRC CONFIRMATORY MEASUREMENTS PROGRAM  
SPIKED LIQUID SAMPLE  
ANALYSES RESULTS

SURRY POWER STATION

<u>Sample</u>	<u>Isotope</u>	<u>Activity</u> <u>(<math>\mu</math>Ci/ml)</u>	<u>Uncertainty</u> <u>(<math>\mu</math>Ci/ml)</u>
Liquid	H-3	5.9 E-5	$\pm$ 0.66 E-5
	Fe-55	4.2 E-5	$\pm$ 0.2 E-5
	Sr-89	8.4 E-5	$\pm$ 0.1 E-5
	Sr-90	2.0 E-6	$\pm$ 0.1 E-6

NORTH ANNA POWER STATION

<u>Sample</u>	<u>Isotope</u>	<u>Activity</u> <u>(<math>\mu</math>Ci/ml)</u>	<u>Uncertainty</u> <u>(<math>\mu</math>Ci/ml)</u>
Liquid	H-3	4.67 E-5	$\pm$ 0.486 E-5
	Fe-55	2.3 E-6	$\pm$ 0.9 E-6
	Sr-89	6.5 E-6	$\pm$ 0.1 E-6
	Sr-90	3.2 E-7	$\pm$ 0.2 E-7