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May 13, 2011

10 CFR 50.4

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

Watts Bar Nuclear Plant, Unit 1
Facility Operating License No. NPF-90
NRC Docket No. 50-390

Subject: **ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING
REPORT - 2010**

In accordance with the requirements of Watts Bar Nuclear Plant (WBN), Unit 1, Technical Specifications (TS), Section 5.9.2, "Annual Radiological Environmental Operating Report," and the WBN Offsite Dose Calculation Manual, Administrative Control Section 5.1, the WBN, Unit 1, 2010 Annual Radiological Environmental Monitoring Program results and Data Supplement are enclosed. This report, which is required by WBN, Unit 1, TS Section 5.9.2 to be submitted by May 15 of each year, covers the operation of the unit for the January 1, 2010, through the December 31, 2010, time period.

There are no regulatory commitments in this letter. Please direct any questions concerning this matter to Kara Stacy at (423) 751-3489.

Respectfully,

J. E. Cribbs

for R. M. Krich

Enclosures: 1. Annual Radiological Environmental Operating Report - 2010
2. Annual Radiological Environmental Operating Report Data Supplement - 2010

cc (Enclosures):
NRC Regional Administrator - Region II
NRC Senior Resident Inspector - Watts Bar Nuclear Plant

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NRC*

Enclosure 1

**Watts Bar Nuclear Plant
Unit 1**

**Annual Radiological Environmental Operating Report
Watts Bar Nuclear Plant
2010**

Annual Radiological Environmental Operating Report

**Watts Bar
Nuclear Plant
2010**



**ANNUAL ENVIRONMENTAL RADIOLOGICAL OPERATING REPORT
WATTS BAR NUCLEAR PLANT
2010**

TENNESSEE VALLEY AUTHORITY

April 2011

TABLE OF CONTENTS

Table of Contents	ii
List of Tables.	iv
List of Figures.	v
Executive Summary	1
Introduction	2
Naturally Occurring and Background Radioactivity.	2
Electric Power Production.	3
Site/Plant Description.	6
Radiological Environmental Monitoring Program.	8
Direct Radiation Monitoring.	11
Measurement Techniques.	11
Results.	12
Atmospheric Monitoring.	14
Sample Collection and Analysis.	14
Results.	15
Terrestrial Monitoring.	16
Sample Collection and Analysis.	16
Results.	17
Liquid Pathway Monitoring.	19
Sample Collection and Analysis.	19
Results.	21
Assessment and Evaluation.	23
Results	23
Conclusions.	24
References.	25

Appendix A Radiological Environmental Monitoring Program and Sampling Locations.	29
Appendix B Program Modifications.	40
Appendix C Program Deviations.	42
Appendix D Analytical Procedures.	44
Appendix E Nominal Lower Limits of Detection (LLD).	47
Appendix F Quality Assurance/Quality Control Program.	52
Appendix G Land Use Survey.	57
Appendix H Data Tables and Figures.	63

LIST OF TABLES

Table 1	Comparison of Program Lower Limits of Detection with Regulatory Limits for Maximum Annual Average Effluent Concentrations Released to Unrestricted Areas and Reporting Levels.	26
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LIST OF FIGURES

Figure 1	Tennessee Valley Region.	27
Figure 2	Environmental Exposure Pathways of Man Due to Releases of Radioactive Materials to the Atmosphere and Lake.	28

EXECUTIVE SUMMARY

This report describes the radiological environmental monitoring program conducted by TVA in the vicinity of the Watts Bar Nuclear Plant (WBN) in 2010. The program includes the collection of samples from the environment and the determination of the concentrations of radioactive materials in the samples. Samples are taken from stations in the general area of the plant and from areas that should not be influenced by plant operations. Material sampled includes air, atmospheric moisture, water, milk, food crops, soil, fish, sediment, and direct radiation levels. Results from stations near the plant are compared with concentrations from control locations and with preoperational measurements to determine potential impacts of plant operations.

The majority of environmental radioactivity measured by the program was due to naturally occurring radioactive materials or radionuclides commonly found in the environment as a result of atmospheric fallout and the operation of other nuclear facilities in the area. Low levels of cesium-137 (Cs-137) were measured in soil, fish, and shoreline sediment samples. The Cs-137 concentrations were consistent with the preoperational monitoring program results and with levels normally found in the environment as the result of past nuclear weapons testing. Trace levels of tritium were detected in a limited number of atmospheric moisture samples. Tritium at concentrations slightly above the analytical detection limit was also detected in a small number of water samples collected from Chickamauga Reservoir. These levels would not represent a significant contribution to the radiation exposures to members of the public.

Tritium was detected in onsite ground water monitoring wells. The tritium was the result of onsite ground water contamination from previously identified and repaired leaks in plant systems. In addition, cobalt-58 (Co-58), Co-60, Cs-134, Cs-137, and antimony-125 (Sb-125) were identified in sediment collected from the onsite ponds. The level of activity measured in these onsite locations would not present a risk of exposure to the general public.

INTRODUCTION

This report describes and summarizes the results of radioactivity measurements made in the vicinity of WBN and laboratory analyses of samples collected in the area. The measurements are made to comply with the requirements of 10 CFR 50, Appendix A, Criterion 64 and 10 CFR 50, Appendix I, Section IV.B.2, IV.B.3 and IV.C, and to determine potential effects on public health and safety. This report satisfies the annual reporting requirements of WBN Technical Specification 5.9.2 and Offsite Dose Calculation Manual (ODCM) Administrative Control 5.1. In addition to reporting the data prescribed by specific requirements, other information is included to help correlate the significance of results measured by this monitoring program to the levels of environmental radiation resulting from naturally occurring radioactive materials.

Naturally Occurring and Background Radioactivity

Most materials in our world today contain trace amounts of naturally occurring radioactivity. Potassium-40 (K-40), with a half-life of 1.3 billion years, is one of the major types of radioactive materials found naturally in our environment. Approximately 0.01 percent of all potassium is radioactive potassium-40. Other examples of naturally occurring radioactive materials are beryllium (Be)-7, bismuth (Bi)-212 and 214, lead (Pb)-212 and 214, thallium (Tl)-208, actinium (Ac)-228, uranium (U)-235 and 238, thorium (Th)-234, radium (Ra)-226, radon (Ra)-222, carbon (C) -14, and hydrogen (H)-3 (generally called tritium). These naturally occurring radioactive materials are in the soil, our food, our drinking water, and our bodies. The radiation from these materials makes up a part of the low-level natural background radiation. The remainder of the natural background radiation results from cosmic rays.

It is possible to get an idea of the relative hazard of different types of radiation sources by evaluating the amount of radiation the U.S. population receives from each general type of radiation source. The information below is primarily adapted from References 2 and 3.

U.S. GENERAL POPULATION AVERAGE DOSE EQUIVALENT ESTIMATES

Source	Millirem/Year Per Person
Natural background dose equivalent	
Cosmic	27
Cosmogenic	1
Terrestrial	28
In the body	39
Radon	200
Total	295
Release of radioactive material in natural gas, mining, ore processing, etc.	5
Medical (effective dose equivalent)	53
Nuclear weapons fallout	less than 1
Nuclear energy	0.28
Consumer products	0.03
Total	355 (approximately)

As can be seen from the data presented above, natural background radiation dose equivalent to the U.S. population normally exceeds that from nuclear plants by several hundred times. This indicates that nuclear plant operations normally result in a population radiation dose equivalent which is insignificant compared to that which results from natural background radiation.

Electric Power Production

Nuclear power plants are similar in many respects to conventional coal burning (or other fossil fuel) electrical generating plants. The basic process behind electrical power production in both types of plants is that fuel is used to heat water to produce steam which provides the force to turn turbines and generators. In a nuclear power plant, the fuel is uranium and heat is produced in the reactor through the fission of the uranium. Nuclear plants include many complex systems to control the nuclear fission process and to safeguard against the possibility of reactor malfunction. The nuclear reactions produce radionuclides commonly referred to as fission and activation products. Very small amounts of these fission and activation products are released into the plant

systems. This radioactive material can be transported throughout plant systems and some of it released to the environment.

Paths through which radioactivity from a nuclear power plant is routinely released are monitored. Liquid and gaseous effluent monitors record the radiation levels for each release. These monitors also provide alarm mechanisms to prompt termination of any release above limits.

Releases are monitored at the onsite points of release and through the radiological environmental monitoring program which measures the environmental radiation in areas around the plant. In this way, the release of radioactive materials from the plant is tightly controlled, and verification is provided that the public is not exposed to significant levels of radiation or radioactive materials as the result of plant operations.

The WBN ODCM, which describes the program required by the plant Technical Specifications, prescribes limits for the release of radioactive effluents, as well as limits for doses to the general public from the release of these effluents.

The dose to a member of the general public from radioactive materials released to unrestricted areas, as given in NRC guidelines and the ODCM, is limited as follows:

Liquid Effluents

Total body	≤ 3 mrem/Year
Any organ	≤ 10 mrem/Year

Gaseous Effluents

Noble gases:

Gamma radiation	≤ 10 mrad/Year
Beta radiation	≤ 20 mrad/Year

Particulates:

Any organ	≤ 15 mrem/Year
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The EPA limits for the total dose to the public in the vicinity of a nuclear power plant, established in the Environmental Dose Standard of 40 CFR 190, are as follows:

Total body	≤ 25 mrem/Year
Thyroid	≤ 75 mrem/Year
Any other organ	≤ 25 mrem/Year

Appendix B to 10 CFR 20 presents annual average limits for the concentrations of radioactive materials released in gaseous and liquid effluents at the boundary of the unrestricted areas. Table 1 of this report presents the annual average concentration limits for the principal radionuclides associated with nuclear power plant effluents. The table also presents (1) the concentrations of radioactive materials in the environment which would require a special report to the NRC and (2) the detection limits for measured radionuclides. It should be noted that the levels of radioactive materials measured in the environment are typically below or only slightly above the lower limit of detection.

SITE/PLANT DESCRIPTION

The WBN site is located in Rhea county, Tennessee, on the west bank of the Tennessee River at Tennessee River Mile (TRM) 528. Figure 1 shows the site in relation to other TVA projects.

The WBN site, containing approximately 1770 acres on Chickamauga Lake, is approximately 2 miles south of the Watts Bar Dam and approximately 31 miles north-northeast of TVA's Sequoyah Nuclear Plant (SQN) site. Also located within the reservation are the Watts Bar Dam and Hydro-Electric Plant, the Watts Bar Steam Plant (not in operation), the TVA Central Maintenance Facility, and the Watts Bar Resort Area.

Approximately 16,000 people live within 10 miles of the WBN site. More than 80 percent of these live between 5 and 10 miles from the site. Two small towns, Spring City and Decatur, are located in this area. Spring City, with a population of approximately 2,200, is northwest and north-northwest from the site, while Decatur, with about 1,400 people, is south and south-southwest from the plant. The remainder of the area within 10 miles of the site is sparsely populated, consisting primarily of small farms and individual residences.

The area between 10 and 50 miles from the site includes portions of the cities of Chattanooga and Knoxville. The largest urban concentration in this area is the city of Chattanooga, located to the southwest and south-southwest. The city of Chattanooga has a population of about 155,000, with approximately 80 percent located between 40 and 50 miles from the site and the remainder located beyond 50 miles. The city of Knoxville is located to the east-northeast, with not more than 10 percent of its 177,000 plus people living within 50 miles of the site. Three smaller urban areas of greater than 20,000 people are located between 30 and 40 miles from the site. Oak Ridge is approximately 40 miles to the northeast, the twin cities of Alcoa and Maryville are located 45 to 50 miles to the east-northeast, and Cleveland is located about 30 miles to the south.

Chickamauga Reservoir is one of a series of highly controlled multiple-use reservoirs whose primary uses are flood control, navigation, and the generation of electric power. Secondary

uses include industrial and public water supply and waste disposal, fishing, and recreation. Public access areas, boat docks, and residential subdivisions have been developed along the reservoir shoreline.

WBN consists of two pressurized water reactors. WBN Unit 1 received a low power operating license (NPF-20) on November 9, 1995, and achieved initial criticality in January 1996. The full power operating license (NPF-90) was received on February 7, 1996. Commercial operation was achieved May 25, 1996. WBN Unit 2 was deferred October 24, 2000, in accordance with the guidance in Generic Letter 87-15, "Policy Statement on Deferred Plants." On August 3, 2007, TVA provided notice of its intent to reactivate and complete construction of WBN Unit 2. WBN Unit 2 resumed construction in late 2007, and TVA expects to complete construction and request an operating license by April 2012.

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

Most of the radiation and radioactivity generated in a nuclear power reactor is contained within the reactor systems. Plant effluent radiation monitors are designed to monitor radionuclides released to the environment. Environmental monitoring is a final verification that the systems are performing as planned. The monitoring program is designed to monitor the pathways between the plant and the people in the immediate vicinity of the plant. Sample types are chosen so that the potential for detection of radioactivity in the environment will be maximized. The Radiological Environmental Monitoring Program (REMP) and sampling locations for WBN are outlined in Appendix A.

There are two primary pathways by which radioactivity can move through the environment to humans: air and water (see Figure 2). The air pathway can be separated into two components: the direct (airborne) pathway and the indirect (ground or terrestrial) pathway. The direct airborne pathway consists of direct radiation and inhalation by humans. In the terrestrial pathway, radioactive materials may be deposited on the ground or on plants and subsequently ingested by animals and/or humans. Human exposure through the liquid pathway may result from drinking water, eating fish, or by direct exposure at the shoreline. The types of samples collected in this program are designed to monitor these pathways.

A number of factors were considered in determining the locations for collecting environmental samples. The locations for the atmospheric monitoring stations were determined from a critical pathway analysis based on weather patterns, dose projections, population distribution, and land use. Terrestrial sampling stations were selected after reviewing such things as the locations of dairy animals and gardens in conjunction with the air pathway analysis. Liquid pathway stations were selected based on dose projections, water use information, and availability of media such as fish and sediment. Table A-2 (Appendix A, Table 2: This notation system is used for all tables and figures given in the appendices.) lists the sampling stations and the types of samples collected from each. There were no modifications made in the WBN REMF in 2010. Appendix B is included in this report as a place keeper.

Deviations occur in the monitoring program due to equipment problems with automatic sampling systems, and/or sample unavailability. There were no deviations to the sampling program during 2010. Appendix C is included in this report as a place keeper.

To determine the amount of radioactivity in the environment prior to the operation of WBN, a preoperational radiological environmental monitoring program was initiated in December 1976 and operated through December 31, 1995. Measurements of the same types of radioactive materials that are measured currently were assessed during the preoperational phase to establish normal background levels for various radionuclides in the environment. During the 1950s, 60s, and 70s, atmospheric nuclear weapons testing released radioactive material to the environment causing fluctuations in background radiation levels. Knowledge of preexisting radionuclide patterns in the environment permits a determination, through comparison and trending analyses, of the actual environmental impact of WBN operation.

The determination of environmental impact during the operating phase also considers the presence of control stations that have been established in the environment. Results of environmental samples taken at control stations (far from the plant) are compared with those from indicator stations (near the plant) to aid in the determination of the impacts from WBN operation.

The sample analysis is performed by TVA's Environmental Radiological Monitoring and Instrumentation (ERM&I) group located at the Western Area Radiological Laboratory (WARL) in Muscle Shoals, Alabama, except for the strontium (Sr) -89 and 90 analysis of soil samples which was performed by a contract laboratory. Analyses are conducted in accordance with written and approved procedures and are based on accepted methods. A summary of the analysis techniques and methodology is presented in Appendix D. Data tables summarizing the sample analysis results are presented in Appendix H. The Data Supplement to this report contains the results of all measurements made as a part of this program.

The radiation detection devices and analysis methods used to determine the radionuclide content of samples collected in the environment are very sensitive to small amounts of radioactivity. The sensitivity of the measurement process is defined in terms of the lower limit of detection (LLD). A description of the nominal LLDs for the ERM&I laboratory is presented in Appendix E.

The ERM&I laboratory operates under a comprehensive quality assurance/quality control program to monitor laboratory performance throughout the year. The program is intended to detect any problems in the measurement process as soon as possible so they can be corrected. This program includes equipment checks to ensure that the radiation detection instruments are working properly and the analysis of quality control samples which are included alongside routine environmental samples. To provide for interlaboratory comparison program, the laboratory participates in an environmental cross-check program administered by Eckert and Ziegler Analytics. A complete description of the program is presented in Appendix F.

DIRECT RADIATION MONITORING

Direct radiation levels are measured at various monitoring points around the plant site. These measurements include contributions from cosmic radiation, radioactivity in the ground, fallout from atmospheric nuclear weapons tests conducted in the past, and any radioactivity that may be present as a result of plant operations. Because of the relatively large variations in background radiation as compared to the small levels from the plant, contributions from the plant may be difficult to distinguish.

Measurement Techniques

The Landauer InLight environmental dosimeter is used in the radiological environmental monitoring program for the measurement of direct radiation. This dosimeter contains four elements consisting of aluminum oxide detectors with varying plastic and copper filtrations to provide qualitative information about conditions during the exposure.

The dosimeters are placed approximately 1 meter above the ground, with two at each monitoring location. Sixteen monitoring points are located around the plant near the site boundary, one location in each of the 16 compass sectors. One monitoring point is also located in each of the 16 compass sectors at a distance of approximately four to five miles from the plant.

Dosimeters are also placed at additional monitoring locations out to approximately 15 miles from the site. The dosimeters are exchanged every 3 months. The dosimeters are sent to Landauer for processing and results reporting. The values are corrected for transit and shielded background exposure. An average of the two dosimeter results is calculated for each monitoring point. The system meets or exceeds the performance specifications outlined in ANSI N545-1975 and HPS Draft Standard N13.29 for environmental applications of dosimeters.

Results

The results for environmental dosimeter measurements are normalized to a standard quarter (91.25 days or 2190 hours). The monitoring locations are grouped according to the distance from the plant. The first group consists of all monitoring points within 2 miles of the plant. The second group is made up of all locations greater than 2 miles from the plant. Past data have shown that the average results from the locations more than 2 miles from the plant are essentially the same. Therefore, for purposes of this report, monitoring points 2 miles or less from the plant are identified as “onsite” stations and locations greater than 2 miles are considered “offsite.”

The quarterly gamma radiation levels determined from the dosimeters deployed around WBN in 2010 are summarized in Table H-1. The exposures are measured in milliroentgens (mR). For purposes of this report, one milliroentgen, one millirem (mrem) and one millirad (mrad) are assumed to be numerically equivalent.

The rounded average annual exposures, as measured in 2010, are shown below. For comparison purposes, the average direct radiation measurements made in the preoperational phase of the monitoring program are also shown.

	Annual WBN Average Direct Radiation Levels mR/Year	
	<u>2010</u>	<u>Preoperational Average</u>
Onsite Stations	49	65
Offsite Stations	42	57

The data in Table H-1 indicate that the average quarterly direct radiation levels at the WBN onsite stations are approximately 1.8 mR/quarter higher than levels at the offsite stations. This difference is consistent with levels measured for the preoperation and

construction phases of TVA nuclear power plant sites where the average levels onsite were slightly higher than levels offsite. Figure H-1 compares plots of the data from the onsite stations with those from the offsite stations over the period from 1977 through 2010. The results from the new Landauer InLight dosimeters are lower across all locations when compared to the results previously obtained using the Panasonic UD-814 dosimeters. This difference is most likely due to the manner in how background badge data was applied for the in house processing of Panasonic dosimeters as compared to the method used by the vendor.

The data in Table H-2 contains the results of the individual monitoring stations. The results reported in 2010 are consistent with direct radiation levels identified at locations which are not influenced by the operation of WBN. There is no indication that WBN activities increased the background radiation levels normally observed in the areas surrounding the plant.

ATMOSPHERIC MONITORING

The atmospheric monitoring network is divided into three groups identified as local, perimeter, and remote. Four local air monitoring stations are located on or adjacent to the plant site in the general directions of greatest wind frequency. Four perimeter air monitoring stations are located between 6 to 11 miles from the plant, and two air monitors are located out to 15 miles and used as control or baseline stations. The monitoring program and the locations of monitoring stations are identified in the tables and figures of Appendix A.

Results from the analysis of samples in the atmospheric pathway are presented in Tables H-3, H-4, and H-5. Radioactivity levels identified in this reporting period are consistent with background and preoperational program data. There is no indication of an increase in atmospheric radioactivity as a result of WBN.

Sample Collection and Analysis

Air particulates are collected by continuously sampling air at a flow rate of approximately 2 cubic feet per minute (cfm) through a 2-inch glass fiber filter. The sampling system consists of a pump, a magnehelic gauge for measuring the drop in pressure across the system, and a dry gas meter to measure the total volume of air sampled. This system is housed in a building approximately 2 feet by 3 feet by 4 feet. The filter is contained in a sampling head mounted on the outside of the monitor building. The filter is replaced weekly. Each filter is analyzed for gross beta activity about 3 days after collection to allow time for the radon daughters to decay. Every 4 weeks composites of the filters from each location are analyzed by gamma spectroscopy.

Gaseous radioiodine is sampled using a commercially available cartridge containing TEDA-impregnated charcoal. This system is designed to collect iodine in both the elemental form and as organic compounds. The cartridge is located in the same sampling head as the air particulate

filter and is downstream of the particulate filter. The cartridge is changed at the same time as the particulate filter and samples the same volume of air. Each cartridge is analyzed for iodine (I)-131 by gamma spectroscopy analysis.

Atmospheric moisture sampling is conducted by pulling air at a constant flow rate through a column loaded with approximately 400 grams of silica gel. Every two weeks, the column is exchanged on the sampler. The atmospheric moisture is removed from silica gel by heating and analyzed for tritium.

Results

The results from the analysis of air particulate samples are summarized in Table H-3. Gross beta activity in 2010 was consistent with levels reported in previous years. The average gross beta activity measured for air particulate samples was 0.023 pCi/m³. The annual averages of the gross beta activity in air particulate filters at these stations for the period 1977-2010 are presented in Figure H-2. Increased levels due to fallout from atmospheric nuclear weapons testing are evident in the years prior to 1981 and a small increase from the Chernobyl accident can be seen in 1986. These patterns are consistent with data from monitoring programs conducted by TVA at other nuclear power plant construction sites. Comparison with the same data for the preoperational period of 1990-1995 indicates that the annual average gross beta activity for air particulates as measured in the 2010 monitoring program was consistent with the preoperational data.

Only natural radioactive materials were identified by the monthly gamma spectral analysis of the air particulate samples. As shown in Table H-4, I-131 was not detected in any charcoal cartridge samples collected in 2010.

The results for atmospheric moisture sampling are reported in Table H-5. Tritium was measured in a limited number of atmospheric moisture samples at levels slightly above the nominal LLD value of 3.0 pCi/cubic meter.

TERRESTRIAL MONITORING

Terrestrial monitoring is accomplished by collecting samples of environmental media that may transport radioactive material from the atmosphere to humans. For example, radioactive material may be deposited on a vegetable garden and be ingested along with the vegetables or it may be deposited on pasture grass where dairy cattle are grazing. When the cow ingests the radioactive material, some of it may be transferred to the milk and consumed by humans who drink the milk. Therefore, samples of milk, soil, and food crops are collected and analyzed to determine potential impacts from exposure through this pathway. The results from the analysis of these samples are shown in Tables H-6 through H-12.

A land use survey is conducted annually between April and October to identify the location of the nearest milk animal, the nearest residence, and the nearest garden of greater than 500 square feet producing fresh leafy vegetables in each of 16 meteorological sectors within a distance of 5 miles from the plant. This land use survey satisfies the requirements 10 CFR 50, Appendix I, Section IV.B.3. From data produced by the land use survey, radiation doses are projected for individuals living near the plant. Doses from air submersion are calculated for the nearest residence in each sector, while doses from drinking milk or eating foods produced near the plant are calculated for the areas with milk-producing animals and gardens, respectively. These dose projections are hypothetical extremes and do not represent actual doses to the general public. The results of the 2010 land use survey are presented in Appendix G.

Sample Collection and Analysis

Milk samples are collected every 2 weeks from two indicator dairies and from at least one control dairy. Milk samples are placed on ice for transport to the radioanalytical laboratory. A specific analysis for I-131 and a gamma spectral analysis are performed on each sample and once per quarter samples are analyzed for Sr-89 and Sr-90.

The monitoring program includes a provision for sampling of vegetation from locations where milk is being produced and when milk sampling cannot be conducted. There were no periods during 2010 when vegetation sampling was necessary.

Soil samples are collected annually from the air monitoring locations. The samples are collected with either a “cookie cutter” or an auger type sampler. After drying and grinding, the sample is analyzed by gamma spectroscopy. When the gamma analysis is complete, the sample is analyzed for Sr-89 and Sr-90.

Samples representative of food crops raised in the area near the plant are obtained from individual gardens, corner markets, or cooperatives. Types of foods may vary from year to year as a result of changes in the local vegetable gardens. In 2010, samples of apples, cabbage, corn, green beans, and tomatoes, were collected from local vegetable gardens and/or farms. Samples of the same food products grown in areas that would not be effected by the plant were collected as control samples. The edible portion of each sample is analyzed by gamma spectroscopy.

Results

The results from the analysis of milk samples are presented in Table H-6. All I-131 values were below the established nominal LLD of 0.4 pCi/liter. The results for the quarterly Sr-89, Sr-90 analysis were below the established LLD’s for these analyses. The gamma isotopic analysis detected only naturally occurring radionuclides.

Consistent with most of the environment, Cs-137 was detected in the majority of the soil samples collected in 2010. The maximum concentration of Cs-137 was 0.90 pCi/g. The concentrations were consistent with levels previously reported from fallout. All other radionuclides reported were naturally occurring isotopes. The results of the analysis of soil samples are summarized in Table H-7.

A plot of the annual average Cs-137 concentrations in soil is presented in Figure H-3.

Concentrations of Cs-137 in soil are steadily decreasing as a result of the cessation of weapons testing in the atmosphere, the 30 year half-life of Cs-137, and transport through the environment.

The radionuclides measured in food samples were naturally occurring. The results are reported in Tables H-8 through H-12.

LIQUID PATHWAY MONITORING

Potential exposures from the liquid pathway can occur from drinking water, ingestion of fish, or from direct radiation exposure from radioactive materials deposited in the shoreline sediment. The aquatic monitoring program includes the collection of samples of river (surface) water, ground water, drinking water supplies, fish, and shoreline sediment. Indicator samples were collected downstream of the plant and control samples collected within the reservoir upstream of the plant or in the next upstream reservoir (Watts Bar Lake).

Results from the analysis of the liquid pathway samples are presented in Table H-13 through H-19. Radioactivity levels in surface and public water, fish, and shoreline sediment were consistent with background and/or fallout levels previously reported. Low levels of Cs-137 were measured in samples of shoreline sediment and fish. Low levels of tritium were detected in a limited number of water samples collected in Chickamauga Reservoir. Results for the sediment sampling conducted in the onsite ponds and ground water monitoring in onsite wells are discussed later in this section.

Sample Collection and Analysis

Samples of surface water are collected from the Tennessee River using automatic sampling systems from two downstream stations and one upstream station. A timer turns on the system at least once every 2 hours. The line is flushed and a sample collected into a composite container. A 1-gallon sample is removed from the container at 4-week intervals and the remaining water is discarded. Each sample is analyzed for gamma-emitting radionuclides, gross beta activity, and tritium.

Samples are also collected by an automatic sampling system at the first two downstream drinking water intakes. These samples are collected in the same manner as the surface water samples.

These monthly samples are analyzed for gamma-emitting radionuclides, gross beta activity, and tritium. The samples collected by the automatic sampling device are taken directly from the river at the intake structure. Since the sample at this point is raw water, the upstream surface water sample is used as a control sample for drinking water.

Ground water is sampled from one onsite well down gradient from the plant, one onsite well up gradient from the plant, and four additional onsite ground water monitoring wells located along underground discharge lines. The onsite wells are sampled with a continuous sampling system. A composite sample is collected from the onsite wells every four weeks and analyzed for gamma-emitting radionuclides, gross beta activity, and tritium content. In addition, a grab sample is collected every four weeks from a private well in an area unaffected by WBN. The grab sample is also analyzed for gross beta activity, gamma-emitting radionuclides, and for tritium.

Samples of commercial and game fish species are collected semiannually from each of two reservoirs: the reservoir on which the plant is located (Chickamauga Reservoir) and the upstream reservoir (Watts Bar Reservoir). The samples are collected using a combination of netting techniques and electrofishing. The ODCM specifies analysis of the edible portion of the fish. To comply with this requirement, filleted portions are taken from several fish of each species. The samples are analyzed by gamma spectroscopy.

Samples of shoreline sediment are collected from recreation areas in the vicinity of the plant. The samples are dried, ground, and analyzed by gamma spectroscopy.

Samples of sediment are also collected from the onsite ponds. A total of five samples were collected in 2010. The samples are dried, ground, and analyzed by gamma spectroscopy.

Results

Gross beta activity was detectable above the nominal LLD in most of the surface water samples. The gross beta concentrations averaged 2.8 pCi/liter in downstream samples and 2.5 pCi/liter in upstream samples. These levels were consistent with results found during the preoperational monitoring program. Low levels of tritium were detected in a total of three surface water samples. The highest concentration was 440 pCi/liter which was significantly below the EPA drinking water limit of 20,000 pCi/liter. A summary table of the results for surface water samples is shown in Table H-13. The annual average gross beta activity in surface water samples for the period 1977 through 2010 are presented in Figure H-4.

No fission or activation products were identified by the gamma analysis of drinking water samples from either of two downstream monitoring locations. Average gross beta activity at downstream stations was 2.5 pCi/liter and the average for upstream station was also 2.5 pCi/liter. Low levels of tritium were detected in a total of six samples collected from the two downstream public water sampling locations. The highest tritium concentration detected was 597 pCi/liter. This concentration is less than five percent of EPA safe drinking water limit. The results are shown in Table H-14. The trend plot of the gross beta activity in drinking water samples from 1977 through 2010 are presented in Figure H-5.

The gamma isotopic analysis of ground water samples identified only naturally occurring radionuclides. Gross beta concentrations in samples from the onsite indicator locations averaged 4.1 pCi/liter. The average gross beta activity for samples from the control locations was 2.3 pCi/liter. Tritium was detected in samples from the onsite monitoring wells located near plant discharge lines. The tritium in onsite ground water was the result of previously identified leaks from plant systems. The leaks were repaired and the residual tritium level in the onsite ground water continues to decrease. The highest tritium concentration in samples from these monitoring locations was 2,860 pCi/liter. There was no tritium detected in the onsite up gradient well or the offsite ground water monitoring location. The results are presented in Table H-15.

Measurable levels of Cs-137 were identified in a total of six fish samples. The maximum Cs-137 concentration was 0.06 pCi/g measured in game fish collected at one of the downstream locations. Other radioisotopes found in fish were naturally occurring, with the most notable being K-40. The results are summarized in Tables H-16 and H-17. Trend plots of the annual average Cs-137 concentrations measured in fish samples are presented in Figure H-6. The Cs-137 activities are consistent with preoperational results produced by fallout or effluents from other nuclear facilities.

Cs-137 consistent with the concentrations present in the environment as the result of past nuclear weapons testing or the operation of other nuclear facilities in the area was measured in one shoreline sediment sample. The results for the analysis of shoreline sediment is presented in Table H-18. Trend plots of the average concentration of Cs-137 in shoreline sediment are presented in Figure H-7.

Consistent with previous monitoring conducted for the onsite ponds, Cs-137 was detected in the sediment samples. The average of the Cs-137 levels measured in sediment from the onsite ponds was 0.10 pCi/gm. In addition, Co-58, Co-60, Cs-134, and Sb-125 were also detected in some of the samples collected from the onsite ponds. The results for the analysis of pond sediment samples are provided in Table H-19. Since these radionuclides were present in relatively low concentrations and confined to the ponds located in the owner controlled area not open to the general public, the presence of these radionuclides would not represent an increased risk of exposure to the general public.

ASSESSMENT AND EVALUATION

Potential doses to the public are estimated from measured effluents using computer models. These models were developed by TVA and are based on guidance provided by the NRC in Regulatory Guide 1.109 for determining the potential dose to individuals and populations living in the vicinity of the plant. The results of the effluent dose calculations are reported in the Annual Radiological Effluent Release Report. The doses calculated are a representation of the dose to a "maximum exposed individual." Some of the factors used in these calculations (such as ingestion rates) are maximum expected values which will tend to overestimate the dose to the "hypothetical" person. The calculated maximum dose due to plant effluents are small fractions of the applicable regulatory limits. In reality, the expected dose to actual individuals is significantly lower.

Based on the very low concentrations of radionuclides actually present in the plant effluents, radioactivity levels measured in the environment as result of plant operations are expected to be negligible. The results for the radiological environmental monitoring conducted for the WBN 2010 operations confirm this expectation.

Results

As stated earlier in this report, the estimated increase in radiation dose equivalent to the general public resulting from the operation of WBN is insignificant when compared to the dose from natural background radiation. The results from each environmental sample are compared with the concentrations from the corresponding control stations and appropriate preoperational and background data to determine influences from the plant. During this report period, Cs-137 was detected in shoreline sediment, soil, and fish collected for the WBN program. The Cs-137 concentrations were consistent with levels measured during the preoperational monitoring program. The low levels of tritium measured in water samples from Chickamauga Reservoir represented concentrations that were a small fraction of the EPA drinking water limit.

The levels of tritium detected in the onsite ground water monitoring wells and the radionuclides measured in samples of sediment from the onsite ponds do not represent an increased risk of exposure to the public. These radionuclides were limited to the owner controlled area and would not present an exposure pathway for the general public.

Conclusions

It is concluded from the above analysis of environmental samples and from the trend plots presented in Appendix H, that exposure to members of the general public which may have been attributable to WBN is negligible. The radioactivity reported herein is primarily the result of fallout or natural background. Any activity which may be present in the environment as a result of plant operations does not represent a significant contribution to the exposure of members of the public.

REFERENCES

1. Merril Eisenbud, Environmental Radioactivity, Academic Press, Inc., New York, NY, 1987.
2. National Council on Radiation Protection and Measurements, Report No. 93, "Ionizing Radiation Exposure of the Population of the United States," September 1987.
3. United States Nuclear Regulatory Commission, Regulatory Guide 8.29, "Instruction Concerning Risks from Occupational Radiation Exposure," July 1981.

Table 1

COMPARISON OF
PROGRAM LOWER LIMITS OF DETECTION WITH THE REGULATORY LIMITS FOR
MAXIMUM ANNUAL AVERAGE EFFLUENT CONCENTRATIONS
RELEASED TO UNRESTRICTED AREAS
AND REPORTING LEVELS

	<u>Concentrations in Water, pCi/Liter</u>			<u>Concentrations in Air, pCi/Cubic Meter</u>		
	<u>Effluent Concentration¹</u>	<u>Reporting Level²</u>	<u>Lower limit of Detection³</u>	<u>Effluent Concentration¹</u>	<u>Reporting Level²</u>	<u>Lower limit of Detection³</u>
H-3	1,000,000	20,000	270	100,000	--	3.00
Cr-51	500,000	--	45	30,000	--	0.02
Mn-54	30,000	1,000	5	1,000	--	0.005
Co-58	20,000	1,000	5	1,000	--	0.005
Co-60	3,000	300	5	50	--	0.005
Zn-65	5,000	300	10	400	--	0.005
Sr-89	8,000	--	5	1,000	--	0.0011
Sr-90	500	--	2	6	--	0.0004
Nb-95	30,000	400	5	2,000	--	0.005
Zr-95	20,000	400	10	400	--	0.005
Ru-103	30,000	--	5	900	--	0.005
Ru-106	3,000	--	40	20	--	0.02
I-131	1,000	2	0.4	200	0.9	0.03
Cs-134	900	30	5	200	10	0.005
Cs-137	1,000	50	5	200	20	0.005
Ce-144	3,000	--	30	40	--	0.01
Ba-140	8,000	200	25	2,000	--	0.015
La-140	9,000	200	10	2,000	--	0.01

Note: 1 pCi = 3.7×10^{-2} Bq.

Note: For those reporting levels that are blank, no value is given in the reference.

1 Table 2 of Appendix B to 10 CFR 20.1001-20.2401

2 WBN Offsite Dose Calculation Manual, Table 2.3-2

3 Table E-1 of this report.

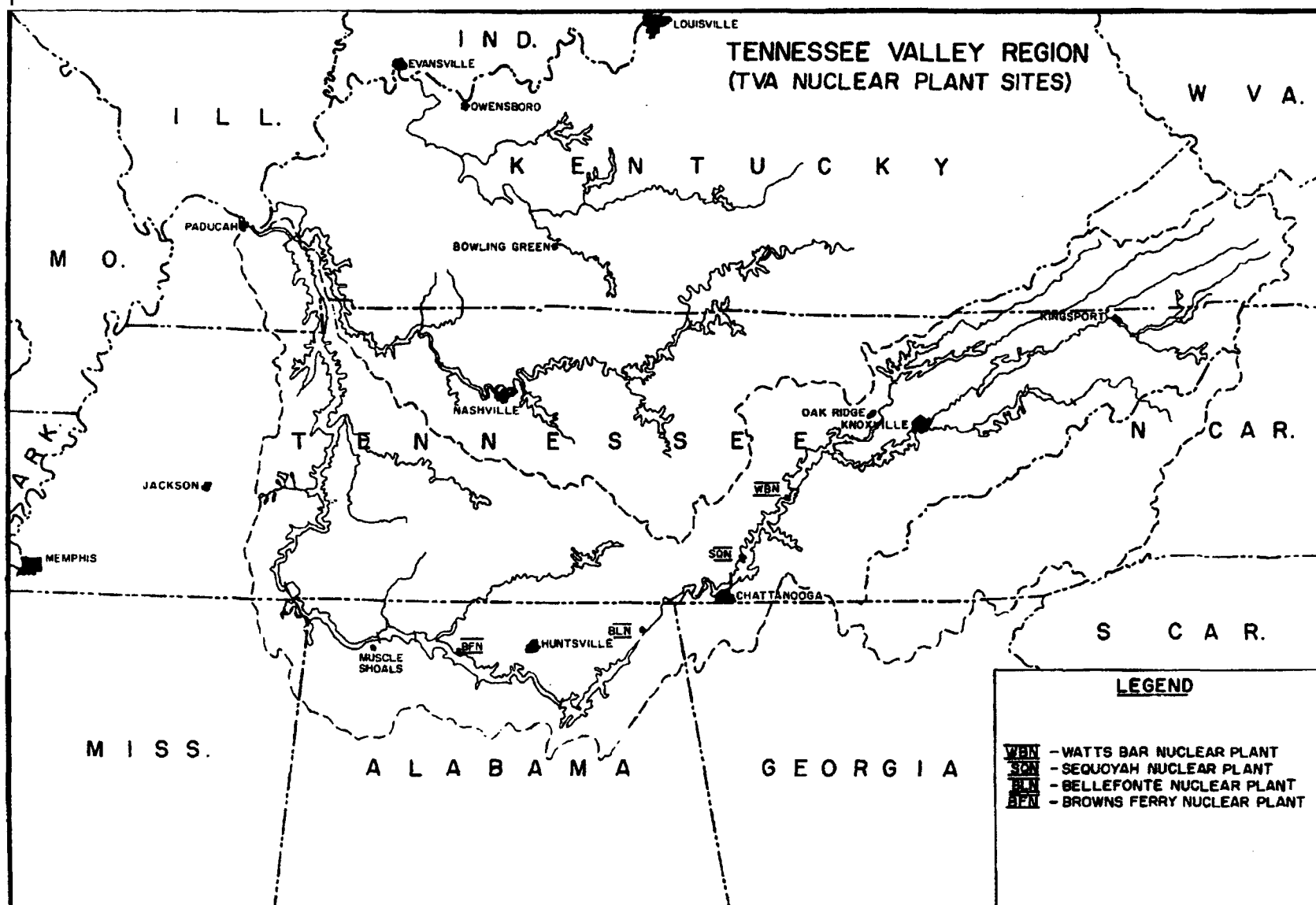
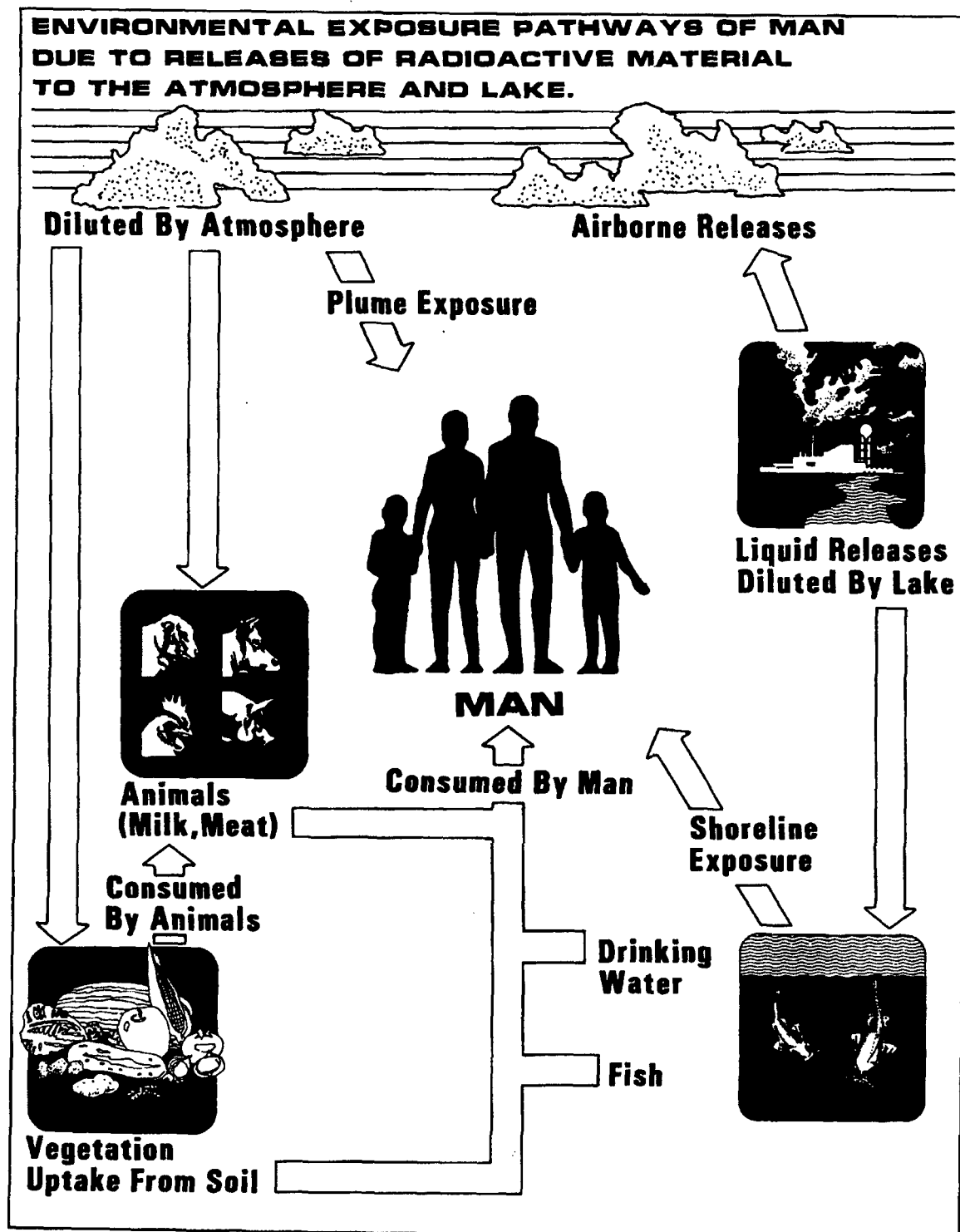


Figure 1

Figure 2



APPENDIX A

**RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM AND
SAMPLING LOCATIONS**

Table A-1 (1 of 5)

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations^b</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
1. AIRBORNE			
a. Particulates	4 samples from locations (in different sectors) at or near the site boundary (LM-1, 2, 3, and 4).	Continuous sampler operation with sample collection weekly (more frequently if required by dust loading).	Analyze for gross beta radioactivity greater than or equal to 24 hours following filter change. Perform gamma isotopic analysis on each sample if gross beta is greater than 10 times yearly mean of control sample. Composite at least once per 31 days (by location) for gamma scan.
	4 samples from communities approximately 6-10 miles from the plant (PM-2, 3, 4, and 5).		
	2 samples from control locations greater than 10 miles from the plant (RM-2 and 3).		
b. Radioiodine	Samples from same locations as air particulates.	Continuous sampler operation with filter collection weekly.	I-131 at least once per 7 days. Analysis is performed by gamma spectroscopy.
c. Atmospheric Moisture	4 samples from locations (in different sectors) at or near the site boundary (LM-1, 2, 3, and 4)	Continuous sampler operation with sample collection biweekly.	Analyze each sample for tritium.
	2 samples from communities approximately 4-10 miles distance from the plant (PM-2, 5).		

