

TENNESSEE VALLEY AUTHORITY

Browns Ferry Nuclear Plant  
Post Office Box 2000  
Decatur, Alabama 35609-2000

DEC 11 1990

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

Gentlemen:

In the Matter of	)	Docket Nos. 50-259
Tennessee Valley Authority	)	50-260
		50-296

BROWNS FERRY NUCLEAR PLANT (BFN) - ANALYSIS OF SPIKED SAMPLE FOR NRC CONFIRMATORY MEASUREMENTS PROGRAM

As part of the NRC Confirmatory Measurements Program, samples spiked with radionuclides were sent to BFN to be analyzed. The samples were analyzed for STRONTIUM-89 (Sr-89), STRONTIUM-90 (Sr90) and IRON-55 (FE-55) by a contract vendor (Scientific Applications International Corporation) and TRITIUM (H-3) by the BFN Radiochemistry Laboratory. The results of our analysis of the samples sent to BFN are as follows:

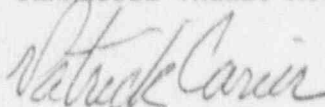
Sr-89	1.82 E-04 ± 1.40 E-05 uCi/ml
Sr-90	5.32 E-06 ± 5.31 E-07 uC <sup>+</sup> /ml
H-3	3.94 E-05 ± 8.70 E-07 uCi/ml
Fe-55	4.54 E-05 ± 4.48 E-06 uCi/ml

The above data was decay corrected to October 1, 1990.

Please refer any questions to Patrick P. Carier, Manager of Site Licensing, BFN at (205) 729-3566.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



Patrick P. Carier  
Manager, Site Licensing

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