

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

MAY 1 3 2005

10 CFR 50, Appendix I

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D. C. 20555-0001

Gentlemen:

In the Matter of Tennessee Valley Authority Docket No.50-390 50-391

WATTS BAR NUCLEAR PLANT (WBN) UNITS 1 AND 2 ~ ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT - 2004

In accordance with the requirements of the WBN Unit 1 Technical Specifications, Section 5.9.2, "Annual Radiological Environmental Operating Report," and the WBN Offsite Dose Calculation Manual (ODCM), Administrative Control section 5.1, the 2004 Annual Radiological Environmental Monitoring Program (REMP) results and Data Supplement for WBN are enclosed. The REMP implements 10 CFR 50, Appendix I, Sections IV.B.2, IV.B.3 and IV.C.

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The report, which is prepared by TVA's Environmental Radiological Monitoring and Instrumentation in Muscle Shoals, Alabama describes and summarizes the results of radioactivity measurements made in the vicinity of WBN and laboratory analyses of samples collected in the area. The results of the environmental samples indicated that radiation exposure to members of the general public, which may have been attributable to the operation of WBN, were negligible. The radioactivity measured was primarily the result of fallout or natural background.

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There are no regulatory commitments associated with this submittal. If you have any questions about this report, please contact me at (423) 365-1824.

Sincerely,

P. L. Pace Manager, Site Licensing and Industry Affairs

Enclosure

Cc: (Enclosure) NRC Resident Inspector Watts Bar Nuclear Plant 1260 Nuclear Plant Road Spring City, Tennessee 37381

> Mr. D. V. Pickett, Project Manager U.S. Nuclear Regulatory Commission MS 08G9a One White Flint North 11555 Rockville Pike Rockville, Maryland 20852-2738

> U.S. Nuclear Regulatory Commission Region II Sam Nunn Atlanta Federal Center 61 Forsyth St., SW, Suite 23T85 Atlanta, Georgia 30303