Table A-1 (2 of 5)

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM^a

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations^b</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
c. Atmospheric Moisture (Cont.)	2 samples from control location greater than 10 miles from the plant (RM-2 and RM-3).		
d. Soil	Samples from same location as air particulates.	Once per year.	Gamma scan, Sr-89, Sr-90 once per year.
2. DIRECT RADIATION	2 or more dosimeters placed at or near the site boundary in each of the 16 sectors. 2 or more dosimeters placed at stations located approximately 5 miles from the plant in each of the 16 sectors. 2 or more dosimeters in at least 8 additional locations of special interest, including at least 2 control stations.	At least once per 92 days.	Gamma dose at least once per 92 days.

Table A-1 (3 OF 5)

**WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM^a**

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations^b</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
3. WATERBORNE			
a. Surface	2 samples downstream from plant discharge (TRM 517.9 and TRM 523.1).	Collected by automatic sequential-type sampler ^c with composite samples collected over a period of approximately 31 days.	Gross beta, gamma scan, and tritium analysis of each sample.
	1 sample at a control location upstream from the plant discharge (TRM 529.3).		
b. Ground	Five sampling locations from ground water monitoring wells adjacent to the plant (Wells No. 1, A, B, C, and F).	Collected by automatic sequential-type sampler with composite samples collected over a period of approximately 31 days.	Gross beta, gamma scan, and tritium analysis of each sample.
	1 sample from ground water source up gradient (Well No. 5).	Same as Well No. 1.	Gross beta, gamma scan, and tritium analysis of each sample.
	1 sample from ground water source offsite (Farm L).	Grab sample at least once per 31 days.	Gross beta, gamma scan, and tritium analysis of each sample.
c. Drinking	1 sample at the first two potable surface water supplies, downstream from the plant (TRM 503.8 and TRM 473.0).	Collected by automatic sequential-type sampler ^c with composite sample collected monthly.	Gross beta, gamma scan, and tritium analysis of each sample.

Table A-1 (4 of 5)

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM^a

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations^b</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
c. Drinking (Con't)	1 sample at a control location TRM 529.3 ^d .		
d. Sediment from Shoreline	1 sample downstream from plant Discharge (TRM 513.0). 1 sample from a control location upstream from plant discharge (TRM 530.2).	At least once per 184 days.	Gamma scan of each sample.
e. Pond Sediment	1 sample from at least three locations in the Yard Holding Pond.	At least once per year.	Gamma scan of each sample.
4. INGESTION			
a. Milk	1 sample from milk producing animals in each of 1-3 areas indicated by the cow census where doses are calculated to be highest. 1 or more samples from control locations.	Every 2 weeks.	I-131 and gamma analysis on each sample. Sr-89 and Sr-90 once per quarter.
b. Fish	One sample of commercially important species and one sample of recreationally important species. One sample of each species from Chickamauga and Watts Bar Reservoirs.	At least once per 184 days.	Gamma scan on edible portions.

Table A-1 (5 of 5)

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations^b</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
c. Vegetation ^c (Pasture and grass)	Samples from farms producing milk but not providing a milk sample.	At least once per 31 day.	I-131 analysis and gamma scan of each sample.
d. Food Products	1 sample each of principal food products grown at private gardens and/or farms in the immediate vicinity of the plant.	Annually at time of harvest. The types of foods available for sampling will vary. Following is a list of typical foods which may be available: Cabbage, Lettuce and/or Greens Corn Green Beans Potatoes Tomatoes	Gamma scan on edible portion.

a. The sampling program outlined in this table is that which was in effect at the end of 2010.

b. Sample locations are shown on Figures A-1, A-2, A-3.

c. Samples shall be collected by collecting an aliquot at intervals not exceeding 2 hours.

d. The samples collected at TRMs 503.8 and 473.0 are taken from the raw water supply, therefore, the upstream surface water sample will be considered the control sample for drinking water.

e. Vegetation sampling is applicable only for farms that meet the criteria for milk sampling and when milk sampling cannot be performed.

Table A-2
WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
SAMPLING LOCATIONS

Map Location Number ^a	Station	Sector	Approximate Distance (Miles)	Indicator (I) or Control (C)	Samples Collected ^b
2	PM-2	NW	7.0	I	AP,CF,SAM
3	PM-3	NNE	10.4	I	AP,CF,S
4	PM-4	NE/ENE ^c	7.6	I	AP,CF,S
5	PM-5	S	8.0	I	AP,CF,S,AM
6	RM-2	SW	15.0	C	AP,CF,S,AM
7	RM-3	NNW	15.0	C	AP,CF,S,AM
8	LM-1	SSW	0.5	I	AP,CF,SAM
9	LM-2	NNE	0.4	I	AP,CF,SAM
10	LM-3	NNE	1.9	I	AP,CF,S,AM
11	LM-4	SE	0.9	I	AP,CF,S,AM
12	Farm L	SSW	1.3	I ^d	M,W
15	Farm K	ENE	11.6	C	M
18	Well #1	S	0.6	I	W
20	Farm N	ESE	4.1	I	M
22	Farm EH	SSW	24.0	C	M
23	Well #5	N	0.5	C	W
25	TRM 517.9	--	9.9 ^e	I	SW
26	TRM 523.1	--	4.7 ^e	I	SW
27	TRM 529.3	--	1.5 ^e	C	SW,PW ^f
31	TRM 473.0		54.8 ^e	I	PW
	(C. F. Industries)				
32	TRM 513.0	--	14.8 ^e	I	SS
33	TRM 530.2	--	2.4 ^e	C	SS
35	TRM 503.8	--	24.0 ^e	I	PW
	(Dayton)				
37	TRM 522.8-527.8	--	--	I	F
	(downstream of WBN)				
38	TRM 471-530	--	--	I	F
	(Chickamauga Lake)				
39	Watts Bar Reservoir			C	F
81	Yard Pond	SSE/S/SSW	Onsite	I	PS
82	Well A	SSE	0.6	I	W
83	Well B	SSE	0.5	I	W
84	Well C	ESE	0.3	I	W
85	Well F	SE	0.3	I	W

a. See Figures A-1, A-2, and A-3

b. Sample codes:

AM = Atmospheric Moisture

AP = Air particulate filter

CF = Charcoal filter

F = Fish

M = Milk

PW = Public Water

PS = Pond Sediment

S = Soil

SS = Shoreline sediment

SW = Surface water

W = Well water

c. Station located on the boundary between these two sectors.

d. A control for well water.

e. Distance from the plant discharge (TRM 527.8)

f. The surface water sample is also used as a control for public water.

Table A-3
WATTS BAR NUCLEAR PLANT
ENVIRONMENTAL DOSIMETERS LOCATIONS

Map ^a Location Number	Station	Sector	Approximate Distance (miles)	Onsite (On) ^b or Offsite (Off)
2	NW-3	NW	7.0	Off
3	NNE-3	NNE	10.4	Off
4	ENE-3	NE/ENE	7.6	Off
5	S-3	S	7.8	Off
6	SW-3	SW	15.0	Off
7	NNW-4	NNW	15.0	Off
10	NNE-1A	NNE	1.9	On
11	SE-1A	SE	0.9	On
12	SSW-2	SSW	1.3	On
14	W-2	W	4.8	Off
40	N-1	N	1.2	On
41	N-2	N	4.7	Off
42	NNE-1	NNE	1.2	On
43	NNE-2	NNE	4.1	Off
44	NE-1	NE	0.9	On
45	NE-2	NE	2.9	Off
46	NE-3	NE	6.1	Off
47	ENE-1	ENE	0.7	On
48	ENE-2	ENE	5.8	Off
49	E-1	E	1.3	On
50	E-2	E	5.0	Off
51	ESE-1	ESE	1.2	On
52	ESE-2	ESE	4.4	Off
54	SE-2	SE	5.3	Off
55	SSE-1A	SSE	0.6	On
56	SSE-2	SSE	5.8	Off
57	S-1	S	0.7	On
58	S-2	S	4.8	Off
59	SSW-1	SSW	0.8	On
60	SSW-3	SSW	5.0	Off
62	SW-1	SS	0.8	On
63	SW-2	SW	5.3	Off
64	WSW-1	WSW	0.9	On
65	WSW-2	WSW	3.9	Off
66	W-1	W	0.9	On
67	WNW-1	WNW	0.9	On
68	WNW-2	WNW	4.9	Off
69	NW-1	NW	1.1	On
70	NW-2	NW	4.7	Off
71	NNW-1	NNW	1.0	On
72	NNW-2	NNW	4.5	Off
73	NNW-3	NNW	7.0	Off
74	ENE-2A	ENE	3.5	Off
75	SE-2A	SE	3.1	Off
76	S-2A	S	2.0	Off
77	W-2A	W	3.2	Off
78	NW-2A	NW	3.0	Off
79	SSE-1	SE	0.5	On

a. See Figures A-1, A-2, and A-3.

b. Dosimeters designated "onsite" are located 2 miles or less from the plant; "offsite" are located more than 2 miles from the plant.

Figure A-1

Radiological Environmental Sampling Locations

Within 1 Mile of the Plant

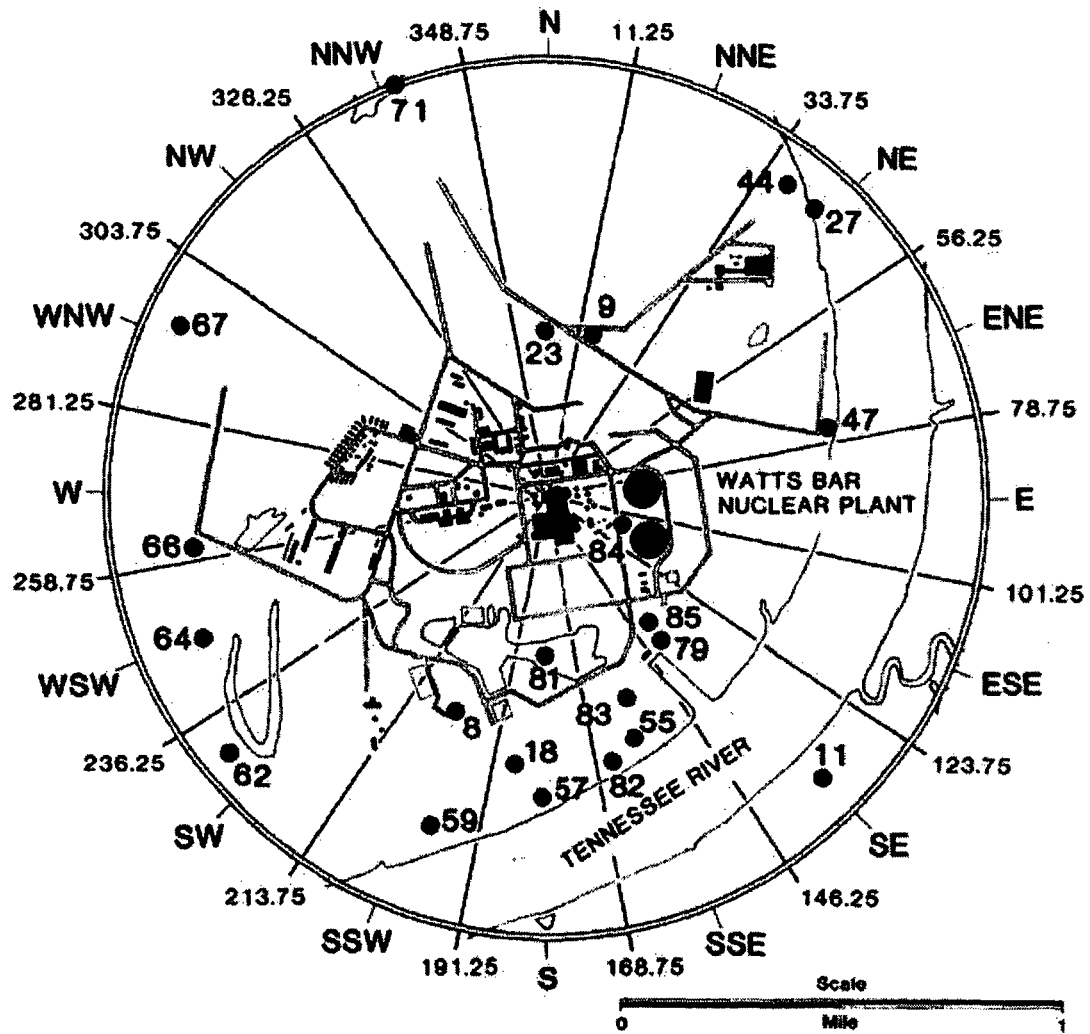


Figure A-2

Radiological Environmental Sampling Locations

From 1 to 5 Miles From The Plant

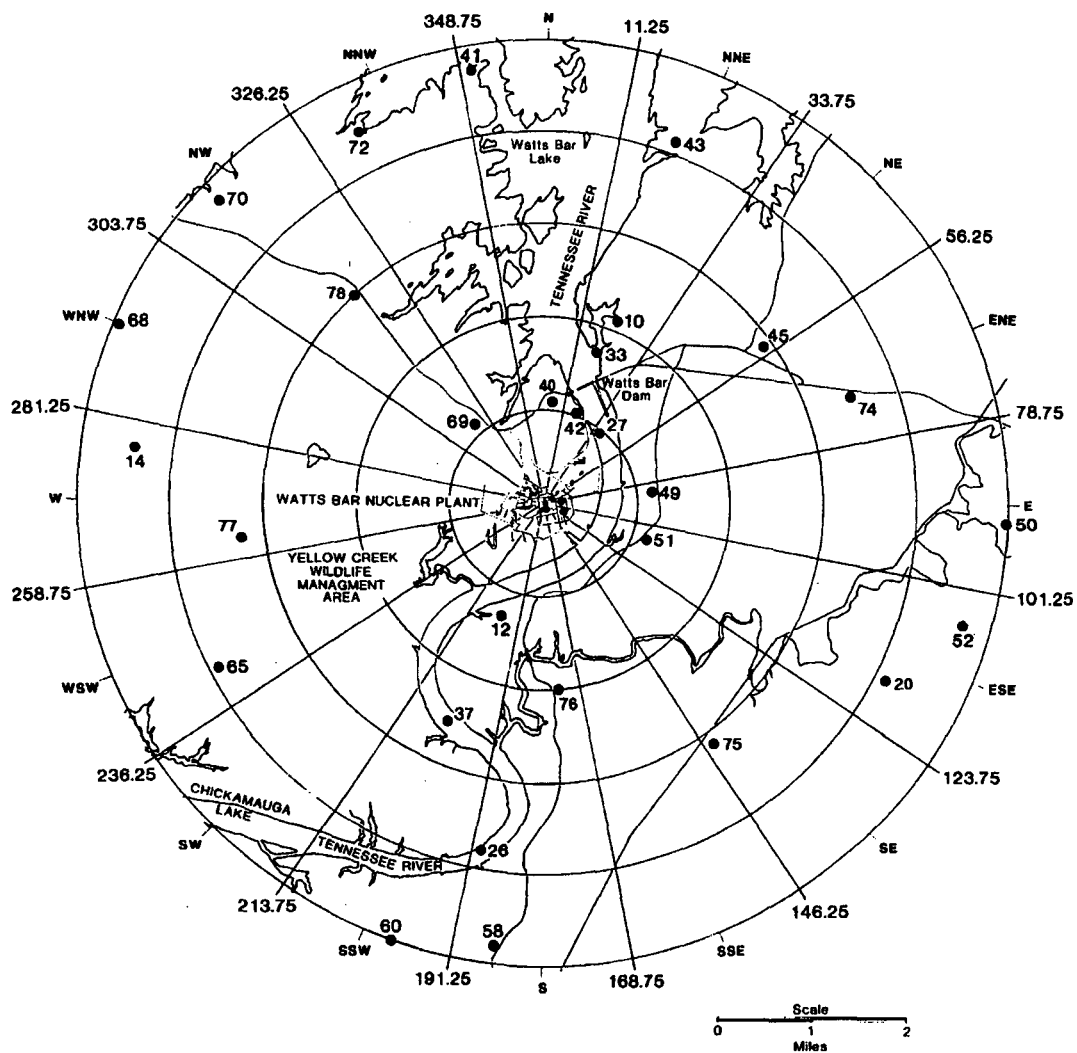
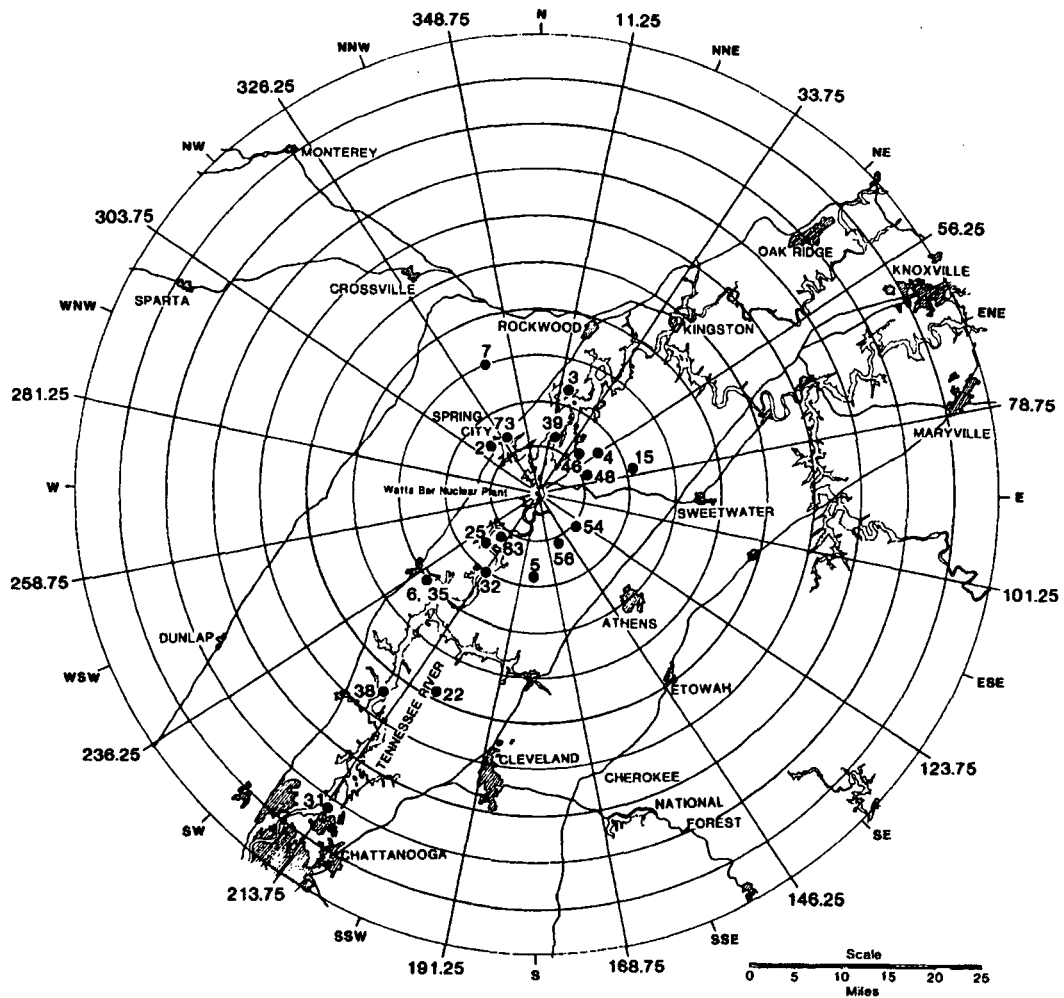


Figure A-3

Radiological Environmental Sampling Locations

Greater Than 5 Miles From the Plant



APPENDIX B
PROGRAM MODIFICATIONS

Appendix B

Radiological Environmental Monitoring Program Modification

There were no modifications to the WBN REMP during 2010.

APPENDIX C
PROGRAM DEVIATIONS

Appendix C

Program Deviations

There were no sampling deviations for the WBN REMP during 2010.

APPENDIX D
ANALYTICAL PROCEDURES

Appendix D

Analytical Procedures

Analyses of environmental samples are performed by the radioanalytical laboratory located at the Western Area Radiological Laboratory facility in Muscle Shoals, Alabama, except for the Sr-89, 90 analysis of soil samples which was performed by a contract laboratory. Analysis procedures are based on accepted methods. A summary of the analysis techniques and methodology follows.

The gross beta measurements are made with an automatic low background counting system. Normal counting times are 50 minutes. Water samples are prepared by evaporating 500 ml of samples to near dryness, transferring to a stainless steel planchet, and completing the evaporation process. Air particulate filters are counted directly in a shallow planchet.

The specific analysis of I-131 in milk is performed by first isolating and purifying the iodine by radiochemical separation and then counting the final precipitate on a beta-gamma coincidence counting system. The normal count time is 50 minutes. With the beta-gamma coincidence counting system, background counts are virtually eliminated and extremely low levels of activity can be detected.

After a radiochemical separation, milk samples analyzed for Sr-89, 90 are counted on a low background beta counting system. The sample is counted a second time after a 7-day ingrowth period. From the two counts the Sr-89 and Sr-90 concentrations can be determined.

Water samples are analyzed for tritium content by first distilling a portion of the sample and then counting by liquid scintillation. A commercially available scintillation cocktail is used.

Gamma analyses are performed in various counting geometries depending on the sample type and volume. All gamma counts are obtained with germanium type detectors interfaced with a high resolution gamma spectroscopy system. Spectral data reduction is performed by the computer program HYPERMET.

The charcoal cartridges used to sample gaseous radioiodine are analyzed by gamma spectroscopy using a high resolution gamma spectroscopy system with germanium detectors.

Atmospheric moisture samples are collected on silica gel from a metered air flow. The moisture is released from the silica gel by heating and a portion of the distillate is counted by liquid scintillation for tritium using commercially available scintillation cocktail.

The necessary efficiency values, weight-efficiency curves, and geometry tables are established and maintained on each detector and counting system. A series of daily and periodic quality control checks are performed to monitor counting instrumentation. System logbooks and control charts are used to document the results of the quality control checks.

APPENDIX E

NOMINAL LOWER LIMITS OF DETECTION (LLD)

Appendix E

Nominal Lower Limits of Detection

A number of factors influence the LLD, including sample size, count time, counting efficiency, chemical processes, radioactive decay factors, and interfering isotopes encountered in the sample. The most probable values for these factors have been evaluated for the various analyses performed in the environmental monitoring program. The nominal LLDs calculated from these values, in accordance with the methodology prescribed in the ODCM, are presented in Table E-1. The maximum values for the lower limits of detection specified in the ODCM are shown in Table E-2.

The nominal LLDs are also presented in the data tables. For analyses for which nominal LLDs have not been established, an LLD of zero is assumed in determining if a measured activity is greater than the LLD.

Table E-1

Nominal LLD Values
A. Radiochemical Procedures

	Air Filters (pCi/m ³)	Water (pCi/L)	Milk (pCi/L)	Wet Vegetation (pCi/kg wet)	Sediment and Soil (pCi/g dry)
Gross Beta	0.002	1.9	--	--	--
Tritium	3.0	270	--	--	--
Iodine-131	--	0.4	0.4	6.0	--
Strontium-89	0.0011	5.0	3.5	31.0	1.6
Strontium-90	0.0004	2.0	2.0	12.0	0.4

Table E-1
Nominal LLD Values
B. Gamma Analyses

	Particulate Filter <u>pCi/m³</u>	Charcoal Filter <u>pCi/m³</u>	Water and Milk <u>pCi/L</u>	Vegetation and Grain <u>pCi/g, dry</u>	Wet Vegetation <u>pCi/kg, wet</u>	Soil and Sediment <u>pCi/g, dry</u>	Fish <u>pCi/g, dry</u>	Clam Flesh <u>pCi/g, dry</u>	Foods Tomatoes Potatoes, etc. <u>pCi/kg, wet</u>
Ce-141	0.005	0.02	10	0.07	35	0.10	0.07	0.35	20
Ce-144	0.01	0.07	30	0.15	115	0.20	0.15	0.85	60
Cr-51	0.02	0.15	45	0.30	200	0.35	0.30	2.40	95
I-131	0.005	0.03	10	0.20	60	0.25	0.20	1.70	20
Ru-103	0.005	0.02	5	0.03	25	0.03	0.03	0.25	25
Ru-106	0.02	0.12	40	0.15	190	0.20	0.15	1.25	90
Cs-134	0.005	0.02	5	0.03	30	0.03	0.03	0.14	10
Cs-137	0.005	0.02	5	0.03	25	0.03	0.03	0.15	10
Zr-95	0.005	0.03	10	0.05	45	0.05	0.05	0.45	45
Nb-95	0.005	0.02	5	0.25	30	0.04	0.25	0.25	10
Co-58	0.005	0.02	5	0.03	20	0.03	0.03	0.25	10
Mn-54	0.005	0.02	5	0.03	20	0.03	0.03	0.20	10
Zn-65	0.005	0.03	10	0.05	45	0.05	0.05	0.40	45
Co-60	0.005	0.02	5	0.03	20	0.03	0.03	0.20	10
K-40	0.04	0.30	100	0.40	400	0.75	0.40	3.50	250
Ba-140	0.015	0.07	25	0.30	130	0.30	0.30	2.40	50
La-140	0.01	0.04	10	0.20	50	0.20	0.20	1.40	25
Fe-59	0.005	0.04	10	0.08	40	0.05	0.08	0.45	25
Be-7	0.02	0.15	45	0.25	200	0.25	0.25	1.90	90
Pb-212	0.005	0.03	15	0.04	40	0.10	0.04	0.30	40
Pb-214	0.005	0.07	20	0.50	80	0.15	0.50	0.10	80
Bi-214	0.005	0.05	20	0.10	55	0.15	0.10	0.50	40
Bi-212	0.02	0.20	50	0.25	250	0.45	0.25	2.00	130
Tl-208	0.002	0.02	10	0.03	30	0.06	0.03	0.25	30
Ra-224	--	--	--	--	--	0.75	--	--	--
Ra-226	--	--	--	--	--	0.15	--	--	--
Ac-228	0.01	0.07	20	0.10	70	0.25	0.10	0.75	50

Table E-2

**Maximum Values for the Lower Limits of Detection (LLD)
Specified by the WBN Offsite Dose Calculation Manual**

<u>Analysis</u>	<u>Water pCi/L</u>	<u>Airborne Particulate or Gases pCi/m³</u>	<u>Fish pCi/kg, wet</u>	<u>Milk pCi/L</u>	<u>Food Products pCi/kg, wet</u>	<u>Sediment pCi/kg, dry</u>
gross beta	4	1 x 10 ⁻²	N.A.	N.A.	N.A.	N.A.
H-3	2000 ^a	N.A.	N.A.	N.A.	N.A.	N.A.
Mn-54	15	N.A.	130	N.A.	N.A.	N.A.
Fe-59	30	N.A.	260	N.A.	N.A.	N.A.
Co-58,60	15	N.A.	130	N.A.	N.A.	N.A.
Zn-65	30	N.A.	260	N.A.	N.A.	N.A.
Zr-95	30	N.A.	N.A.	N.A.	N.A.	N.A.
Nb-95	15	N.A.	N.A.	N.A.	N.A.	N.A.
I-131	1 ^b	7 x 10 ⁻²	N.A.	1	60	N.A.
Cs-134	15	5 x 10 ⁻²	130	15	60	150
Cs-137	18	6 x 10 ⁻²	150	18	80	180
Ba-140	60	N.A.	N.A.	60	N.A.	N.A.
La-140	15	N.A.	N.A.	15	N.A.	N.A.

a. If no drinking water pathway exists, a value of 3000 pCi/liter may be used.

b. If no drinking water pathway exists, a value of 15 pCi/liter may be used.

APPENDIX F

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

Appendix F

Quality Assurance/Quality Control Program

A quality assurance program is employed by the laboratory to ensure that the environmental monitoring data are reliable. This program includes the use of written, approved procedures in performing the work, provisions for staff training and certification, internal self assessments of program performance, audits by various external organizations, and a laboratory quality control program.

The quality control program employed by the radioanalytical laboratory is designed to ensure that the sampling and analysis process is working as intended. The program includes equipment checks and the analysis of quality control samples along with routine samples. Instrument quality control checks include background count rate and counts reproducibility. In addition to these two general checks, other quality control checks are performed on the variety of detectors used in the laboratory. The exact nature of these checks depends on the type of device and the method it uses to detect radiation or store the information obtained.

Quality control samples of a variety of types are used by the laboratory to verify the performance of different portions of the analytical process. These quality control samples include blanks, field and lab duplicates, blind samples, or cross-checks.

Blanks are samples which contain no measurable radioactivity or no activity of the type being measured. Such samples are analyzed to determine whether there is any contamination of equipment or commercial laboratory chemicals, cross-contamination in the chemical process, or interference from isotopes other than the one being measured.

Duplicate samples are generated at random by the sample computer program which schedules the collection of the routine samples. For example, if the routine program calls for four milk samples every week, on a random basis each farm might provide an additional sample several

times a year. These duplicate samples are analyzed along with other routine samples. They provide information about the variability of radioactive content in the various sample media.

If enough sample is available for a particular analysis, the laboratory staff can split it into two portions. Such a sample provides information about the variability of the analytical process since two identical portions of material are analyzed side by side.

Analytical knowns are another category of quality control sample. A known amount of radioactivity is added to a sample medium. The lab staff knows the radioactive content of the sample. Whenever possible, the analytical knowns contain the same amount of radioactivity each time they are run. In this way, analytical knowns provide immediate data on the quality of the measurement process.

Blind spikes are samples containing radioactivity which are introduced into the analysis process disguised as ordinary environmental samples. The lab staff does not know the sample contains radioactivity. Since the bulk of the ordinary workload of the environmental laboratory contains no measurable activity or only naturally occurring radioisotopes, blind spikes can be used to test the detection capability of the laboratory or can be used to test the data review process. If an analysis routinely generates numerous zeroes for a particular isotope, the presence of the isotope is brought to the attention of the laboratory supervisor in the daily review process. Blind spikes test this process since the blind spikes contain radioactivity at levels high enough to be detected. Furthermore, the activity can be put into such samples at the extreme limit of detection (near the LLD) to verify that the laboratory can detect very low levels of activity.

Another category of quality control samples is the internal cross-checks. These samples have a known amount of radioactivity added and are presented to the lab staff labeled as cross-check samples. This means that the quality control staff knows the radioactive content or “right answer” but the lab personnel performing the analysis do not. Such samples test the best

performance of the laboratory by determining if the lab can find the “right answer”. These samples provide information about the accuracy of the measurement process. Further information is available about the variability of the process if multiple analyses are requested on the same sample. Like blind spikes or analytical knowns, these samples can also be spiked with low levels of activity to test detection limits. The analysis results for internal cross-check samples met program performance goals for 2010.

To provide for an independent verification of the laboratory’s ability to make accurate measurements, the laboratory participated in an environmental level cross-check program available through Eckert and Ziegler Analytics, during 2010. The results of TVA’s participation in this cross-check program are presented in Table F-1. The results for these cross-check samples were all within the program agreement limits.

The quality control data are routinely collected, examined and reported to laboratory supervisory personnel. They are checked for trends, problem areas, or other indications that a portion of the analytical process needs correction or improvement. The end result is a measurement process that provides reliable and verifiable data and is sensitive enough to measure the presence of radioactivity far below the levels which could be harmful to humans.

Table F-1

Results For 2010 External Cross Checks

<u>Test Period</u>	<u>Sample Type / Analysis</u>	<u>Known</u>	<u>Results</u> <u>TVA</u>	<u>Agreement</u>
First Quarter	Water (pCi/L)			
	Gross Beta	2.60E+02	2.92E+02	Yes
First Quarter	Water (pCi/L)			
	³ H	1.20E+04	1.23E+04	Yes
First Quarter	Water (pCi/L)			
	¹³¹ I	7.22E+01	8.18E+01	Yes
	¹⁴¹ Ce	2.63E+02	2.60E+02	Yes
	⁵¹ Cr	3.64E+02	3.60E+02	Yes
	¹³⁴ Cs	1.79E+02	1.63E+02	Yes
	¹³⁷ Cs	1.59E+02	1.66E+02	Yes
	⁵⁸ Co	1.44E+02	1.45E+02	Yes
	⁵⁴ Mn	2.09E+02	2.18E+02	Yes
	⁵⁹ Fe	1.38E+02	1.35E+02	Yes
	⁶⁵ Zn	2.56E+02	2.70E+02	Yes
	⁶⁰ Co	1.85E+02	1.87E+02	Yes
First Quarter	Milk (pCi/L)			
	¹³¹ I	1.17E+02	1.06E+02	Yes
	⁸⁹ Sr	1.11E+02	9.88E+01	Yes
	⁹⁰ Sr	1.52E+01	1.47E+01	Yes
Third Quarter	Water (pCi/L)			
	³ H	4.02E+03	4.48E+03	Yes
Third Quarter	Sand (pCi/gram)			
	¹⁴¹ Ce	4.13E-01	4.10E-01	Yes
	⁵¹ Cr	7.42E-01	7.86E-01	Yes
	¹³⁴ Cs	2.95E-01	3.05E-01	Yes
	¹³⁷ Cs	3.00E-01	3.16E-01	Yes
	⁵⁸ Co	2.34E-01	2.41E-01	Yes
	⁵⁴ Mn	3.79E-01	4.08E-01	Yes
	⁵⁹ Fe	2.90E-01	2.95E-01	Yes
	⁶⁵ Zn	6.47E-01	6.97E-01	Yes
	⁶⁰ Co	5.42E-01	5.67E-01	Yes
Third Quarter	Air Filter (pCi/Filter)			
	Gross Beta	9.20E+01	8.45E+01	Yes
Third Quarter	Air Filter (pCi/Filter)			
	¹⁴¹ Ce	1.16E+02	1.11E+02	Yes
	⁵¹ Cr	2.07E+02	2.11E+02	Yes
	¹³⁴ Cs	8.26E+01	6.94E+01	Yes
	¹³⁷ Cs	8.39E+01	8.89E+01	Yes
	⁵⁸ Co	6.54E+01	6.72E+01	Yes
	⁵⁴ Mn	1.06E+02	1.11E+02	Yes
	⁵⁹ Fe	8.09E+01	7.73E+01	Yes
	⁶⁵ Zn	1.81E+02	1.89E+02	Yes
	⁶⁰ Co	1.52E+02	1.52E+02	Yes

APPENDIX G

LAND USE SURVEY

Appendix G

Land Use Survey

A land use survey was conducted in accordance with the provisions of ODCM Control 1.3.2 to identify the location of the nearest milk animal, the nearest residence, and the nearest garden of greater than 500 square feet producing fresh leafy vegetables in each of 16 meteorological sectors within a distance of 5 miles from the plant.

The land use survey was conducted between April 1 and October 1 using appropriate techniques such as door-to-door survey, mail survey, telephone survey, aerial survey, or information from local agricultural authorities or other reliable sources.

Using the survey data, relative radiation doses were projected for individuals near the plant. Doses from air submersion were calculated for the nearest resident in each sector, while doses from drinking milk or eating foods produced near the plant were calculated for the areas with milk producing animals and gardens, respectively. These doses were calculated using historical meteorological data. They also assume that the effluent releases are equivalent to the design basis source terms. The calculated doses are relative in nature and do not reflect actual exposures received by individuals living near WBN.

In response to the 2010 WBN land use survey, annual doses were calculated for air submersion, vegetable ingestion, and milk ingestion. The location of nearest resident changed in one sector during 2010. In addition, the location of the nearest garden changed in a total of four sectors. There were no changes in the location for milk ingestion.

As in previous years, the owner of Farm Ho did not want to participate in the milk sampling. Milk samples were obtained from the farm between Farm Ho and the plant.

The results for the calculated relative dose changed slightly for one garden location and one milk cow location due to small corrections in the terrain adjustment factor for the location. In both cases, there was no change in the actual location.

The results of the 2010 land use survey and resulting relative projected annual dose calculations documented that there were no significant changes in land use of unrestricted areas. No required changes in the sampling locations for the radiological environmental monitoring program were identified as result of the land use survey.

Tables G-1, G-2, and G-3 compare results of the relative projected annual dose calculations for 2009 and 2010.

Table G-1

Watts Bar Nuclear Plant
Relative Projected Annual Air Submersion Dose to the Nearest Residence
Within 5 Miles of Plant^a

<u>Sector</u>	mrem/year			
	2009		2010	
	<u>Approximate Distance (Miles)</u>	<u>Annual Dose</u>	<u>Approximate Distance (Miles)</u>	<u>Annual Dose</u>
N	1.3	0.24	1.3	0.24
NNE	2.2	0.22	2.2	0.22
NE	2.1	0.27	2.1	0.27
ENE	1.9	0.30	1.9	0.30
E	2.0	0.26	2.0	0.26
ESE	2.7	0.16	2.7	0.16
SE	0.9	0.75	0.9	0.75
SSE	1.0	0.36	1.0	0.36
S	1.0	0.38	1.0	0.38
SSW	1.2	0.29	1.2	0.28
SW	2.7	0.09	2.6	0.09
WSW	1.1	0.29	1.1	0.29
W	1.8	0.05	1.8	0.05
WNS	0.9	0.18	0.9	0.18
NW	1.3	0.09	1.3	0.08
NNW	2.7	0.02	2.7	0.02

a. Assumes the effluent releases are equivalent to design basis source terms.

Table G-2

Watts Bar Nuclear Plant
 Relative Projected Annual Ingestion Dose to Child's Bone
 Organ from Ingestion of Home-Grown Foods
 Nearest Garden Within 5 Miles of Plant^a

mrem/year

<u>Sector</u>	<u>2009</u>		<u>2010</u>	
	<u>Approximate Distance (Miles)</u>	<u>Annual Dose</u>	<u>Approximate Distance (Miles)</u>	<u>Annual Dose</u>
N	4.7	0.50	4.7	0.51
NNE	2.8	3.31	3.1	2.83
NE	2.1	5.87	2.1	5.87
ENE	2.9	3.12	4.2	1.71
E	2.9	3.08	2.9	3.08
ESE	3.0	3.06	3.0	3.06
SE	0.9	14.8	0.9	14.8
SSE	1.0	7.30	1.1	6.43
S	2.2	2.78	2.2	2.78
SSW	1.4	5.23	1.4	5.51
SW	b	--	b	--
WSW	2.9	1.32	2.9	1.32
W	2.9	0.50	2.9	0.50
WNW	0.9	3.75	1.9	1.08
NW	1.3	1.63	1.3	1.63
NNW	2.8	0.50	2.8	0.50

a. Assumes the effluent releases are equivalent to design basis source terms.

b. Garden not identified within 5 miles of the plant in this sector.

Table G-3

Watts Bar Nuclear Plant
Relative Projected Annual Dose to Receptor Thyroid from Ingestion of Milk^a
(Nearest Milk-Producing Animal Within 5 Miles of Plant)

mrem/year					
<u>Location</u>	<u>Sector</u>	<u>Approximate Distance Miles</u>	<u>Annual Dose</u> <u>2009</u>	<u>2010</u>	<u>X/Q</u> <u>s/m³</u>
<u>Cows</u>					
Farm N ^b	ESE	4.1	0.06	0.06	1.35 E-6
Farm L ^b	SSW	1.3	0.26	0.27	2.24 E-6
Farm Ho ^c	SSW	1.5	0.31	0.31	1.36 E-6

-
- a. Assumes the plant is operating and effluent releases are equivalent to design basis source terms.
 b. Milk being sampled at these locations.
 c. Owner unwilling to provide samples or information. The dose calculated assumes consumption of the milk by an adult and a feeding factor equivalent to 33 percent. If milk from this location were to be consumed by teens, children or infants, the estimated doses would be 0.50, 1.03 and 2.44 mrem/year, respectively.

