

Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381-2000

William J. Museler 5hs Vice President, Watts Bar Nuclear Plent

MAR 1 5 1994

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

Gentlemen:

In the Matter of the Application of) Docket No. 030-12988 Tennessee Valley Authority)

WATTS BAR NUCLEAR PLANT (WBN) - SUPPLEMENTAL INFORMATION FOR THE RENEWAL APPLICATION OF BYPRODUCT MATERIAL LICENSE NO. 41-17572-01

This letter provides supplemental information to ensure WBN's compliance with 10 CFR 30.35(d) requirements as requested by NRC Region II reviewer, John Pelchat, in a teleconference on February 4, 1994. This information supplements TVA's letter dated July 26, 1990, (FINANCIAL ASSURANCE - STATEMENT OF INTENT). The purpose of that letter was to provide assurance that WBN has available, a method for determining that the sum of the ratios of quantities of unsealed radionuclides possessed by WBN versus 1 x 10^3 times the appropriate 10 CFR 20, Appendix C value for each nuclide, is less than or equal to 100. ($10 < (value) \le 100$ is the value corresponding to the \$750,000.00 amount of decommissioning financial assurance established by TVA in the Statement of Intert, dated July 26, 1990).

To comply with the NRC's request, the following description of WBN's method of ensuring 10 CFR 30.35(d) compliance is provided:

WBN maintains a computer based radioactive source tracking system called RADTRAC. RADTRAC has the ability to provide "decay corrected" activities for each source in the WBN inventory, and total activity for each radionuclide. Additionally, RADTRAC can further divide the corrected activities into categories of sealed and unsealed sources (WBN defines sealed sources in strict accordance with 10 CFR 30.4 even though many of WBN's unsealed sources are not in a readily dispersible form, i.e., plated and solid matrix sources). These values are then input on a Lotus spreadsheet which determines the $10^3,\ 10^5,\ {\rm and}\ 10^{10}$ ratios for each radionuclide and determines

9403240243 940315 PDR ADDCK 03012988 C PDR

IE07

U.S. Nuclear Regulatory Commission Page 2

15 1994

the sum of the ratios for each category. While this method does not allow immediate determination that WBN is within 10CFR 30.35 limits, it can provide results within a reasonable amount of time (less than one shift) and with relative ease, since all the calculations are performed by the computer.

If you should have any questions concerning this matter, telephone John Vorees at (615)-365-8819.

Very truly yours,

H. JVVIusele

William J. Museler

cc: NRC Resident Inspector Watts Bar Nuclear Plant

Rt. 2, Box 700

Spring City, Tennessee 37381

Mr. P. S. Tam, Senior Project Manager U.S. Nuclear Regulatory Commission One White Flint North 11555 Rockville Pike Rockville, Maryland 20852

U.S. Nuclear Regulatory Commission (2 copies) Region II Nuclear Materials Licensing Section 101 Marietta Street, NW, Suite 2900 Atlanta, Georgia 30323

Office of Nuclear Material Safety and Safeguards U.S. Nuclear Regulatory Commission Washington, D. C. 20555