



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

APR 30 2008

10 CFR 50.36a(a)(2)

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

Gentlemen:

In the Matter of the )  
Tennessee Valley Authority )

Docket No. 50-390

**WATTS BAR NUCLEAR PLANT (WBN) - UNIT 1 - 2007 ANNUAL RADIOACTIVE  
EFFLUENT RELEASE REPORT (ARERR)**

Provided in Enclosure 1 is the 2007 ARERR for WBN. This report fulfills the requirements of Technical Specification 5.9.3 and addresses the period from January 1, 2007, through December 31, 2007. Enclosure 1 is divided into four principal sections. The first section is designated as "Supplemental Information" and provides the required effluent release data. Attachment 1 to Enclosure 1 documents deviations which have occurred from Offsite Dose Calculation Manual (ODCM) requirements. Attachment 2 addresses the radiation monitors which were inoperable for greater than 30 days. Provided in Attachment 3 of Enclosure 1 is a copy of Revision 20 of the ODCM. This revision was in effect as of September 7, 2007, and is provided in accordance with Technical Specification 5.7.2.3. Revisions 17 and 18 of the ODCM were provided with the 2006 ARERR. Therefore, the attached copy of the ODCM has been annotated to indicate the changes to the document that were made by Revisions 19 and 20.

Enclosure 2 addresses the requirements of the Process Control Program (PCP) which are reported in conjunction with the ARERR in accordance with the ODCM. During the preparation of the 2007 ARERR, an error was noted in a computer program used to generate the report. The reports for previous years were reviewed to establish if the data provided in the reports was impacted by the program error. Based on this review, the data for the 2005 and 2006 ARERRs required correction. The corrected information for the two reports is provided in Enclosures 3 and 4.

JE48  
A009

NRR



U.S. Nuclear Regulatory Commission  
Page 2

APR 30 2008

There are no regulatory commitments in this letter. If you have any questions, please contact me at (423) 365-1824.

Sincerely,



M. K. Brandon  
Manager, Site Licensing  
and Industry Affairs

Enclosures

cc (Enclosures):

NRC Resident Inspector  
Watts Bar Nuclear Plant  
1260 Nuclear Plant Road  
Spring City, Tennessee 37381

ATTN: Patrick D. Milano, Project Manager  
U.S. Nuclear Regulatory Commission  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation  
MS O8H4  
Washington, DC 20555-0001

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