APPENDIX H

DATA TABLES AND FIGURES

Table H-1

DIRECT RADIATION LEVELS

Average External Gamma Radiation Levels at Various Distances from
Watts Bar Nuclear Plant for Each Quarter - 2010
mR / Quarter (a)

Average External Gamma Radiation Levels (b)					
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	mR / Yr
Average 0 - 2 miles (onsite)	10.6	12.3	11.8	13.9	49
Average > 2 miles (offsite)	9.0	10.6	10.4	12.2	42

(a) Field periods normalized to one standard quarter (2190 hours)

(b) Average of the individual measurements in the set

Table H-2 (1 of 2)

DIRECT RADIATION LEVELS

Individual Stations at Watts Bar Nuclear Plant

Environmental Radiation Levels								
mR /Quarter								
Map Location Number	TLD Station Number	Direction, degrees	Approx Distance, miles	1st Qtr Jan-Mar 2010	2nd Qtr Apr-Jun 2010	3rd Qtr Jul-Sep 2010	4th Qtr Oct-Dec 2010	Annual Exposure mR/Year
40	N-1	10	1.2	11.3	15.3	13.1	15.0	54.7
41	N-2	350	4.7	11.3	10.3	14.1	14.5	50.2
42	NNE-1	21	1.2	8.2	12.3	11.1	13.0	44.6
10	NNE-1A	22	1.9	10.7	6.8	10.6	11.4	39.5
43	NNE-2	20	4.1	9.7	9.3	7.1	10.9	37.0
3	NNE-3	17	10.4	8.7	9.3	8.1	13.0	39.1
44	NE-1	39	.9	11.8	10.8	15.1	16.6	54.3
45	NE-2	54	2.9	8.7	10.8	14.6	13.5	47.6
46	NE-3	47	6.1	5.2	8.3	8.6	9.3	31.4
47	ENE-1	74	.7	11.8	11.3	13.6	13.0	49.7
48	ENE-2	69	5.8	10.7	8.8	8.1	11.4	39.0
74	ENE-2A	69	3.5	6.7	9.3	6.6	7.8	30.4
4	ENE-3	56	7.6	9.7	12.3	9.6	13.5	45.1
49	E-1	85	1.3	8.7	10.8	9.6	14.5	43.6
50	E-2	92	5.0	8.7	11.3	11.6	16.1	47.7
51	ESE-1	109	1.2	8.2	11.8	7.6	6.7	34.3
52	ESE-2	106	4.4	11.8	14.8	15.6	15.6	57.8
11	SE-1A	138	.9	10.2	11.3	10.1	11.9	43.5
54	SE-2	128	5.3	6.7	11.3	11.1	10.9	40.0
75	SE-2A	144	3.1	10.7	9.3	11.1	11.9	43.0
79	SSE-1	146	.5	8.2	12.3	10.6	15.6	46.7
55	SSE-1A	161	.6	7.2	10.8	8.6	13.0	39.6
56	SSE-2	156	5.8	11.8	13.8	11.1	15.6	52.3

Table H-2 (2 of 2)

DIRECT RADIATION LEVELS

Individual Stations at Watts Bar Nuclear Plant

Environmental Radiation Levels								
Map	TLD			mR /Quarter				Annual
Location	Station	Direction,	Approx	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Exposure
<u>Number</u>	<u>Number</u>	<u>degrees</u>	<u>Distance,</u>	<u>Jan-Mar</u>	<u>Apr-Jun</u>	<u>Jul-Sep</u>	<u>Oct-Dec</u>	<u>mR/Year</u>
			<u>miles</u>	<u>2010</u>	<u>2010</u>	<u>2010</u>	<u>2010</u>	
57	S-1	182	.7	8.2	11.8	11.1	14.5	45.6
58	S-2	185	4.8	5.2	8.8	8.1	9.9	32.0
76	S-2A	177	2.0	12.3	12.8	13.1	13.0	51.2
5	S-3	185	7.8	6.2	11.3	10.6	8.8	36.9
59	SSW-1	199	.8	13.3	17.3	16.1	18.1	64.8
12	SSW-2	200	1.3	11.8	12.3	8.1	13.0	45.2
60	SSW-3	199	5.0	4.7	7.3	8.6	7.8	28.4
62	SW-1	226	.8	12.8	14.3	15.6	18.1	60.8
63	SW-2	220	5.3	7.7	10.8	8.1	10.9	37.5
6	SW-3	225	15.0	9.7	9.3	10.1	8.3	37.4
64	WSW-1	255	.9	9.2	12.8	9.1	8.8	39.9
65	WSW-2	247	3.9	13.3	13.8	11.1	17.6	55.8
66	W-1	270	.9	12.8	11.3	12.1	15.0	51.2
14	W-2	277	4.8	6.2	7.8	9.6	11.4	35.0
77	W-2A	268	3.2	10.7	9.3	12.1	10.4	42.5
67	WNW-1	294	.9	17.8	20.9	21.2	20.2	80.1
68	WNW-2	292	4.9	9.7	13.8	13.6	16.1	53.2
69	NW-1	320	1.1	9.2	10.8	12.6	10.9	43.5
70	NW-2	313	4.7	12.3	13.8	14.1	17.6	57.8
78	NW-2A	321	3.0	9.7	6.8	10.1	9.3	35.9
2	NW-3	317	7.0	10.2	14.8	14.1	14.0	53.1
71	NNW-1	340	1.0	9.7	7.8	8.1	15.0	40.6
72	NNW-2	333	4.5	10.2	12.3	9.1	12.4	44.0
73	NNW-3	329	7.0	6.2	7.8	5.1	8.8	27.9
7	NNW-4	337	15.0	6.7	8.3	6.1	12.4	33.5

Tennessee Valley Authority

RADIOACTIVITY IN AIR FILTER

$$\text{pCi/m}^3 = 0.037 \text{ Bq/m}^3$$

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean Location Description with Distance and Direction	Mean (F) Range <u>See Note 2</u>	Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported Measurements
GROSS BETA - 520	2.00E-03	2.25E-02 (416 / 416) 9.38E-03 - 4.10E-02	PM5 DECATUR 8.0 MILES S	2.38E-02 (52 / 52) 1.19E-02 - 4.10E-02	2.24E-02 (104 / 104) 1.15E-02 - 3.83E-02	
GAMMA ISOTOPIC - 130						
AC-228	1.00E-02	1.05E-02 (1 / 104) 1.05E-02 - 1.05E-02	PM2 SPRING CITY 7.0 MILES NW	1.05E-02 (1 / 13) 1.05E-02 - 1.05E-02	26 VALUES < LLD	
BE-7	2.00E-02	1.15E-01 (104 / 104) 6.28E-02 - 1.78E-01	LM2 0.4 MILES NNE	1.19E-01 (13 / 13) 8.18E-02 - 1.78E-01	1.18E-01 (26 / 26) 7.29E-02 - 1.57E-01	
BI-214	5.00E-03	1.96E-02 (101 / 104) 5.20E-03 - 7.68E-02	PM4 7.6 MILES NE/ENE	2.33E-02 (13 / 13) 7.40E-03 - 6.79E-02	2.15E-02 (26 / 26) 5.50E-03 - 6.99E-02	
K-40	4.00E-02	4.07E-02 (1 / 104) 4.07E-02 - 4.07E-02	LM-4 WB 0.9 MILES SE	4.07E-02 (1 / 13) 4.07E-02 - 4.07E-02	26 VALUES < LLD	
PB-212	5.00E-03	104 VALUES < LLD	PM4 7.6 MILES NE/ENE	13 VALUES < LLD	26 VALUES < LLD	
PB-214	5.00E-03	1.99E-02 (95 / 104) 5.40E-03 - 7.11E-02	PM4 7.6 MILES NE/ENE	2.41E-02 (12 / 13) 7.80E-03 - 7.09E-02	2.17E-02 (26 / 26) 5.30E-03 - 7.56E-02	
TL-208	2.00E-03	104 VALUES < LLD	LM2 0.4 MILES NNE	13 VALUES < LLD	26 VALUES < LLD	

Table H-3

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority

RADIOACTIVITY IN CHARCOAL FILTER

$$\text{pCi/m}^3 = 0.037 \text{ Bq/m}^3$$

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean Location Description with Distance and Direction	Mean (F) Range <u>See Note 2</u>	Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported Measurements
GAMMA ISOTOPIC - 520						
BI-214	5.00E-02	9.57E-02 (125 / 416) 5.00E-02 - 5.70E-01	LM-4 WB 0.9 MILES SE	1.30E-01 (16 / 52) 5.21E-02 - 5.70E-01	9.52E-02 (31 / 104) 5.08E-02 - 2.56E-01	
I-131	3.00E-02	SEE NOTE 3				
K-40	3.00E-01	3.70E-01 (85 / 416) 3.01E-01 - 5.04E-01	LM1 0.5 MILES SSW	3.97E-01 (6 / 52) 3.30E-01 - 5.04E-01	3.73E-01 (26 / 104) 3.03E-01 - 5.16E-01	
PB-212	3.00E-02	416 VALUES < LLD	LM3 1.9 MILES NNE	52 VALUES < LLD	104 VALUES < LLD	
PB-214	7.00E-02	1.32E-01 (90 / 416) 7.01E-02 - 7.40E-01	LM-4 WB 0.9 MILES SE	1.76E-01 (13 / 52) 7.01E-02 - 7.40E-01	1.34E-01 (20 / 104) 7.24E-02 - 2.97E-01	
TL-208	2.00E-02	416 VALUES < LLD	LM-4 WB 0.9 MILES SE	52 VALUES < LLD	104 VALUES < LLD	

Table H-4

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

3. The analysis of Charcoal Filters was performed by Gamma Spectroscopy. No I-131 was detected. The LLD for I-131 by Gamma Spectroscopy was 0.03 pCi/cubic meter.

Tennessee Valley Authority

RADIOACTIVITY IN ATMOSPHERIC MOISTURE

$$\text{pCi/m}^3 = 0.037 \text{ Bq/m}^3$$

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean Mean (F) Range <u>See Note 2</u> Location Description with Distance and Direction	Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported Measurements
TRITIUM - 208	3.00E+00	4.73E+00 (28 / 156) 3.01E+00 - 1.25E+01	PM2 SPRING CITY 7.0 MILES NW	5.92E+00 (1 / 26) 5.92E+00 - 5.92E+00	6.36E+00 (3 / 52) 4.74E+00 - 8.73E+00

Table H-5

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority

RADIOACTIVITY IN MILK
pCi/L = 0.037 Bq/L

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean Location Description with Distance and Direction	Mean (F) Range <u>See Note 2</u>	Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported Measurements
IODINE-131 - 104	4.00E-01	52 VALUES < LLD			52 VALUES < LLD	
GAMMA ISOTOPIC - 104						
AC-228	2.00E+01	2.19E+01 (1 / 52) 2.19E+01 - 2.19E+01	NORTON FARM 4.1 MILES ESE	2.19E+01 (1 / 26) 2.19E+01 - 2.19E+01	52 VALUES < LLD	
BI-214	2.00E+01	2.51E+01 (12 / 52) 2.00E+01 - 3.21E+01	LAYMAN FARM 1.3 MILES SSW	2.74E+01 (5 / 26) 2.17E+01 - 3.21E+01	3.72E+01 (17 / 52) 2.02E+01 - 9.14E+01	
K-40	1.00E+02	1.31E+03 (52 / 52) 6.38E+02 - 1.50E+03	LAYMAN FARM 1.3 MILES SSW	1.36E+03 (26 / 26) 1.19E+03 - 1.47E+03	1.27E+03 (52 / 52) 1.07E+03 - 1.63E+03	
PB-212	1.50E+01	52 VALUES < LLD	NORTON FARM 4.1 MILES ESE	26 VALUES < LLD	52 VALUES < LLD	
PB-214	2.00E+01	2.41E+01 (7 / 52) 2.02E+01 - 3.30E+01	NORTON FARM 4.1 MILES ESE	2.67E+01 (4 / 26) 2.11E+01 - 3.30E+01	3.11E+01 (16 / 52) 2.04E+01 - 6.87E+01	
TL-208	1.00E+01	52 VALUES < LLD	NORTON FARM 4.1 MILES ESE	26 VALUES < LLD	52 VALUES < LLD	
STRONTIUM-89 - 15	3.50E+00	7 VALUES < LLD			8 VALUES < LLD	
STRONTIUM-90 - 15	2.00E+00	7 VALUES < LLD			8 VALUES < LLD	

Table H-6

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority

RADIOACTIVITY IN SOIL
pCi/g (dry) = 0.037 Bq/g (dry)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean Location Description with Distance and Direction	Mean (F) Range <u>See Note 2</u>	Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported Measurements
GAMMA ISOPTOPIC - 10						
AC-228	2.50E-01	1.16E+00 (8 / 8) 9.33E-01 - 1.28E+00	LM-4 WB 0.9 MILES SE	1.28E+00 (1 / 1) 1.28E+00 - 1.28E+00	6.84E-01 (2 / 2) 5.65E-01 - 8.04E-01	
BE-7	2.50E-01	3.76E-01 (3 / 8) 2.90E-01 - 5.15E-01	PM5 DECATUR 8.0 MILES S	5.15E-01 (1 / 1) 5.15E-01 - 5.15E-01	2 VALUES < LLD	
BI-212	4.50E-01	1.23E+00 (8 / 8) 8.79E-01 - 1.40E+00	LM-4 WB 0.9 MILES SE	1.40E+00 (1 / 1) 1.40E+00 - 1.40E+00	7.96E-01 (2 / 2) 5.99E-01 - 9.93E-01	
BI-214	1.50E-01	8.45E-01 (8 / 8) 7.53E-01 - 9.83E-01	LM3 1.9 MILES NNE	9.83E-01 (1 / 1) 9.83E-01 - 9.83E-01	7.25E-01 (2 / 2) 5.81E-01 - 8.70E-01	
CS-137	3.00E-02	2.46E-01 (7 / 8) 4.84E-02 - 8.98E-01	PM2 SPRING CITY 7.0 MILES NW	8.98E-01 (1 / 1) 8.98E-01 - 8.98E-01	3.20E-01 (2 / 2) 1.35E-01 - 5.06E-01	
K-40	7.50E-01	1.24E+01 (8 / 8) 4.10E+00 - 2.59E+01	LM-4 WB 0.9 MILES SE	2.59E+01 (1 / 1) 2.59E+01 - 2.59E+01	4.51E+00 (2 / 2) 4.51E+00 - 4.51E+00	
PB-212	1.00E-01	1.12E+00 (8 / 8) 8.66E-01 - 1.23E+00	LM-4 WB 0.9 MILES SE	1.23E+00 (1 / 1) 1.23E+00 - 1.23E+00	7.05E-01 (2 / 2) 6.15E-01 - 7.95E-01	
PB-214	1.50E-01	9.23E-01 (8 / 8) 8.28E-01 - 1.09E+00	LM3 1.9 MILES NNE	1.09E+00 (1 / 1) 1.09E+00 - 1.09E+00	7.69E-01 (2 / 2) 6.05E-01 - 9.33E-01	
RA-226	1.50E-01	8.45E-01 (8 / 8) 7.53E-01 - 9.83E-01	LM3 1.9 MILES NNE	9.83E-01 (1 / 1) 9.83E-01 - 9.83E-01	7.25E-01 (2 / 2) 5.81E-01 - 8.70E-01	
TL-208	6.00E-02	3.74E-01 (8 / 8) 2.95E-01 - 4.26E-01	PM2 SPRING CITY 7.0 MILES NW	4.26E-01 (1 / 1) 4.26E-01 - 4.26E-01	2.25E-01 (2 / 2) 1.95E-01 - 2.55E-01	
STRONTIUM-89 - 10						
	1.60E+00	8 VALUES < LLD			2 VALUES < LLD	
STRONTIUM-90 - 10						
	4.00E-01	8 VALUES < LLD			2 VALUES < LLD	

Table H-7

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority

RADIOACTIVITY IN APPLES
pCi/Kg (wet) = 0.037 Bq/Kg (wet)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean Location Description with Distance and Direction	Mean (F) Range <u>See Note 2</u>	Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported <u>Measurements</u>
GAMMA ISOTOPIC - 2						
BI-214	4.00E+01	5.79E+01 (1 / 1) 5.79E+01 - 5.79E+01	LM-4 WB 0.9 MILES SE	5.79E+01 (1 / 1) 5.79E+01 - 5.79E+01	5.85E+01 (1 / 1) 5.85E+01 - 5.85E+01	
K-40	2.50E+02	1.18E+03 (1 / 1) 1.18E+03 - 1.18E+03	LM-4 WB 0.9 MILES SE	1.18E+03 (1 / 1) 1.18E+03 - 1.18E+03	9.55E+02 (1 / 1) 9.55E+02 - 9.55E+02	
PB-214	8.00E+01	1 VALUES < LLD	LM-4 WB 0.9 MILES SE	1 VALUES < LLD	1 VALUES < LLD	

Table H-8

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority

RADIOACTIVITY IN CABBAGE
pCi/Kg (wet) = 0.037 Bq/Kg (wet)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean		Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported Measurements
			Location Description with Distance and Direction	Mean (F) Range <u>See Note 2</u>		
GAMMA ISOTOPIC - 2						
BI-214	4.00E+01	5.84E+01 (1 / 1) 5.84E+01 - 5.84E+01	2.5 MILES NE	5.84E+01 (1 / 1) 5.84E+01 - 5.84E+01	1.04E+02 (1 / 1) 1.04E+02 - 1.04E+02	
K-40	2.50E+02	2.00E+03 (1 / 1) 2.00E+03 - 2.00E+03	2.5 MILES NE	2.00E+03 (1 / 1) 2.00E+03 - 2.00E+03	1.35E+03 (1 / 1) 1.35E+03 - 1.35E+03	
PB-212	4.00E+01	1 VALUES < LLD	2.5 MILES NE	1 VALUES < LLD	1 VALUES < LLD	
PB-214	8.00E+01	1 VALUES < LLD	2.5 MILES NE	1 VALUES < LLD	9.06E+01 (1 / 1) 9.06E+01 - 9.06E+01	
TL-208	3.00E+01	1 VALUES < LLD	2.5 MILES NE	1 VALUES < LLD	1 VALUES < LLD	1

Table H-9

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority

RADIOACTIVITY IN CORN
pCi/Kg (wet) = 0.037 Bq/Kg (wet)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean Mean (F) Range <u>See Note 2</u>	Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported Measurements
GAMMA ISOTOPIC - 2					
BI-214	4.00E+01	4.84E+01 (1 / 1) 4.84E+01 - 4.84E+01	2.5 MILES NE 4.84E+01 (1 / 1) 4.84E+01 - 4.84E+01	4.03E+01 (1 / 1) 4.03E+01 - 4.03E+01	
K-40	2.50E+02	2.39E+03 (1 / 1) 2.39E+03 - 2.39E+03	2.5 MILES NE 2.39E+03 (1 / 1) 2.39E+03 - 2.39E+03	2.62E+03 (1 / 1) 2.62E+03 - 2.62E+03	
PB-214	8.00E+01	1 VALUES < LLD	2.5 MILES NE 1 VALUES < LLD	1 VALUES < LLD	

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority

RADIOACTIVITY IN GREEN BEANS

pCi/Kg (wet) = 0.037 Bq/Kg (wet)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean Mean (F) Range <u>See Note 2</u>	Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported Measurements
GAMMA ISOTOPIC - 2					
BI-214	4.00E+01	1.45E+02 (1 / 1) 1.45E+02 - 1.45E+02	LM-4 WB 0.9 MILES SE	1.45E+02 (1 / 1) 1.45E+02 - 1.45E+02	2.21E+02 (1 / 1) 2.21E+02 - 2.21E+02
K-40	2.50E+02	2.91E+03 (1 / 1) 2.91E+03 - 2.91E+03	LM-4 WB 0.9 MILES SE	2.91E+03 (1 / 1) 2.91E+03 - 2.91E+03	1.43E+03 (1 / 1) 1.43E+03 - 1.43E+03
PB-212	4.00E+01	1 VALUES < LLD	LM-4 WB 0.9 MILES SE	1 VALUES < LLD	1 VALUES < LLD
PB-214	8.00E+01	1.20E+02 (1 / 1) 1.20E+02 - 1.20E+02	LM-4 WB 0.9 MILES SE	1.20E+02 (1 / 1) 1.20E+02 - 1.20E+02	2.22E+02 (1 / 1) 2.22E+02 - 2.22E+02

Table H-11

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority

RADIOACTIVITY IN TOMATOES
pCi/Kg (wet) = 0.037 Bq/Kg (wet)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean Mean (F) Range <u>See Note 2</u>	Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported Measurements
GAMMA ISOTOPIC - 2					
BI-214	4.00E+01	1 VALUES < LLD	2.5 MILES NE	1 VALUES < LLD	1 VALUES < LLD
K-40	2.50E+02	2.69E+03 (1 / 1) 2.69E+03 - 2.69E+03	2.5 MILES NE	2.69E+03 (1 / 1) 2.69E+03 - 2.69E+03	2.48E+03 (1 / 1) 2.48E+03 - 2.48E+03
PB-214	8.00E+01	1 VALUES < LLD	2.5 MILES NE	1 VALUES < LLD	1 VALUES < LLD

Table H-12

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.
2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority

RADIOACTIVITY IN SURFACE WATER (Total) pCi/L = 0.037 Bq/L

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean Mean (F) Range <u>See Note 2</u>	Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported Measurements
GROSS BETA - 39					
	1.90E+00	2.76E+00 (17 / 26) 1.91E+00 - 4.70E+00	TRM 523.1	2.79E+00 (10 / 13) 1.91E+00 - 4.70E+00	2.45E+00 (6 / 13) 2.01E+00 - 3.13E+00
GAMMA ISOTOPIC - 39					
AC-228	2.00E+01	26 VALUES < LLD	TRM 517.9	13 VALUES < LLD	13 VALUES < LLD
BI-214	2.00E+01	3.90E+01 (15 / 26) 2.02E+01 - 8.14E+01	TRM 517.9	4.29E+01 (7 / 13) 2.86E+01 - 6.40E+01	4.28E+01 (8 / 13) 2.17E+01 - 8.84E+01
K-40	1.00E+02	26 VALUES < LLD	TRM 523.1	13 VALUES < LLD	13 VALUES < LLD
PB-212	1.50E+01	26 VALUES < LLD	TRM 517.9	13 VALUES < LLD	13 VALUES < LLD
PB-214	2.00E+01	3.47E+01 (8 / 26) 2.16E+01 - 5.01E+01	TRM 523.1	3.94E+01 (2 / 13) 2.86E+01 - 5.01E+01	3.28E+01 (6 / 13) 2.14E+01 - 4.62E+01
TL-208	1.00E+01	26 VALUES < LLD	TRM 517.9	13 VALUES < LLD	13 VALUES < LLD
TRITIUM - 39					
	2.70E+02	3.78E+02 (3 / 26) 3.42E+02 - 4.40E+02	TRM 523.1	3.96E+02 (2 / 13) 3.51E+02 - 4.40E+02	13 VALUES < LLD

Table H-13

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority

RADIOACTIVITY IN PUBLIC WATER (Total)
pCi/L = 0.037 Bq/L

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean Mean (F) Range <u>See Note 2</u>	Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported Measurements
GROSS BETA - 39					
	1.90E+00	2.50E+00 (12 / 26) 1.95E+00 - 3.20E+00	DAYTON TN TRM 503.8	2.67E+00 (6 / 13) 1.97E+00 - 3.20E+00	2.45E+00 (6 / 13) 2.01E+00 - 3.13E+00
GAMMA ISOTOPIC - 39					
AC-228	2.00E+01	26 VALUES < LLD	CF INDUSTRIES TRM 473.0	13 VALUES < LLD	13 VALUES < LLD
BI-214	2.00E+01	3.88E+01 (11 / 26) 2.30E+01 - 6.22E+01	CF INDUSTRIES TRM 473.0	4.12E+01 (5 / 13) 2.53E+01 - 6.06E+01	4.28E+01 (8 / 13) 2.17E+01 - 8.84E+01
K-40	1.00E+02	26 VALUES < LLD	DAYTON TN TRM 503.8	13 VALUES < LLD	13 VALUES < LLD
PB-212	1.50E+01	26 VALUES < LLD	DAYTON TN TRM 503.8	13 VALUES < LLD	13 VALUES < LLD
PB-214	2.00E+01	3.61E+01 (5 / 26) 2.26E+01 - 4.50E+01	DAYTON TN TRM 503.8	4.33E+01 (2 / 13) 4.15E+01 - 4.50E+01	3.28E+01 (6 / 13) 2.14E+01 - 4.62E+01
TL-208	1.00E+01	26 VALUES < LLD	DAYTON TN TRM 503.8	13 VALUES < LLD	13 VALUES < LLD
TRITIUM - 47					
	2.70E+02	4.64E+02 (6 / 34) 2.96E+02 - 5.97E+02	CF INDUSTRIES TRM 473.0	5.25E+02 (3 / 17) 4.99E+02 - 5.44E+02	13 VALUES < LLD

Table H-14

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority

RADIOACTIVITY IN WELL WATER (Total)
pCi/L = 0.037 Bq/L

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean Location Description with Distance and Direction	Mean (F) Range <u>See Note 2</u>	Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported Measurements
GROSS BETA - 91	1.90E+00	4.09E+00 (50 / 65) 2.11E+00 - 9.45E+00	WBN MW-F 0.3 MILES SE	4.87E+00 (11 / 13) 3.39E+00 - 8.13E+00	2.30E+00 (6 / 26) 1.92E+00 - 2.65E+00	
GAMMA ISOTOPIC - 91						
AC-228	2.00E+01	2.40E+01 (1 / 65) 2.40E+01 - 2.40E+01	WBN MW-C 0.3 MILES ESE	2.40E+01 (1 / 13) 2.40E+01 - 2.40E+01	2.28E+01 (1 / 26) 2.28E+01 - 2.28E+01	
BI-214	2.00E+01	4.20E+01 (31 / 65) 2.02E+01 - 1.04E+02	WBN MW-A 0.6 MILES SSE	5.39E+01 (7 / 13) 2.02E+01 - 1.04E+02	1.38E+02 (18 / 26) 2.12E+01 - 3.11E+02	
K-40	1.00E+02	65 VALUES < LLD	WBN MW-F 0.3 MILES SE	13 VALUES < LLD	26 VALUES < LLD	
PB-212	1.50E+01	65 VALUES < LLD	WBN MW-A 0.6 MILES SSE	13 VALUES < LLD	26 VALUES < LLD	
PB-214	2.00E+01	3.79E+01 (24 / 65) 2.15E+01 - 6.64E+01	WBN MW-A 0.6 MILES SSE	4.89E+01 (6 / 13) 2.20E+01 - 6.64E+01	1.62E+02 (14 / 26) 3.24E+01 - 3.02E+02	
TL-208	1.00E+01	65 VALUES < LLD	WBN MW-C 0.3 MILES ESE	13 VALUES < LLD	26 VALUES < LLD	
TRITIUM - 91	2.70E+02	1.93E+03 (36 / 65) 5.34E+02 - 2.86E+03	WBN MW-B 0.5 MILES SSE	2.35E+03 (13 / 13) 1.73E+03 - 2.86E+03	26 VALUES < LLD	

Table H-15

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority

RADIOACTIVITY IN COMMERCIAL FISH pCi/g (dry) = 0.037 Bq/g (dry)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean Mean (F) Range <u>See Note 2</u>	Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported Measurements
GAMMA ISOTOPIC - 6					
BI-214	1.00E-01	2.11E-01 (3 / 4) 1.25E-01 - 3.79E-01	DOWNSTREAM STATION 1 TRM 522.8 - 527.8	3.79E-01 (1 / 2) 3.79E-01 - 3.79E-01	2.06E-01 (2 / 2) 1.44E-01 - 2.68E-01
CS-137	3.00E-02	3.63E-02 (3 / 4) 3.14E-02 - 4.04E-02	CHICKAMAUGA RES TRM 471-530	4.04E-02 (1 / 2) 4.04E-02 - 4.04E-02	2 VALUES < LLD
K-40	4.00E-01	1.31E+01 (4 / 4) 1.06E+01 - 1.53E+01	CHICKAMAUGA RES TRM 471-530	1.33E+01 (2 / 2) 1.12E+01 - 1.53E+01	1.14E+01 (2 / 2) 9.48E+00 - 1.33E+01
PB-214	5.00E-01	4 VALUES < LLD	DOWNSTREAM STATION 1 TRM 522.8 - 527.8	2 VALUES < LLD	2 VALUES < LLD

Table H-16

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority

RADIOACTIVITY IN GAME FISH
pCi/g (dry) = 0.037 Bq/g (dry)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean <u>Location Description</u>	Mean (F) Range <u>See Note 2</u>	Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported Measurements
GAMMA ISOTOPIC - 6						
BI-214	1.00E-01	4.73E-01 (2 / 4) 4.66E-01 - 4.80E-01	DOWNSTREAM STATION 1 TRM 522.8 - 527.8	4.80E-01 (1 / 2) 4.80E-01 - 4.80E-01	2.14E-01 (2 / 2) 1.15E-01 - 3.13E-01	
CS-137	3.00E-02	4.68E-02 (2 / 4) 3.34E-02 - 6.02E-02	DOWNSTREAM STATION 1 TRM 522.8 - 527.8	6.02E-02 (1 / 2) 6.02E-02 - 6.02E-02	5.02E-02 (1 / 2) 5.02E-02 - 5.02E-02	
K-40	4.00E-01	1.35E+01 (4 / 4) 1.22E+01 - 1.54E+01	CHICKAMAUGA RES TRM 471-530	1.38E+01 (2 / 2) 1.22E+01 - 1.54E+01	1.32E+01 (2 / 2) 1.25E+01 - 1.38E+01	
PB-214	5.00E-01	5.07E-01 (1 / 4) 5.07E-01 - 5.07E-01	CHICKAMAUGA RES TRM 471-530	5.07E-01 (1 / 2) 5.07E-01 - 5.07E-01	2 VALUES < LLD	

Table H-17

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority

RADIOACTIVITY IN SHORELINE SEDIMENT

pCi/g (dry) = 0.037 Bq/g (dry)

Name of Facility: WATTS BAR NUCLEAR PLANT

Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391

Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) <u>See Note 1</u>	Indicator Locations Mean (F) Range <u>See Note 2</u>	Location with Highest Annual Mean Mean (F) Range <u>See Note 2</u>	Control Locations Mean (F) Range <u>See Note 2</u>	Number of Nonroutine Reported Measurements
GAMMA ISOTOPIC - 4					
AC-228	2.50E-01	1.29E+00 (2 / 2) 1.27E+00 - 1.31E+00	COTTON PORT MARINA TRM 513 1.29E+00 (2 / 2) 1.27E+00 - 1.31E+00	8.89E-01 (2 / 2) 7.12E-01 - 1.07E+00	
BE-7	2.50E-01	3.33E-01 (1 / 2) 3.33E-01 - 3.33E-01	COTTON PORT MARINA TRM 513 3.33E-01 (1 / 2) 3.33E-01 - 3.33E-01	2 VALUES < LLD	
BI-212	4.50E-01	1.37E+00 (2 / 2) 1.34E+00 - 1.41E+00	COTTON PORT MARINA TRM 513 1.37E+00 (2 / 2) 1.34E+00 - 1.41E+00	8.47E-01 (2 / 2) 7.90E-01 - 9.04E-01	
BI-214	1.50E-01	6.35E-01 (2 / 2) 6.29E-01 - 6.41E-01	COTTON PORT MARINA TRM 513 6.35E-01 (2 / 2) 6.29E-01 - 6.41E-01	6.70E-01 (2 / 2) 4.91E-01 - 8.49E-01	
CS-137	3.00E-02	4.83E-02 (1 / 2) 4.83E-02 - 4.83E-02	COTTON PORT MARINA TRM 513 4.83E-02 (1 / 2) 4.83E-02 - 4.83E-02	2 VALUES < LLD	
K-40	7.50E-01	2.87E+01 (2 / 2) 2.83E+01 - 2.92E+01	COTTON PORT MARINA TRM 513 2.87E+01 (2 / 2) 2.83E+01 - 2.92E+01	3.37E+00 (2 / 2) 2.59E+00 - 4.16E+00	
PB-212	1.00E-01	1.22E+00 (2 / 2) 1.20E+00 - 1.24E+00	COTTON PORT MARINA TRM 513 1.22E+00 (2 / 2) 1.20E+00 - 1.24E+00	8.54E-01 (2 / 2) 7.79E-01 - 9.30E-01	
PB-214	1.50E-01	6.70E-01 (2 / 2) 6.63E-01 - 6.78E-01	COTTON PORT MARINA TRM 513 6.70E-01 (2 / 2) 6.63E-01 - 6.78E-01	7.62E-01 (2 / 2) 5.62E-01 - 9.61E-01	
RA-226	1.50E-01	6.41E-01 (1 / 2) 6.41E-01 - 6.41E-01	COTTON PORT MARINA TRM 513 6.41E-01 (1 / 2) 6.41E-01 - 6.41E-01	4.91E-01 (1 / 2) 4.91E-01 - 4.91E-01	
TL-208	6.00E-02	4.25E-01 (2 / 2) 4.22E-01 - 4.29E-01	COTTON PORT MARINA TRM 513 4.25E-01 (2 / 2) 4.22E-01 - 4.29E-01	2.83E-01 (2 / 2) 2.34E-01 - 3.32E-01	

Table H-18

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority

RADIOACTIVITY IN POND SEDIMENT pCi/g (dry) = 0.037 Bq/g (dry)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA, TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2010

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Annual Mean Mean (F) Range See Note 2 Location Description	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
GAMMA ISOTOPIC - 5					
AC-228	2.50E-01	8.86E-01 (5 / 5) 6.84E-01 - 1.11E+00	YP-13 YARD POND	1.11E+00 (1 / 1) 1.11E+00 - 1.11E+00	VALUES < LLD
BE-7	2.50E-01	4.56E-01 (4 / 5) 3.01E-01 - 6.57E-01	YP-17 YARD POND	6.57E-01 (1 / 1) 6.57E-01 - 6.57E-01	VALUES < LLD
BI-212	4.50E-01	9.31E-01 (5 / 5) 5.63E-01 - 1.16E+00	YP-13 YARD POND	1.16E+00 (1 / 1) 1.16E+00 - 1.16E+00	VALUES < LLD
BI-214	1.50E-01	9.01E-01 (5 / 5) 7.76E-01 - 1.02E+00	YP-17 YARD POND	1.02E+00 (1 / 1) 1.02E+00 - 1.02E+00	VALUES < LLD
CO-58	3.00E-02	3.73E-02 (1 / 5) 3.73E-02 - 3.73E-02	YP-17 YARD POND	3.73E-02 (1 / 1) 3.73E-02 - 3.73E-02	VALUES < LLD
CO-60	3.00E-02	8.98E-02 (4 / 5) 3.78E-02 - 2.06E-01	YP-17 YARD POND	2.06E-01 (1 / 1) 2.06E-01 - 2.06E-01	VALUES < LLD
CS-134	3.00E-02	4.10E-02 (1 / 5) 4.10E-02 - 4.10E-02	LV-3 LOW VOL WASTE POND	4.10E-02 (1 / 1) 4.10E-02 - 4.10E-02	VALUES < LLD
CS-137	3.00E-02	9.58E-02 (5 / 5) 5.07E-02 - 1.61E-01	YP-13 YARD POND	1.61E-01 (1 / 1) 1.61E-01 - 1.61E-01	VALUES < LLD
K-40	7.50E-01	1.12E+01 (5 / 5) 8.27E+00 - 1.61E+01	YP-13 YARD POND	1.61E+01 (1 / 1) 1.61E+01 - 1.61E+01	VALUES < LLD
PB-212	1.00E-01	8.60E-01 (5 / 5) 5.68E-01 - 1.11E+00	YP-13 YARD POND	1.11E+00 (1 / 1) 1.11E+00 - 1.11E+00	VALUES < LLD
PB-214	1.50E-01	8.75E-01 (5 / 5) 6.41E-01 - 1.03E+00	YP-13 YARD POND	1.03E+00 (1 / 1) 1.03E+00 - 1.03E+00	VALUES < LLD
SB-125	-1.00E+00	2.00E-01 (2 / 5) 8.00E-02 - 3.19E-01	YP-17 YARD POND	3.19E-01 (1 / 1) 3.19E-01 - 3.19E-01	VALUES < LLD
TL-208	6.00E-02	2.87E-01 (5 / 5) 2.04E-01 - 3.71E-01	YP-13 YARD POND	3.71E-01 (1 / 1) 3.71E-01 - 3.71E-01	VALUES < LLD

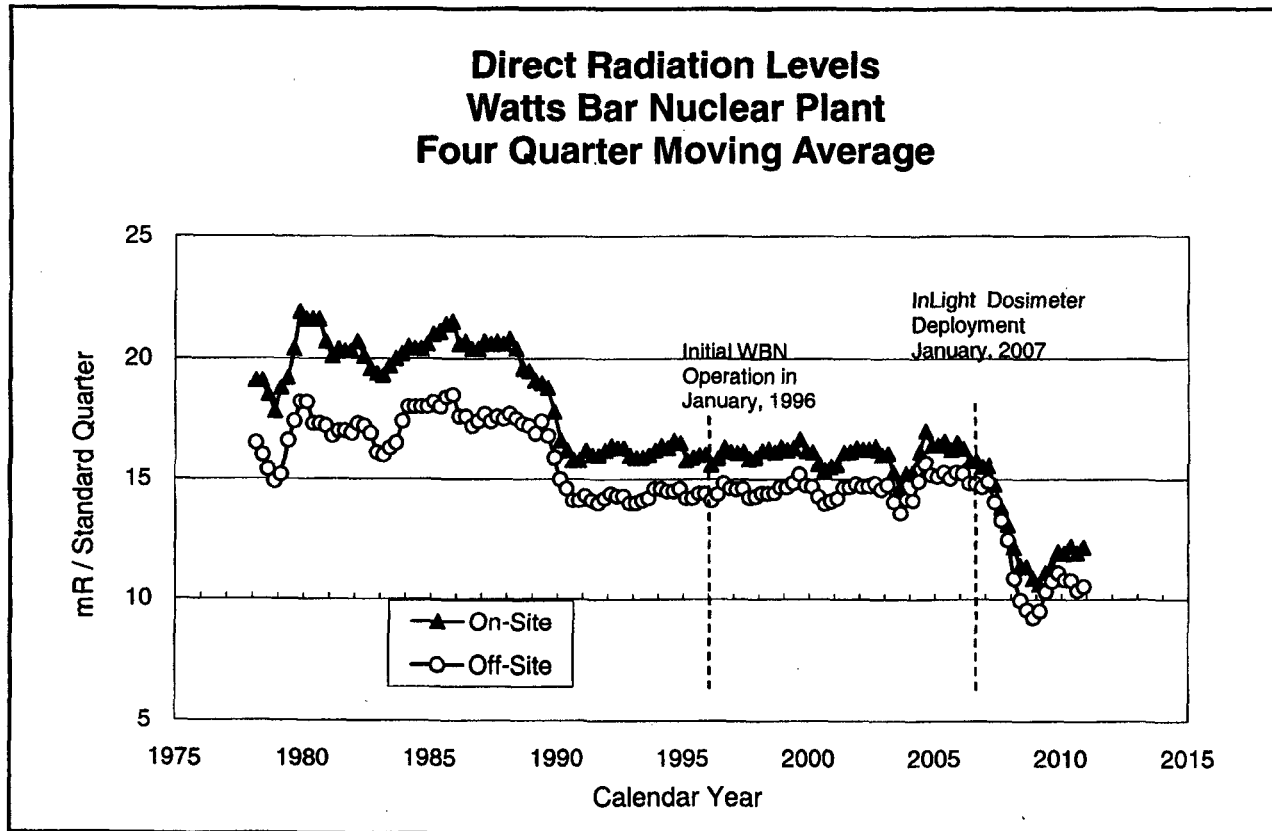
Table H-19

Notes: 1. Nominal Lower Level of Detection (LLD) as described in Table E-1.

2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Figure H-1

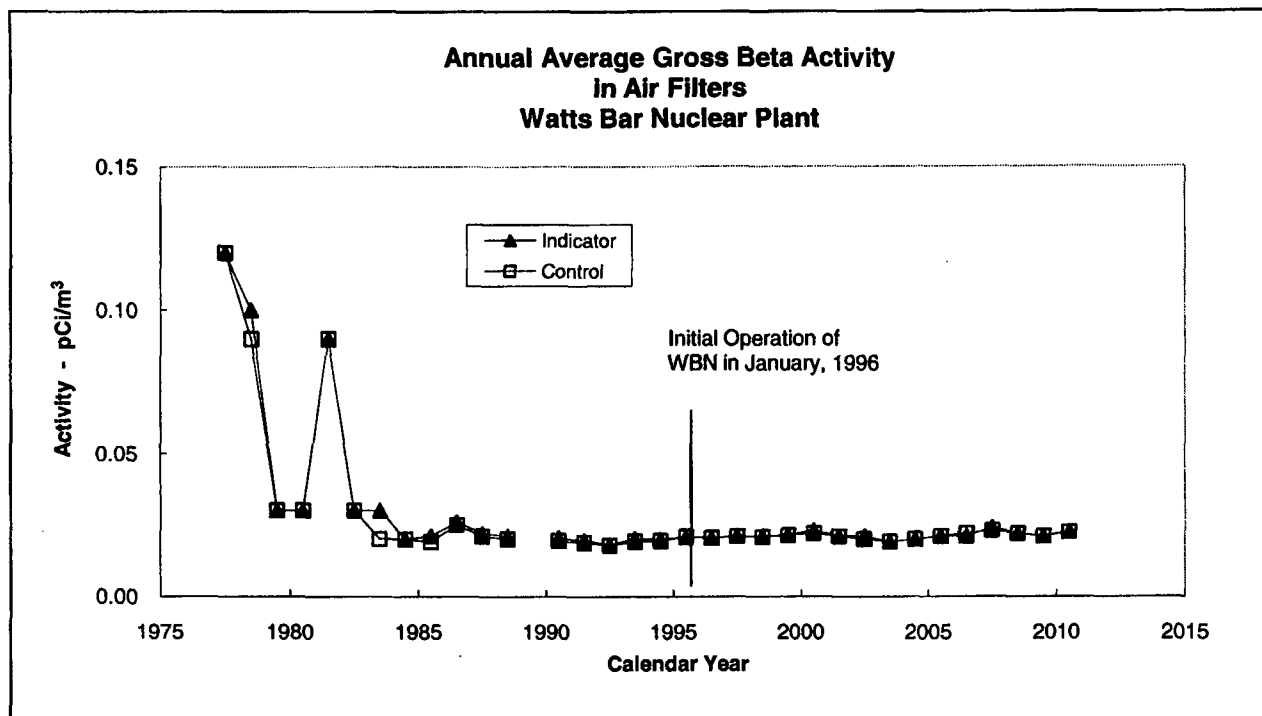
Direct Radiation



Dosimeters are processed quarterly. This chart shows trends in the average measurement for all dosimeters grouped as "on-site" or "off-site". The data from preoperational phase, prior to 1996, show the same trend of "on-site" measurements higher than "off-site" measurements that is observed in current data indicating that the slightly higher "on-site" direct radiation levels are not related to plant operations. The graph shows an overall decrease in quarterly values associated with changes in dosimeter models in 1990 and in 2007. This difference resulted from improvements in dosimeter models and changes in the method for adjusting for background badge readings.

Figure H-2

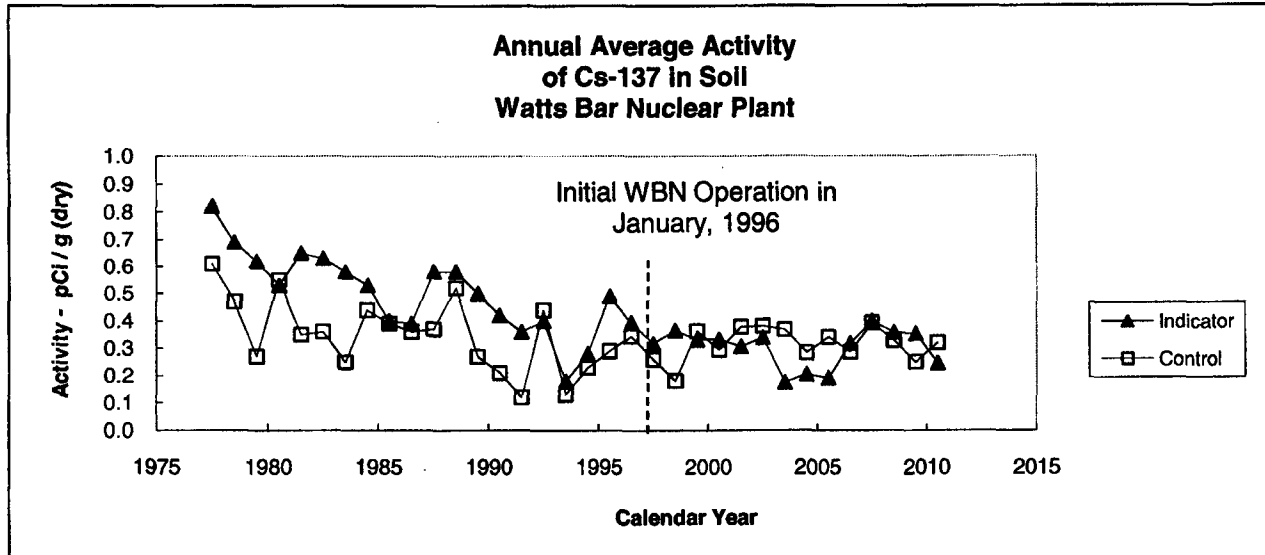
Radioactivity in Air Filters



As can be seen in the trend plot of gross beta activity, the gross beta levels in air particulates have remained relatively constant with the exception of years when the beta activity was elevated due to fallout from nuclear weapons testing. The data also shows that there is no difference in the levels for sampling conducted at the indicator stations as compared to the control stations. The Watts Bar monitoring program was suspended for one year in 1989. The preoperational monitoring was restarted in 1990.

Figure H-3

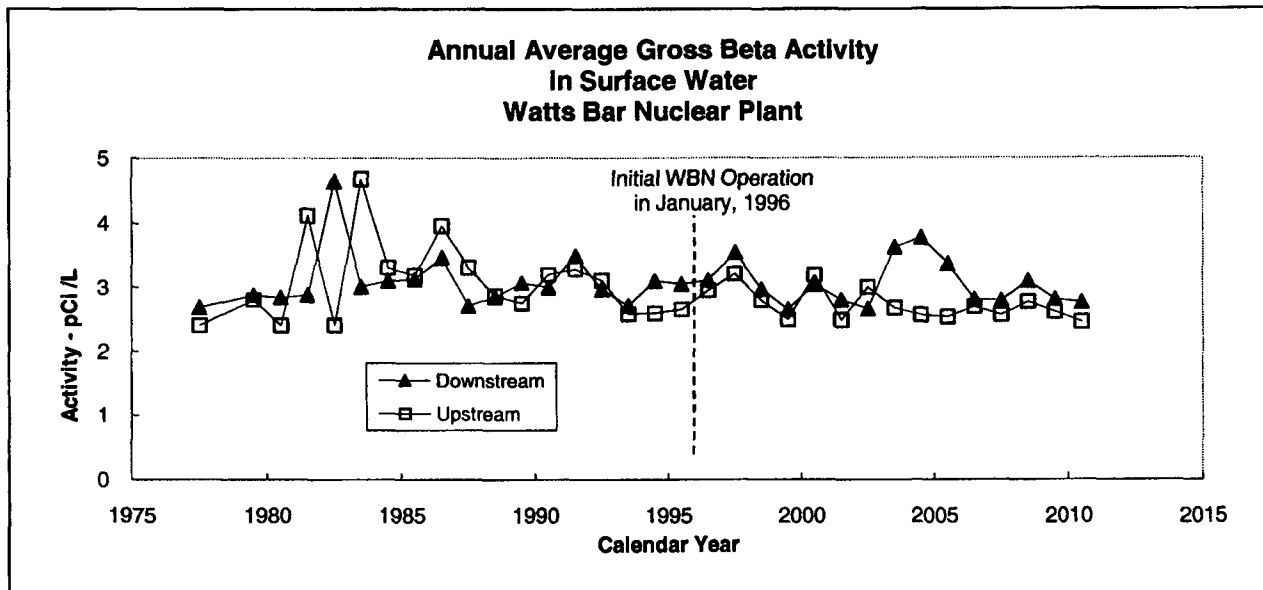
Cs-137 in Soil



Cesium-137 was produced by past nuclear weapons testing and is present in almost every environmental soil sample exposed to the atmosphere. The "control" and "indicator" locations have generally trended downward with year-to-year variation, since the beginning of the Watts Bar monitoring program.

