

Duke Power Company
Nuclear Production Dept.
P.O. Box 1007
Charlotte, N.C. 28201-1007

M. S. TUCKMAN
Vice President
Nuclear Operations
(704)373-3851



DUKE POWER

January 4, 1991

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

SUBJECT: Catawba Nuclear Station, Units 1 and 2
Docket Nos. 50-413 and 50-414
NRC Confirmation Measurements Program
Station Analysis of Liquid Samples

As part of the NRC Confirmatory Measurements Program, liquid samples spiked with radionuclides were sent to Catawba Nuclear Station where they were received on October 16, 1990. These samples were analyzed for tritium, iron-55, strontium-89, and strontium-90 in accordance with approved procedures for the analysis of liquid waste samples. The analyses were completed on December 7, 1990. The results are listed below.

Tritium 4.46E-05 +/- 5.95E-06 microCuries/ml
Sr-89 5.10E-05 +/- 1.00E-06 microCurries/ml
Sr-90 3.40E-06 +/- 1.00E-07 microCurries/ml
Fe-55 1.54E-05 +/- 2.41E-07 microCurries/ml

Very truly yours,

A handwritten signature in cursive script that reads "M. S. Tuckman".

M. S. Tuckman, Vice President
Nuclear Operations

CRL/14

*Acc
1/10*

9101140053 910104
PDR ADOCK 05000413
P PDR

U. S. Nuclear Regulatory Commission
January 4, 1991
Page 2

xc: Mr. S. D. Ebnetter
Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
101 Marietta Street, N. W., Suite 2900
Atlanta, Georgia 30323

Mr. R. E. Martin
Office of Nuclear Reactor Regulations
U. S. Nuclear Regulatory Commission
One White Flint North, Mail Stop 9H3
Washington, D. C. 20555

Mr. W. T. Orders
NRC Resident Inspector
Catawba Nuclear Station

Mr. D. M. Collins, Chief
Emergency Preparedness and Radiological Protection Branch
U. S. Nuclear Regulatory Commission, Region II
101 Marietta Street, N. W.
Atlanta, Georgia 30323

Mr. H. G. Shealy, Chief
Bureau of Radiological Health
South Carolina Department of Health and Environment
2600 Bull Street
Columbia, S. C. 29201