



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

'APR 29 2005

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

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)

Docket No. 50-390

**WATTS BAR NUCLEAR PLANT (WBN) - UNIT 1 - 2004 ANNUAL RADIOACTIVE
EFFLUENT RELEASE REPORT (ARERR)**

Provided in Enclosure 1 is the 2004 ARERR for WBN. This report fulfills the requirements of Technical Specification 5.9.3 and addresses the period from January 1, 2004, through December 31, 2004. 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 13 of the ODCM. This revision was in effect as of October 22, 2004, and is provided in accordance with Technical Specification 5.7.2.3. Revisions 9, 10 and 11 of the ODCM were provided with the 2003 ARERR. Therefore, the attached copy of the ODCM has been annotated to indicate the changes to the document that were made by Revisions 12 and 13.

Enclosure 2 addresses the requirements of the Process Control Program (PCP) which are reported in conjunction with the ARERR in accordance with the ODCM.

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

Sincerely,

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

Enclosures
cc: See page 2

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U.S. Nuclear Regulatory Commission
Page 2

APR 29 2005

PLP:JLB

Enclosures

cc (Enclosures):

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