Figure H-4

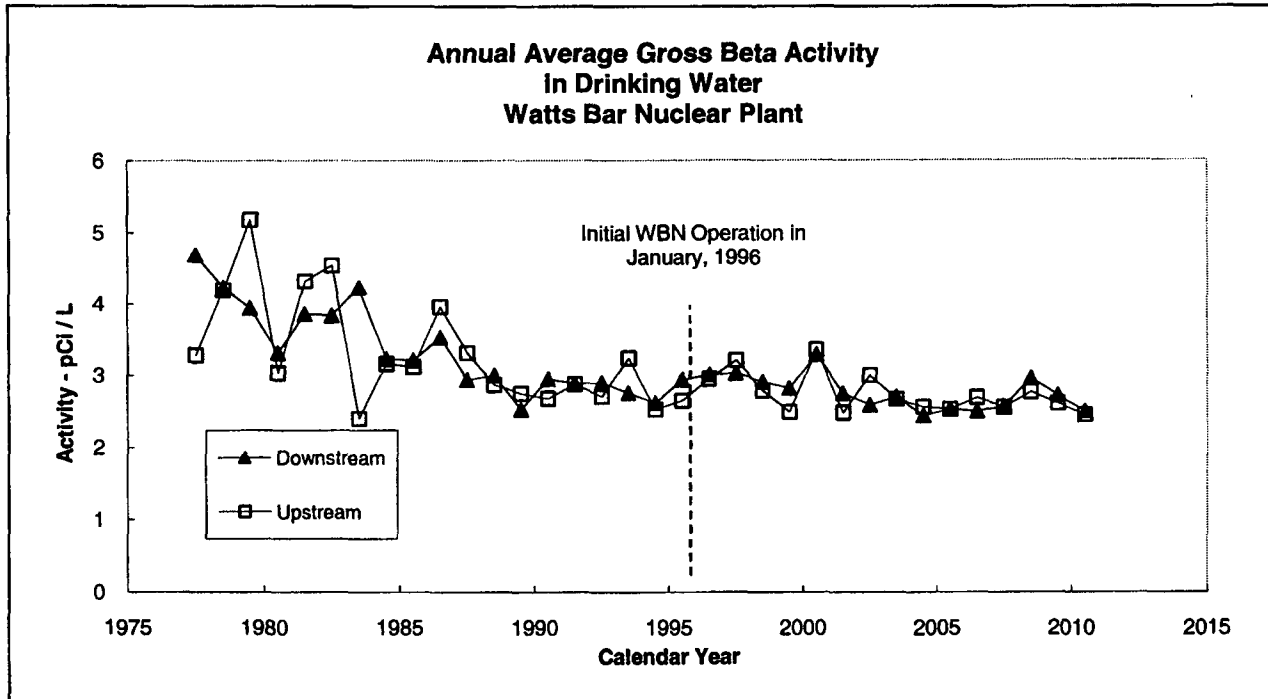
Gross Beta Activity in Surface Water



As shown in the graph, the gross beta activity has been essentially the same in samples from the downstream and upstream locations. The average gross beta activity in these samples has been representative of the levels measured during preoperational monitoring.

Figure H-5

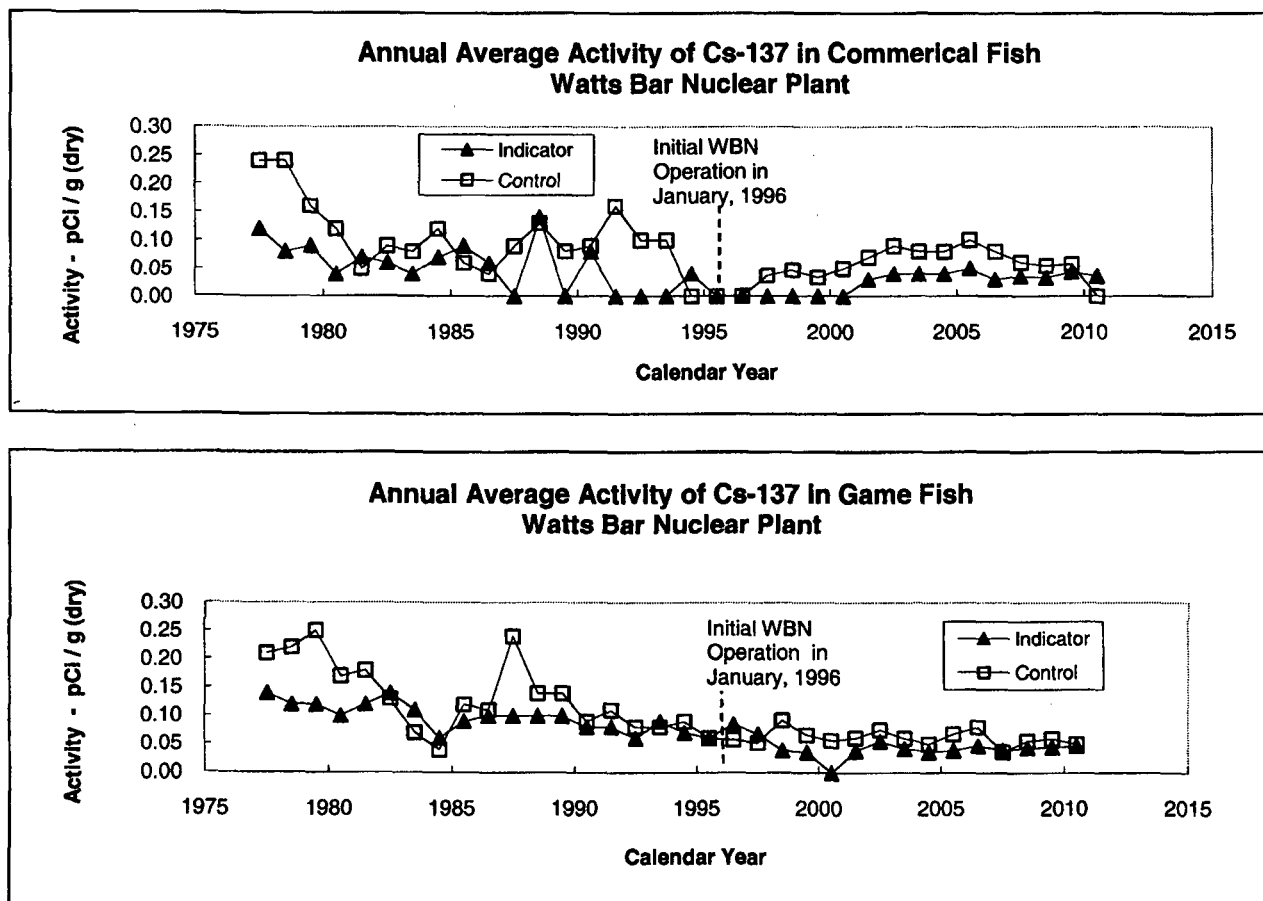
Gross Beta Activity in Drinking Water



The average gross beta activity in drinking water samples from the upstream control locations has been essentially the same as the activity level measured in samples from the downstream indicator locations. The annual average gross beta activity has been relatively constant since the start of plant operations in 1996 and is slightly lower than preoperational levels.

Figure H-6

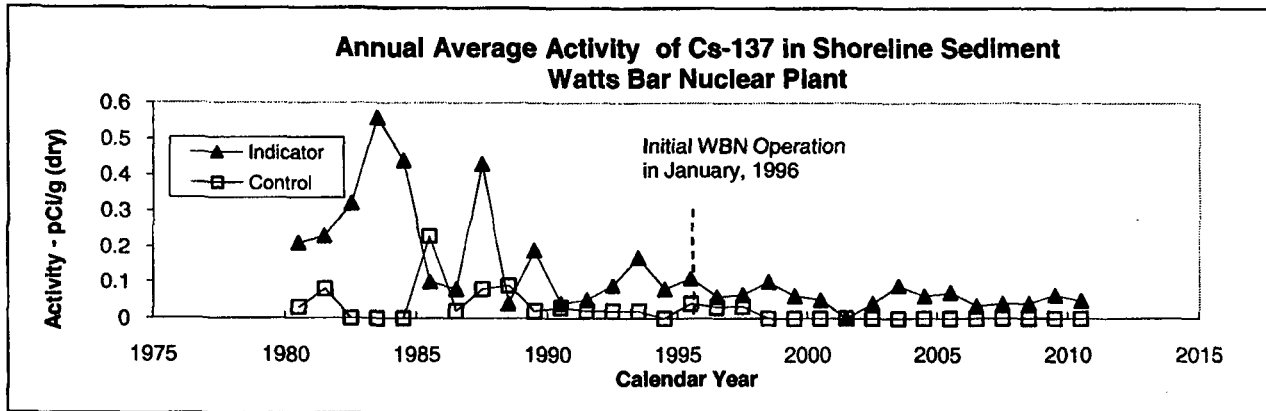
Radioactivity in Fish



The concentrations of Cs-137 found in fish are consistent with levels present in the Tennessee River due to past atmospheric nuclear weapons testing and operation of other nuclear facilities in the upper reaches of the Tennessee River Watershed.

Figure H-7

Radioactivity in Shoreline Sediment



The Cs-137 present in the shoreline sediments of the Tennessee River system was produced both by testing of nuclear weapons and operation of other nuclear facilities in the upper reaches of the Tennessee River Watershed. The amounts of Cs-137 have declined significantly during the course of monitoring for the Watts Bar site, so much so that not all samples contain detectable levels.

Enclosure 2

**Watts Bar Nuclear Plant
Unit 1**

**Annual Radiological Environmental Operating Report
Watts Bar Nuclear Plant Data Supplement
2010**

**Annual
Radiological
Environmental
Operating Report**

**Watts Bar
Nuclear Plant
Data Supplement
2010**

**ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT
WATTS BAR NUCLEAR PLANT
DATA SUPPLEMENT**

2010

TENNESSEE VALLEY AUTHORITY

April 2011

RADIOLOGICAL ENVIRONMENTAL MONITORING DATA
WATTS BAR NUCLEAR PLANT
2010

This supplement to the Watts Bar Nuclear Plant Annual Radiological Environmental Operating Report (AREOR) presents the results of individual sample analyses and radiation measurements. The results are ordered by sample type then by sample location and analysis type. If no gamma activity was detected in a sample, the notation 'NO ACTIVITY DETECTED' is entered. The sample locations are described in Appendix A to the AREOR.

These tables include all results, whether above or below the Lower Limit of Detection. Negative values are an artifact of counting statistics and do not imply a negative activity.

The uncertainty reported for specific analyses such as gross beta, Sr-89 and 90 and tritium is the one sigma counting error. For gamma analyses, the uncertainty reported is the one-sigma error calculated by the gamma spectral analysis software.

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW	GROSS BETA					
					.0324	.0034	12/28/09	020094
					.0203	.0022	01/04/10	020174
					.0268	.0029	01/11/10	020271
					.0311	.0033	01/18/10	020374
					.0126	.0015	01/25/10	020570
					.0210	.0023	02/01/10	020650
					.0234	.0025	02/08/10	020757
					.0211	.0023	02/16/10	020866
					.0176	.0020	02/22/10	021000
					.0169	.0019	03/01/10	021104
					.0143	.0016	03/08/10	021205
					.0123	.0015	03/15/10	021318
					.0126	.0015	03/22/10	021504
					.0124	.0015	03/29/10	021589
					.0198	.0022	04/05/10	021712
					.0190	.0021	04/12/10	021895
					.0250	.0027	04/19/10	022064
					.0241	.0026	04/26/10	022382
					.0172	.0019	05/03/10	022552
					.0193	.0022	05/10/10	022664
					.0160	.0018	05/17/10	022828
					.0171	.0019	05/24/10	022941
					.0153	.0018	05/31/10	023048
					.0149	.0017	06/07/10	023163
					.0183	.0021	06/14/10	023341
					.0160	.0018	06/21/10	023423

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW	GROSS BETA					
					.0192	.0021	06/28/10	023555
					.0231	.0025	07/06/10	023683
					.0234	.0026	07/12/10	023825
					.0164	.0019	07/19/10	023955
					.0235	.0026	07/26/10	024102
					.0182	.0021	08/02/10	024211
					.0323	.0034	08/09/10	024342
					.0315	.0034	08/16/10	024483
					.0181	.0020	08/23/10	024606
					.0265	.0029	08/30/10	024719
					.0285	.0031	09/06/10	024868
					.0279	.0030	09/13/10	024952
					.0340	.0036	09/20/10	025056
					.0383	.0040	09/27/10	025199
					.0225	.0025	10/04/10	025334
					.0322	.0034	10/12/10	025421
					.0319	.0034	10/18/10	025535
					.0371	.0039	10/25/10	025712
					.0195	.0022	11/01/10	025853
					.0224	.0025	11/08/10	025946
					.0328	.0035	11/15/10	026056
					.0358	.0038	11/22/10	026206
					.0261	.0028	11/29/10	026347
					.0243	.0027	12/06/10	026431
					.0295	.0032	12/13/10	026533
					.0217	.0024	12/20/10	026641

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
				AC-228				
					.0045	.0015	02/16/10	020900
					.0028	.0015	04/12/10	021929
				BE-7				
					.0973	.0100	01/18/10	020408
					.0895	.0079	02/16/10	020900
					.0899	.0096	03/15/10	021352
					.1441	.0113	04/12/10	021929
					.1550	.0119	05/10/10	022698
					.1085	.0098	06/07/10	023197
					.1265	.0113	07/06/10	023717
					.1347	.0091	08/02/10	024245
					.1132	.0112	08/30/10	024758
					.1451	.0108	09/27/10	025233
					.1531	.0112	10/25/10	025746
					.0995	.0112	11/22/10	026240
					.0963	.0077	12/20/10	026675
				BI-214				
					.0121	.0017	01/18/10	020408
					.0197	.0017	02/16/10	020900
					.0191	.0020	03/15/10	021352
					.0055	.0012	04/12/10	021929
					.0082	.0012	05/10/10	022698
					.0076	.0012	06/07/10	023197
					.0141	.0019	07/06/10	023717
					.0125	.0020	08/02/10	024245
					.0388	.0039	08/30/10	024758

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
				BI-214				
					.0203	.0020	09/27/10	025233
					.0239	.0028	10/25/10	025746
					.0699	.0053	11/22/10	026240
					.0530	.0044	12/20/10	026675
				K-40				
					.0057	.0063	01/18/10	020408
					.0313	.0079	02/16/10	020900
					.0035	.0060	06/07/10	023197
					.0036	.0054	07/06/10	023717
					.0098	.0098	09/27/10	025233
					.0061	.0047	12/20/10	026675
				PB-212				
					.0021	.0005	02/16/10	020900
					.0012	.0005	03/15/10	021352
					.0016	.0006	05/10/10	022698
					.0007	.0007	09/27/10	025233
				PB-214				
					.0154	.0016	01/18/10	020408
					.0200	.0019	02/16/10	020900
					.0194	.0020	03/15/10	021352
					.0053	.0012	04/12/10	021929
					.0102	.0015	05/10/10	022698
					.0088	.0011	06/07/10	023197
					.0124	.0016	07/06/10	023717
					.0132	.0014	08/02/10	024245
					.0348	.0028	08/30/10	024758

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)					
				PB-214	.0228	.0021	09/27/10	025233
					.0224	.0024	10/25/10	025746
					.0756	.0051	11/22/10	026240
					.0500	.0040	12/20/10	026675
				TL-208				
					.0007	.0003	02/16/10	020900
					.0002	.0003	05/10/10	022698
					.0001	.0003	09/27/10	025233
3101	LM1	0.5 MILES SSW	GROSS BETA					
					.0305	.0032	12/29/09	020060
					.0227	.0025	01/05/10	020155
					.0270	.0029	01/12/10	020243
					.0344	.0036	01/19/10	020348
					.0143	.0016	01/26/10	020535
					.0227	.0025	02/01/10	020631
					.0220	.0024	02/09/10	020729
					.0196	.0021	02/17/10	020840
					.0166	.0019	02/23/10	020966
					.0185	.0021	03/02/10	021085
					.0180	.0020	03/09/10	021176
					.0102	.0013	03/16/10	021292
					.0142	.0017	03/22/10	021470
					.0131	.0015	03/30/10	021570
					.0193	.0021	04/06/10	021683

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			GROSS BETA					
					.0174	.0020	04/13/10	021869
					.0246	.0027	04/20/10	022030
					.0208	.0023	04/27/10	022356
					.0167	.0019	05/04/10	022523
					.0194	.0022	05/11/10	022638
					.0131	.0016	05/18/10	022794
					.0157	.0018	05/25/10	022922
					.0133	.0016	06/01/10	023019
					.0154	.0018	06/08/10	023137
					.0164	.0018	06/15/10	023307
					.0172	.0019	06/22/10	023404
					.0158	.0018	06/29/10	023516
					.0229	.0025	07/06/10	023656
					.0229	.0025	07/13/10	023790
					.0178	.0020	07/19/10	023936
					.0202	.0022	07/26/10	024073
					.0171	.0019	08/02/10	024184
					.0298	.0031	08/10/10	024308
					.0245	.0027	08/17/10	024464
					.0157	.0018	08/23/10	024577
					.0245	.0026	08/31/10	024692
					.0295	.0031	09/07/10	024834
					.0286	.0031	09/14/10	024933
					.0389	.0041	09/21/10	025028
					.0311	.0033	09/28/10	025173
					.0205	.0023	10/05/10	025300

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			GROSS BETA					
					.0328	.0035	10/11/10	025402
					.0386	.0040	10/19/10	025507
					.0327	.0035	10/26/10	025679
					.0228	.0025	11/02/10	025819
					.0198	.0022	11/08/10	025927
					.0303	.0032	11/16/10	026027
					.0317	.0034	11/22/10	026180
					.0227	.0025	11/30/10	026313
					.0238	.0026	12/07/10	026412
					.0245	.0026	12/14/10	026505
					.0210	.0023	12/20/10	026615
			GAMMA SCAN (GELI)					
			AC-228					
					.0003	.0010	01/19/10	020399
			BE-7					
					.0926	.0085	01/19/10	020399
					.0759	.0070	02/17/10	020891
					.1090	.0106	03/16/10	021343
					.1478	.0100	04/13/10	021920
					.1460	.0108	05/11/10	022689
					.0919	.0090	06/08/10	023188
					.1175	.0091	07/06/10	023708
					.1131	.0085	08/02/10	024236
					.1051	.0083	08/31/10	024749
					.1156	.0105	09/28/10	025224
					.1357	.0110	10/26/10	025737

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			GAMMA SCAN (GELI)					
				BE-7	.0994	.0079	11/22/10	026231
					.0866	.0075	12/20/10	026666
				BI-214				
					.0091	.0017	01/19/10	020399
					.0078	.0012	02/17/10	020891
					.0055	.0015	03/16/10	021343
					.0067	.0011	04/13/10	021920
					.0052	.0011	05/11/10	022689
					.0067	.0013	06/08/10	023188
					.0095	.0014	07/06/10	023708
					.0156	.0020	08/02/10	024236
					.0081	.0015	08/31/10	024749
					.0209	.0020	09/28/10	025224
					.0206	.0023	10/26/10	025737
					.0231	.0030	11/22/10	026231
					.0221	.0021	12/20/10	026666
				K-40				
					.0089	.0087	01/19/10	020399
					.0086	.0069	02/17/10	020891
					.0281	.0095	04/13/10	021920
					.0085	.0089	05/11/10	022689
					.0204	.0077	08/31/10	024749
					.0263	.0071	09/28/10	025224
					.0091	.0056	11/22/10	026231
					.0033	.0052	12/20/10	026666

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			GAMMA SCAN (GELI)					
				PB-212	.0009	.0005	01/19/10	020399
					.0000	.0007	02/17/10	020891
					.0014	.0005	04/13/10	021920
					.0002	.0006	05/11/10	022689
					.0018	.0006	08/31/10	024749
					.0015	.0006	09/28/10	025224
					.0012	.0005	11/22/10	026231
				PB-214				
					.0106	.0020	01/19/10	020399
					.0071	.0011	02/17/10	020891
					.0054	.0017	03/16/10	021343
					.0046	.0011	04/13/10	021920
					.0062	.0012	05/11/10	022689
					.0047	.0015	06/08/10	023188
					.0079	.0016	07/06/10	023708
					.0109	.0012	08/02/10	024236
					.0055	.0013	08/31/10	024749
					.0206	.0019	09/28/10	025224
					.0166	.0021	10/26/10	025737
					.0164	.0026	11/22/10	026231
					.0226	.0015	12/20/10	026666
				TL-208				
					.0007	.0005	01/19/10	020399
					.0004	.0005	02/17/10	020891
					.0008	.0003	04/13/10	021920
					.0007	.0004	08/31/10	024749

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			GROSS BETA					
					.0291	.0031	12/29/09	020063
					.0214	.0024	01/05/10	020157
					.0263	.0028	01/12/10	020246
					.0362	.0038	01/19/10	020350
					.0134	.0016	01/26/10	020538
					.0191	.0022	02/01/10	020633
					.0225	.0024	02/08/10	020732
					.0200	.0022	02/16/10	020842
					.0148	.0017	02/23/10	020969
					.0188	.0021	03/01/10	021087
					.0154	.0018	03/08/10	021179
					.0125	.0015	03/16/10	021294
					.0152	.0018	03/22/10	021473
					.0122	.0015	03/29/10	021572
					.0188	.0021	04/06/10	021686
					.0181	.0021	04/13/10	021871
					.0245	.0027	04/20/10	022033
					.0193	.0022	04/27/10	022358
					.0181	.0021	05/04/10	022526
					.0199	.0022	05/11/10	022640
					.0161	.0019	05/18/10	022797
					.0156	.0018	05/25/10	022924
					.0152	.0018	06/01/10	023022
					.0153	.0018	06/08/10	023139
					.0156	.0018	06/15/10	023310
					.0189	.0021	06/22/10	023406

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			GROSS BETA					
					.0167	.0019	06/29/10	023520
					.0209	.0023	07/06/10	023658
					.0211	.0023	07/13/10	023793
					.0186	.0021	07/19/10	023938
					.0217	.0024	07/26/10	024076
					.0188	.0021	08/02/10	024186
					.0311	.0033	08/10/10	024311
					.0266	.0029	08/17/10	024466
					.0202	.0023	08/23/10	024580
					.0245	.0026	08/31/10	024694
					.0276	.0030	09/07/10	024837
					.0287	.0031	09/14/10	024935
					.0369	.0039	09/21/10	025031
					.0324	.0034	09/28/10	025175
					.0208	.0023	10/05/10	025303
					.0316	.0034	10/11/10	025404
					.0346	.0036	10/19/10	025510
					.0335	.0036	10/26/10	025681
					.0197	.0022	11/02/10	025822
					.0193	.0022	11/08/10	025929
					.0306	.0033	11/16/10	026030
					.0329	.0035	11/22/10	026182
					.0203	.0023	11/29/10	026316
					.0232	.0025	12/07/10	026414
					.0241	.0026	12/14/10	026508
					.0217	.0024	12/21/10	026617

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			GAMMA SCAN (GELI)					
				AC-228	.0075	.0019	02/16/10	020892
					.0027	.0014	04/13/10	021921
					.0036	.0017	06/08/10	023189
					.0026	.0018	10/26/10	025738
				BE-7	.0849	.0078	01/19/10	020400
					.0983	.0088	02/16/10	020892
					.1020	.0082	03/16/10	021344
					.1420	.0110	04/13/10	021921
					.1780	.0132	05/11/10	022690
					.1002	.0085	06/08/10	023189
					.1359	.0114	07/06/10	023709
					.1216	.0097	08/02/10	024237
					.1150	.0091	08/31/10	024750
					.1295	.0109	09/28/10	025225
					.1423	.0116	10/26/10	025738
					.1123	.0109	11/22/10	026232
					.0818	.0072	12/21/10	026667
				BI-214	.0145	.0014	01/19/10	020400
					.0268	.0024	02/16/10	020892
					.0136	.0020	03/16/10	021344
					.0098	.0015	04/13/10	021921
					.0045	.0012	05/11/10	022690
					.0198	.0022	06/08/10	023189
					.0130	.0017	07/06/10	023709

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			GAMMA SCAN (GELI)					
				BI-214				
					.0066	.0021	08/02/10	024237
					.0093	.0013	08/31/10	024750
					.0166	.0020	09/28/10	025225
					.0186	.0023	10/26/10	025738
					.0248	.0026	11/22/10	026232
					.0456	.0034	12/21/10	026667
				K-40				
					.0328	.0084	02/16/10	020892
					.0098	.0078	03/16/10	021344
					.0055	.0060	04/13/10	021921
					.0214	.0083	05/11/10	022690
					.0308	.0097	06/08/10	023189
					.0109	.0056	07/06/10	023709
					.0038	.0048	08/02/10	024237
					.0125	.0062	08/31/10	024750
					.0092	.0055	09/28/10	025225
					.0085	.0126	11/22/10	026232
					.0040	.0049	12/21/10	026667
				PB-212				
					.0003	.0005	01/19/10	020400
					.0021	.0005	02/16/10	020892
					.0020	.0006	05/11/10	022690
					.0021	.0006	06/08/10	023189
					.0003	.0004	08/02/10	024237
					.0015	.0006	10/26/10	025738
					.0010	.0008	11/22/10	026232

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE	GAMMA SCAN (GELI)	PB-214				
					.0151	.0014	01/19/10	020400
					.0303	.0024	02/16/10	020892
					.0105	.0018	03/16/10	021344
					.0082	.0015	04/13/10	021921
					.0039	.0010	05/11/10	022690
					.0163	.0016	06/08/10	023189
					.0128	.0016	07/06/10	023709
					.0025	.0022	08/02/10	024237
					.0075	.0013	08/31/10	024750
					.0155	.0020	09/28/10	025225
					.0192	.0022	10/26/10	025738
					.0226	.0020	11/22/10	026232
					.0493	.0044	12/21/10	026667
				TL-208				
					.0005	.0004	01/19/10	020400
					.0005	.0005	11/22/10	026232
3106	PM2 SPRING CITY	7.0 MILES NW	GROSS BETA					
					.0312	.0033	12/28/09	020067
					.0219	.0024	01/04/10	020160
					.0278	.0030	01/11/10	020250
					.0323	.0034	01/18/10	020353
					.0139	.0016	01/25/10	020542
					.0236	.0026	02/01/10	020636
					.0255	.0027	02/08/10	020736

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			GROSS BETA					
					.0204	.0022	02/16/10	020845
					.0185	.0021	02/22/10	020973
					.0163	.0019	03/01/10	021090
					.0179	.0020	03/08/10	021183
					.0143	.0017	03/15/10	021297
					.0137	.0016	03/22/10	021477
					.0135	.0016	03/29/10	021575
					.0197	.0022	04/05/10	021690
					.0184	.0021	04/12/10	021874
					.0244	.0027	04/19/10	022037
					.0219	.0024	04/26/10	022361
					.0149	.0017	05/03/10	022530
					.0199	.0022	05/10/10	022643
					.0170	.0019	05/17/10	022801
					.0151	.0017	05/24/10	022927
					.0128	.0015	05/31/10	023026
					.0163	.0018	06/07/10	023142
					.0159	.0018	06/14/10	023314
					.0164	.0019	06/21/10	023409
					.0176	.0020	06/28/10	023526
					.0180	.0020	07/06/10	023661
					.0230	.0025	07/13/10	023797
					.0201	.0023	07/19/10	023941
					.0211	.0023	07/26/10	024080
					.0161	.0018	08/02/10	024189
					.0288	.0031	08/09/10	024315

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			GROSS BETA					
					.0246	.0027	08/16/10	024469
					.0167	.0019	08/23/10	024584
					.0236	.0026	08/30/10	024697
					.0263	.0028	09/06/10	024841
					.0254	.0027	09/13/10	024938
					.0352	.0037	09/20/10	025035
					.0333	.0035	09/27/10	025178
					.0197	.0022	10/04/10	025307
					.0280	.0030	10/11/10	025407
					.0319	.0034	10/18/10	025514
					.0352	.0037	10/25/10	025684
					.0176	.0020	11/01/10	025826
					.0266	.0029	11/08/10	025932
					.0297	.0032	11/15/10	026034
					.0334	.0035	11/22/10	026185
					.0227	.0025	11/29/10	026320
					.0239	.0026	12/06/10	026417
					.0274	.0029	12/13/10	026512
					.0222	.0024	12/20/10	026620
			GAMMA SCAN (GELI)					
				AC-228				
					.0030	.0019	03/15/10	021345
					.0105	.0026	10/25/10	025739
				BE-7				
					.1029	.0089	01/18/10	020401
					.0873	.0081	02/16/10	020893

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			GAMMA SCAN (GELI)					
				BE-7				
					.1063	.0095	03/15/10	021345
					.1425	.0107	04/12/10	021922
					.1476	.0115	05/10/10	022691
					.0901	.0088	06/07/10	023190
					.1159	.0131	07/06/10	023710
					.1140	.0080	08/02/10	024238
					.1109	.0088	08/30/10	024751
					.1355	.0105	09/27/10	025226
					.1406	.0104	10/25/10	025739
					.0969	.0080	11/22/10	026233
					.0873	.0093	12/20/10	026668
				BI-214				
					.0128	.0012	01/18/10	020401
					.0219	.0024	02/16/10	020893
					.0090	.0016	03/15/10	021345
					.0059	.0014	04/12/10	021922
					.0078	.0012	05/10/10	022691
					.0056	.0011	06/07/10	023190
					.0222	.0025	07/06/10	023710
					.0102	.0017	08/02/10	024238
					.0122	.0022	08/30/10	024751
					.0715	.0056	09/27/10	025226
					.0228	.0031	10/25/10	025739
					.0184	.0019	11/22/10	026233
					.0518	.0042	12/20/10	026668

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			GAMMA SCAN (GELI)					
				K-40				
					.0214	.0077	01/18/10	020401
					.0018	.0089	03/15/10	021345
					.0336	.0098	04/12/10	021922
					.0092	.0070	05/10/10	022691
					.0070	.0053	06/07/10	023190
					.0219	.0088	10/25/10	025739
					.0383	.0088	11/22/10	026233
					.0076	.0053	12/20/10	026668
				PB-212				
					.0013	.0006	01/18/10	020401
					.0007	.0006	03/15/10	021345
					.0006	.0006	04/12/10	021922
					.0023	.0008	10/25/10	025739
					.0013	.0005	11/22/10	026233
				PB-214				
					.0123	.0014	01/18/10	020401
					.0220	.0019	02/16/10	020893
					.0108	.0016	03/15/10	021345
					.0040	.0010	04/12/10	021922
					.0079	.0012	05/10/10	022691
					.0068	.0012	06/07/10	023190
					.0203	.0020	07/06/10	023710
					.0102	.0014	08/02/10	024238
					.0068	.0019	08/30/10	024751
					.0711	.0047	09/27/10	025226
					.0203	.0019	10/25/10	025739

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI)					
				PB-214	.0151	.0017	11/22/10	026233
					.0554	.0044	12/20/10	026668
				TL-208				
					.0007	.0005	03/15/10	021345
					.0015	.0006	04/12/10	021922
					.0001	.0004	05/10/10	022691
					.0008	.0005	11/22/10	026233
					.0005	.0003	12/20/10	026668
3107	PM3	10.4 MILES NNE	GROSS BETA					
					.0345	.0037	12/28/09	020070
					.0256	.0028	01/04/10	020162
					.0256	.0028	01/11/10	020253
					.0376	.0040	01/18/10	020355
					.0114	.0014	01/25/10	020545
					.0255	.0028	02/01/10	020638
					.0249	.0027	02/08/10	020739
					.0202	.0022	02/16/10	020847
					.0189	.0022	02/22/10	020976
					.0199	.0022	03/01/10	021092
					.0152	.0018	03/08/10	021186
					.0155	.0018	03/15/10	021299
					.0142	.0017	03/22/10	021480
					.0138	.0016	03/29/10	021577
					.0200	.0022	04/05/10	021693

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE	GROSS BETA					
					.0195	.0022	04/12/10	021876
					.0232	.0025	04/19/10	022040
					.0204	.0023	04/26/10	022363
					.0158	.0018	05/03/10	022533
					.0178	.0020	05/10/10	022645
					.0185	.0021	05/17/10	022804
					.0135	.0016	05/24/10	022929
					.0138	.0016	05/31/10	023029
					.0147	.0017	06/07/10	023144
					.0178	.0020	06/14/10	023317
					.0156	.0018	06/21/10	023411
					.0173	.0020	06/28/10	023530
					.0191	.0021	07/06/10	023663
					.0224	.0025	07/12/10	023800
					.0167	.0019	07/19/10	023943
					.0227	.0025	07/26/10	024083
					.0165	.0019	08/02/10	024191
					.0273	.0029	08/09/10	024318
					.0272	.0029	08/16/10	024471
					.0176	.0020	08/23/10	024587
					.0214	.0024	08/30/10	024699
					.0264	.0028	09/06/10	024844
					.0230	.0025	09/13/10	024940
					.0315	.0033	09/20/10	025038
					.0310	.0033	09/27/10	025180
					.0198	.0022	10/04/10	025310

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GROSS BETA					
					.0269	.0029	10/11/10	025409
					.0300	.0032	10/18/10	025517
					.0343	.0036	10/25/10	025686
					.0174	.0020	11/01/10	025829
					.0250	.0027	11/08/10	025934
					.0320	.0034	11/15/10	026037
					.0328	.0035	11/22/10	026187
					.0214	.0024	11/29/10	026323
					.0252	.0027	12/06/10	026419
					.0244	.0026	12/13/10	026515
					.0198	.0022	12/20/10	026622
			GAMMA SCAN (GELI)					
			AC-228					
					.0037	.0016	01/18/10	020402
					.0036	.0019	02/16/10	020894
					.0016	.0012	05/10/10	022692
			BE-7					
					.0961	.0087	01/18/10	020402
					.0872	.0083	02/16/10	020894
					.1222	.0096	03/15/10	021346
					.1404	.0131	04/12/10	021923
					.1500	.0106	05/10/10	022692
					.0949	.0080	06/07/10	023191
					.1248	.0108	07/06/10	023711
					.1126	.0096	08/02/10	024239
					.1107	.0090	08/30/10	024752

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GAMMA SCAN (GELI)					
				BE-7				
					.1370	.0104	09/27/10	025227
					.1472	.0098	10/25/10	025740
					.1137	.0098	11/22/10	026234
					.0970	.0107	12/20/10	026669
				BI-214				
					.0138	.0015	01/18/10	020402
					.0238	.0024	02/16/10	020894
					.0120	.0018	03/15/10	021346
					.0084	.0014	04/12/10	021923
					.0077	.0017	05/10/10	022692
					.0126	.0016	06/07/10	023191
					.0074	.0012	07/06/10	023711
					.0266	.0031	08/02/10	024239
					.0032	.0015	08/30/10	024752
					.0428	.0038	09/27/10	025227
					.0173	.0023	10/25/10	025740
					.0222	.0025	11/22/10	026234
					.0242	.0023	12/20/10	026669
				K-40				
					.0115	.0060	01/18/10	020402
					.0157	.0065	02/16/10	020894
					.0230	.0085	03/15/10	021346
					.0083	.0145	04/12/10	021923
					.0036	.0058	05/10/10	022692
					.0035	.0066	07/06/10	023711
					.0060	.0053	08/30/10	024752

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GAMMA SCAN (GELI)					
				K-40				
					.0090	.0043	10/25/10	025740
					.0047	.0059	11/22/10	026234
					.0093	.0067	12/20/10	026669
				PB-212				
					.0015	.0005	03/15/10	021346
					.0010	.0006	06/07/10	023191
				PB-214				
					.0113	.0015	01/18/10	020402
					.0220	.0019	02/16/10	020894
					.0118	.0016	03/15/10	021346
					.0082	.0014	04/12/10	021923
					.0088	.0011	05/10/10	022692
					.0130	.0017	06/07/10	023191
					.0109	.0015	07/06/10	023711
					.0234	.0027	08/02/10	024239
					.0018	.0018	08/30/10	024752
					.0447	.0033	09/27/10	025227
					.0169	.0016	10/25/10	025740
					.0201	.0020	11/22/10	026234
					.0260	.0022	12/20/10	026669
				TL-208				
					.0003	.0005	04/12/10	021923
					.0006	.0002	08/30/10	024752
3108	PM4	7.6 MILES NE/ENE						
			GROSS BETA					
					.0318	.0034	12/28/09	020072

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE	GROSS BETA					
					.0226	.0025	01/04/10	020164
					.0269	.0029	01/11/10	020255
					.0331	.0035	01/18/10	020357
					.0123	.0015	01/25/10	020547
					.0237	.0026	02/01/10	020640
					.0244	.0027	02/08/10	020741
					.0199	.0022	02/16/10	020849
					.0154	.0018	02/22/10	020978
					.0172	.0020	03/01/10	021094
					.0149	.0017	03/08/10	021188
					.0141	.0017	03/15/10	021301
					.0130	.0015	03/22/10	021482
					.0134	.0016	03/29/10	021579
					.0234	.0026	04/05/10	021695
					.0189	.0021	04/12/10	021878
					.0256	.0028	04/19/10	022042
					.0214	.0024	04/26/10	022365
					.0156	.0018	05/03/10	022535
					.0209	.0023	05/10/10	022647
					.0172	.0020	05/17/10	022806
					.0164	.0019	05/24/10	022931
					.0128	.0015	05/31/10	023031
					.0155	.0018	06/07/10	023146
					.0183	.0021	06/14/10	023319
					.0168	.0019	06/21/10	023413
					.0195	.0022	06/28/10	023533

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE	GROSS BETA					
					.0226	.0024	07/06/10	023665
					.0269	.0029	07/12/10	023802
					.0186	.0021	07/19/10	023945
					.0222	.0024	07/26/10	024085
					.0195	.0022	08/02/10	024193
					.0322	.0034	08/09/10	024320
					.0294	.0031	08/16/10	024473
					.0171	.0019	08/23/10	024589
					.0236	.0026	08/30/10	024701
					.0269	.0029	09/06/10	024846
					.0278	.0030	09/13/10	024942
					.0356	.0038	09/20/10	025040
					.0369	.0039	09/27/10	025182
					.0214	.0024	10/04/10	025312
					.0376	.0039	10/12/10	025411
					.0334	.0036	10/18/10	025519
					.0343	.0036	10/25/10	025688
					.0161	.0018	11/01/10	025831
					.0232	.0025	11/08/10	025936
					.0361	.0038	11/15/10	026039
					.0325	.0034	11/22/10	026189
					.0242	.0026	11/29/10	026325
					.0234	.0025	12/06/10	026421
					.0252	.0027	12/14/10	026517
					.0224	.0025	12/20/10	026624

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE						
			GAMMA SCAN (GELI)					
				BE-7				
					.0896	.0077	01/18/10	020403
					.0769	.0072	02/16/10	020895
					.0912	.0117	03/15/10	021347
					.1322	.0102	04/12/10	021924
					.1715	.0128	05/10/10	022693
					.0973	.0108	06/07/10	023192
					.1323	.0117	07/06/10	023712
					.1185	.0104	08/02/10	024240
					.1241	.0108	08/30/10	024753
					.1423	.0116	09/27/10	025228
					.1341	.0105	10/25/10	025741
					.1073	.0082	11/22/10	026235
					.0860	.0093	12/20/10	026670
				BI-214				
					.0164	.0022	01/18/10	020403
					.0463	.0033	02/16/10	020895
					.0087	.0014	03/15/10	021347
					.0091	.0015	04/12/10	021924
					.0074	.0015	05/10/10	022693
					.0113	.0014	06/07/10	023192
					.0124	.0017	07/06/10	023712
					.0148	.0017	08/02/10	024240
					.0156	.0017	08/30/10	024753
					.0272	.0029	09/27/10	025228
					.0187	.0023	10/25/10	025741
					.0471	.0045	11/22/10	026235

Tennessee Valley Authority

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RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE						
			GAMMA SCAN (GELI)					
				BI-214				
					.0679	.0044	12/20/10	026670
				K-40				
					.0106	.0082	01/18/10	020403
					.0062	.0053	03/15/10	021347
					.0122	.0065	04/12/10	021924
					.0233	.0092	05/10/10	022693
					.0005	.0051	06/07/10	023192
					.0180	.0069	07/06/10	023712
					.0226	.0110	08/02/10	024240
					.0126	.0061	11/22/10	026235
				PB-212				
					.0018	.0006	05/10/10	022693
					.0015	.0008	07/06/10	023712
				PB-214				
					.0152	.0018	01/18/10	020403
					.0458	.0033	02/16/10	020895
					.0105	.0016	03/15/10	021347
					.0078	.0012	04/12/10	021924
					.0047	.0013	05/10/10	022693
					.0105	.0012	06/07/10	023192
					.0102	.0014	07/06/10	023712
					.0152	.0017	08/02/10	024240
					.0131	.0013	08/30/10	024753
					.0270	.0024	09/27/10	025228
					.0233	.0026	10/25/10	025741
					.0393	.0033	11/22/10	026235

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE	GAMMA SCAN (GELI)	PB-214	.0709	.0040	12/20/10	026670
				TL-208	.0011	.0006	07/06/10	023712
					.0002	.0003	08/02/10	024240
3109	PM5 DECATUR	8.0 MILES S	GROSS BETA		.0293	.0031	12/28/09	020074
					.0222	.0024	01/04/10	020166
					.0264	.0028	01/11/10	020257
					.0322	.0034	01/18/10	020359
					.0153	.0018	01/25/10	020549
					.0210	.0023	02/01/10	020642
					.0234	.0025	02/08/10	020743
					.0189	.0021	02/16/10	020851
					.0182	.0021	02/22/10	020980
					.0178	.0020	03/01/10	021096
					.0153	.0018	03/08/10	021190
					.0125	.0015	03/15/10	021303
					.0119	.0014	03/22/10	021484
					.0125	.0015	03/29/10	021581
					.0198	.0022	04/05/10	021697
					.0185	.0021	04/12/10	021880
					.0262	.0028	04/19/10	022044
					.0218	.0024	04/26/10	022367
					.0169	.0019	05/03/10	022537

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			GROSS BETA					
					.0230	.0025	05/10/10	022649
					.0177	.0020	05/17/10	022808
					.0169	.0020	05/24/10	022933
					.0151	.0018	05/31/10	023033
					.0172	.0020	06/07/10	023148
					.0166	.0023	06/14/10	023321
					.0175	.0022	06/21/10	023415
					.0187	.0021	06/28/10	023536
					.0216	.0024	07/06/10	023667
					.0295	.0032	07/12/10	023804
					.0148	.0018	07/19/10	023947
					.0175	.0020	07/26/10	024087
					.0174	.0020	08/02/10	024195
					.0351	.0037	08/09/10	024322
					.0301	.0032	08/16/10	024475
					.0186	.0021	08/23/10	024591
					.0273	.0029	08/30/10	024703
					.0296	.0032	09/06/10	024848
					.0294	.0032	09/13/10	024944
					.0372	.0039	09/20/10	025042
					.0381	.0040	09/27/10	025184
					.0207	.0023	10/04/10	025314
					.0402	.0042	10/12/10	025413
					.0386	.0041	10/18/10	025521
					.0410	.0043	10/25/10	025690
					.0193	.0022	11/01/10	025833

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			GROSS BETA					
					.0279	.0030	11/08/10	025938
					.0384	.0040	11/15/10	026041
					.0366	.0039	11/22/10	026191
					.0240	.0026	11/29/10	026327
					.0268	.0029	12/06/10	026423
					.0290	.0031	12/14/10	026519
					.0254	.0028	12/20/10	026626
			GAMMA SCAN (GELI)					
			AC-228					
					.0030	.0013	05/10/10	022694
			BE-7					
					.0818	.0115	01/18/10	020404
					.0846	.0076	02/16/10	020896
					.0855	.0101	03/15/10	021348
					.1230	.0101	04/12/10	021925
					.1739	.0123	05/10/10	022694
					.0906	.0089	06/07/10	023193
					.1451	.0113	07/06/10	023713
					.1187	.0114	08/02/10	024241
					.1246	.0118	08/30/10	024754
					.1354	.0104	09/27/10	025229
					.1494	.0126	10/25/10	025742
					.1150	.0092	11/22/10	026236
					.0907	.0113	12/20/10	026671
			BI-214					
					.0360	.0043	01/18/10	020404

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			GAMMA SCAN (GELI)					
				BI-214				
					.0165	.0020	02/16/10	020896
					.0199	.0020	03/15/10	021348
					.0074	.0011	04/12/10	021925
					.0093	.0017	05/10/10	022694
					.0147	.0018	06/07/10	023193
					.0110	.0018	07/06/10	023713
					.0108	.0015	08/02/10	024241
					.0175	.0032	08/30/10	024754
					.0369	.0033	09/27/10	025229
					.0142	.0020	10/25/10	025742
					.0457	.0041	11/22/10	026236
					.0412	.0033	12/20/10	026671
				K-40				
					.0111	.0061	02/16/10	020896
					.0066	.0065	05/10/10	022694
					.0246	.0074	07/06/10	023713
					.0287	.0094	08/02/10	024241
					.0061	.0051	10/25/10	025742
				PB-212				
					.0013	.0009	06/07/10	023193
					.0007	.0007	08/02/10	024241
					.0007	.0007	08/30/10	024754
					.0004	.0004	10/25/10	025742
					.0006	.0003	11/22/10	026236
					.0010	.0006	12/20/10	026671

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			GAMMA SCAN (GELI)					
				PB-214				
					.0416	.0032	01/18/10	020404
					.0199	.0016	02/16/10	020896
					.0187	.0019	03/15/10	021348
					.0061	.0009	04/12/10	021925
					.0071	.0010	05/10/10	022694
					.0171	.0015	06/07/10	023193
					.0136	.0016	07/06/10	023713
					.0113	.0015	08/02/10	024241
					.0109	.0017	08/30/10	024754
					.0358	.0032	09/27/10	025229
					.0147	.0026	10/25/10	025742
					.0405	.0036	11/22/10	026236
					.0440	.0030	12/20/10	026671
				TL-208				
					.0003	.0004	04/12/10	021925
					.0004	.0005	06/07/10	023193
					.0000	.0004	12/20/10	026671
3203	LM3	1.9 MILES NNE						
			GROSS BETA					
					.0308	.0033	12/28/09	020085
					.0210	.0023	01/04/10	020168
					.0261	.0028	01/12/10	020262
					.0359	.0038	01/19/10	020364
					.0139	.0016	01/26/10	020561
					.0232	.0026	02/01/10	020644

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GROSS BETA					
					.0221	.0024	02/08/10	020748
					.0206	.0022	02/16/10	020856
					.0178	.0020	02/22/10	020991
					.0166	.0019	03/01/10	021098
					.0161	.0018	03/09/10	021196
					.0094	.0012	03/16/10	021308
					.0156	.0018	03/22/10	021495
					.0136	.0016	03/29/10	021583
					.0200	.0022	04/05/10	021703
					.0201	.0022	04/12/10	021885
					.0247	.0027	04/19/10	022055
					.0227	.0025	04/26/10	022373
					.0180	.0020	05/03/10	022543
					.0201	.0022	05/10/10	022654
					.0208	.0024	05/18/10	022819
					.0168	.0020	05/24/10	022935
					.0149	.0017	05/31/10	023039
					.0144	.0017	06/07/10	023153
					.0176	.0020	06/14/10	023332
					.0168	.0019	06/21/10	023417
					.0167	.0019	06/29/10	023543
					.0223	.0024	07/06/10	023673
					.0260	.0028	07/12/10	023816
					.0171	.0019	07/19/10	023949
					.0191	.0021	07/27/10	024093
					.0166	.0019	08/02/10	024201

Tennessee Valley Authority

Table 1
 RADIOACTIVITY IN AIR FILTER
 WATTS BAR NUCLEAR PLANT
 PCI/M3 - 0.037 BQ/M3
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GROSS BETA					
					.0299	.0032	08/09/10	024333
					.0289	.0031	08/16/10	024477
					.0189	.0021	08/23/10	024597
					.0248	.0027	08/30/10	024709
					.0249	.0027	09/06/10	024859
					.0244	.0026	09/14/10	024946
					.0343	.0036	09/20/10	025047
					.0370	.0039	09/27/10	025189
					.0196	.0022	10/04/10	025325
					.0331	.0035	10/12/10	025415
					.0322	.0035	10/18/10	025526
					.0322	.0034	10/25/10	025698
					.0168	.0019	11/01/10	025844
					.0223	.0025	11/08/10	025940
					.0350	.0037	11/15/10	026047
					.0317	.0034	11/22/10	026196
					.0248	.0027	11/29/10	026338
					.0249	.0027	12/06/10	026425
					.0260	.0028	12/13/10	026524
					.0209	.0023	12/20/10	026631
			GAMMA SCAN (GELI)					
				AC-228				
					.0015	.0015	04/12/10	021926
					.0020	.0016	06/07/10	023194
				BE-7				
					.0895	.0096	01/19/10	020405

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GAMMA SCAN (GELI)					
				BE-7				
					.0825	.0094	02/16/10	020897
					.1025	.0065	03/16/10	021349
					.1299	.0089	04/12/10	021926
					.1615	.0115	05/10/10	022695
					.0903	.0076	06/07/10	023194
					.1258	.0117	07/06/10	023714
					.1160	.0094	08/02/10	024242
					.1120	.0099	08/30/10	024755
					.1418	.0137	09/27/10	025230
					.1497	.0114	10/25/10	025743
					.1170	.0097	11/22/10	026237
					.0951	.0085	12/20/10	026672
				BI-214				
					.0147	.0016	01/19/10	020405
					.0175	.0020	02/16/10	020897
					.0106	.0015	03/16/10	021349
					.0031	.0010	04/12/10	021926
					.0096	.0016	05/10/10	022695
					.0092	.0014	06/07/10	023194
					.0107	.0014	07/06/10	023714
					.0098	.0016	08/02/10	024242
					.0118	.0016	08/30/10	024755
					.0358	.0026	09/27/10	025230
					.0180	.0021	10/25/10	025743
					.0395	.0027	11/22/10	026237
					.0395	.0030	12/20/10	026672

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GAMMA SCAN (GELI)					
				K-40	.0040	.0082	01/19/10	020405
					.0165	.0085	02/16/10	020897
					.0056	.0085	06/07/10	023194
					.0005	.0057	07/06/10	023714
					.0099	.0063	08/02/10	024242
					.0121	.0069	09/27/10	025230
					.0089	.0074	11/22/10	026237
					.0372	.0086	12/20/10	026672
				PB-212				
					.0015	.0006	01/19/10	020405
					.0006	.0007	02/16/10	020897
					.0005	.0005	04/12/10	021926
					.0004	.0008	06/07/10	023194
					.0008	.0007	08/30/10	024755
					.0018	.0005	12/20/10	026672
				PB-214				
					.0160	.0018	01/19/10	020405
					.0208	.0018	02/16/10	020897
					.0133	.0014	03/16/10	021349
					.0031	.0008	04/12/10	021926
					.0086	.0014	05/10/10	022695
					.0087	.0015	06/07/10	023194
					.0107	.0016	07/06/10	023714
					.0094	.0012	08/02/10	024242
					.0120	.0013	08/30/10	024755
					.0358	.0026	09/27/10	025230

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GAMMA SCAN (GELI)					
				PB-214	.0152	.0018	10/25/10	025743
					.0363	.0028	11/22/10	026237
					.0423	.0032	12/20/10	026672
				TL-208	.0009	.0005	06/07/10	023194
					.0002	.0004	08/30/10	024755
3204	LM-4 WB	0.9 MILES SE						
			GROSS BETA					
					.0299	.0032	12/28/09	020088
					.0210	.0023	01/04/10	020170
					.0260	.0028	01/11/10	020265
					.0345	.0037	01/18/10	020366
					.0132	.0016	01/25/10	020564
					.0256	.0028	02/01/10	020646
					.0241	.0026	02/08/10	020751
					.0209	.0023	02/16/10	020858
					.0152	.0018	02/22/10	020994
					.0174	.0020	03/01/10	021100
					.0145	.0017	03/08/10	021199
					.0143	.0017	03/15/10	021310
					.0132	.0016	03/22/10	021498
					.0121	.0014	03/29/10	021585
					.0200	.0022	04/05/10	021706
					.0191	.0021	04/12/10	021887
					.0278	.0030	04/19/10	022058

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GROSS BETA					
					.0226	.0025	04/26/10	022375
					.0159	.0018	05/03/10	022546
					.0215	.0024	05/10/10	022656
					.0158	.0018	05/17/10	022822
					.0152	.0018	05/24/10	022937
					.0132	.0016	05/31/10	023042
					.0175	.0020	06/07/10	023155
					.0178	.0020	06/14/10	023335
					.0161	.0018	06/21/10	023419
					.0174	.0020	06/28/10	023547
					.0218	.0024	07/06/10	023675
					.0251	.0028	07/12/10	023819
					.0166	.0019	07/19/10	023951
					.0207	.0023	07/27/10	024096
					.0167	.0019	08/02/10	024203
					.0276	.0030	08/09/10	024336
					.0270	.0029	08/16/10	024479
					.0189	.0021	08/23/10	024600
					.0250	.0027	08/30/10	024711
					.0270	.0029	09/06/10	024862
					.0296	.0031	09/14/10	024948
					.0356	.0038	09/20/10	025050
					.0371	.0039	09/27/10	025191
					.0212	.0023	10/04/10	025328
					.0337	.0035	10/12/10	025417
					.0326	.0035	10/18/10	025529

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GROSS BETA					
					.0370	.0039	10/25/10	025700
					.0185	.0021	11/01/10	025847
					.0231	.0025	11/08/10	025942
					.0293	.0031	11/15/10	026050
					.0331	.0035	11/22/10	026198
					.0224	.0025	11/29/10	026341
					.0257	.0028	12/06/10	026427
					.0275	.0030	12/13/10	026527
					.0222	.0024	12/20/10	026633
			GAMMA SCAN (GELI)					
			AC-228					
					.0024	.0014	01/18/10	020406
					.0053	.0021	02/16/10	020898
					.0026	.0019	12/20/10	026673
			BE-7					
					.0967	.0079	01/18/10	020406
					.0811	.0075	02/16/10	020898
					.0891	.0076	03/15/10	021350
					.1534	.0112	04/12/10	021927
					.1755	.0150	05/10/10	022696
					.1085	.0078	06/07/10	023195
					.1355	.0119	07/06/10	023715
					.1110	.0087	08/02/10	024243
					.1173	.0086	08/30/10	024756
					.1337	.0098	09/27/10	025231
					.0628	.0091	10/25/10	025744

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GAMMA SCAN (GELI)					
				BE-7				
					.1090	.0124	11/22/10	026238
					.0859	.0071	12/20/10	026673
				BI-214				
					.0116	.0015	01/18/10	020406
					.0157	.0015	02/16/10	020898
					.0133	.0014	03/15/10	021350
					.0055	.0013	04/12/10	021927
					.0072	.0013	05/10/10	022696
					.0107	.0016	06/07/10	023195
					.0194	.0020	07/06/10	023715
					.0162	.0028	08/02/10	024243
					.0211	.0019	08/30/10	024756
					.0276	.0022	09/27/10	025231
					.0305	.0029	10/25/10	025744
					.0768	.0058	11/22/10	026238
					.0383	.0030	12/20/10	026673
				K-40				
					.0262	.0091	01/18/10	020406
					.0259	.0078	02/16/10	020898
					.0248	.0092	04/12/10	021927
					.0029	.0066	05/10/10	022696
					.0407	.0106	06/07/10	023195
					.0193	.0079	08/30/10	024756
					.0007	.0106	09/27/10	025231
					.0076	.0059	12/20/10	026673

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GAMMA SCAN (GELI)					
				PB-212				
					.0016	.0005	01/18/10	020406
					.0035	.0007	02/16/10	020898
					.0017	.0007	04/12/10	021927
					.0008	.0005	06/07/10	023195
					.0016	.0006	08/30/10	024756
					.0006	.0006	09/27/10	025231
				PB-214				
					.0139	.0015	01/18/10	020406
					.0199	.0019	02/16/10	020898
					.0142	.0014	03/15/10	021350
					.0046	.0012	04/12/10	021927
					.0069	.0011	05/10/10	022696
					.0075	.0012	06/07/10	023195
					.0187	.0025	07/06/10	023715
					.0154	.0022	08/02/10	024243
					.0204	.0016	08/30/10	024756
					.0299	.0022	09/27/10	025231
					.0293	.0021	10/25/10	025744
					.0681	.0046	11/22/10	026238
					.0369	.0024	12/20/10	026673
				TL-208				
					.0006	.0003	01/18/10	020406
					.0008	.0003	04/12/10	021927
					.0009	.0005	06/07/10	023195
					.0003	.0004	09/27/10	025231

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GROSS BETA					
					.0318	.0034	12/28/09	020091
					.0227	.0025	01/04/10	020172
					.0254	.0028	01/11/10	020268
					.0311	.0033	01/18/10	020368
					.0115	.0014	01/25/10	020567
					.0244	.0027	02/01/10	020648
					.0210	.0023	02/08/10	020754
					.0191	.0021	02/16/10	020860
					.0180	.0021	02/22/10	020997
					.0163	.0019	03/01/10	021102
					.0139	.0016	03/08/10	021202
					.0146	.0017	03/15/10	021312
					.0157	.0018	03/22/10	021501
					.0145	.0017	03/29/10	021587
					.0184	.0021	04/05/10	021709
					.0182	.0021	04/12/10	021889
					.0206	.0023	04/19/10	022061
					.0180	.0020	04/26/10	022377
					.0181	.0021	05/03/10	022549
					.0216	.0024	05/10/10	022658
					.0161	.0018	05/17/10	022825
					.0125	.0015	05/24/10	022939
					.0129	.0015	05/31/10	023045
					.0169	.0019	06/07/10	023157
					.0160	.0018	06/14/10	023338
					.0157	.0018	06/21/10	023421

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW	GROSS BETA					
					.0187	.0021	06/28/10	023551
					.0213	.0023	07/06/10	023677
					.0242	.0027	07/12/10	023822
					.0161	.0019	07/19/10	023953
					.0222	.0024	07/26/10	024099
					.0178	.0020	08/02/10	024205
					.0294	.0031	08/09/10	024339
					.0273	.0029	08/16/10	024481
					.0184	.0021	08/23/10	024603
					.0249	.0027	08/30/10	024713
					.0294	.0031	09/06/10	024865
					.0250	.0027	09/13/10	024950
					.0340	.0036	09/20/10	025053
					.0360	.0038	09/27/10	025193
					.0198	.0022	10/04/10	025331
					.0286	.0031	10/11/10	025419
					.0334	.0035	10/18/10	025532
					.0346	.0037	10/25/10	025702
					.0161	.0019	11/01/10	025850
					.0214	.0024	11/08/10	025944
					.0297	.0032	11/15/10	026053
					.0310	.0033	11/22/10	026200
					.0232	.0025	11/29/10	026344
					.0241	.0026	12/06/10	026429
					.0265	.0029	12/13/10	026530
					.0202	.0022	12/20/10	026635

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
				AC-228				
					.0030	.0015	01/18/10	020407
					.0008	.0013	05/10/10	022697
					.0022	.0014	09/27/10	025232
				BE-7				
					.0894	.0092	01/18/10	020407
					.0846	.0066	02/16/10	020899
					.1135	.0100	03/15/10	021351
					.1574	.0130	04/12/10	021928
					.1499	.0114	05/10/10	022697
					.1061	.0091	06/07/10	023196
					.1234	.0086	07/06/10	023716
					.1212	.0113	08/02/10	024244
					.1202	.0089	08/30/10	024757
					.1315	.0091	09/27/10	025232
					.1414	.0118	10/25/10	025745
					.1133	.0086	11/22/10	026239
					.0729	.0082	12/20/10	026674
				BI-214				
					.0088	.0016	01/18/10	020407
					.0176	.0020	02/16/10	020899
					.0293	.0033	03/15/10	021351
					.0067	.0012	04/12/10	021928
					.0102	.0018	05/10/10	022697
					.0104	.0014	06/07/10	023196
					.0133	.0017	07/06/10	023716
					.0128	.0025	08/02/10	024244

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
				BI-214	.0134	.0018	08/30/10	024757
					.0232	.0020	09/27/10	025232
					.0184	.0023	10/25/10	025745
					.0481	.0048	11/22/10	026239
					.0412	.0041	12/20/10	026674
				K-40	.0101	.0059	01/18/10	020407
					.0003	.0072	02/16/10	020899
					.0167	.0071	04/12/10	021928
					.0109	.0078	05/10/10	022697
					.0001	.0049	06/07/10	023196
					.0045	.0054	07/06/10	023716
					.0048	.0043	08/02/10	024244
					.0228	.0091	09/27/10	025232
				PB-212	.0010	.0006	02/16/10	020899
					.0004	.0007	05/10/10	022697
					.0008	.0003	08/02/10	024244
					.0022	.0005	09/27/10	025232
				PB-214	.0115	.0017	01/18/10	020407
					.0199	.0020	02/16/10	020899
					.0257	.0132	03/15/10	021351
					.0097	.0011	04/12/10	021928
					.0082	.0011	05/10/10	022697
					.0089	.0013	06/07/10	023196

Tennessee Valley Authority

Table 1
 RADIOACTIVITY IN AIR FILTER
 WATTS BAR NUCLEAR PLANT
 PCI/M3 - 0.037 BQ/M3
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW	GAMMA SCAN (GELI)	PB-214	.0105	.0013	07/06/10	023716
					.0119	.0023	08/02/10	024244
					.0163	.0016	08/30/10	024757
					.0219	.0020	09/27/10	025232
					.0232	.0022	10/25/10	025745
					.0494	.0043	11/22/10	026239
					.0372	.0034	12/20/10	026674
				TL-208	.0011	.0004	02/16/10	020899
					.0003	.0003	05/10/10	022697

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
				BI-214				
					.0095	.0051	12/28/09	020097
					.0472	.0093	01/04/10	020176
					.0520	.0088	01/11/10	020274
					.0310	.0083	01/18/10	020376
					.0540	.0092	02/01/10	020652
					.0395	.0091	02/16/10	020868
					.0731	.0149	02/22/10	021003
					.0508	.0114	03/01/10	021106
					.0218	.0082	03/15/10	021320
					.0184	.0105	03/22/10	021507
					.0216	.0094	03/29/10	021591
					.0325	.0128	04/05/10	021715
					.0318	.0115	04/19/10	022067
					.0402	.0114	04/26/10	022384
					.0106	.0075	05/10/10	022666
					.0163	.0066	05/24/10	022943
					.0265	.0099	06/21/10	023425
					.0312	.0096	06/28/10	023558
					.0560	.0110	07/06/10	023685
					.0336	.0096	07/19/10	023957
					.0361	.0170	07/26/10	024105
					.0356	.0075	08/02/10	024213
					.0224	.0100	08/09/10	024345
					.0521	.0111	08/16/10	024485
					.0424	.0126	08/23/10	024609
					.0554	.0121	09/06/10	024871

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
				BI-214				
					.0242	.0081	09/13/10	024954
					.0497	.0093	09/20/10	025059
					.0758	.0165	09/27/10	025201
					.0842	.0194	10/04/10	025337
					.1815	.0248	10/12/10	025423
					.0531	.0142	10/18/10	025538
					.0084	.0142	11/01/10	025856
					.1473	.0175	11/08/10	025948
					.0725	.0185	11/15/10	026059
					.2558	.0281	11/29/10	026350
					.0785	.0120	12/06/10	026433
					.0857	.0182	12/13/10	026536
					.0421	.0104	12/20/10	026643
				K-40				
					.2669	.0506	02/01/10	020652
					.1845	.0390	02/16/10	020868
					.3706	.0767	02/22/10	021003
					.1762	.0515	03/01/10	021106
					.1720	.0415	03/29/10	021591
					.2977	.0654	04/19/10	022067
					.3089	.0664	05/10/10	022666
					.1819	.0501	05/24/10	022943
					.3906	.0858	06/07/10	023165
					.2347	.0459	06/21/10	023425
					.2253	.0630	06/28/10	023558
					.1954	.0545	07/19/10	023957

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
				K-40				
					.2813	.0695	07/26/10	024105
					.3151	.0650	08/02/10	024213
					.3032	.0764	08/09/10	024345
					.4669	.0846	08/23/10	024609
					.5162	.0932	09/13/10	024954
					.3733	.0764	09/20/10	025059
					.2290	.0651	09/27/10	025201
					.3879	.0628	10/04/10	025337
					.1639	.0542	10/12/10	025423
					.2865	.0603	11/01/10	025856
					.4514	.0810	11/08/10	025948
					.3178	.0614	11/15/10	026059
					.3233	.0516	11/29/10	026350
			NO ACTIVITY DETECTED					
					.0000	.0000	01/25/10	020573
					.0000	.0000	02/08/10	020760
					.0000	.0000	04/12/10	021897
					.0000	.0000	07/12/10	023828
					.0000	.0000	10/25/10	025714
					.0000	.0000	11/22/10	026208
			PB-212					
					.0127	.0036	03/22/10	021507
					.0052	.0045	06/28/10	023558
			PB-214					
					.0148	.0091	12/28/09	020097
					.0313	.0077	01/04/10	020176

Tennessee Valley Authority

Table 2
 RADIOACTIVITY IN CHARCOAL FILTER
 WATTS BAR NUCLEAR PLANT
 PCI/M3 - 0.037 BQ/M3
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
				PB-214				
					.0425	.0077	01/11/10	020274
					.0286	.0063	01/18/10	020376
					.0526	.0106	02/01/10	020652
					.0477	.0089	02/16/10	020868
					.0676	.0107	02/22/10	021003
					.0540	.0104	03/01/10	021106
					.0287	.0087	03/08/10	021208
					.0181	.0077	03/15/10	021320
					.0316	.0098	03/22/10	021507
					.0235	.0091	03/29/10	021591
					.0204	.0065	04/05/10	021715
					.0731	.0151	04/19/10	022067
					.0444	.0116	04/26/10	022384
					.0256	.0063	05/03/10	022555
					.0243	.0083	05/10/10	022666
					.0390	.0120	05/17/10	022831
					.0259	.0080	05/24/10	022943
					.0284	.0095	05/31/10	023051
					.0163	.0059	06/07/10	023165
					.0193	.0073	06/14/10	023344
					.0182	.0092	06/21/10	023425
					.0384	.0080	06/28/10	023558
					.0407	.0094	07/06/10	023685
					.0248	.0085	07/19/10	023957
					.0326	.0148	07/26/10	024105
					.0413	.0079	08/02/10	024213

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)	PB-214				
					.0337	.0080	08/09/10	024345
					.0402	.0095	08/16/10	024485
					.0435	.0115	08/23/10	024609
					.0442	.0105	08/30/10	024721
					.0749	.0136	09/06/10	024871
					.0263	.0087	09/13/10	024954
					.0474	.0113	09/20/10	025059
					.0548	.0128	09/27/10	025201
					.0953	.0133	10/04/10	025337
					.2097	.0238	10/12/10	025423
					.0579	.0157	10/18/10	025538
					.0575	.0181	11/01/10	025856
					.1216	.0141	11/08/10	025948
					.0394	.0067	11/15/10	026059
					.2967	.0316	11/29/10	026350
					.1012	.0152	12/06/10	026433
					.1263	.0167	12/13/10	026536
					.0591	.0100	12/20/10	026643
3101	LM1	0.5 MILES SSW	GAMMA SCAN (GELI)	BI-214				
					.0179	.0064	01/05/10	020156
					.0511	.0102	01/12/10	020245
					.0105	.0054	01/19/10	020349
					.0204	.0062	01/26/10	020537
					.0552	.0116	02/01/10	020632

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			GAMMA SCAN (GELI)					
				BI-214				
					.0280	.0076	02/17/10	020841
					.0726	.0177	02/23/10	020968
					.0190	.0070	03/02/10	021086
					.0269	.0070	03/09/10	021178
					.0278	.0081	03/16/10	021293
					.0234	.0083	03/22/10	021472
					.0402	.0080	04/06/10	021685
					.0200	.0089	04/13/10	021870
					.0224	.0088	04/27/10	022357
					.0284	.0078	05/11/10	022639
					.0501	.0099	06/15/10	023309
					.0188	.0070	06/22/10	023405
					.0255	.0116	06/29/10	023518
					.0254	.0100	07/13/10	023792
					.0782	.0159	07/19/10	023937
					.0315	.0119	07/26/10	024075
					.0280	.0094	08/02/10	024185
					.0344	.0099	08/10/10	024310
					.0594	.0130	08/17/10	024465
					.0793	.0136	08/23/10	024579
					.0243	.0101	09/14/10	024934
					.1075	.0148	09/28/10	025174
					.1489	.0361	10/05/10	025302
					.0633	.0120	10/11/10	025403
					.0478	.0115	10/19/10	025509
					.0404	.0158	11/02/10	025821

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			GAMMA SCAN (GELI)					
				BI-214				
					.1604	.0224	11/08/10	025928
					.0836	.0166	11/16/10	026029
					.0172	.0152	11/22/10	026181
					.0572	.0110	11/30/10	026315
					.2358	.0338	12/07/10	026413
					.1536	.0260	12/14/10	026507
					.0935	.0182	12/20/10	026616
				K-40				
					.2629	.0523	01/05/10	020156
					.1979	.0378	01/19/10	020349
					.2959	.0595	02/17/10	020841
					.2839	.0747	03/02/10	021086
					.1975	.0508	04/06/10	021685
					.2513	.0582	04/27/10	022357
					.3298	.0703	05/11/10	022639
					.1553	.0482	06/29/10	023518
					.2614	.0490	07/13/10	023792
					.2015	.0495	07/26/10	024075
					.4466	.0718	08/02/10	024185
					.2786	.0514	08/10/10	024310
					.2885	.0550	08/17/10	024465
					.2095	.0493	09/14/10	024934
					.2291	.0662	09/28/10	025174
					.2629	.0392	10/19/10	025509
					.2794	.0611	10/26/10	025680
					.3570	.0606	11/02/10	025821

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			GAMMA SCAN (GELI)					
				K-40				
					.4043	.0926	11/08/10	025928
					.2533	.0574	11/16/10	026029
					.3397	.0643	11/22/10	026181
					.5035	.0717	11/30/10	026315
			NO ACTIVITY DETECTED					
					.0000	.0000	12/29/09	020062
					.0000	.0000	03/30/10	021571
					.0000	.0000	05/18/10	022796
					.0000	.0000	05/25/10	022923
					.0000	.0000	06/01/10	023021
					.0000	.0000	09/21/10	025030
			PB-212					
					.0121	.0042	02/09/10	020731
					.0115	.0044	05/04/10	022525
					.0031	.0044	05/11/10	022639
					.0039	.0040	09/07/10	024836
			PB-214					
					.0273	.0087	01/05/10	020156
					.0478	.0127	01/12/10	020245
					.0311	.0065	01/19/10	020349
					.0356	.0070	01/26/10	020537
					.0614	.0100	02/01/10	020632
					.0042	.0044	02/09/10	020731
					.0381	.0075	02/17/10	020841
					.0891	.0125	02/23/10	020968
					.0364	.0098	03/02/10	021086

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			GAMMA SCAN (GELI)					
				PB-214				
					.0333	.0076	03/09/10	021178
					.0257	.0070	03/16/10	021293
					.0271	.0094	03/22/10	021472
					.0297	.0087	04/06/10	021685
					.0168	.0060	04/13/10	021870
					.0407	.0088	04/20/10	022032
					.0180	.0074	04/27/10	022357
					.0219	.0063	05/04/10	022525
					.0251	.0061	05/11/10	022639
					.0292	.0079	06/08/10	023138
					.0465	.0073	06/15/10	023309
					.0274	.0069	06/22/10	023405
					.0371	.0098	06/29/10	023518
					.0357	.0075	07/06/10	023657
					.0595	.0130	07/19/10	023937
					.0511	.0119	07/26/10	024075
					.0260	.0076	08/02/10	024185
					.0320	.0076	08/10/10	024310
					.0468	.0139	08/17/10	024465
					.0916	.0199	08/23/10	024579
					.0499	.0104	08/31/10	024693
					.0214	.0064	09/07/10	024836
					.0291	.0082	09/14/10	024934
					.1071	.0154	09/28/10	025174
					.2122	.0303	10/05/10	025302
					.0947	.0191	10/11/10	025403

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW	GAMMA SCAN (GELI)	PB-214				
					.0939	.0183	10/19/10	025509
					.0653	.0093	11/02/10	025821
					.1767	.0190	11/08/10	025928
					.1068	.0099	11/16/10	026029
					.0832	.0132	11/30/10	026315
					.2693	.0313	12/07/10	026413
					.2242	.0256	12/14/10	026507
					.1073	.0189	12/20/10	026616
3102	LM2	0.4 MILES NNE	GAMMA SCAN (GELI)	BI-214				
					.0339	.0084	12/29/09	020066
					.0872	.0170	01/05/10	020159
					.0537	.0133	01/12/10	020249
					.0318	.0091	01/19/10	020352
					.0518	.0113	01/26/10	020541
					.0371	.0116	02/01/10	020635
					.0782	.0148	02/23/10	020972
					.0198	.0084	03/01/10	021089
					.0600	.0133	03/08/10	021182
					.0664	.0108	03/16/10	021296
					.0183	.0090	03/22/10	021476
					.0541	.0099	04/06/10	021689
					.0230	.0091	04/13/10	021873
					.0530	.0111	04/20/10	022036
					.0204	.0074	05/04/10	022529

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			GAMMA SCAN (GELI)					
				BI-214				
					.0591	.0119	05/11/10	022642
					.0631	.0149	06/01/10	023025
					.0451	.0090	06/15/10	023313
					.0486	.0105	06/29/10	023523
					.0564	.0089	07/06/10	023660
					.0490	.0129	07/13/10	023796
					.2666	.0457	07/19/10	023940
					.0292	.0076	07/26/10	024079
					.0565	.0107	08/02/10	024188
					.0288	.0114	08/10/10	024314
					.1209	.0201	08/23/10	024583
					.0607	.0166	08/31/10	024696
					.0362	.0104	09/07/10	024840
					.0889	.0164	09/14/10	024937
					.0308	.0113	09/21/10	025034
					.0576	.0137	09/28/10	025177
					.2465	.0222	10/05/10	025306
					.0886	.0203	10/11/10	025406
					.0503	.0112	10/19/10	025513
					.0455	.0108	11/02/10	025825
					.0904	.0154	11/08/10	025931
					.0673	.0168	11/16/10	026033
					.0773	.0125	11/29/10	026319
					.1869	.0204	12/07/10	026416
					.0662	.0162	12/14/10	026511
					.0849	.0156	12/21/10	026619

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			GAMMA SCAN (GELI)					
				K-40				
					.2655	.0541	01/19/10	020352
					.4448	.0728	02/01/10	020635
					.1844	.0661	03/08/10	021182
					.1695	.0414	03/16/10	021296
					.3824	.0531	03/22/10	021476
					.4235	.0653	05/11/10	022642
					.3763	.0889	06/01/10	023025
					.4138	.0696	06/29/10	023523
					.1085	.0620	07/06/10	023660
					.3358	.0651	07/13/10	023796
					.3927	.0956	07/19/10	023940
					.2762	.0675	07/26/10	024079
					.2956	.0694	08/23/10	024583
					.3261	.0632	09/14/10	024937
					.2328	.0447	09/21/10	025034
					.3350	.0717	09/28/10	025177
					.4884	.0796	10/11/10	025406
					.3159	.0565	10/26/10	025683
					.2987	.0573	11/02/10	025825
					.3824	.0909	11/29/10	026319
					.1522	.0469	12/07/10	026416
					.2014	.0520	12/14/10	026511
			NO ACTIVITY DETECTED					
					.0000	.0000	05/25/10	022926
					.0000	.0000	11/22/10	026184

Tennessee Valley Authority

Table 2
 RADIOACTIVITY IN CHARCOAL FILTER
 WATTS BAR NUCLEAR PLANT
 PCI/M3 - 0.037 BQ/M3
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			GAMMA SCAN (GELI)					
				PB-212	.0051	.0040	08/02/10	024188
					.0004	.0053	11/16/10	026033
				PB-214	.0343	.0067	12/29/09	020066
					.1093	.0197	01/05/10	020159
					.0459	.0086	01/12/10	020249
					.0280	.0082	01/19/10	020352
					.0462	.0089	01/26/10	020541
					.0229	.0087	02/01/10	020635
					.0080	.0044	02/08/10	020735
					.0360	.0087	02/16/10	020844
					.1491	.0157	02/23/10	020972
					.0233	.0071	03/01/10	021089
					.0570	.0123	03/08/10	021182
					.0480	.0073	03/16/10	021296
					.0342	.0113	03/22/10	021476
					.0149	.0074	03/29/10	021574
					.0409	.0071	04/06/10	021689
					.0312	.0097	04/13/10	021873
					.0468	.0100	04/20/10	022036
					.0175	.0056	04/27/10	022360
					.0354	.0088	05/04/10	022529
					.0433	.0117	05/11/10	022642
					.0220	.0087	05/18/10	022800
					.0415	.0130	06/01/10	023025
					.0718	.0143	06/08/10	023141

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			GAMMA SCAN (GELI)					
			PB-214					
					.0404	.0100	06/15/10	023313
					.0640	.0125	06/22/10	023408
					.0553	.0112	06/29/10	023523
					.0482	.0112	07/06/10	023660
					.0374	.0092	07/13/10	023796
					.0848	.0162	07/19/10	023940
					.0228	.0088	07/26/10	024079
					.0398	.0091	08/02/10	024188
					.0408	.0097	08/10/10	024314
					.0535	.0110	08/17/10	024468
					.1523	.0174	08/23/10	024583
					.0651	.0133	08/31/10	024696
					.0249	.0078	09/07/10	024840
					.0976	.0210	09/14/10	024937
					.0319	.0092	09/21/10	025034
					.0857	.0139	09/28/10	025177
					.2282	.0295	10/05/10	025306
					.1206	.0231	10/11/10	025406
					.0755	.0126	10/19/10	025513
					.0582	.0097	11/02/10	025825
					.1408	.0147	11/08/10	025931
					.0757	.0127	11/16/10	026033
					.0974	.0147	11/29/10	026319
					.2258	.0189	12/07/10	026416
					.1195	.0206	12/14/10	026511
					.1291	.0251	12/21/10	026619

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE	GAMMA SCAN (GELI)	TL-208				
					.0063	.0029	06/29/10	023523
3106	PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI)	BI-214				
					.0292	.0109	01/04/10	020161
					.0417	.0085	01/11/10	020252
					.0196	.0086	01/25/10	020544
					.0305	.0083	02/01/10	020637
					.0377	.0089	02/16/10	020846
					.0860	.0125	02/22/10	020975
					.0356	.0075	03/01/10	021091
					.0513	.0116	03/08/10	021185
					.0319	.0154	03/15/10	021298
					.0262	.0065	03/29/10	021576
					.0272	.0095	04/05/10	021692
					.0504	.0107	04/19/10	022039
					.0284	.0063	05/10/10	022644
					.0461	.0093	05/31/10	023028
					.0382	.0109	06/14/10	023316
					.0371	.0091	06/21/10	023410
					.0421	.0090	07/06/10	023662
					.0209	.0100	07/13/10	023799
					.0393	.0109	07/19/10	023942
					.0394	.0164	07/26/10	024082
					.0408	.0091	08/02/10	024190
					.0293	.0146	08/09/10	024317

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			GAMMA SCAN (GELI)					
				BI-214				
					.0401	.0103	08/16/10	024470
					.0678	.0103	08/23/10	024586
					.0437	.0099	08/30/10	024698
					.0406	.0091	09/06/10	024843
					.0199	.0094	09/20/10	025037
					.0684	.0156	09/27/10	025179
					.0403	.0109	10/04/10	025309
					.0542	.0107	10/11/10	025408
					.0490	.0119	10/18/10	025516
					.1263	.0217	11/01/10	025828
					.1082	.0211	11/08/10	025933
					.0474	.0119	11/15/10	026036
					.0529	.0154	11/29/10	026322
					.1686	.0266	12/06/10	026418
					.0430	.0116	12/13/10	026514
					.0720	.0197	12/20/10	026621
				K-40				
					.3476	.0662	01/04/10	020161
					.2645	.0610	01/25/10	020544
					.1105	.0416	02/01/10	020637
					.2798	.0609	02/16/10	020846
					.2289	.0618	03/01/10	021091
					.3574	.0748	03/08/10	021185
					.3574	.0745	05/31/10	023028
					.2022	.0575	06/14/10	023316
					.2876	.0630	06/21/10	023410

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			GAMMA SCAN (GELI)					
				K-40				
					.2064	.0598	07/26/10	024082
					.2945	.0705	08/02/10	024190
					.3516	.0746	08/16/10	024470
					.3473	.0650	08/23/10	024586
					.2876	.0524	08/30/10	024698
					.3035	.0486	09/13/10	024939
					.2496	.0585	10/11/10	025408
					.2521	.0517	11/01/10	025828
					.3403	.0637	11/08/10	025933
					.3014	.0718	11/15/10	026036
					.1847	.0523	11/29/10	026322
					.2500	.0693	12/06/10	026418
					.2791	.0676	12/20/10	026621
			NO ACTIVITY DETECTED					
					.0000	.0000	12/28/09	020069
					.0000	.0000	04/26/10	022362
					.0000	.0000	05/03/10	022532
					.0000	.0000	10/25/10	025685
					.0000	.0000	11/22/10	026186
			PB-212					
					.0048	.0149	02/22/10	020975
					.0009	.0044	03/22/10	021479
					.0068	.0064	04/05/10	021692
					.0086	.0045	07/06/10	023662
			PB-214					
					.0454	.0142	01/04/10	020161

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			GAMMA SCAN (GELI)					
				PB-214				
					.0297	.0100	01/11/10	020252
					.0256	.0074	01/18/10	020354
					.0253	.0067	01/25/10	020544
					.0428	.0127	02/01/10	020637
					.0158	.0072	02/08/10	020738
					.0362	.0090	02/16/10	020846
					.0559	.0107	02/22/10	020975
					.0311	.0069	03/01/10	021091
					.0735	.0145	03/08/10	021185
					.0409	.0111	03/15/10	021298
					.0272	.0067	03/22/10	021479
					.0289	.0104	03/29/10	021576
					.0445	.0111	04/05/10	021692
					.0327	.0071	04/12/10	021875
					.0549	.0122	04/19/10	022039
					.0396	.0098	05/10/10	022644
					.0241	.0104	05/17/10	022803
					.0225	.0056	05/24/10	022928
					.0407	.0107	05/31/10	023028
					.0208	.0064	06/07/10	023143
					.0441	.0102	06/14/10	023316
					.0328	.0108	06/21/10	023410
					.0266	.0078	06/28/10	023528
					.0590	.0123	07/06/10	023662
					.0722	.0102	07/19/10	023942
					.0301	.0136	07/26/10	024082

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI) PB-214		.0465	.0101	08/02/10	024190
					.0004	.0110	08/09/10	024317
					.0536	.0134	08/16/10	024470
					.0672	.0123	08/23/10	024586
					.0389	.0107	08/30/10	024698
					.0589	.0126	09/06/10	024843
					.0321	.0078	09/20/10	025037
					.0639	.0159	09/27/10	025179
					.0525	.0151	10/04/10	025309
					.0745	.0165	10/11/10	025408
					.1047	.0139	10/18/10	025516
					.1879	.0217	11/01/10	025828
					.1657	.0257	11/08/10	025933
					.0474	.0107	11/15/10	026036
					.1022	.0200	11/29/10	026322
					.2225	.0198	12/06/10	026418
					.0693	.0145	12/13/10	026514
					.0386	.0113	12/20/10	026621
			TL-208		.0080	.0034	03/08/10	021185
3107	PM3	10.4 MILES NNE	GAMMA SCAN (GELI) BI-214		.0184	.0065	12/28/09	020071
					.0529	.0126	01/04/10	020163
					.0190	.0081	01/11/10	020254

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GAMMA SCAN (GELI)					
				BI-214				
					.0181	.0102	01/18/10	020356
					.0345	.0100	02/01/10	020639
					.0218	.0078	02/08/10	020740
					.0569	.0096	02/16/10	020848
					.0537	.0114	02/22/10	020977
					.0500	.0104	03/01/10	021093
					.0439	.0136	03/08/10	021187
					.0281	.0091	03/15/10	021300
					.0509	.0133	03/22/10	021481
					.0465	.0103	03/29/10	021578
					.0260	.0092	04/05/10	021694
					.0336	.0099	04/12/10	021877
					.0848	.0112	04/19/10	022041
					.0158	.0089	04/26/10	022364
					.0447	.0104	05/10/10	022646
					.0222	.0083	05/17/10	022805
					.0282	.0089	06/21/10	023412
					.0366	.0100	06/28/10	023531
					.0251	.0085	07/06/10	023664
					.0378	.0131	07/12/10	023801
					.0598	.0165	07/19/10	023944
					.1312	.0321	08/02/10	024192
					.0520	.0145	08/16/10	024472
					.0883	.0148	08/23/10	024588
					.0358	.0114	08/30/10	024700
					.0436	.0088	09/06/10	024845

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GAMMA SCAN (GELI)					
				BI-214				
					.0469	.0145	09/13/10	024941
					.0350	.0116	09/20/10	025039
					.0816	.0141	09/27/10	025181
					.0819	.0126	10/04/10	025311
					.0615	.0115	10/11/10	025410
					.0608	.0117	10/18/10	025518
					.0470	.0132	11/08/10	025935
					.1207	.0179	11/15/10	026038
					.1113	.1020	11/29/10	026324
					.0713	.0164	12/06/10	026420
					.3188	.0443	12/13/10	026516
				K-40				
					.2718	.0613	12/28/09	020071
					.4687	.0652	02/22/10	020977
					.2307	.0496	03/15/10	021300
					.2298	.0646	03/22/10	021481
					.2112	.0456	04/12/10	021877
					.2508	.0429	04/19/10	022041
					.3106	.0707	06/07/10	023145
					.4254	.0650	06/21/10	023412
					.2130	.0332	07/06/10	023664
					.1963	.0731	07/19/10	023944
					.2704	.0469	07/26/10	024084
					.4519	.0573	08/02/10	024192
					.2694	.0916	08/23/10	024588
					.2494	.0561	09/13/10	024941

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GAMMA SCAN (GELI)					
				K-40				
					.3828	.0584	09/20/10	025039
					.3209	.0549	09/27/10	025181
					.4683	.0764	10/04/10	025311
					.2820	.0634	10/11/10	025410
					.4379	.0844	10/25/10	025687
					.3009	.0456	11/01/10	025830
					.2003	.0433	11/08/10	025935
					.1770	.0661	11/15/10	026038
					.2137	.0491	11/29/10	026324
					.3291	.0754	12/06/10	026420
					.2500	.0614	12/13/10	026516
			NO ACTIVITY DETECTED					
					.0000	.0000	05/31/10	023030
					.0000	.0000	11/22/10	026188
			PB-212					
					.0029	.0057	02/08/10	020740
					.0010	.0049	03/01/10	021093
					.0033	.0039	03/08/10	021187
					.0049	.0039	08/09/10	024319
					.0068	.0039	10/18/10	025518
					.0057	.0037	11/15/10	026038
			PB-214					
					.0326	.0095	12/28/09	020071
					.0447	.0107	01/04/10	020163
					.0262	.0072	01/18/10	020356
					.0087	.0047	01/25/10	020546

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GAMMA SCAN (GELI)					
				PB-214				
					.0370	.0108	02/01/10	020639
					.0482	.0116	02/08/10	020740
					.0469	.0083	02/16/10	020848
					.0738	.0140	02/22/10	020977
					.0432	.0094	03/01/10	021093
					.0526	.0100	03/08/10	021187
					.0499	.0124	03/22/10	021481
					.0385	.0097	03/29/10	021578
					.0433	.0111	04/05/10	021694
					.0296	.0083	04/12/10	021877
					.0703	.0102	04/19/10	022041
					.0147	.0055	04/26/10	022364
					.0271	.0106	05/03/10	022534
					.0458	.0101	05/10/10	022646
					.0230	.0092	05/17/10	022805
					.0283	.0063	05/24/10	022930
					.0560	.0122	06/07/10	023145
					.0221	.0084	06/14/10	023318
					.0313	.0112	06/21/10	023412
					.0337	.0103	06/28/10	023531
					.0396	.0072	07/06/10	023664
					.0404	.0100	07/12/10	023801
					.1394	.0208	07/19/10	023944
					.0076	.0113	07/26/10	024084
					.0433	.0093	08/02/10	024192
					.0391	.0086	08/16/10	024472

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GAMMA SCAN (GELI)					
				PB-214				
					.0715	.0167	08/23/10	024588
					.0448	.0098	08/30/10	024700
					.0598	.0119	09/06/10	024845
					.0332	.0067	09/13/10	024941
					.0296	.0108	09/20/10	025039
					.0759	.0105	09/27/10	025181
					.0693	.0109	10/04/10	025311
					.1162	.0222	10/11/10	025410
					.0715	.0137	10/18/10	025518
					.1426	.0215	11/08/10	025935
					.1411	.0214	11/15/10	026038
					.1674	.0221	11/29/10	026324
					.0858	.0170	12/06/10	026420
					.4279	.0397	12/13/10	026516
					.0513	.0090	12/20/10	026623
3108	PM4	7.6 MILES NE/ENE						
			GAMMA SCAN (GELI)					
				BI-214				
					.0323	.0129	12/28/09	020073
					.0086	.0062	01/04/10	020165
					.0565	.0103	01/11/10	020256
					.0284	.0111	01/18/10	020358
					.0105	.0069	01/25/10	020548
					.0631	.0134	02/01/10	020641
					.0355	.0084	02/16/10	020850
					.0844	.0154	02/22/10	020979

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE						
			GAMMA SCAN (GELI)					
				BI-214				
					.0316	.0094	03/01/10	021095
					.0279	.0082	03/15/10	021302
					.0231	.0078	04/05/10	021696
					.0245	.0105	04/12/10	021879
					.0333	.0120	04/26/10	022366
					.0316	.0111	05/03/10	022536
					.0255	.0089	05/10/10	022648
					.0343	.0097	05/17/10	022807
					.0310	.0088	05/24/10	022932
					.0299	.0087	05/31/10	023032
					.0331	.0100	06/14/10	023320
					.0262	.0100	06/21/10	023414
					.0346	.0085	06/28/10	023534
					.0408	.0105	07/06/10	023666
					.0386	.0103	07/12/10	023803
					.0689	.0148	07/19/10	023946
					.0879	.0152	08/02/10	024194
					.0388	.0107	08/09/10	024321
					.0493	.0178	08/16/10	024474
					.0416	.0089	08/23/10	024590
					.0427	.0107	08/30/10	024702
					.0568	.0122	09/06/10	024847
					.0282	.0098	09/13/10	024943
					.0378	.0123	09/20/10	025041
					.1104	.0239	09/27/10	025183
					.0857	.0131	10/04/10	025313

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE						
			GAMMA SCAN (GELI)					
				BI-214				
					.0204	.0115	10/12/10	025412
					.0417	.0110	10/18/10	025520
					.0541	.0168	11/01/10	025832
					.0865	.0125	11/08/10	025937
					.1085	.0155	11/15/10	026040
					.0733	.0116	11/29/10	026326
					.0631	.0139	12/06/10	026422
					.0649	.0123	12/14/10	026518
					.0248	.0105	12/20/10	026625
				K-40				
					.2213	.0559	12/28/09	020073
					.3206	.0717	01/18/10	020358
					.3963	.0706	01/25/10	020548
					.2406	.0676	02/08/10	020742
					.1794	.0685	02/16/10	020850
					.2536	.0607	02/22/10	020979
					.2540	.0571	03/01/10	021095
					.1887	.0418	04/12/10	021879
					.4098	.0609	05/03/10	022536
					.1521	.0726	05/10/10	022648
					.3211	.0971	05/31/10	023032
					.2447	.0626	06/14/10	023320
					.4266	.0567	06/28/10	023534
					.1919	.0468	07/06/10	023666
					.1999	.0436	07/19/10	023946
					.3622	.0527	08/02/10	024194

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE						
			GAMMA SCAN (GELI)					
				K-40				
					.3354	.0588	08/16/10	024474
					.3619	.0706	08/30/10	024702
					.3687	.0773	09/06/10	024847
					.2930	.0513	09/13/10	024943
					.3021	.0661	09/27/10	025183
					.1972	.0499	10/04/10	025313
					.2958	.0527	10/12/10	025412
					.4281	.0773	10/18/10	025520
					.2171	.0542	11/01/10	025832
					.2761	.0789	11/08/10	025937
					.2454	.0752	11/15/10	026040
			NO ACTIVITY DETECTED					
					.0000	.0000	06/07/10	023147
					.0000	.0000	10/25/10	025689
					.0000	.0000	11/22/10	026190
			PB-212					
					.0095	.0045	02/08/10	020742
					.0070	.0044	06/28/10	023534
			PB-214					
					.0363	.0061	12/28/09	020073
					.0283	.0087	01/04/10	020165
					.0329	.0095	01/11/10	020256
					.0534	.0106	01/18/10	020358
					.0300	.0070	01/25/10	020548
					.0617	.0139	02/01/10	020641
					.0152	.0067	02/08/10	020742

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE						
			GAMMA SCAN (GELI)					
				PB-214				
					.0253	.0081	02/16/10	020850
					.0613	.0132	02/22/10	020979
					.0498	.0090	03/01/10	021095
					.0470	.0084	03/08/10	021189
					.0380	.0117	03/15/10	021302
					.0288	.0075	03/22/10	021483
					.0235	.0068	03/29/10	021580
					.0341	.0106	04/05/10	021696
					.0264	.0067	04/12/10	021879
					.0319	.0063	04/19/10	022043
					.0318	.0091	04/26/10	022366
					.0292	.0088	05/03/10	022536
					.0314	.0118	05/10/10	022648
					.0404	.0120	05/17/10	022807
					.0254	.0118	05/24/10	022932
					.0368	.0080	05/31/10	023032
					.0305	.0082	06/14/10	023320
					.0455	.0143	06/21/10	023414
					.0442	.0088	06/28/10	023534
					.0616	.0105	07/06/10	023666
					.0283	.0070	07/12/10	023803
					.0430	.0140	07/19/10	023946
					.0372	.0080	07/26/10	024086
					.0966	.0228	08/02/10	024194
					.0502	.0132	08/09/10	024321
					.0868	.0228	08/16/10	024474

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE	GAMMA SCAN (GELI)	PB-214				
					.0577	.0114	08/23/10	024590
					.0438	.0085	08/30/10	024702
					.0572	.0115	09/06/10	024847
					.0279	.0077	09/13/10	024943
					.0385	.0095	09/20/10	025041
					.1022	.0205	09/27/10	025183
					.0881	.0125	10/04/10	025313
					.0660	.0109	10/12/10	025412
					.0454	.0124	10/18/10	025520
					.0697	.0143	11/01/10	025832
					.1033	.0199	11/08/10	025937
					.1311	.0138	11/15/10	026040
					.0698	.0120	11/29/10	026326
					.0697	.0118	12/06/10	026422
					.0892	.0156	12/14/10	026518
					.0427	.0099	12/20/10	026625
3109	PM5 DECATUR	8.0 MILES S	GAMMA SCAN (GELI)	BI-214				
					.0218	.0063	12/28/09	020076
					.0228	.0078	01/04/10	020167
					.0495	.0123	02/01/10	020643
					.0547	.0111	02/16/10	020852
					.0761	.0166	02/22/10	020982
					.0319	.0077	03/01/10	021097
					.0313	.0088	03/08/10	021192

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			GAMMA SCAN (GELI)					
				BI-214				
					.0206	.0084	03/22/10	021486
					.0255	.0083	03/29/10	021582
					.0359	.0115	04/05/10	021699
					.0276	.0093	04/19/10	022046
					.0498	.0083	05/10/10	022650
					.0282	.0089	05/17/10	022810
					.0243	.0094	05/24/10	022934
					.0393	.0104	05/31/10	023035
					.0238	.0094	06/07/10	023149
					.0332	.0158	06/14/10	023323
					.0584	.0171	06/21/10	023416
					.0380	.0100	06/28/10	023538
					.0415	.0133	07/12/10	023806
					.0998	.0215	07/19/10	023948
					.0403	.0113	07/26/10	024089
					.0498	.0149	08/09/10	024324
					.0332	.0177	08/16/10	024476
					.0550	.0149	08/23/10	024593
					.0309	.0120	08/30/10	024704
					.0495	.0120	09/06/10	024850
					.0300	.0158	09/13/10	024945
					.0115	.0139	09/20/10	025044
					.0873	.0153	09/27/10	025185
					.3160	.0429	10/04/10	025316
					.0584	.0129	10/12/10	025414
					.0576	.0157	10/18/10	025523

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			GAMMA SCAN (GELI)					
				BI-214				
					.0613	.0138	11/01/10	025835
					.0655	.0139	11/08/10	025939
					.0446	.0127	11/15/10	026043
					.1291	.0280	11/29/10	026329
					.0976	.0148	12/06/10	026424
					.0977	.0193	12/14/10	026521
					.0495	.0149	12/20/10	026627
				K-40				
					.3362	.0591	12/28/09	020076
					.2656	.0453	02/01/10	020643
					.2767	.0590	02/16/10	020852
					.3543	.0621	02/22/10	020982
					.2487	.0571	03/01/10	021097
					.3408	.0677	03/08/10	021192
					.2691	.0577	03/15/10	021304
					.3158	.0548	03/29/10	021582
					.1484	.0528	04/05/10	021699
					.3760	.0873	04/19/10	022046
					.3230	.0717	05/10/10	022650
					.3337	.0694	05/17/10	022810
					.3721	.0986	05/24/10	022934
					.3429	.0686	06/07/10	023149
					.4809	.1088	06/14/10	023323
					.1710	.0546	06/28/10	023538
					.3705	.0650	07/12/10	023806
					.2576	.0389	08/02/10	024196

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			GAMMA SCAN (GELI)					
				K-40				
					.2402	.0711	08/09/10	024324
					.2854	.0451	08/16/10	024476
					.2395	.0594	09/06/10	024850
					.3147	.0507	09/27/10	025185
					.3744	.0963	10/04/10	025316
					.2173	.0546	10/12/10	025414
					.2312	.0391	10/25/10	025691
					.4247	.0726	11/08/10	025939
					.3128	.0629	11/15/10	026043
					.4048	.0813	12/06/10	026424
					.4546	.0799	12/14/10	026521
					.4188	.0909	12/20/10	026627
			NO ACTIVITY DETECTED					
					.0000	.0000	02/08/10	020745
					.0000	.0000	11/22/10	026192
			PB-212					
					.0016	.0031	01/25/10	020551
					.0099	.0051	03/08/10	021192
					.0075	.0054	07/26/10	024089
			PB-214					
					.0191	.0096	12/28/09	020076
					.0576	.0109	01/11/10	020259
					.0212	.0083	01/18/10	020360
					.0514	.0103	01/25/10	020551
					.0351	.0087	02/01/10	020643
					.0421	.0096	02/16/10	020852

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			GAMMA SCAN (GELI)					
				PB-214				
					.0778	.0155	02/22/10	020982
					.0450	.0100	03/01/10	021097
					.0346	.0109	03/08/10	021192
					.0239	.0087	03/15/10	021304
					.0511	.0087	04/05/10	021699
					.0182	.0066	04/12/10	021881
					.0464	.0095	04/19/10	022046
					.0345	.0109	04/26/10	022368
					.0201	.0086	05/03/10	022539
					.0406	.0085	05/10/10	022650
					.0448	.0127	05/17/10	022810
					.0464	.0097	05/24/10	022934
					.0416	.0099	05/31/10	023035
					.0272	.0114	06/07/10	023149
					.0801	.0169	06/21/10	023416
					.0426	.0085	06/28/10	023538
					.0410	.0072	07/06/10	023668
					.0371	.0137	07/12/10	023806
					.0894	.0125	07/19/10	023948
					.0536	.0116	07/26/10	024089
					.0627	.0127	08/09/10	024324
					.0561	.0150	08/16/10	024476
					.0357	.0118	08/23/10	024593
					.0467	.0095	08/30/10	024704
					.0705	.0181	09/06/10	024850
					.0426	.0125	09/13/10	024945

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S	GAMMA SCAN (GELI) PB-214		.0847	.0200	09/27/10	025185
					.3680	.0311	10/04/10	025316
					.0726	.0151	10/12/10	025414
					.0963	.0182	10/18/10	025523
					.1099	.0129	11/01/10	025835
					.1190	.0149	11/08/10	025939
					.0617	.0137	11/15/10	026043
					.1316	.0161	11/29/10	026329
					.0730	.0111	12/06/10	026424
					.1375	.0198	12/14/10	026521
					.0391	.0127	12/20/10	026627
3203	LM3	1.9 MILES NNE	GAMMA SCAN (GELI) BI-214		.0360	.0105	12/28/09	020087
					.1252	.0281	01/04/10	020169
					.0288	.0100	01/12/10	020264
					.0255	.0074	01/19/10	020365
					.0285	.0100	01/26/10	020563
					.0396	.0091	02/01/10	020645
					.0275	.0088	02/08/10	020750
					.0361	.0097	02/16/10	020857
					.0422	.0104	02/22/10	020993
					.0264	.0111	03/01/10	021099
					.0444	.0083	03/09/10	021198
					.0282	.0089	03/29/10	021584

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GAMMA SCAN (GELI)					
				BI-214				
					.0194	.0099	04/12/10	021886
					.0414	.0103	04/19/10	022057
					.0288	.0080	05/03/10	022545
					.0261	.0094	05/10/10	022655
					.0494	.0091	05/31/10	023041
					.0197	.0065	06/14/10	023334
					.0400	.0148	06/21/10	023418
					.0406	.0128	07/12/10	023818
					.0433	.0126	08/02/10	024202
					.0177	.0067	08/09/10	024335
					.0635	.0143	08/16/10	024478
					.0585	.0130	08/23/10	024599
					.0268	.0127	08/30/10	024710
					.0474	.0105	09/06/10	024861
					.0999	.0181	09/27/10	025190
					.2514	.0275	10/04/10	025327
					.2013	.0384	10/18/10	025528
					.0499	.0102	11/01/10	025846
					.0801	.0158	11/08/10	025941
					.0125	.0145	11/15/10	026049
					.1107	.0181	11/29/10	026340
					.0720	.0145	12/06/10	026426
					.1083	.0192	12/13/10	026526
				K-40				
					.2716	.0591	12/28/09	020087
					.3147	.0557	01/04/10	020169

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GAMMA SCAN (GELI)					
				K-40				
					.2649	.0439	01/12/10	020264
					.2846	.0745	02/01/10	020645
					.2505	.0551	02/08/10	020750
					.1741	.0580	02/16/10	020857
					.2010	.0492	03/01/10	021099
					.2133	.0521	03/09/10	021198
					.3575	.0790	04/12/10	021886
					.2722	.0599	05/03/10	022545
					.3172	.0593	05/10/10	022655
					.3021	.0617	07/12/10	023818
					.3904	.0743	08/09/10	024335
					.2859	.0614	08/16/10	024478
					.2320	.0547	09/06/10	024861
					.2936	.0573	09/20/10	025049
					.2936	.0682	09/27/10	025190
					.2812	.0592	10/04/10	025327
					.4444	.0806	10/18/10	025528
					.3398	.0628	10/25/10	025699
					.2982	.0702	11/01/10	025846
					.3815	.1103	11/08/10	025941
					.1808	.0455	11/15/10	026049
					.4519	.0807	11/29/10	026340
					.2260	.0718	12/06/10	026426
			NO ACTIVITY DETECTED					
					.0000	.0000	04/26/10	022374
					.0000	.0000	06/07/10	023154

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GAMMA SCAN (GELI)					
				NO ACTIVITY DETECTED				
					.0000	.0000	09/14/10	024947
					.0000	.0000	11/22/10	026197
				PB-212				
					.0097	.0055	05/31/10	023041
				PB-214				
					.0414	.0086	01/04/10	020169
					.0252	.0094	01/12/10	020264
					.0630	.0117	01/19/10	020365
					.0317	.0089	01/26/10	020563
					.0497	.0132	02/01/10	020645
					.0123	.0047	02/08/10	020750
					.0267	.0084	02/16/10	020857
					.0584	.0092	02/22/10	020993
					.0326	.0063	03/01/10	021099
					.0610	.0097	03/09/10	021198
					.0395	.0100	03/16/10	021309
					.0134	.0074	03/22/10	021497
					.0312	.0097	03/29/10	021584
					.0363	.0102	04/05/10	021705
					.0146	.0071	04/12/10	021886
					.0189	.0080	04/19/10	022057
					.0129	.0070	05/03/10	022545
					.0433	.0121	05/10/10	022655
					.0351	.0112	05/18/10	022821
					.0124	.0065	05/24/10	022936
					.0384	.0091	05/31/10	023041

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GAMMA SCAN (GELI)					
				PB-214				
					.0246	.0074	06/14/10	023334
					.0220	.0082	06/21/10	023418
					.0255	.0051	06/29/10	023545
					.0435	.0085	07/06/10	023674
					.0444	.0093	07/12/10	023818
					.0293	.0099	07/19/10	023950
					.0249	.0083	07/27/10	024095
					.0420	.0131	08/02/10	024202
					.0224	.0089	08/09/10	024335
					.0646	.0102	08/16/10	024478
					.0376	.0095	08/23/10	024599
					.0235	.0132	08/30/10	024710
					.0508	.0101	09/06/10	024861
					.0896	.0130	09/27/10	025190
					.2763	.0257	10/04/10	025327
					.0600	.0118	10/12/10	025416
					.1759	.0272	10/18/10	025528
					.1023	.0171	11/01/10	025846
					.1165	.0151	11/08/10	025941
					.0736	.0154	11/15/10	026049
					.1040	.0170	11/29/10	026340
					.0883	.0120	12/06/10	026426
					.1106	.0160	12/13/10	026526
					.0330	.0105	12/20/10	026632

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GAMMA SCAN (GELI)					
				BI-214				
					.0564	.0102	01/04/10	020171
					.0353	.0114	01/11/10	020267
					.0151	.0071	01/25/10	020566
					.0608	.0106	02/01/10	020647
					.0308	.0088	02/22/10	020996
					.0646	.0117	03/01/10	021101
					.0326	.0068	03/08/10	021201
					.0321	.0121	03/29/10	021586
					.0367	.0116	04/05/10	021708
					.0521	.0125	04/19/10	022060
					.0382	.0100	04/26/10	022376
					.0390	.0103	05/10/10	022657
					.0175	.0078	05/24/10	022938
					.0183	.0098	06/14/10	023337
					.0290	.0088	06/21/10	023420
					.0407	.0130	06/28/10	023549
					.0338	.0080	07/06/10	023676
					.0471	.0117	07/19/10	023952
					.0248	.0144	07/27/10	024098
					.0366	.0124	08/09/10	024338
					.0409	.0099	08/23/10	024602
					.0093	.0142	08/30/10	024712
					.0670	.0181	09/06/10	024864
					.0497	.0117	09/14/10	024949
					.0556	.0108	09/20/10	025052
					.0723	.0142	09/27/10	025192

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GAMMA SCAN (GELI)					
				BI-214				
					.1178	.0166	10/04/10	025330
					.0420	.0085	10/12/10	025418
					.1152	.0210	10/18/10	025531
					.0785	.0146	11/01/10	025849
					.2412	.0270	11/08/10	025943
					.0598	.0136	11/15/10	026052
					.0776	.0134	11/29/10	026343
					.3114	.0350	12/06/10	026428
					.5699	.0411	12/13/10	026529
					.0761	.0163	12/20/10	026634
				K-40				
					.2743	.0559	12/28/09	020090
					.3928	.0709	01/04/10	020171
					.1932	.0654	01/11/10	020267
					.2466	.0526	01/18/10	020367
					.2096	.0418	01/25/10	020566
					.3024	.0585	02/01/10	020647
					.1566	.0520	02/22/10	020996
					.1786	.0482	03/29/10	021586
					.2860	.0507	04/12/10	021888
					.2754	.0492	04/19/10	022060
					.1991	.0622	04/26/10	022376
					.1425	.0398	05/24/10	022938
					.3404	.0712	06/14/10	023337
					.2401	.0515	07/06/10	023676
					.4377	.0759	07/19/10	023952

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GAMMA SCAN (GELI)					
				K-40				
					.3050	.0630	07/27/10	024098
					.3078	.0638	08/23/10	024602
					.1892	.0558	08/30/10	024712
					.2370	.0518	09/14/10	024949
					.3860	.0716	09/20/10	025052
					.2741	.0769	09/27/10	025192
					.2947	.0644	10/04/10	025330
					.3449	.0740	10/12/10	025418
					.2397	.0533	10/18/10	025531
					.3388	.0728	10/25/10	025701
					.2648	.0828	11/01/10	025849
					.2566	.0572	11/08/10	025943
					.3826	.0818	11/29/10	026343
					.3542	.0704	12/13/10	026529
					.2438	.0550	12/20/10	026634
			NO ACTIVITY DETECTED					
					.0000	.0000	06/07/10	023156
					.0000	.0000	11/22/10	026199
			PB-214					
					.0318	.0097	12/28/09	020090
					.0496	.0085	01/04/10	020171
					.0650	.0127	01/11/10	020267
					.0214	.0075	01/18/10	020367
					.0140	.0054	01/25/10	020566
					.0564	.0114	02/01/10	020647
					.0403	.0070	02/08/10	020753

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GAMMA SCAN (GELI)					
				PB-214				
					.0457	.0107	02/16/10	020859
					.0478	.0114	02/22/10	020996
					.0531	.0092	03/01/10	021101
					.0420	.0124	03/08/10	021201
					.0190	.0065	03/15/10	021311
					.0358	.0095	03/22/10	021500
					.0430	.0092	03/29/10	021586
					.0311	.0094	04/05/10	021708
					.0071	.0060	04/12/10	021888
					.0461	.0112	04/19/10	022060
					.0361	.0098	04/26/10	022376
					.0356	.0134	05/03/10	022548
					.0224	.0067	05/10/10	022657
					.0295	.0126	05/17/10	022824
					.0481	.0119	05/31/10	023044
					.0435	.0107	06/14/10	023337
					.0384	.0094	06/21/10	023420
					.0343	.0098	06/28/10	023549
					.0270	.0060	07/06/10	023676
					.0565	.0124	07/12/10	023821
					.0358	.0091	07/19/10	023952
					.0701	.0140	07/27/10	024098
					.0541	.0091	08/02/10	024204
					.0298	.0085	08/09/10	024338
					.0779	.0116	08/16/10	024480
					.0395	.0085	08/23/10	024602

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI)	PB-214	.0217	.0142	08/30/10	024712
					.1137	.0178	09/06/10	024864
					.0455	.0100	09/14/10	024949
					.0584	.0140	09/20/10	025052
					.0872	.0101	09/27/10	025192
					.1419	.0165	10/04/10	025330
					.0550	.0100	10/12/10	025418
					.1202	.0223	10/18/10	025531
					.0916	.0108	11/01/10	025849
					.2479	.0247	11/08/10	025943
					.0774	.0106	11/15/10	026052
					.0857	.0118	11/29/10	026343
					.3407	.0352	12/06/10	026428
					.7403	.0476	12/13/10	026529
					.0900	.0165	12/20/10	026634
				TL-208	.0081	.0035	06/28/10	023549
3205	RM-3 WB	15 MILES NNW	GAMMA SCAN (GELI)	BI-214	.0147	.0069	12/28/09	020093
					.0427	.0105	01/04/10	020173
					.0260	.0082	01/11/10	020270
					.0511	.0104	01/25/10	020569
					.0383	.0103	02/01/10	020649
					.0339	.0064	02/16/10	020861

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
				BI-214				
					.0498	.0128	02/22/10	020999
					.0599	.0103	03/01/10	021103
					.0382	.0091	03/08/10	021204
					.0163	.0090	03/29/10	021588
					.0297	.0098	04/05/10	021711
					.0120	.0091	04/12/10	021890
					.0479	.0086	04/19/10	022063
					.0221	.0065	04/26/10	022378
					.0428	.0094	05/31/10	023047
					.0087	.0048	06/21/10	023422
					.0167	.0093	06/28/10	023553
					.0327	.0083	07/06/10	023678
					.1153	.0209	07/19/10	023954
					.0297	.0112	08/02/10	024206
					.0397	.0121	08/16/10	024482
					.0546	.0130	08/23/10	024605
					.0583	.0140	08/30/10	024714
					.0767	.0130	09/27/10	025194
					.0726	.0116	10/04/10	025333
					.0499	.0113	10/11/10	025420
					.0929	.0161	10/18/10	025534
					.1443	.0306	11/01/10	025852
					.1349	.0192	11/08/10	025945
					.0904	.0141	11/15/10	026055
					.0152	.0094	11/22/10	026201
					.1599	.0254	11/29/10	026346

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
				BI-214				
					.1575	.0232	12/06/10	026430
					.1891	.0285	12/13/10	026532
					.0668	.0175	12/20/10	026636
				K-40				
					.3792	.0887	12/28/09	020093
					.4033	.0530	01/04/10	020173
					.3747	.0691	01/11/10	020270
					.4479	.0787	03/01/10	021103
					.3723	.0669	03/08/10	021204
					.1712	.0553	03/29/10	021588
					.2370	.0593	04/05/10	021711
					.4176	.0915	04/12/10	021890
					.3353	.0551	04/26/10	022378
					.3193	.0618	06/28/10	023553
					.3104	.0380	07/19/10	023954
					.2530	.0545	08/09/10	024341
					.4274	.0873	08/16/10	024482
					.2269	.0526	08/23/10	024605
					.2739	.0599	08/30/10	024714
					.3270	.0741	09/27/10	025194
					.2999	.0636	10/11/10	025420
					.2704	.0459	11/08/10	025945
					.4128	.0698	11/15/10	026055
					.2554	.0617	11/22/10	026201
					.2457	.0651	11/29/10	026346
					.1706	.0443	12/06/10	026430

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
				K-40				
					.3112	.0595	12/13/10	026532
					.3267	.0657	12/20/10	026636
				NO ACTIVITY DETECTED				
					.0000	.0000	02/08/10	020756
					.0000	.0000	05/03/10	022551
					.0000	.0000	05/17/10	022827
					.0000	.0000	07/26/10	024101
					.0000	.0000	09/06/10	024867
					.0000	.0000	10/25/10	025703
				PB-212				
					.0078	.0041	04/26/10	022378
					.0054	.0052	08/02/10	024206
				PB-214				
					.0133	.0063	12/28/09	020093
					.0444	.0110	01/04/10	020173
					.0295	.0083	01/11/10	020270
					.0415	.0081	01/18/10	020369
					.0334	.0099	01/25/10	020569
					.0416	.0099	02/01/10	020649
					.0520	.0096	02/16/10	020861
					.0549	.0110	02/22/10	020999
					.0774	.0130	03/01/10	021103
					.0565	.0110	03/08/10	021204
					.0331	.0104	03/15/10	021313
					.0341	.0118	03/22/10	021503
					.0098	.0070	03/29/10	021588

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
				PB-214				
					.0376	.0078	04/05/10	021711
					.0088	.0067	04/12/10	021890
					.0385	.0109	04/19/10	022063
					.0314	.0077	04/26/10	022378
					.0241	.0096	05/10/10	022659
					.0314	.0086	05/24/10	022940
					.0344	.0075	05/31/10	023047
					.0160	.0064	06/07/10	023158
					.0170	.0053	06/14/10	023340
					.0357	.0091	07/06/10	023678
					.0149	.0096	07/12/10	023824
					.1049	.0161	07/19/10	023954
					.0624	.0137	08/02/10	024206
					.0373	.0098	08/16/10	024482
					.0328	.0120	08/23/10	024605
					.0354	.0092	08/30/10	024714
					.0324	.0070	09/13/10	024951
					.0427	.0109	09/20/10	025055
					.0724	.0143	09/27/10	025194
					.0758	.0109	10/04/10	025333
					.0446	.0114	10/11/10	025420
					.1070	.0184	10/18/10	025534
					.1469	.0247	11/01/10	025852
					.1552	.0225	11/08/10	025945
					.0872	.0140	11/15/10	026055
					.1990	.0218	11/29/10	026346

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
				PB-214	.2071	.0233	12/06/10	026430
					.2594	.0257	12/13/10	026532
					.0878	.0227	12/20/10	026636

Tennessee Valley Authority

Table 3
RADIOACTIVITY IN ATMOSPHERIC MOISTURE
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW						
			TRITIUM					
					- .6331	.7892	12/29/09	020096
					- .4497	2.0305	01/11/10	020273
					1.7054	.8459	01/25/10	020572
					5.5966	.9049	02/08/10	020759
					.6081	.5396	02/22/10	021002
					1.8183	.5809	03/08/10	021207
					2.1686	.8635	03/22/10	021506
					.4798	1.0311	04/05/10	021714
					1.6704	.9615	04/19/10	022066
					1.4383	1.1957	05/03/10	022554
					1.8638	1.3332	05/17/10	022830
					- .8105	1.4080	05/31/10	023050
					.2452	1.5527	06/14/10	023343
					.9735	1.6687	06/28/10	023557
					- .0211	1.8402	07/12/10	023827
					4.7440	2.3048	07/26/10	024104
					- .5602	2.4394	08/09/10	024344
					.2088	1.9762	08/23/10	024608
					2.7440	1.1953	09/06/10	024870
					1.2372	1.2645	09/20/10	025058
					- .6321	1.0433	10/04/10	025336
					2.1421	.9961	10/18/10	025537
					1.0387	.9508	11/01/10	025855
					1.1825	.7917	11/15/10	026058
					1.1824	.8224	11/29/10	026349
					.1189	.4141	12/13/10	026535

Tennessee Valley Authority

Table 3
RADIOACTIVITY IN ATMOSPHERIC MOISTURE
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			TRITIUM					
					5.9554	1.0526	12/29/09	020061
					1.0529	1.3200	01/12/10	020244
					6.2055	1.2795	01/26/10	020536
					4.2978	.7789	02/09/10	020730
					1.4248	.5434	02/23/10	020967
					3.7318	.6501	03/09/10	021177
					1.9655	.8374	03/22/10	021471
					.7633	.9187	04/06/10	021684
					2.1621	.9599	04/20/10	022031
					1.1041	1.2767	05/04/10	022524
					3.6514	1.3575	05/18/10	022795
					.1712	1.3680	06/01/10	023020
					3.0113	1.5431	06/15/10	023308
					1.9327	1.4967	06/29/10	023517
					1.8324	1.6611	07/13/10	023791
					4.5097	2.0787	07/26/10	024074
					.3886	1.9919	08/10/10	024309
					4.0071	1.8330	08/23/10	024578
					1.9113	1.3820	09/07/10	024835
					3.2051	1.3442	09/21/10	025029
					.2533	1.1139	10/05/10	025301
					2.4535	.9397	10/19/10	025508
					.0754	.9291	11/02/10	025820
					1.9925	.6586	11/16/10	026028
					.9290	.7788	11/30/10	026314
					.7843	.4195	12/14/10	026506

Tennessee Valley Authority

Table 3
RADIOACTIVITY IN ATMOSPHERIC MOISTURE
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			TRITIUM					
					8.8667	1.2124	12/29/09	020065
					.4811	3.1786	01/12/10	020248
					3.9286	.9340	01/26/10	020540
					1.7870	.6846	02/08/10	020734
					1.0809	.5199	02/23/10	020971
					.8787	.4851	03/08/10	021181
					4.5549	.9351	03/22/10	021475
					.6031	.8799	04/06/10	021688
					2.8813	.9848	04/20/10	022035
					2.5440	1.2597	05/04/10	022528
					3.5328	1.2864	05/18/10	022799
					.6084	1.3140	06/01/10	023024
					4.3608	1.4770	06/15/10	023312
					2.3754	1.3713	06/29/10	023522
					1.5408	1.6575	07/13/10	023795
					5.3561	2.4239	07/26/10	024078
					1.1150	2.1436	08/10/10	024313
					3.7745	2.2026	08/23/10	024582
					2.6408	1.4523	09/07/10	024839
					2.6325	1.6155	09/21/10	025033
					.7301	1.2050	10/05/10	025305
					2.7377	1.0524	10/19/10	025512
					1.1606	1.0952	11/02/10	025824
					1.9653	.7051	11/16/10	026032
					1.7872	1.0706	11/29/10	026318
					1.1254	.4767	12/14/10	026510

Tennessee Valley Authority

Table 3
RADIOACTIVITY IN ATMOSPHERIC MOISTURE
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			TRITIUM					
					5.9248	1.0382	12/28/09	020068
					2.9609	3.2584	01/11/10	020251
					1.5534	.8061	01/25/10	020543
					.2531	.6789	02/08/10	020737
					1.1751	.5572	02/22/10	020974
					1.1778	.4937	03/08/10	021184
					1.2841	.7694	03/22/10	021478
					1.8923	1.1649	04/05/10	021691
					2.6703	.9649	04/19/10	022038
					.0151	1.2613	05/03/10	022531
					1.5425	1.2724	05/17/10	022802
					1.3596	1.4024	05/31/10	023027
					1.2369	1.4206	06/14/10	023315
					1.8899	1.2440	06/28/10	023527
					.7212	1.3848	07/13/10	023798
					2.9969	1.8982	07/26/10	024081
					.1481	1.8535	08/09/10	024316
					2.0350	1.9307	08/23/10	024585
					2.5757	1.2292	09/06/10	024842
					1.4431	1.1367	09/20/10	025036
					.2022	.8894	10/04/10	025308
					1.0239	.7535	10/18/10	025515
					.6046	.8430	11/01/10	025827
					.7839	.6030	11/15/10	026035
					1.0093	.8031	11/29/10	026321
					.8519	.4765	12/13/10	026513

Tennessee Valley Authority

Table 3
RADIOACTIVITY IN ATMOSPHERIC MOISTURE
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			TRITIUM					
					4.2433	.9286	12/28/09	020075
					.2663	3.2827	01/11/10	020258
					3.2611	1.4253	01/25/10	020550
					.2605	.6409	02/08/10	020744
					1.2249	.5809	02/22/10	020981
					.8052	.4631	03/08/10	021191
					1.9870	.8004	03/22/10	021485
					.2150	.8520	04/05/10	021698
					.1196	.9192	04/19/10	022045
					1.3129	1.2033	05/03/10	022538
					1.1985	1.3649	05/17/10	022809
					.1485	1.2989	05/31/10	023034
					.7004	1.3525	06/14/10	023322
					1.5007	1.2247	06/28/10	023537
					.1024	1.2755	07/12/10	023805
					.7387	1.5831	07/26/10	024088
					.1285	1.8759	08/09/10	024323
					1.0910	1.5210	08/23/10	024592
					1.1310	1.1080	09/06/10	024849
					.8205	.8794	09/20/10	025043
					.1319	1.1621	10/04/10	025315
					1.5957	.8893	10/18/10	025522
					.2931	.8504	11/01/10	025834
					1.3080	.6612	11/15/10	026042
					.7364	.8566	11/29/10	026328
					.5754	.4074	12/14/10	026520

Tennessee Valley Authority

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RADIOACTIVITY IN ATMOSPHERIC MOISTURE
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			TRITIUM					
					12.4634	1.5565	12/28/09	020086
					.5814	.7609	01/12/10	020263
					3.9929	.9658	01/26/10	020562
					2.0594	.6546	02/08/10	020749
					.5919	.5201	02/22/10	020992
					.2460	.4938	03/09/10	021197
					2.1227	.8484	03/22/10	021496
					.1260	.9614	04/05/10	021704
					2.4906	.9188	04/19/10	022056
					1.8935	1.3301	05/03/10	022544
					3.6015	1.4821	05/18/10	022820
					.1929	1.3045	05/31/10	023040
					1.6612	1.3669	06/14/10	023333
					4.9915	1.6947	06/29/10	023544
					1.2117	1.7339	07/12/10	023817
					4.5239	1.7854	07/26/10	024094
					1.9438	2.0225	08/09/10	024334
					.5588	1.4516	08/23/10	024598
					.4980	1.2204	09/06/10	024860
					.0939	1.1262	09/20/10	025048
					.0471	1.0415	10/04/10	025326
					1.1913	.9220	10/18/10	025527
					.6232	.9588	11/01/10	025845
					.9943	.6657	11/15/10	026048
					.0792	.9060	11/29/10	026339
					1.1534	.4540	12/13/10	026525

Tennessee Valley Authority

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RADIOACTIVITY IN ATMOSPHERIC MOISTURE
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			TRITIUM					
					4.9306	.9622	12/28/09	020089
					.7555	1.0341	01/11/10	020266
					5.0563	.9868	01/25/10	020565
					1.5005	.5832	02/08/10	020752
					.6095	.5569	02/22/10	020995
					1.9831	.5400	03/08/10	021200
					3.0317	.8756	03/22/10	021499
					.4479	.7906	04/05/10	021707
					2.8631	.9695	04/19/10	022059
					1.5293	1.2371	05/03/10	022547
					2.6264	1.1980	05/17/10	022823
					- 1.6098	1.2624	05/31/10	023043
					2.0892	1.4179	06/14/10	023336
					2.1188	1.1802	06/28/10	023548
					- .3050	1.2630	07/12/10	023820
					3.4675	1.7363	07/26/10	024097
					- .6773	1.5893	08/09/10	024337
					1.0567	1.6281	08/23/10	024601
					1.2149	.9219	09/06/10	024863
					.7707	1.0942	09/20/10	025051
					.5673	.6993	10/04/10	025329
					2.5520	.8353	10/18/10	025530
					- .2641	.8404	11/01/10	025848
					.6612	.6490	11/15/10	026051
					.1548	.7988	11/29/10	026342
					.5498	.4187	12/13/10	026528

Tennessee Valley Authority

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WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			TRITIUM					
					8.7346	1.2025	12/28/09	020092
					2.8120	2.3346	01/11/10	020269
					1.7879	.8157	01/25/10	020568
					1.6400	.6217	02/08/10	020755
					1.3639	.8374	02/22/10	020998
					.9756	.4584	03/08/10	021203
					1.1856	.7739	03/22/10	021502
					1.1054	.8204	04/05/10	021710
					2.5708	.8900	04/19/10	022062
					1.0650	1.1414	05/03/10	022550
					.8052	1.0526	05/17/10	022826
					.1841	1.2449	05/31/10	023046
					.7255	1.2834	06/14/10	023339
					1.2827	1.4397	06/28/10	023552
					.9687	1.6175	07/12/10	023823
					1.8866	1.5038	07/26/10	024100
					.4043	1.5452	08/09/10	024340
					1.6246	1.5413	08/23/10	024604
					.6614	.8673	09/06/10	024866
					.9395	1.2520	09/20/10	025054
					.2500	.9651	10/04/10	025332
					2.1232	.7841	10/18/10	025533
					.2741	.7952	11/01/10	025851
					.9786	.5543	11/15/10	026054
					.4232	.7717	11/29/10	026345
					.6381	.3867	12/13/10	026531

Tennessee Valley Authority

Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2215	KYLE FARM	11.6 MILES ENE						
			IODINE-131					
					- .0143	.0452	12/28/09	020098
					.0074	.0476	01/11/10	020277
					.0001	.0878	01/25/10	020574
					.0292	.0487	02/08/10	020763
					.0725	.0875	02/22/10	021004
					.0512	.0534	03/08/10	021211
					.0607	.0633	03/22/10	021508
					.0441	.0625	04/05/10	021718
					- .0205	.0481	04/19/10	022068
					- .1857	.1649	05/03/10	022558
					.0126	.0470	05/17/10	022832
					.0084	.0538	05/31/10	023054
					- .0119	.0377	06/14/10	023345
					- .1052	.0653	06/28/10	023563
					.0086	.0551	07/12/10	023829
					.0924	.0963	07/26/10	024108
					.1785	.1862	08/09/10	024346
					- .0253	.0760	08/24/10	024612
					- .0201	.0473	09/06/10	024872
					- .0246	.0737	09/20/10	025063
					.0324	.0542	10/04/10	025338
					.0413	.0690	10/18/10	025542
					.0001	.0944	11/01/10	025857
					.0335	.0559	11/15/10	026062
					- .0247	.0743	11/29/10	026351
					.0539	.0562	12/13/10	026539

Tennessee Valley Authority

Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2215	KYLE FARM	11.6 MILES ENE						
			GAMMA SCAN (GELI)					
				AC-228				
					2.1736	4.0649	01/25/10	020574
					11.9336	4.6139	05/03/10	022558
					5.0009	3.4882	08/09/10	024346
					7.8401	5.8418	09/20/10	025063
					8.6586	5.4427	10/18/10	025542
					7.5459	4.3067	12/13/10	026539
				BI-214				
					8.5382	3.5982	12/28/09	020098
					32.7991	5.3909	01/11/10	020277
					19.3627	4.7197	01/25/10	020574
					1.7691	2.9960	02/08/10	020763
					25.6843	4.9918	02/22/10	021004
					12.1731	3.7260	03/08/10	021211
					91.4233	10.8022	03/22/10	021508
					13.5885	3.7059	04/05/10	021718
					6.7248	4.4527	04/19/10	022068
					30.7565	10.3622	05/03/10	022558
					15.6095	2.6434	05/17/10	022832
					18.4115	14.7879	06/14/10	023345
					13.9553	4.9745	06/28/10	023563
					14.0725	3.9780	07/12/10	023829
					29.9867	4.9137	07/26/10	024108
					12.4201	2.9103	08/09/10	024346
					36.5960	5.7589	08/24/10	024612
					33.2497	5.4453	09/06/10	024872
					21.6817	4.6696	09/20/10	025063

Tennessee Valley Authority

Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2215	KYLE FARM	11.6 MILES ENE						
			GAMMA SCAN (GELI)					
				BI-214				
					47.3238	6.4895	10/04/10	025338
					44.7075	7.1097	10/18/10	025542
					54.7044	8.5807	11/01/10	025857
					39.2782	5.7982	11/15/10	026062
					20.2411	4.0346	12/13/10	026539
				K-40				
					1350.0974	99.3634	12/28/09	020098
					1261.0976	92.4846	01/11/10	020277
					1388.5147	93.8309	01/25/10	020574
					1260.2211	91.6229	02/08/10	020763
					1255.5092	82.5887	02/22/10	021004
					1358.9910	86.5795	03/08/10	021211
					1633.0785	126.1978	03/22/10	021508
					1364.2964	98.2472	04/05/10	021718
					1312.9937	90.3486	04/19/10	022068
					1337.9637	91.0353	05/03/10	022558
					1326.2427	84.2369	05/17/10	022832
					1338.3703	90.5147	05/31/10	023054
					1073.2415	100.1019	06/14/10	023345
					1230.7959	162.3735	06/28/10	023563
					1373.7978	99.2517	07/12/10	023829
					1158.3895	94.4595	07/26/10	024108
					1371.2707	85.5003	08/09/10	024346
					1180.4211	120.2143	08/24/10	024612
					1252.9998	96.2355	09/06/10	024872
					1176.9812	87.1975	09/20/10	025063

Tennessee Valley Authority

Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2215	KYLE FARM	11.6 MILES ENE						
			GAMMA SCAN (GELI)					
				K-40				
					1227.4104	94.1035	10/04/10	025338
					1202.9887	94.6475	10/18/10	025542
					1185.9675	85.3778	11/01/10	025857
					1279.9696	87.6541	11/15/10	026062
					1293.5079	91.6140	11/29/10	026351
					1214.2943	111.1152	12/13/10	026539
				PB-212				
					1.3168	2.2290	12/28/09	020098
					.1535	1.7564	01/11/10	020277
					.4842	3.3280	03/22/10	021508
					1.3392	2.5684	04/19/10	022068
					4.3401	1.9151	05/03/10	022558
					3.6126	2.5435	11/15/10	026062
				PB-214				
					7.6539	5.1225	12/28/09	020098
					22.7175	5.4172	01/11/10	020277
					2.0731	2.4281	01/25/10	020574
					24.2659	4.3799	02/22/10	021004
					15.5397	2.9211	03/08/10	021211
					68.7157	8.1750	03/22/10	021508
					11.5306	4.0587	04/05/10	021718
					7.5789	2.4843	04/19/10	022068
					5.1940	2.5351	05/03/10	022558
					6.7023	3.1979	05/17/10	022832
					3.3717	3.5078	05/31/10	023054
					10.3483	4.6124	06/14/10	023345

Tennessee Valley Authority

Table 4
 RADIOACTIVITY IN MILK
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2215	KYLE FARM	11.6 MILES ENE						
			GAMMA SCAN (GELI)					
				PB-214				
					23.3150	6.3508	06/28/10	023563
					21.5716	6.5734	07/12/10	023829
					30.2563	7.8683	07/26/10	024108
					10.6197	3.1010	08/09/10	024346
					22.1514	5.4038	08/24/10	024612
					33.4940	7.4909	09/06/10	024872
					20.4097	4.3012	09/20/10	025063
					32.5864	6.7167	10/04/10	025338
					26.6544	5.1050	10/18/10	025542
					35.2866	6.9501	11/01/10	025857
					41.1387	6.4218	11/15/10	026062
					17.3583	3.6691	12/13/10	026539
				TL-208				
					2.8644	2.3097	03/22/10	021508
					3.5835	1.0705	04/05/10	021718
					2.0600	1.4703	04/19/10	022068
					4.5598	2.2816	05/03/10	022558
			SR 89					
					- .9144	.8148	02/22/10	021004
					- .1924	.7553	05/17/10	022832
					1.9971	.8872	08/09/10	024346
					.6390	.8849	11/15/10	026062
			SR 90					
					1.2883	.4941	02/22/10	021004
					.1990	.4066	05/17/10	022832

Tennessee Valley Authority

Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2215	KYLE FARM	11.6 MILES ENE	SR 90					
					- .3017	.5063	08/09/10	024346
					.5565	.5582	11/15/10	026062
2263	E. HOUSLEY FARM	24.0 MILES SSW	IODINE-131					
					.0727	.0686	12/28/09	020059
					.0134	.0500	01/11/10	020242
					.0681	.0643	01/25/10	020534
					.0661	.0797	02/08/10	020728
					.0001	.0870	02/22/10	020965
					.0934	.1127	03/08/10	021175
					.0564	.0532	03/22/10	021469
					.0668	.0630	04/05/10	021682
					.0695	.0656	04/19/10	022029
					.0141	.0904	05/03/10	022522
					.0358	.0507	05/18/10	022793
					.0406	.0679	05/31/10	023018
					.0346	.1146	06/14/10	023306
					.0935	.0975	06/28/10	023515
					.0081	.0517	07/12/10	023789
					- .1488	.0923	07/26/10	024072
					.1626	.1695	08/09/10	024307
					- .0138	.0436	08/24/10	024576
					.0136	.0509	09/07/10	024833
					.0373	.0623	09/20/10	025026
					.0372	.0527	10/05/10	025299

Tennessee Valley Authority

Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2263	E. HOUSLEY FARM	24.0 MILES SSW						
			IODINE-131					
					.0001	.0664	10/20/10	025506
					.0198	.0466	11/01/10	025818
					.0001	.0731	11/15/10	026026
					.0128	.0480	11/29/10	026312
					.0605	.0631	12/13/10	026504
			GAMMA SCAN (GELI)					
			AC-228					
					6.4978	3.9005	02/08/10	020728
					10.4660	4.2232	02/22/10	020965
					13.8114	5.2359	03/08/10	021175
					6.7370	4.5709	05/18/10	022793
					9.4985	5.2389	07/12/10	023789
					1.5223	3.3209	09/20/10	025026
					2.6203	3.2553	12/13/10	026504
			BI-214					
					12.2367	3.9336	12/28/09	020059
					32.9286	5.2702	01/11/10	020242
					13.9556	9.9264	01/25/10	020534
					4.1429	2.7284	02/08/10	020728
					12.7552	3.1608	02/22/10	020965
					18.4717	3.6395	03/08/10	021175
					12.8197	11.0713	03/22/10	021469
					5.8570	4.0004	04/05/10	021682
					10.7012	2.7343	04/19/10	022029
					4.2894	2.0043	05/03/10	022522
					5.4331	3.1162	05/18/10	022793

Tennessee Valley Authority

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 RADIOACTIVITY IN MILK
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2263	E. HOUSLEY FARM	24.0 MILES SSW						
			GAMMA SCAN (GELI)					
				BI-214				
					9.7321	4.0772	05/31/10	023018
					8.4481	3.8595	06/14/10	023306
					9.2123	2.7669	06/28/10	023515
					8.1003	2.9527	07/12/10	023789
					12.8343	3.5218	07/26/10	024072
					14.8086	5.7370	08/09/10	024307
					35.5777	4.9519	08/24/10	024576
					13.6025	3.8605	09/20/10	025026
					15.5153	3.8808	11/15/10	026026
					23.0883	5.7704	11/29/10	026312
					32.6695	3.8978	12/13/10	026504
				K-40				
					1182.6608	96.4476	12/28/09	020059
					1259.5343	93.0110	01/11/10	020242
					1380.7461	88.9177	01/25/10	020534
					1268.9233	87.8002	02/08/10	020728
					1325.2913	87.8647	02/22/10	020965
					1227.5172	93.4467	03/08/10	021175
					1307.0274	92.5971	03/22/10	021469
					1298.6409	94.7037	04/05/10	021682
					1291.2223	92.3100	04/19/10	022029
					1271.4442	85.5846	05/03/10	022522
					1347.6667	90.8132	05/18/10	022793
					1227.5692	168.7545	05/31/10	023018
					1270.1649	89.9679	06/14/10	023306
					1151.4665	90.6443	06/28/10	023515

Tennessee Valley Authority

Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2263	E. HOUSLEY FARM	24.0 MILES SSW						
			GAMMA SCAN (GELI)					
				K-40				
					1383.2773	94.3214	07/12/10	023789
					1254.7382	88.5594	07/26/10	024072
					1319.1912	93.1383	08/09/10	024307
					1215.2435	87.5386	08/24/10	024576
					1272.1096	85.4168	09/07/10	024833
					1163.8834	101.7348	09/20/10	025026
					1341.1741	98.8566	10/05/10	025299
					1167.6401	77.8058	10/20/10	025506
					1195.5664	86.8381	11/01/10	025818
					1268.6886	89.5575	11/15/10	026026
					1229.0513	79.7015	11/29/10	026312
					1166.3133	78.4948	12/13/10	026504
				PB-212				
					7.4838	2.2197	02/08/10	020728
					7.3678	2.7586	02/22/10	020965
					4.5026	2.1109	03/08/10	021175
					1.1143	2.5031	05/03/10	022522
					3.1019	2.0323	05/18/10	022793
					.5741	1.5244	10/05/10	025299
					1.4637	1.8807	10/20/10	025506
					2.3582	2.0914	11/01/10	025818
				PB-214				
					28.9116	8.1159	01/11/10	020242
					3.7737	2.4569	01/25/10	020534
					6.0242	3.3239	02/08/10	020728
					10.0225	3.1074	02/22/10	020965

Tennessee Valley Authority

Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2263	E. HOUSLEY FARM	24.0 MILES SSW	GAMMA SCAN (GELI) PB-214		10.4411	5.0156	03/08/10	021175
					4.0448	3.4906	03/22/10	021469
					2.5343	3.1660	04/05/10	021682
					8.8261	4.0851	04/19/10	022029
					4.3843	1.9156	05/03/10	022522
					3.6634	3.1429	05/18/10	022793
					2.7499	2.2648	05/31/10	023018
					3.8362	3.1711	06/14/10	023306
					5.7525	2.9638	06/28/10	023515
					7.6969	3.5001	07/12/10	023789
					6.8600	2.6463	07/26/10	024072
					12.9688	2.7261	08/09/10	024307
					34.5066	5.9728	08/24/10	024576
					5.7659	2.9533	09/20/10	025026
					10.0713	3.1685	11/15/10	026026
					14.2121	4.1424	11/29/10	026312
					31.2483	6.1381	12/13/10	026504
			TL-208		4.2059	1.3085	02/08/10	020728
					1.4879	.9097	02/22/10	020965
					1.6517	1.3028	03/08/10	021175
					.6248	1.3337	05/03/10	022522
					1.7087	1.1857	05/18/10	022793
					1.2346	1.8593	09/20/10	025026
					2.1165	2.2287	12/13/10	026504

Tennessee Valley Authority

Table 4
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WATTS BAR NUCLEAR PLANT
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12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2263	E. HOUSLEY FARM	24.0 MILES SSW	SR 89					
					- .6791	.7756	02/22/10	020965
					.7398	.7308	05/18/10	022793
					.8153	.9852	08/09/10	024307
					.0137	.7619	11/15/10	026026
			SR 90					
					1.1275	.4645	02/22/10	020965
					.0710	.3886	05/18/10	022793
					.8681	.5803	08/09/10	024307
					.4670	.4919	11/15/10	026026
3115	LAYMAN FARM	1.3 MILES SSW	IODINE-131					
					.0123	.0461	12/28/09	020077
					- .0150	.0353	01/12/10	020260
					.0291	.0413	01/26/10	020552
					- .0095	.0300	02/09/10	020746
					.0382	.0662	02/23/10	020983
					.0505	.0527	03/09/10	021193
					.0081	.0519	03/23/10	021487
					.0076	.0490	04/06/10	021700
					.0075	.0481	04/19/10	022047
					.0513	.0857	05/04/10	022540
					.0292	.0489	05/18/10	022811
					.0207	.0686	06/01/10	023036
					.0107	.0399	06/15/10	023324
					- .0658	.0584	06/29/10	023540

Tennessee Valley Authority

Table 4
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WATTS BAR NUCLEAR PLANT
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12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3115	LAYMAN FARM	1.3 MILES SSW						
			IODINE-131					
					.0075	.0484	07/12/10	023807
				-	.0348	.1101	07/26/10	024090
				-	.0637	.0903	08/10/10	024325
					.0927	.0733	08/23/10	024594
					.0302	.0505	09/07/10	024851
				-	.0454	.0643	09/21/10	025045
					.0338	.0564	10/05/10	025317
					.0215	.0713	10/19/10	025524
				-	.0455	.0644	11/02/10	025836
					.0592	.0617	11/16/10	026044
				-	.0177	.0416	11/30/10	026330
				-	.0414	.0588	12/13/10	026522
			GAMMA SCAN (GELI)					
			AC-228					
					6.2470	3.4575	05/04/10	022540
					4.1893	3.7192	06/01/10	023036
					6.9953	3.5522	11/30/10	026330
			BI-214					
					3.5462	2.7494	12/28/09	020077
					26.2670	4.7246	01/12/10	020260
					21.7015	3.8672	01/26/10	020552
					1.0933	2.9464	02/09/10	020746
					6.1456	2.9109	02/23/10	020983
					18.9284	3.3818	03/09/10	021193
					28.9884	5.8983	03/23/10	021487
					10.1449	3.0881	04/06/10	021700

Tennessee Valley Authority

Table 4
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WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3115	LAYMAN FARM	1.3 MILES SSW						
			GAMMA SCAN (GELI)					
				BI-214				
					5.3280	3.1995	04/19/10	022047
					10.3419	4.3831	05/04/10	022540
					9.4330	4.3768	05/18/10	022811
					11.5009	4.0514	06/01/10	023036
					32.1370	12.3977	06/15/10	023324
					12.2038	3.0418	06/29/10	023540
					27.9360	5.2185	07/12/10	023807
					18.8689	4.3081	11/30/10	026330
					1.1042	4.3335	12/13/10	026522
				K-40				
					1441.7151	99.9259	12/28/09	020077
					1450.6430	102.2452	01/12/10	020260
					1423.0353	96.8099	01/26/10	020552
					1433.1046	91.4284	02/09/10	020746
					1470.3900	101.2443	02/23/10	020983
					1404.4432	89.8720	03/09/10	021193
					1445.9059	108.9387	03/23/10	021487
					1453.9362	90.7751	04/06/10	021700
					1360.3363	81.3617	04/19/10	022047
					1470.7338	106.7588	05/04/10	022540
					1350.6664	86.9195	05/18/10	022811
					1348.3404	88.3936	06/01/10	023036
					1246.3165	107.4598	06/15/10	023324
					1349.5820	90.6775	06/29/10	023540
					1188.3309	116.3219	07/12/10	023807
					1239.5145	70.9379	07/26/10	024090

Tennessee Valley Authority

Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3115	LAYMAN FARM	1.3 MILES SSW						
			GAMMA SCAN (GELI)					
				K-40				
					1356.4306	90.8654	08/10/10	024325
					1349.8181	76.6422	08/23/10	024594
					1303.7439	86.6480	09/07/10	024851
					1405.4571	83.4268	09/21/10	025045
					1311.1095	83.1369	10/05/10	025317
					1324.3087	85.9875	10/19/10	025524
					1305.9566	101.5973	11/02/10	025836
					1374.5674	88.9092	11/16/10	026044
					1284.5756	88.8017	11/30/10	026330
					1343.2434	84.1528	12/13/10	026522
				PB-212				
					8.2247	2.3256	12/28/09	020077
					6.2295	2.3517	03/09/10	021193
					1.7236	2.7214	03/23/10	021487
					2.3054	1.8098	05/04/10	022540
					.1166	1.8477	08/23/10	024594
					.8422	1.2676	09/07/10	024851
					.4595	1.7266	09/21/10	025045
					.3337	1.5371	10/05/10	025317
					1.7332	1.5276	11/02/10	025836
				PB-214				
					4.4119	2.4783	12/28/09	020077
					18.9973	4.7002	01/12/10	020260
					15.9659	3.6583	01/26/10	020552
					12.2503	4.3634	02/23/10	020983
					20.2017	3.4351	03/09/10	021193

Tennessee Valley Authority

Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3115	LAYMAN FARM	1.3 MILES SSW						
			GAMMA SCAN (GELI)					
				PB-214				
					20.6306	5.6664	03/23/10	021487
					5.2719	2.3399	04/06/10	021700
					9.1819	2.9405	04/19/10	022047
					3.9673	2.2816	06/01/10	023036
					6.9767	2.8805	06/15/10	023324
					8.4931	3.0027	06/29/10	023540
					21.0430	5.3127	07/12/10	023807
					13.8049	3.4218	11/30/10	026330
				TL-208				
					3.0205	1.9489	12/28/09	020077
					1.0525	1.7792	01/12/10	020260
					1.9374	1.3189	05/04/10	022540
			SR 89					
					.9176	.8108	02/23/10	020983
					1.0523	.7863	05/18/10	022811
					2.1689	.8166	08/10/10	024325
					- .0500	2.5784	11/16/10	026044
			SR 90					
					.1102	.4743	02/23/10	020983
					- .0086	.4219	05/18/10	022811
					- .9430	.4649	08/10/10	024325
					.6888	1.5351	11/16/10	026044

Tennessee Valley Authority

Table 4 -
 RADIOACTIVITY IN MILK
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3119	NORTON FARM	4.1 MILES ESE						
			IODINE-131					
					.0323	.0540	12/29/09	020079
					.0108	.0403	01/11/10	020261
				-	.0157	.0370	01/25/10	020554
					.0112	.0419	02/08/10	020747
					.1090	.1315	02/22/10	020985
					.0339	.0480	03/08/10	021195
				-	.0212	.0638	03/23/10	021489
					.0624	.0651	04/05/10	021702
					.0588	.0555	04/19/10	022049
				-	.0444	.1332	05/03/10	022542
				-	.0683	.0606	05/17/10	022813
				-	.0440	.0624	05/31/10	023038
				-	.0211	.0633	06/14/10	023326
				-	.0232	.0695	06/28/10	023541
					.0073	.0466	07/12/10	023809
				-	.0247	.0579	07/26/10	024092
					.1663	.1569	08/09/10	024327
				-	.0729	.0647	08/24/10	024595
				-	.0491	.0696	09/06/10	024853
					.0001	.0768	09/20/10	025046
				-	.0542	.0768	10/04/10	025319
					.0129	.0483	10/18/10	025525
					.0728	.0760	11/01/10	025838
				-	.0114	.0360	11/15/10	026046
					.0342	.0572	11/29/10	026332
					.0565	.0533	12/13/10	026523

Tennessee Valley Authority

Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3119	NORTON FARM	4.1 MILES ESE						
			GAMMA SCAN (GELI)					
				AC-228				
					5.8681	3.1308	01/25/10	020554
					5.2487	4.0064	09/06/10	024853
					21.9304	6.3476	09/20/10	025046
				BI-214				
					4.7152	3.0663	12/29/09	020079
					10.8379	4.1527	01/11/10	020261
					15.0936	3.7220	01/25/10	020554
					6.0810	3.3156	02/08/10	020747
					10.2519	3.8546	02/22/10	020985
					19.5427	4.9490	03/08/10	021195
					31.9223	5.4178	03/23/10	021489
					15.4576	3.8220	04/05/10	021702
					10.2035	3.8699	04/19/10	022049
					20.8841	11.3835	05/03/10	022542
					9.7995	3.0620	05/17/10	022813
					11.4247	10.3806	05/31/10	023038
					23.7215	5.6155	06/28/10	023541
					6.5464	3.6053	07/12/10	023809
					12.5167	3.5650	07/26/10	024092
					22.1782	3.9960	09/06/10	024853
					13.8134	3.4429	09/20/10	025046
					21.4959	4.7257	10/04/10	025319
					20.0331	4.1522	11/01/10	025838
					7.2976	2.8200	11/15/10	026046
					23.7297	4.9384	11/29/10	026332

Tennessee Valley Authority

Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3119	NORTON FARM	4.1 MILES ESE	GAMMA SCAN (GELI)	K-40				
					1387.9192	102.0478	12/29/09	020079
					1334.2036	85.9858	01/11/10	020261
					1367.7245	93.1959	01/25/10	020554
					1321.3520	88.9725	02/08/10	020747
					1340.0512	81.8654	02/22/10	020985
					1312.0873	92.1133	03/08/10	021195
					1498.3422	86.9609	03/23/10	021489
					638.1655	83.4046	04/05/10	021702
					1186.7021	104.2643	04/19/10	022049
					1423.7935	102.7769	05/03/10	022542
					1321.3445	89.8474	05/17/10	022813
					1212.0303	79.5353	05/31/10	023038
					1162.3801	98.9137	06/14/10	023326
					1239.0425	103.2072	06/28/10	023541
					1234.1034	83.6453	07/12/10	023809
					1269.0476	86.3330	07/26/10	024092
					1340.5481	95.9196	08/09/10	024327
					1378.1074	96.3789	08/24/10	024595
					1297.3994	88.2287	09/06/10	024853
					1244.4121	78.6573	09/20/10	025046
					1221.5219	76.0104	10/04/10	025319
					1195.1511	81.8256	10/18/10	025525
					1340.7342	78.1555	11/01/10	025838
					1217.9493	87.4168	11/15/10	026046
					1197.0148	85.7135	11/29/10	026332
					1261.4094	84.8111	12/13/10	026523

Tennessee Valley Authority

Table 4
 RADIOACTIVITY IN MILK
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3119	NORTON FARM	4.1 MILES ESE						
			GAMMA SCAN (GELI)					
				PB-212				
					3.8004	1.8575	01/25/10	020554
					.9309	2.6225	05/03/10	022542
					.7442	1.3042	08/09/10	024327
				PB-214				
					.6769	2.4071	12/29/09	020079
					4.6939	2.6196	01/11/10	020261
					7.4872	3.2564	01/25/10	020554
					7.5832	2.7523	02/08/10	020747
					12.3707	3.0237	02/22/10	020985
					21.0794	5.2478	03/08/10	021195
					29.2676	4.1097	03/23/10	021489
					8.8141	3.6586	04/05/10	021702
					14.2147	4.4035	04/19/10	022049
					7.0088	3.5641	05/03/10	022542
					1.8070	2.6118	05/17/10	022813
					4.7934	2.5626	05/31/10	023038
					12.6158	4.0619	06/14/10	023326
					23.6114	4.1939	06/28/10	023541
					1.9342	2.9579	07/12/10	023809
					10.5073	3.2889	07/26/10	024092
					18.6513	3.8639	09/06/10	024853
					11.3476	3.8802	09/20/10	025046
					16.8485	3.3075	10/04/10	025319
					14.9871	3.0200	11/01/10	025838
					9.5872	3.2480	11/15/10	026046
					32.9588	6.1983	11/29/10	026332

Tennessee Valley Authority

Table 4
 RADIOACTIVITY IN MILK
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3119	NORTON FARM	4.1 MILES ESE						
				GAMMA SCAN (GELI)				
				TL-208				
					3.7525	1.3289	01/25/10	020554
					1.8600	.9501	08/24/10	024595
			SR 89					
					.2392	.6802	05/17/10	022813
					3.3475	.9239	08/09/10	024327
					1.6662	.8854	11/15/10	026046
			SR 90					
					.5903	.3775	05/17/10	022813
					- 1.4008	.5131	08/09/10	024327
					- .1759	.5478	11/15/10	026046

Tennessee Valley Authority

Table 5
RADIOACTIVITY IN SOIL
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
				AC-228				
					.8038	.0661	06/28/10	023561
				BE-7				
					.2467	.0557	06/28/10	023561
				BI-212				
					.9933	.1712	06/28/10	023561
				BI-214				
					.8697	.0536	06/28/10	023561
				CS-137				
					.1346	.0153	06/28/10	023561
				K-40				
					4.5103	.2939	06/28/10	023561
				LA-140				
					.4636	.1083	06/28/10	023561
				PB-212				
					.7945	.0519	06/28/10	023561
				PB-214				
					.9326	.0464	06/28/10	023561
				RA-226				
					.8697	.0536	06/28/10	023561
				TL-208				
					.2546	.0179	06/28/10	023561
			SR 89					
					.0378	.6420	06/28/10	023561
			SR 90					
					.1070	.1470	06/28/10	023561

Tennessee Valley Authority

Table 5
 RADIOACTIVITY IN SOIL
 WATTS BAR NUCLEAR PLANT
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			GAMMA SCAN (GELI)					
				AC-228				
					1.2581	.0821	06/29/10	023519
				BE-7				
					.2070	.0513	06/29/10	023519
				BI-212				
					1.3614	.1526	06/29/10	023519
				BI-214				
					.9272	.0477	06/29/10	023519
				CS-137				
					.0834	.0106	06/29/10	023519
				K-40				
					13.7963	.7119	06/29/10	023519
				PB-212				
					1.1755	.0745	06/29/10	023519
				PB-214				
					1.0426	.0621	06/29/10	023519
				RA-226				
					.9272	.0477	06/29/10	023519
				TL-208				
					.3943	.0206	06/29/10	023519
			SR 89					
					.3600	.5780	06/29/10	023519
			SR 90					
					.0974	.1560	06/29/10	023519

Tennessee Valley Authority

Table 5
RADIOACTIVITY IN SOIL
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			GAMMA SCAN (GELI)					
				AC-228	1.1211	.0716	06/29/10	023524
				BE-7	.2899	.0608	06/29/10	023524
				BI-212	1.2309	.1235	06/29/10	023524
				BI-214	.7858	.0469	06/29/10	023524
				CS-137	.3001	.0211	06/29/10	023524
				K-40	11.2025	.5427	06/29/10	023524
				PB-212	1.0322	.0600	06/29/10	023524
				PB-214	.8499	.0533	06/29/10	023524
				RA-226	.7858	.0469	06/29/10	023524
				TL-208	.3331	.0181	06/29/10	023524
			SR 89					
					.2770	.5870	06/29/10	023524
			SR 90					
					.0653	.1510	06/29/10	023524

Tennessee Valley Authority

Table 5
RADIOACTIVITY IN SOIL
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI)					
				AC-228	1.2640	.0851	06/28/10	023529
				BI-212	1.3616	.1378	06/28/10	023529
				BI-214	.7921	.0458	06/28/10	023529
				CS-137	.8977	.0445	06/28/10	023529
				K-40	20.4330	.8968	06/28/10	023529
				PB-212	1.1842	.0697	06/28/10	023529
				PB-214	.8380	.0506	06/28/10	023529
				RA-226	.7921	.0458	06/28/10	023529
				TL-208	.4261	.0260	06/28/10	023529
			SR 89					
					.0957	.4450	06/28/10	023529
			SR 90					
					.1840	.1390	06/28/10	023529
3107	PM3	10.4 MILES NNE	GAMMA SCAN (GELI)					
				AC-228	.9334	.0672	06/28/10	023532

Tennessee Valley Authority

Table 5
RADIOACTIVITY IN SOIL
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GAMMA SCAN (GELI)					
				BE-7				
					.2090	.0482	06/28/10	023532
				BI-212				
					.8792	.0867	06/28/10	023532
				BI-214				
					.8902	.0500	06/28/10	023532
				CS-137				
					.2042	.0153	06/28/10	023532
				K-40				
					4.1013	.2881	06/28/10	023532
				PB-212				
					.8656	.0548	06/28/10	023532
				PB-214				
					.9985	.0460	06/28/10	023532
				RA-226				
					.8902	.0500	06/28/10	023532
				TL-208				
					.2950	.0161	06/28/10	023532
			SR 89					
					.0419	.6310	06/28/10	023532
			SR 90					
					.2110	.1990	06/28/10	023532
3108	PM4	7.6 MILES NE/ENE						
			GAMMA SCAN (GELI)					
				AC-228				
					1.1103	.0774	06/28/10	023535

Tennessee Valley Authority

Table 5
RADIOACTIVITY IN SOIL
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE		GAMMA SCAN (GELI)				
				BE-7	.3237	.0547	06/28/10	023535
				BI-212	1.1772	.1202	06/28/10	023535
				BI-214	.8285	.0487	06/28/10	023535
				CS-137	.0514	.0077	06/28/10	023535
				K-40	4.9804	.2786	06/28/10	023535
				PB-212	1.0664	.0710	06/28/10	023535
				PB-214	.8917	.0537	06/28/10	023535
				RA-226	.8285	.0487	06/28/10	023535
				TL-208	.3556	.0200	06/28/10	023535
			SR 89		.9200	.8390	06/28/10	023535
			SR 90		.0552	.1490	06/28/10	023535
3109	PM5 DECATUR	8.0 MILES S		GAMMA SCAN (GELI)				
				AC-228	1.1595	.0771	06/28/10	023539

Tennessee Valley Authority

Table 5
RADIOACTIVITY IN SOIL
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			GAMMA SCAN (GELI)					
				BE-7	.5148	.0709	06/28/10	023539
				BI-212	1.2521	.1070	06/28/10	023539
				BI-214	.8036	.0424	06/28/10	023539
				CS-137	.0484	.0086	06/28/10	023539
				K-40	11.7006	.5465	06/28/10	023539
				PB-212	1.2174	.0600	06/28/10	023539
				PB-214	.8421	.0417	06/28/10	023539
				RA-226	.8036	.0424	06/28/10	023539
				TL-208	.4040	.0242	06/28/10	023539
			SR 89		.4500	.7040	06/28/10	023539
			SR 90		.1510	.1570	06/28/10	023539
3203	LM3	1.9 MILES NNE						
			GAMMA SCAN (GELI)					
				AC-228	1.1414	.0828	06/29/10	023546

Tennessee Valley Authority

Table 5
RADIOACTIVITY IN SOIL
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GAMMA SCAN (GELI)					
				BI-212	1.1599	.1972	06/29/10	023546
				BI-214	.9825	.0579	06/29/10	023546
				CS-137	.1388	.0166	06/29/10	023546
				K-40	6.7104	.4316	06/29/10	023546
				PB-212	1.1594	.0653	06/29/10	023546
				PB-214	1.0899	.0534	06/29/10	023546
				RA-226	.9825	.0579	06/29/10	023546
				TL-208	.3892	.0227	06/29/10	023546
			SR 89		.1140	.5780	06/29/10	023546
			SR 90		.0343	.1270	06/29/10	023546
3204	LM-4 WB	0.9 MILES SE						
			GAMMA SCAN (GELI)					
				AC-228	1.2797	.0981	06/28/10	023550
				BI-212	1.3974	.1443	06/28/10	023550
				BI-214				

Tennessee Valley Authority

Table 5
RADIOACTIVITY IN SOIL
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GAMMA SCAN (GELI)					
				BI-214	.7532	.0488	06/28/10	023550
				CS-137	.0246	.0081	06/28/10	023550
				K-40	25.8769	1.1127	06/28/10	023550
				PB-212	1.2338	.0647	06/28/10	023550
				PB-214	.8277	.0423	06/28/10	023550
				RA-226	.7532	.0488	06/28/10	023550
				TL-208	.3941	.0225	06/28/10	023550
			SR 89		.0581	.6790	06/28/10	023550
			SR 90		.0215	.1020	06/28/10	023550
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
				AC-228	.5645	.0582	06/28/10	023554
				BI-212	.5992	.0799	06/28/10	023554
				BI-214	.5808	.0345	06/28/10	023554

Tennessee Valley Authority

Table 5
 RADIOACTIVITY IN SOIL
 WATTS BAR NUCLEAR PLANT
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
				CS-137	.5055	.0242	06/28/10	023554
				K-40	4.5139	.3128	06/28/10	023554
				PB-212	.6148	.0317	06/28/10	023554
				PB-214	.6050	.0391	06/28/10	023554
				RA-226	.5808	.0345	06/28/10	023554
				TL-208	.1948	.0124	06/28/10	023554
			SR 89		.2820	.6730	06/28/10	023554
			SR 90		.0689	.1180	06/28/10	023554

Tennessee Valley Authority

Table 6
RADIOACTIVITY IN APPLES
WATTS BAR NUCLEAR PLANT
PCI/KG - 0.037 BQ/KG (WET WT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)	BI-214	58.4631	9.8523	09/14/10	022310
				K-40	954.5636	104.9285	09/14/10	022310
				PB-212	3.8796	4.0095	09/14/10	022310
				PB-214	74.6115	12.1175	09/14/10	022310
				TL-208	1.6105	2.4256	09/14/10	022310
3204	LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI)	BI-214	57.8672	11.0704	09/14/10	022355
				K-40	1176.3546	122.3164	09/14/10	022355
				PB-214	66.4307	10.1069	09/14/10	022355

Tennessee Valley Authority

Table 7
RADIOACTIVITY IN CABBAGE
WATTS BAR NUCLEAR PLANT
PCI/KG - 0.037 BQ/KG (WET WT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
				BI-214	103.5870	16.0704	07/09/10	022305
				K-40	1348.3338	130.7394	07/09/10	022305
				PB-214	90.6093	15.0962	07/09/10	022305
3173	2.5 MILES NE							
			GAMMA SCAN (GELI)					
				BI-214	58.4013	9.1753	07/09/10	022348
				K-40	2001.0480	152.7769	07/09/10	022348
				PB-212	6.8280	4.1837	07/09/10	022348
				PB-214	50.1915	9.1192	07/09/10	022348
				TL-208	8.2910	3.3060	07/09/10	022348

Tennessee Valley Authority

Table 8
 RADIOACTIVITY IN CORN
 WATTS BAR NUCLEAR PLANT
 PCI/KG - 0.037 BQ/KG (WET WT)
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
				BI-214	40.3097	9.7783	07/09/10	022306
				K-40	2620.2448	175.3410	07/09/10	022306
				PB-214	38.5042	5.7912	07/09/10	022306
3173	2.5 MILES NE							
			GAMMA SCAN (GELI)					
				BI-214	48.4435	12.5528	07/09/10	022350
				K-40	2389.3186	182.6801	07/09/10	022350
				PB-214	48.8354	11.4915	07/09/10	022350

Tennessee Valley Authority

Table 9
 RADIOACTIVITY IN GREEN BEANS
 WATTS BAR NUCLEAR PLANT
 PCI/KG - 0.037 BQ/KG (WET WT)
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)	BI-214	220.8206	24.5479	07/15/10	022307
				K-40	1427.4765	153.3325	07/15/10	022307
				PB-214	222.0119	20.3337	07/15/10	022307
3204	LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI)	BI-214	144.5316	23.3224	07/15/10	022351
				K-40	2907.8894	201.6418	07/15/10	022351
				PB-212	7.3687	4.0766	07/15/10	022351
				PB-214	120.1839	17.3345	07/15/10	022351

Tennessee Valley Authority

Table 10
 RADIOACTIVITY IN POTATOES
 WATTS BAR NUCLEAR PLANT
 PCI/KG - 0.037 BQ/KG (WET WT)
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
				BI-214	16.9146	8.6184	07/09/10	022309
				K-40	3008.8291	189.6536	07/09/10	022309
				PB-212	.8085	3.8678	07/09/10	022309
				PB-214	14.9480	8.6377	07/09/10	022309
				TL-208	4.0526	2.5474	07/09/10	022309

Tennessee Valley Authority

Table 11
 RADIOACTIVITY IN TOMATOES
 WATTS BAR NUCLEAR PLANT
 PCI/KG - 0.037 BQ/KG (WET WT)
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
				BI-214	31.1727	7.6759	07/09/10	022308
				K-40	2482.3544	188.9756	07/09/10	022308
				PB-212	16.2558	6.2625	07/09/10	022308
				PB-214	42.2438	7.9456	07/09/10	022308
3173	2.5 MILES NE							
			GAMMA SCAN (GELI)					
				BI-214	18.4078	8.4838	07/09/10	022352
				K-40	2687.7986	180.1422	07/09/10	022352
				PB-214	60.4308	14.3820	07/09/10	022352

Tennessee Valley Authority

Table 12
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3133	TRM 529.3							
		GROSS BETA						
					2.0080	.7125	12/29/09	020080
					1.7708	.7148	01/26/10	020556
					2.1262	.7209	02/23/10	020986
					1.5972	.7049	03/22/10	021490
					2.2365	.7255	04/20/10	022050
					1.3918	.6790	05/17/10	022814
					.5341	.6614	06/15/10	023327
					2.9859	.7901	07/13/10	023811
					1.8566	.7101	08/10/10	024328
					1.6925	.7251	09/06/10	024854
					3.1310	.7790	10/04/10	025320
					2.2157	.7505	11/02/10	025839
					1.0452	.6862	11/29/10	026333
		GAMMA SCAN (GELI)						
		AC-228						
					6.3270	5.8044	02/23/10	020986
					5.7955	4.9231	03/22/10	021490
					8.7882	4.7635	05/17/10	022814
					1.4043	3.5467	10/04/10	025320
					6.6965	4.0971	11/02/10	025839
				BI-214				
					11.7171	4.6921	12/29/09	020080
					10.1827	4.2945	01/26/10	020556
					88.4214	7.7558	02/23/10	020986
					33.8647	3.8608	03/22/10	021490
					46.3517	5.7272	04/20/10	022050

Tennessee Valley Authority

Table 12
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3133	TRM 529.3							
		GAMMA SCAN (GELI)						
		BI-214						
					6.7318	2.9917	05/17/10	022814
					25.1258	8.6159	06/15/10	023327
					8.8996	3.1366	07/13/10	023811
					40.9595	5.8208	08/10/10	024328
					46.9466	6.0038	10/04/10	025320
					38.8365	4.4259	11/02/10	025839
					21.7273	4.0982	11/29/10	026333
		K-40						
					14.4554	19.6906	03/22/10	021490
					25.3473	25.5852	04/20/10	022050
					64.9815	22.6952	05/17/10	022814
					63.8096	19.7486	06/15/10	023327
					10.8333	12.2257	09/06/10	024854
					9.0018	15.7380	10/04/10	025320
					14.6495	19.8780	11/02/10	025839
					31.8674	17.9465	11/29/10	026333
		PB-212						
					.7604	2.3506	12/29/09	020080
					6.0154	2.7573	02/23/10	020986
					1.1856	1.8277	03/22/10	021490
					1.6829	2.2550	04/20/10	022050
					3.4617	1.6591	05/17/10	022814
					4.9456	1.9413	06/15/10	023327
					.1979	2.5851	11/02/10	025839
		PB-214						
					10.2548	3.4656	12/29/09	020080

Tennessee Valley Authority

Table 12
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3133	TRM 529.3							
		GAMMA SCAN (GELI)						
		PB-214						
					46.2065	6.4086	02/23/10	020986
					23.3327	3.8504	03/22/10	021490
					21.3754	3.3033	04/20/10	022050
					6.9930	3.1311	05/17/10	022814
					2.7485	3.1182	06/15/10	023327
					6.0182	2.8165	07/13/10	023811
					40.3176	7.9578	08/10/10	024328
					34.1587	4.3035	10/04/10	025320
					31.5288	4.1210	11/02/10	025839
					18.3161	3.6368	11/29/10	026333
		TL-208						
					.4265	.9407	02/23/10	020986
					.8173	1.1716	03/22/10	021490
					1.7265	.7573	05/17/10	022814
					1.6095	1.1808	06/15/10	023327
		TRITIUM						
					143.5399	87.7371	12/29/09	020080
					25.9925	82.5840	01/26/10	020556
					48.5087	81.0004	02/23/10	020986
					- 89.2495	72.6380	03/22/10	021490
					42.0569	72.3228	04/20/10	022050
					- 96.9407	81.2516	05/17/10	022814
					- 93.0675	73.2385	06/15/10	023327
					123.9260	74.8268	07/13/10	023811
					96.8338	72.5791	08/10/10	024328

Tennessee Valley Authority

Table 12
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3133	TRM 529.3							
		TRITIUM						
					15.0832	86.7547	09/06/10	024854
					32.6157	81.8154	10/04/10	025320
					50.7400	70.7955	11/02/10	025839
					78.3632	71.8296	11/29/10	026333
3134	TRM 517.9							
		GROSS BETA						
					2.5171	.7387	12/28/09	020082
					2.7279	.7588	01/25/10	020558
					1.1298	.6748	02/22/10	020988
					1.6528	.7068	03/22/10	021492
					1.5402	.7014	04/19/10	022052
					1.5827	.6989	05/17/10	022816
					1.6064	.7097	06/14/10	023329
					2.2724	.7522	07/12/10	023813
					2.2620	.7332	08/09/10	024330
					1.5463	.7298	09/06/10	024856
					3.3911	.7982	10/04/10	025322
					3.8851	.8468	11/01/10	025841
					1.9860	.7393	11/29/10	026335
		GAMMA SCAN (GELI)						
		AC-228						
					5.0611	3.5082	02/22/10	020988
					9.1550	4.2444	04/19/10	022052
					4.4848	3.9105	05/17/10	022816
					6.6396	4.6193	06/14/10	023329
					3.4051	2.7717	09/06/10	024856

Tennessee Valley Authority

Table 12
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3134	TRM 517.9							
				GAMMA SCAN (GELI)				
				BI-214				
					19.0108	5.6090	12/28/09	020082
					33.1384	6.8189	01/25/10	020558
					63.9955	6.2607	02/22/10	020988
					14.5948	3.8631	03/22/10	021492
					10.0165	3.1331	04/19/10	022052
					7.3976	3.1234	05/17/10	022816
					8.6607	3.7356	06/14/10	023329
					28.6096	4.8271	07/12/10	023813
					7.7255	2.7808	08/09/10	024330
					38.9405	10.9598	09/06/10	024856
					38.5345	6.9892	10/04/10	025322
					38.3236	4.8579	11/01/10	025841
					58.4955	7.6151	11/29/10	026335
				K-40				
					35.3217	21.9952	02/22/10	020988
					59.7491	19.0619	03/22/10	021492
					3.3678	16.0401	06/14/10	023329
					41.7882	18.2703	11/01/10	025841
				PB-212				
					7.1310	2.3833	02/22/10	020988
					3.4644	1.6123	03/22/10	021492
					1.7972	1.4860	04/19/10	022052
					3.4007	2.2669	11/01/10	025841
					7.2634	2.6103	11/29/10	026335
				PB-214				
					10.6635	2.9057	12/28/09	020082

Tennessee Valley Authority

Table 12
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3134	TRM 517.9							
		GAMMA SCAN (GELI)						
		PB-214			21.6164	6.0334	01/25/10	020558
					39.0417	4.7757	02/22/10	020988
					11.4040	3.1760	03/22/10	021492
					8.8751	3.3712	04/19/10	022052
					4.5007	3.5150	05/17/10	022816
					.2589	2.3219	06/14/10	023329
					30.1088	4.8063	07/12/10	023813
					10.8723	3.4583	08/09/10	024330
					7.0091	2.4152	09/06/10	024856
					24.6179	7.3100	10/04/10	025322
					36.6112	4.7596	11/01/10	025841
					46.5641	6.0518	11/29/10	026335
		TL-208			3.1159	1.0304	03/22/10	021492
					2.2237	1.3344	04/19/10	022052
					.2982	1.4190	06/14/10	023329
					1.1100	1.2806	08/09/10	024330
					1.9957	1.2010	11/01/10	025841
		TRITIUM						
					135.5381	87.5938	12/28/09	020082
					90.2209	83.6925	01/25/10	020558
					92.4094	81.7980	02/22/10	020988
					- 16.8666	73.6679	03/22/10	021492
					- 52.1569	70.4986	04/19/10	022052
					31.9911	83.6525	05/17/10	022816

Tennessee Valley Authority

Table 12
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3134	TRM 517.9							
		TRITIUM						
					184.7602	77.9570	06/14/10	023329
					105.0364	74.4688	07/12/10	023813
					234.3270	75.4554	08/09/10	024330
					33.9220	72.9848	09/06/10	024856
					30.3408	81.7796	10/04/10	025322
					258.5313	75.1614	11/01/10	025841
					341.6261	79.9912	11/29/10	026335
3135	TRM 523.1							
		GROSS BETA						
					2.5176	.7534	12/28/09	020083
					2.2576	.7317	01/26/10	020559
					.9682	.6686	02/23/10	020989
					1.8166	.7132	03/22/10	021493
					1.9503	.7083	04/20/10	022053
					2.5469	.7623	05/18/10	022817
					1.9096	.7307	06/15/10	023330
					2.7024	.7521	07/13/10	023814
					1.9644	.7317	08/10/10	024331
					3.5948	.8240	09/07/10	024857
					4.6967	.8738	10/05/10	025323
					3.8072	.8402	11/02/10	025842
					1.1643	.6942	11/30/10	026336
		GAMMA SCAN (GELI)						
		AC-228						
					3.4931	3.0520	01/26/10	020559
					6.4829	6.4404	03/22/10	021493

Tennessee Valley Authority

Table 12
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3135	TRM 523.1							
				GAMMA SCAN (GELI)				
				AC-228				
					5.1136	4.0219	05/18/10	022817
				BI-214				
					20.1949	7.6156	12/28/09	020083
					27.3992	5.2835	01/26/10	020559
					81.4325	7.6597	02/23/10	020989
					45.6439	6.6959	03/22/10	021493
					9.3954	4.0031	04/20/10	022053
					1.7965	2.6428	05/18/10	022817
					18.2117	5.2992	06/15/10	023330
					21.5202	6.1282	07/13/10	023814
					25.9617	4.0933	08/10/10	024331
					26.2175	4.9489	09/07/10	024857
					16.8610	8.1144	10/05/10	025323
					36.8550	5.8507	11/02/10	025842
					16.7914	4.4200	11/30/10	026336
				K-40				
					15.4302	16.2054	01/26/10	020559
					13.0337	17.0581	02/23/10	020989
					13.5727	22.7572	03/22/10	021493
					18.6130	16.1689	05/18/10	022817
					79.1508	26.9311	08/10/10	024331
					13.2119	19.2870	11/02/10	025842
				PB-212				
					4.6423	2.2449	08/10/10	024331
					2.0496	1.8262	10/05/10	025323

Tennessee Valley Authority

Table 12
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3135	TRM 523.1							
		GAMMA SCAN (GELI)						
		PB-214						
					18.3895	6.4650	12/28/09	020083
					11.5157	2.7584	01/26/10	020559
					50.0840	6.1956	02/23/10	020989
					17.5515	4.9956	03/22/10	021493
					7.2022	4.1841	04/20/10	022053
					3.4255	2.4429	05/18/10	022817
					15.9147	5.3289	06/15/10	023330
					11.6099	5.5736	07/13/10	023814
					15.8463	3.2881	08/10/10	024331
					17.6924	4.2928	09/07/10	024857
					28.6427	5.2409	11/02/10	025842
					19.3639	3.4865	11/30/10	026336
		TL-208						
					1.0489	.9291	10/05/10	025323
					.1427	1.2682	11/30/10	026336
		TRITIUM						
					47.3179	86.0001	12/28/09	020083
					77.2131	83.4508	01/26/10	020559
					91.6280	81.7736	02/23/10	020989
					14.0551	73.7090	03/22/10	021493
					31.1218	72.0960	04/20/10	022053
					149.2733	86.1874	05/18/10	022817
					49.6829	75.3749	06/15/10	023330
					158.9340	75.5355	07/13/10	023814
					351.4472	78.2847	08/10/10	024331

Tennessee Valley Authority

Table 12
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3135	TRM 523.1							
				TRITIUM				
					- 34.5962	72.9663	09/07/10	024857
					38.6798	81.9073	10/05/10	025323
					93.9368	71.5982	11/02/10	025842
					439.8680	82.5511	11/30/10	026336

Tennessee Valley Authority

Table 13
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	TRM 503.8						
			GROSS BETA					
					1.4072	.6872	01/11/10	020275
					2.3785	.7263	02/08/10	020761
					1.8778	.7171	03/08/10	021209
					1.4694	.6924	04/05/10	021716
					1.6938	.7043	05/03/10	022556
					1.6195	.7144	05/31/10	023052
					1.9660	.7321	06/28/10	023559
					1.5258	.6962	07/26/10	024106
					2.9275	.7876	08/24/10	024610
					3.2017	.7962	09/20/10	025060
					2.8403	.7638	10/18/10	025539
					2.7009	.7512	11/15/10	026060
					1.7751	.7157	12/13/10	026537
			GAMMA SCAN (GELI)					
			AC-228					
					2.6450	5.3462	03/08/10	021209
					1.2152	2.7386	05/03/10	022556
					7.5838	5.2119	08/24/10	024610
			BI-214					
					23.5440	4.2222	01/11/10	020275
					25.0005	4.0968	02/08/10	020761
					62.1554	6.3032	03/08/10	021209
					15.4422	4.8701	04/05/10	021716
					5.2362	3.2440	05/03/10	022556
					22.9569	5.4033	05/31/10	023052
					7.6224	3.6263	06/28/10	023559

Tennessee Valley Authority

Table 13
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	TRM 503.8						
			GAMMA SCAN (GELI)					
				BI-214				
					12.6695	3.4033	07/26/10	024106
					19.6883	3.9530	08/24/10	024610
					17.7969	3.5334	10/18/10	025539
					61.2568	6.9112	11/15/10	026060
					25.5624	6.1553	12/13/10	026537
				K-40				
					16.0876	22.7418	01/11/10	020275
					7.5780	19.4163	05/03/10	022556
					.5551	13.5594	06/28/10	023559
					10.1030	21.5224	08/24/10	024610
					16.9761	10.7942	09/20/10	025060
					17.9799	19.0318	10/18/10	025539
				PB-212				
					6.9452	3.3690	03/08/10	021209
					1.3283	2.1287	05/03/10	022556
					1.6486	2.0387	08/24/10	024610
					4.0518	2.4244	10/18/10	025539
				PB-214				
					19.4370	3.6762	01/11/10	020275
					17.8244	3.8271	02/08/10	020761
					41.5301	4.2871	03/08/10	021209
					16.3217	4.3840	04/05/10	021716
					5.9982	3.2516	05/03/10	022556
					17.3921	4.4189	05/31/10	023052
					1.9117	2.1333	06/28/10	023559
					9.0064	3.5560	07/26/10	024106

Tennessee Valley Authority

Table 13
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	TRM 503.8						
				GAMMA SCAN (GELI)				
				PB-214				
					15.0624	3.3176	08/24/10	024610
					16.8769	2.6985	10/18/10	025539
					45.0478	6.6610	11/15/10	026060
					2.9589	4.6847	12/13/10	026537
				TL-208				
					.0303	1.4498	03/08/10	021209
					.6571	1.3193	08/24/10	024610
				TRITIUM				
					- 45.9639	81.8259	01/11/10	020275
					202.9671	84.1750	02/08/10	020761
					26.1457	85.3581	03/08/10	021209
					- 23.6187	74.8007	03/08/10	021213
					22.6459	75.3721	04/05/10	021716
					31.0590	71.9506	05/03/10	022556
					179.3342	84.2279	05/31/10	023052
					164.7758	76.1534	05/31/10	023056
					196.4897	76.4975	06/28/10	023559
					296.0934	82.8464	07/26/10	024106
					94.7941	73.7670	08/24/10	024610
					173.0150	84.6321	08/24/10	024614
					129.0679	72.7533	09/20/10	025060
					48.4412	81.9065	10/18/10	025539
					192.1173	74.3997	11/15/10	026060
					597.0457	85.4279	12/13/10	026537
					315.3317	76.7781	12/13/10	026541

Tennessee Valley Authority

Table 13
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2140	CF INDUSTRIES	TRM 473.0						
			GROSS BETA					
					1.8375	.6849	01/11/10	020220
					1.9546	.6937	02/08/10	020706
					1.7573	.7095	03/08/10	021154
					.7487	.6643	04/06/10	021660
					1.7010	.7066	05/03/10	022501
					2.6931	.7618	06/01/10	022997
					1.5735	.6953	06/30/10	023484
					1.7259	.7171	07/27/10	024050
					1.4181	.6943	08/23/10	024555
					2.1476	.7445	09/21/10	025005
					2.2520	.7301	10/19/10	025484
					2.8036	.7544	11/15/10	026005
					2.1801	.7376	12/14/10	026482
			GAMMA SCAN (GELI)					
			AC-228					
					5.8082	3.9538	03/08/10	021154
					5.0508	3.9564	07/27/10	024050
			BI-214					
					25.2711	12.6399	01/11/10	020220
					27.8804	4.6134	02/08/10	020706
					51.9732	6.6206	03/08/10	021154
					60.6493	16.5832	04/06/10	021660
					7.3364	4.4972	05/03/10	022501
					12.0397	3.0353	06/01/10	022997
					14.7441	3.1421	06/30/10	023484
					15.4811	4.4592	07/27/10	024050

Tennessee Valley Authority

Table 13
 RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
 WATTS BAR NUCLEAR PLANT
 PC/L - 0.037 BQ/L
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2140	CF INDUSTRIES	TRM 473.0						
			GAMMA SCAN (GELI)					
				BI-214				
					10.1662	3.0208	08/23/10	024555
					10.7103	2.8453	09/21/10	025005
					10.9408	4.2728	11/15/10	026005
					40.2600	6.4297	12/14/10	026482
				K-40				
					11.7259	17.3355	01/11/10	020220
					27.1818	17.0955	03/08/10	021154
					13.4037	18.6816	04/06/10	021660
					27.3564	22.1310	06/01/10	022997
					37.5670	19.9205	08/23/10	024555
					4.8039	13.0893	09/21/10	025005
					8.1790	18.4534	11/15/10	026005
				NO ACTIVITY DETECTED				
					.0000	.0000	10/19/10	025484
				PB-212				
					5.9054	2.1205	03/08/10	021154
					.5048	1.4264	06/01/10	022997
					.1228	2.2113	06/30/10	023484
					2.4226	1.8393	07/27/10	024050
					2.7037	2.2656	08/23/10	024555
				PB-214				
					7.6292	3.0085	01/11/10	020220
					14.7328	2.2719	02/08/10	020706
					37.2633	5.7243	03/08/10	021154
					22.5520	5.0114	04/06/10	021660
					3.8877	2.7518	05/03/10	022501

Tennessee Valley Authority

Table 13
 RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2140	CF INDUSTRIES	TRM 473.0						
			GAMMA SCAN (GELI)					
				PB-214				
					10.2021	3.1714	06/01/10	022997
					8.3895	2.5118	06/30/10	023484
					8.3720	2.4740	07/27/10	024050
					2.6270	2.5247	08/23/10	024555
					1.9545	2.9273	09/21/10	025005
					11.1332	3.7069	11/15/10	026005
					34.2815	5.2390	12/14/10	026482
				TL-208				
					2.4913	.9516	03/08/10	021154
					1.0287	1.2796	06/30/10	023484
					.8528	1.2508	07/27/10	024050
					2.3723	.8927	08/23/10	024555
			TRITIUM					
					15.3242	83.3060	01/11/10	020220
					102.7668	84.6467	02/08/10	020706
					222.4014	88.2246	03/08/10	021154
					104.9721	77.4360	03/08/10	021212
					72.2816	76.3878	04/06/10	021660
					81.4271	73.0225	05/03/10	022501
					182.2504	84.2898	06/01/10	022997
					4.1709	73.0627	06/01/10	023055
					159.2490	75.6852	06/30/10	023484
					544.3349	89.3517	07/27/10	024050
					531.5490	85.3668	08/23/10	024555
					259.5625	86.4838	08/23/10	024613

Tennessee Valley Authority

Table 13
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2140	CF INDUSTRIES	TRM 473.0						
			TRITIUM					
					184.7072	75.4044	09/21/10	025005
					113.5154	83.0486	10/19/10	025484
					248.5018	75.6868	11/15/10	026005
					498.9676	82.4705	12/14/10	026482
					188.6303	83.2624	12/14/10	026540
3133	TRM 529.3							
			GROSS BETA					
					2.0080	.7125	12/29/09	020080
					1.7708	.7148	01/26/10	020556
					2.1262	.7209	02/23/10	020986
					1.5972	.7049	03/22/10	021490
					2.2365	.7255	04/20/10	022050
					1.3918	.6790	05/17/10	022814
					.5341	.6614	06/15/10	023327
					2.9859	.7901	07/13/10	023811
					1.8566	.7101	08/10/10	024328
					1.6925	.7251	09/06/10	024854
					3.1310	.7790	10/04/10	025320
					2.2157	.7505	11/02/10	025839
					1.0452	.6862	11/29/10	026333
			GAMMA SCAN (GELI)					
			AC-228					
					6.3270	5.8044	02/23/10	020986
					5.7955	4.9231	03/22/10	021490
					8.7882	4.7635	05/17/10	022814
					1.4043	3.5467	10/04/10	025320

Tennessee Valley Authority

Table 13
 RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3133	TRM 529.3							
				GAMMA SCAN (GELI)				
				AC-228				
					6.6965	4.0971	11/02/10	025839
				BI-214				
					11.7171	4.6921	12/29/09	020080
					10.1827	4.2945	01/26/10	020556
					88.4214	7.7558	02/23/10	020986
					33.8647	3.8608	03/22/10	021490
					46.3517	5.7272	04/20/10	022050
					6.7318	2.9917	05/17/10	022814
					25.1258	8.6159	06/15/10	023327
					8.8996	3.1366	07/13/10	023811
					40.9595	5.8208	08/10/10	024328
					46.9466	6.0038	10/04/10	025320
					38.8365	4.4259	11/02/10	025839
					21.7273	4.0982	11/29/10	026333
				K-40				
					14.4554	19.6906	03/22/10	021490
					25.3473	25.5852	04/20/10	022050
					64.9815	22.6952	05/17/10	022814
					63.8096	19.7486	06/15/10	023327
					10.8333	12.2257	09/06/10	024854
					9.0018	15.7380	10/04/10	025320
					14.6495	19.8780	11/02/10	025839
					31.8674	17.9465	11/29/10	026333
				PB-212				
					.7604	2.3506	12/29/09	020080
					6.0154	2.7573	02/23/10	020986

Tennessee Valley Authority

Table 13
 RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3133	TRM 529.3							
				GAMMA SCAN (GELI)				
				PB-212				
					1.1856	1.8277	03/22/10	021490
					1.6829	2.2550	04/20/10	022050
					3.4617	1.6591	05/17/10	022814
					4.9456	1.9413	06/15/10	023327
					.1979	2.5851	11/02/10	025839
				PB-214				
					10.2548	3.4656	12/29/09	020080
					46.2065	6.4086	02/23/10	020986
					23.3327	3.8504	03/22/10	021490
					21.3754	3.3033	04/20/10	022050
					6.9930	3.1311	05/17/10	022814
					2.7485	3.1182	06/15/10	023327
					6.0182	2.8165	07/13/10	023811
					40.3176	7.9578	08/10/10	024328
					34.1587	4.3035	10/04/10	025320
					31.5288	4.1210	11/02/10	025839
					18.3161	3.6368	11/29/10	026333
				TL-208				
					.4265	.9407	02/23/10	020986
					.8173	1.1716	03/22/10	021490
					1.7265	.7573	05/17/10	022814
					1.6095	1.1808	06/15/10	023327
				TRITIUM				
					143.5399	87.7371	12/29/09	020080
					25.9925	82.5840	01/26/10	020556

Tennessee Valley Authority

Table 13
 RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3133	TRM 529.3							
				TRITIUM				
					48.5087	81.0004	02/23/10	020986
					- 89.2495	72.6380	03/22/10	021490
					42.0569	72.3228	04/20/10	022050
					- 96.9407	81.2516	05/17/10	022814
					- 93.0675	73.2385	06/15/10	023327
					123.9260	74.8268	07/13/10	023811
					96.8338	72.5791	08/10/10	024328
					15.0832	86.7547	09/06/10	024854
					32.6157	81.8154	10/04/10	025320
					50.7400	70.7955	11/02/10	025839
					- 78.3632	71.8296	11/29/10	026333

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3121	WBN WELL #1	0.6 MILES S						
			GROSS BETA					
					2.7025	1.0058	01/19/10	020362
					2.3647	.9284	02/17/10	020854
					4.0691	1.0594	03/16/10	021306
					3.5341	1.0563	04/13/10	021883
					4.6273	1.1192	05/11/10	022652
					2.6689	1.0475	06/08/10	023151
					4.3961	1.1446	07/07/10	023671
					3.9044	1.1249	08/03/10	024199
					3.5381	1.0791	08/31/10	024707
					4.7387	1.1459	09/28/10	025187
					4.2654	1.1293	10/26/10	025693
					2.1759	1.0253	11/22/10	026194
					3.7676	1.0476	12/20/10	026629
			GAMMA SCAN (GELI)					
			AC-228					
					5.7628	4.0522	01/19/10	020362
					3.1663	3.2706	02/17/10	020854
					6.4053	3.5328	03/16/10	021306
					6.5103	3.2610	06/08/10	023151
					2.3652	2.9108	08/03/10	024199
					4.9185	4.2814	08/31/10	024707
			BI-214					
					22.0866	5.4178	01/19/10	020362
					30.3370	4.7438	02/17/10	020854
					63.5633	6.9148	03/16/10	021306
					8.2883	2.9532	04/13/10	021883

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3121	WBN WELL #1	0.6 MILES S						
			GAMMA SCAN (GELI)					
				BI-214				
					6.5301	4.0053	05/11/10	022652
					21.1895	4.2041	06/08/10	023151
					7.7868	3.1998	07/07/10	023671
					12.8784	3.5528	08/31/10	024707
					72.8240	10.8181	09/28/10	025187
					51.8513	6.7499	10/26/10	025693
					18.5745	3.5757	11/22/10	026194
					3.9054	4.6203	12/20/10	026629
				K-40				
					5.3152	14.3510	02/17/10	020854
					12.4935	12.8858	03/16/10	021306
					30.4339	15.1580	04/13/10	021883
					20.9424	17.0496	05/11/10	022652
					48.3133	18.0325	06/08/10	023151
					5.5703	13.0524	07/07/10	023671
					10.1976	14.1187	11/22/10	026194
				PB-212				
					3.8997	2.2962	01/19/10	020362
					6.0507	2.4284	06/08/10	023151
				PB-214				
					17.1518	4.0256	01/19/10	020362
					27.8590	3.7274	02/17/10	020854
					29.0356	4.1872	03/16/10	021306
					6.2257	2.8127	04/13/10	021883
					7.0277	2.9817	05/11/10	022652
					12.3823	3.4256	06/08/10	023151

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3121	WBN WELL #1	0.6 MILES S						
			GAMMA SCAN (GELI)					
				PB-214				
					3.4918	3.3235	07/07/10	023671
					12.7767	3.6108	08/31/10	024707
					54.5709	8.1262	09/28/10	025187
					43.1607	9.3243	10/26/10	025693
					18.2048	3.2537	11/22/10	026194
				TL-208				
					3.6315	1.9663	01/19/10	020362
					2.0409	1.4853	06/08/10	023151
			TRITIUM					
					202.0308	86.6116	01/19/10	020362
					190.5934	86.2353	02/17/10	020854
					97.8607	85.6918	03/16/10	021306
					207.9839	76.2328	04/13/10	021883
					138.7609	86.0356	05/11/10	022652
					145.0066	77.2180	06/08/10	023151
					160.5569	79.7679	07/07/10	023671
					118.5876	78.9711	08/03/10	024199
					98.7924	74.0835	08/31/10	024707
					73.6471	82.5928	09/28/10	025187
					197.0011	73.8115	10/26/10	025693
					139.9903	84.7727	11/22/10	026194
					167.5424	73.9957	12/20/10	026629
3125	WBN WELL #5	0.5 miles N						
			GROSS BETA					
					1.7092	.7098	01/19/10	020363

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3125	WBN WELL #5	0.5 miles N						
			GROSS BETA					
					2.4070	.7341	02/16/10	020855
					1.7629	.7109	03/16/10	021307
					1.3918	.7039	04/13/10	021884
					1.8276	.7189	05/11/10	022653
					1.8840	.7401	06/08/10	023152
					2.3818	.7714	07/07/10	023672
					1.6804	.7202	08/03/10	024200
					2.2020	.7454	08/31/10	024708
					2.6484	.7777	09/28/10	025188
					2.2282	.7549	10/26/10	025694
					1.1542	.6890	11/22/10	026195
					1.8578	.6921	12/21/10	026630
			GAMMA SCAN (GELI)					
			AC-228					
					22.7930	6.8120	04/13/10	021884
					4.6100	3.4137	05/11/10	022653
					2.6335	3.1449	06/08/10	023152
					8.4618	5.3953	07/07/10	023672
					17.2279	6.3462	08/31/10	024708
			BI-214					
					12.0335	4.6055	01/19/10	020363
					92.8289	8.0783	02/16/10	020855
					39.6360	5.1318	03/16/10	021307
					18.7094	4.1102	04/13/10	021884
					9.8362	2.9057	05/11/10	022653
					4.4350	2.4379	06/08/10	023152

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3125	WBN WELL #5	0.5 miles N						
			GAMMA SCAN (GELI)					
				BI-214				
					14.2253	3.5497	07/07/10	023672
					9.8964	3.5449	08/03/10	024200
					9.1196	3.1361	08/31/10	024708
					21.2059	4.7070	09/28/10	025188
					24.3447	4.1930	10/26/10	025694
					23.5738	5.9394	11/22/10	026195
				K-40				
					14.1380	19.9177	05/11/10	022653
					11.2181	16.5556	08/03/10	024200
					4.2166	20.5767	08/31/10	024708
					6.4750	16.6403	09/28/10	025188
					5.6034	18.6690	10/26/10	025694
					.8940	12.0807	12/21/10	026630
				PB-212				
					1.3195	2.4144	03/16/10	021307
					.3061	2.3605	07/07/10	023672
					1.4621	2.5825	10/26/10	025694
				PB-214				
					14.3169	4.6069	01/19/10	020363
					48.4519	4.6584	02/16/10	020855
					18.6152	5.6486	03/16/10	021307
					15.6936	4.6854	04/13/10	021884
					6.4754	3.6556	05/11/10	022653
					3.5845	2.8915	06/08/10	023152
					8.8390	3.2203	07/07/10	023672
					8.6416	3.5694	08/03/10	024200

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3125	WBN WELL #5	0.5 miles N						
			GAMMA SCAN (GELI)					
				PB-214				
					11.5276	4.6671	08/31/10	024708
					17.8590	3.3684	09/28/10	025188
					14.5867	3.1447	10/26/10	025694
					13.5957	4.1521	11/22/10	026195
				TL-208				
					1.6596	1.5179	07/07/10	023672
					.8132	1.4147	10/26/10	025694
			TRITIUM					
					- 81.1178	81.8092	01/19/10	020363
					221.2139	84.4692	02/16/10	020855
					- 7.7667	83.9384	03/16/10	021307
					162.5146	75.1108	04/13/10	021884
					- 99.9453	81.2809	05/11/10	022653
					49.0356	75.4437	06/08/10	023152
					73.4377	78.1192	07/07/10	023672
					60.7393	77.9159	08/03/10	024200
					- 27.1762	86.1086	08/31/10	024708
					- 40.2397	80.7692	09/28/10	025188
					43.2439	70.7368	10/26/10	025694
					- 46.6656	81.6056	11/22/10	026195
					- .6894	70.8328	12/21/10	026630
3263	WBN MW-A	0.6 MILES SSE						
			GROSS BETA					
					- .3078	.7520	01/19/10	020370
					.8209	.7813	02/16/10	020862

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3263	WBN MW-A	0.6 MILES SSE						
			GROSS BETA					
					.2266	.7507	03/16/10	021314
					.0285	.7622	04/13/10	021891
					1.2390	.8130	05/11/10	022660
					.7884	.8148	06/08/10	023159
					2.2769	.9204	07/07/10	023679
					1.5866	.8686	08/03/10	024207
				-	.1087	.7768	08/31/10	024715
					1.2272	.8070	09/28/10	025195
					1.6961	.8296	10/26/10	025708
				-	.2926	.7157	11/22/10	026202
					.1431	.6755	12/20/10	026637
			GAMMA SCAN (GELI)					
			AC-228					
					9.1658	5.0807	01/19/10	020370
					4.3551	3.8019	12/20/10	026637
			BI-214					
					36.6247	4.2239	01/19/10	020370
					76.5154	6.2047	02/16/10	020862
					103.8308	8.7263	03/16/10	021314
					3.9487	2.8287	04/13/10	021891
					12.3992	2.7078	05/11/10	022660
					8.7450	3.8323	06/08/10	023159
					10.4609	3.8744	07/07/10	023679
					27.3495	5.5104	08/03/10	024207
					20.2032	4.1414	08/31/10	024715
					42.2254	4.8520	09/28/10	025195

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3263	WBN MW-A	0.6 MILES SSE						
			GAMMA SCAN (GELI)					
				BI-214				
					70.3595	6.3575	12/20/10	026637
				K-40				
					6.0460	12.6086	02/16/10	020862
					18.6323	31.9742	03/16/10	021314
					27.6356	18.9736	05/11/10	022660
					26.0649	16.1547	07/07/10	023679
					7.8868	12.1391	08/31/10	024715
					11.9028	20.4597	09/28/10	025195
					.7412	22.1650	11/22/10	026202
					13.7803	18.2212	12/20/10	026637
			NO ACTIVITY DETECTED					
					.0000	.0000	10/26/10	025708
			PB-212					
					1.1300	1.6908	01/19/10	020370
					2.7952	2.3613	03/16/10	021314
					4.0756	2.1156	05/11/10	022660
			PB-214					
					37.3968	4.7666	01/19/10	020370
					65.1888	7.8661	02/16/10	020862
					65.4208	7.3882	03/16/10	021314
					.7438	2.3616	04/13/10	021891
					11.8820	3.3587	05/11/10	022660
					7.0260	2.3426	06/08/10	023159
					6.2061	4.1029	07/07/10	023679
					22.0473	7.5439	08/03/10	024207
					11.5298	4.2279	08/31/10	024715

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3263	WBN MW-A	0.6 MILES SSE						
			GAMMA SCAN (GELI)					
				PB-214	37.1261	4.0341	09/28/10	025195
					66.4156	6.6404	12/20/10	026637
				TL-208	2.7274	1.5724	01/19/10	020370
					1.6882	1.1719	05/11/10	022660
			TRITIUM					
					- 73.4658	81.9110	01/19/10	020370
					84.7850	81.7298	02/16/10	020862
					- 10.8734	83.8922	03/16/10	021314
					13.4727	71.8157	04/13/10	021891
					77.6286	84.6831	05/11/10	022660
					42.7317	75.3376	06/08/10	023159
					13.6798	77.1123	07/07/10	023679
					64.3556	77.9800	08/03/10	024207
					33.2153	87.1660	08/31/10	024715
					35.6848	81.9458	09/28/10	025195
					11.6691	70.1939	10/26/10	025708
					217.7632	86.3586	11/22/10	026202
					20.6842	71.1938	12/20/10	026637
3264	WBN MW-B	0.5 MILES SSE						
			GROSS BETA					
					4.0514	1.0077	01/19/10	020371
					3.5707	.9443	02/16/10	020863
					3.1599	.9627	03/16/10	021315
					5.1648	1.0991	04/13/10	021892

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3264	WBN MW-B	0.5 MILES SSE						
			GROSS BETA					
					3.3244	.9251	05/11/10	022661
					2.3837	.9107	06/08/10	023160
					4.1212	1.0570	07/07/10	023680
					5.8215	1.1611	08/03/10	024208
					3.6318	1.0278	08/31/10	024716
					4.7599	1.0134	09/28/10	025196
					3.9690	1.0182	10/26/10	025709
					4.2045	1.0022	11/22/10	026203
					2.1093	.8057	12/20/10	026638
			GAMMA SCAN (GELI)					
			AC-228					
					9.6598	4.4266	02/16/10	020863
					7.3867	3.6286	03/16/10	021315
					11.9628	4.6428	07/07/10	023680
			BI-214					
					15.0690	4.1593	01/19/10	020371
					60.8703	6.5908	02/16/10	020863
					65.0475	6.1989	03/16/10	021315
					31.3149	5.1624	04/13/10	021892
					12.9743	4.0360	05/11/10	022661
					17.4434	4.7526	06/08/10	023160
					18.1244	3.3409	07/07/10	023680
					18.7463	3.1850	08/03/10	024208
					31.5676	4.3941	09/28/10	025196
					27.8728	4.7633	12/20/10	026638

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3264	WBN MW-B	0.5 MILES SSE						
			GAMMA SCAN (GELI)					
				K-40				
					57.5266	19.3032	03/16/10	021315
					46.3268	17.4941	07/07/10	023680
					21.4068	15.2400	08/03/10	024208
					7.8936	13.8722	08/31/10	024716
					45.3823	19.9634	09/28/10	025196
					18.5822	12.3571	11/22/10	026203
				PB-212				
					8.6029	2.6299	03/16/10	021315
					5.4237	1.4110	07/07/10	023680
					4.4646	1.9027	08/03/10	024208
					3.7266	2.9549	09/28/10	025196
					.2689	1.7722	10/26/10	025709
				PB-214				
					19.5597	4.3115	01/19/10	020371
					51.5601	6.3384	02/16/10	020863
					39.6186	4.8254	03/16/10	021315
					18.2233	4.1226	04/13/10	021892
					11.6416	3.3881	05/11/10	022661
					16.0432	5.5864	06/08/10	023160
					13.5670	5.0505	07/07/10	023680
					14.9213	5.2813	08/03/10	024208
					26.7842	4.5861	09/28/10	025196
					32.0166	3.6049	12/20/10	026638
				TL-208				
					2.4694	1.1225	07/07/10	023680
					1.8686	1.1566	08/03/10	024208

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3264	WBN MW-B	0.5 MILES SSE						
			GAMMA SCAN (GELI)					
				TL-208				
					.9365	.7834	10/26/10	025709
			TRITIUM					
					2571.3030	173.5909	01/19/10	020371
					2807.9238	182.8138	02/16/10	020863
					1796.4459	140.7339	03/16/10	021315
					1976.2703	143.0332	04/13/10	021892
					2855.7615	191.3075	05/11/10	022661
					2437.8041	161.7313	06/08/10	023160
					2344.2771	159.0994	07/07/10	023680
					2501.9113	166.2353	08/03/10	024208
					2071.4261	156.5590	08/31/10	024716
					2710.5207	178.5998	09/28/10	025196
					1732.5132	128.0094	10/26/10	025709
					2193.1838	156.5835	11/22/10	026203
					2490.3745	162.1309	12/20/10	026638
3265	WBN MW-C	0.3 MILES ESE						
			GROSS BETA					
					2.7885	.8180	01/19/10	020372
					4.7712	1.1382	02/17/10	020864
					3.7435	.8572	03/16/10	021316
					.9507	.6947	04/13/10	021893
					3.5029	.8359	05/11/10	022662
					4.6585	.9091	06/08/10	023161
					2.3767	.7874	07/07/10	023681
					6.2360	1.0091	08/03/10	024209

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3265	WBN MW-C	0.3 MILES ESE						
			GROSS BETA					
					9.4509	1.1830	08/31/10	024717
					3.6699	.8303	09/28/10	025197
					5.4585	.9546	10/26/10	025710
					2.4834	.7723	11/23/10	026204
					2.5205	.7842	12/21/10	026639
			GAMMA SCAN (GELI)					
			AC-228					
					5.4791	4.5850	03/16/10	021316
					23.9645	9.2992	07/07/10	023681
					6.7834	4.0760	11/23/10	026204
					3.4106	3.9579	12/21/10	026639
			BI-214					
					27.7850	5.5137	01/19/10	020372
					29.6405	4.1957	02/17/10	020864
					47.0477	5.0613	03/16/10	021316
					31.6151	6.1702	04/13/10	021893
					10.2965	3.7887	05/11/10	022662
					11.3258	2.7653	06/08/10	023161
					16.7317	4.1645	07/07/10	023681
					12.8940	3.4999	08/03/10	024209
					26.8670	3.5653	09/28/10	025197
					29.2732	4.8842	10/26/10	025710
					11.2667	3.0419	11/23/10	026204
					20.5461	3.7645	12/21/10	026639
			K-40					
					6.7983	17.9748	03/16/10	021316

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3265	WBN MW-C	0.3 MILES ESE						
			GAMMA SCAN (GELI)					
				K-40				
					5.6974	22.8167	06/08/10	023161
					7.2232	13.9473	08/03/10	024209
					9.4475	10.7388	08/31/10	024717
					12.3991	18.1286	09/28/10	025197
					16.7720	14.6951	11/23/10	026204
					9.4811	23.2942	12/21/10	026639
				PB-212				
					1.8397	2.2947	01/19/10	020372
					1.5194	2.3484	02/17/10	020864
					.2965	1.2039	08/31/10	024717
					1.0769	2.5049	10/26/10	025710
				PB-214				
					21.5070	5.6646	01/19/10	020372
					17.6997	3.0117	02/17/10	020864
					30.5666	5.0915	03/16/10	021316
					25.3168	5.5178	04/13/10	021893
					12.3318	4.0652	05/11/10	022662
					6.2116	2.1680	06/08/10	023161
					9.7694	2.8257	07/07/10	023681
					3.5430	3.7682	08/03/10	024209
					32.0155	4.2957	09/28/10	025197
					29.4113	4.2919	10/26/10	025710
					9.1224	3.4103	11/23/10	026204
					18.7878	3.4049	12/21/10	026639
				TL-208				
					.7907	1.5721	03/16/10	021316

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3265	WBN MW-C	0.3 MILES ESE						
			GAMMA SCAN (GELI)					
				TL-208				
					2.1110	1.3244	06/08/10	023161
			TRITIUM					
					198.9685	86.5481	01/19/10	020372
					181.8823	83.6221	02/17/10	020864
					248.5342	88.6788	03/16/10	021316
					637.4206	89.0334	04/13/10	021893
					779.1881	104.6329	05/11/10	022662
					624.1559	89.4706	06/08/10	023161
					757.4202	95.7521	07/07/10	023681
					761.4158	95.9354	08/03/10	024209
					534.4695	99.1226	08/31/10	024717
					943.7388	106.0305	09/28/10	025197
					1009.0213	98.7937	10/26/10	025710
					1850.7930	141.9780	11/23/10	026204
					546.0029	83.7895	12/21/10	026639
3267	WBN MW-F	0.3 MILES SE						
			GROSS BETA					
					6.0876	1.1114	01/19/10	020373
					3.9576	.9701	02/17/10	020865
					4.7088	1.0385	03/16/10	021317
					1.2500	.8645	04/13/10	021894
					3.7630	.9808	05/11/10	022663
					3.3948	.9970	06/08/10	023162
					3.4052	1.0399	07/07/10	023682
					4.8446	1.1398	08/03/10	024210

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3267	WBN MW-F	0.3 MILES SE						
			GROSS BETA					
					8.1348	1.2699	08/31/10	024718
					3.5843	.9800	09/28/10	025198
					7.8130	1.2200	10/26/10	025711
					3.9073	1.0016	11/23/10	026205
					1.6976	.8293	12/21/10	026640
			GAMMA SCAN (GELI)					
			AC-228					
					6.0655	4.5828	01/19/10	020373
					6.5573	3.7801	02/17/10	020865
					8.2094	3.3020	10/26/10	025711
			BI-214					
					19.6124	3.5801	01/19/10	020373
					27.1934	4.4601	02/17/10	020865
					58.2443	5.5406	03/16/10	021317
					29.9825	5.9907	04/13/10	021894
					14.0498	3.2252	05/11/10	022663
					8.6242	4.4361	06/08/10	023162
					2.5399	2.5291	07/07/10	023682
					10.0629	3.1425	08/31/10	024718
					54.4141	5.2500	09/28/10	025198
					38.8100	5.1728	10/26/10	025711
					7.6513	4.6545	11/23/10	026205
					24.8254	4.2203	12/21/10	026640
			K-40					
					91.3519	19.0248	02/17/10	020865
					.7953	13.0825	03/16/10	021317

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3267	WBN MW-F	0.3 MILES SE						
			GAMMA SCAN (GELI)					
				K-40				
					59.5389	19.3443	06/08/10	023162
					14.1690	16.4427	07/07/10	023682
					10.0724	16.2109	08/31/10	024718
					47.7093	19.1688	10/26/10	025711
					57.4624	19.1497	12/21/10	026640
				PB-212				
					3.0326	2.1695	01/19/10	020373
					3.8290	2.5125	02/17/10	020865
					3.8295	2.8125	06/08/10	023162
					.2558	1.3333	08/03/10	024210
					6.4748	2.1139	10/26/10	025711
					1.9816	2.8183	12/21/10	026640
				PB-214				
					15.6127	4.8280	01/19/10	020373
					21.8853	3.7642	02/17/10	020865
					29.3317	4.8173	03/16/10	021317
					36.1001	6.2595	04/13/10	021894
					9.3893	3.2756	05/11/10	022663
					7.5247	2.7514	06/08/10	023162
					3.4729	2.5760	07/07/10	023682
					5.1770	3.3215	08/31/10	024718
					50.2945	5.8474	09/28/10	025198
					33.9752	3.8365	10/26/10	025711
					4.3329	3.0186	11/23/10	026205
					17.3774	3.2115	12/21/10	026640

Tennessee Valley Authority

Table 14
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3267	WBN MW-F	0.3 MILES SE						
			GAMMA SCAN (GELI)					
				TL-208				
					1.3570	1.3727	01/19/10	020373
					4.7172	1.4115	02/17/10	020865
					1.2331	.9896	05/11/10	022663
					2.3105	1.3555	09/28/10	025198
					3.5567	1.2249	10/26/10	025711
			TRITIUM					
					1859.5912	142.6775	01/19/10	020373
					2153.2981	153.6109	02/17/10	020865
					2458.9373	169.0789	03/16/10	021317
					2470.5344	165.3973	04/13/10	021894
					2519.0217	175.9809	05/11/10	022663
					2633.9262	170.6093	06/08/10	023162
					2288.8271	156.6384	07/07/10	023682
					2807.7691	180.1154	08/03/10	024210
					2107.6836	158.1153	08/31/10	024718
					2429.5792	166.0328	09/28/10	025198
					2116.8875	144.8232	10/26/10	025711
					2379.5936	164.7317	11/23/10	026205
					2159.8795	147.2194	12/21/10	026640

Tennessee Valley Authority

Table 15
RADIOACTIVITY IN GRAB WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3115	LAYMAN FARM	1.3 MILES SSW						
			GROSS BETA					
					- .0300	.6285	01/18/10	020361
					1.7336	.7004	02/16/10	020853
					.3564	.6384	03/15/10	021305
					.1332	.6259	04/13/10	021882
					1.9196	.7154	05/10/10	022651
					1.6899	.7014	06/07/10	023150
					.4181	.6533	07/06/10	023669
					.5772	.6514	08/02/10	024197
					.9036	.6609	08/30/10	024705
					.4747	.6569	09/27/10	025186
					1.7335	.7012	10/25/10	025692
					.3018	.6372	11/22/10	026193
					1.5656	.6906	12/20/10	026628
			GAMMA SCAN (GELI)					
			AC-228					
					9.0786	4.5736	04/13/10	021882
					11.2151	4.4835	07/06/10	023669
					3.1173	3.8952	10/25/10	025692
			BI-214					
					284.5081	17.0748	01/18/10	020361
					278.5164	19.2942	02/16/10	020853
					310.6659	18.1843	03/15/10	021305
					209.9525	13.3244	04/13/10	021882
					234.8656	17.2218	05/10/10	022651
					128.9655	9.8558	06/07/10	023150
					157.2500	10.1867	07/06/10	023669

Tennessee Valley Authority

Table 15
RADIOACTIVITY IN GRAB WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3115	LAYMAN FARM	1.3 MILES SSW						
			GAMMA SCAN (GELI)					
				BI-214				
					137.6443	10.9123	08/02/10	024197
					108.5951	9.8088	08/30/10	024705
					162.0319	13.7665	09/27/10	025186
					128.1120	9.7008	10/25/10	025692
					119.4755	11.1253	11/22/10	026193
					24.1312	3.9225	12/20/10	026628
				K-40				
					17.1512	18.2572	03/15/10	021305
					74.3428	22.9659	04/13/10	021882
					10.0831	26.8598	06/07/10	023150
					49.3390	18.6222	07/06/10	023669
					2.7922	11.9083	09/27/10	025186
					18.2211	16.5977	10/25/10	025692
					8.2815	15.8195	11/22/10	026193
					2.3761	13.5494	12/20/10	026628
				PB-212				
					2.2734	2.4912	06/07/10	023150
					3.6020	1.9560	07/06/10	023669
				PB-214				
					272.6319	50.5049	01/18/10	020361
					277.3117	14.7091	02/16/10	020853
					301.8509	17.9295	03/15/10	021305
					221.9294	48.4174	04/13/10	021882
					231.8684	15.8315	05/10/10	022651
					120.8691	9.6172	06/07/10	023150
					141.7586	9.6871	07/06/10	023669

Tennessee Valley Authority

Table 15
RADIOACTIVITY IN GRAB WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3115	LAYMAN FARM	1.3 MILES SSW						
			GAMMA SCAN (GELI)					
				PB-214				
					133.0655	9.5565	08/02/10	024197
					96.6372	9.6992	08/30/10	024705
					157.8015	13.4192	09/27/10	025186
					121.9903	9.1513	10/25/10	025692
					102.4516	11.4256	11/22/10	026193
					32.3940	5.0580	12/20/10	026628
				TL-208				
					.1963	1.0138	06/07/10	023150
					5.0113	1.4614	07/06/10	023669
			TRITIUM					
					- 29.8493	82.5289	01/18/10	020361
					60.8919	81.3009	02/16/10	020853
					- 56.7039	83.2386	03/15/10	021305
					- 16.8407	71.2220	04/13/10	021882
					39.7891	83.9002	05/10/10	022651
					86.2195	87.0724	06/07/10	023150
					170.3139	75.8484	07/06/10	023669
					- .7171	76.5757	08/02/10	024197
					- 69.6739	71.0641	08/30/10	024705
					- 4.7892	72.9108	09/27/10	025186
					20.5948	70.3522	10/25/10	025692
					6.1930	73.1375	11/22/10	026193
					13.1001	71.0675	12/20/10	026628

Tennessee Valley Authority

Table 16
RADIOACTIVITY IN COMMERCIAL FISH
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2160	CHICKAMAUGA RES	TRM 471-530	GAMMA SCAN (GELI)	BI-214				
					.1251	.0156	05/28/10	022325
					.1287	.0273	10/14/10	025656
				CS-137				
					.0404	.0077	05/28/10	022325
				K-40				
					11.2434	.6427	05/28/10	022325
					15.2759	.7350	10/14/10	025656
				PB-214				
					.0755	.0156	05/28/10	022325
					.2471	.0236	10/14/10	025656
2161	WATTS BAR RES	TRM 530-602	GAMMA SCAN (GELI)	BI-214				
					.2682	.0373	05/27/10	022328
					.1443	.0186	10/14/10	025659
				K-40				
					9.4780	.7141	05/27/10	022328
					13.3342	.7718	10/14/10	025659
				PB-214				
					.2847	.0324	05/27/10	022328
					.1473	.0191	10/14/10	025659
3261	DOWNSTREAM STATION 1	TRM 522.8 - 527.8	GAMMA SCAN (GELI)	BI-214				
					.0539	.0131	05/27/10	022380
					.3788	.0319	10/14/10	025705

Tennessee Valley Authority

Table 16
 RADIOACTIVITY IN COMMERCIAL FISH
 WATTS BAR NUCLEAR PLANT
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3261	DOWNSTREAM STATION 1	TRM 522.8 – 527.8						
			GAMMA SCAN (GELI)					
				CS-137	.0314	.0060	05/27/10	022380
					.0371	.0061	10/14/10	025705
				K-40	10.5910	.5315	05/27/10	022380
					15.1984	.8759	10/14/10	025705
				PB-214	.0549	.0111	05/27/10	022380
					.3683	.0300	10/14/10	025705

Tennessee Valley Authority

Table 17
RADIOACTIVITY IN GAME FISH
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2160	CHICKAMAUGA RES	TRM 471-530	GAMMA SCAN (GELI)	BI-214	.0657	.0178	05/28/10	022324
					.4658	.0451	10/14/10	025655
				CS-137	.0334	.0070	05/28/10	022324
				K-40	15.4266	.8352	05/28/10	022324
					12.1748	.7096	10/14/10	025655
				PB-214	.0484	.0102	05/28/10	022324
					.5067	.0319	10/14/10	025655
2161	WATTS BAR RES	TRM 530-602	GAMMA SCAN (GELI)	BI-214	.1153	.0143	05/27/10	022327
					.3132	.0260	10/14/10	025658
				CS-137	.0502	.0073	05/27/10	022327
					.0277	.0074	10/14/10	025658
				K-40	12.5118	.6805	05/27/10	022327
					13.8236	.8367	10/14/10	025658
				PB-212	.0161	.0099	05/27/10	022327
					.0149	.0084	10/14/10	025658
				PB-214	.0904	.0131	05/27/10	022327
					.2850	.0259	10/14/10	025658

Tennessee Valley Authority

Table 17
RADIOACTIVITY IN GAME FISH
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2161	WATTS BAR RES	TRM 530-602						
			GAMMA SCAN (GELI)					
				TL-208				
					.0101	.0055	05/27/10	022327
3261	DOWNSTREAM STATION 1	TRM 522.8 – 527.8						
			GAMMA SCAN (GELI)					
				BI-214				
					.0020	.0142	06/02/10	022379
					.4802	.0359	10/14/10	025704
				CS-137				
					.0602	.0073	06/02/10	022379
				K-40				
					13.8652	.5778	06/02/10	022379
					12.6484	.7330	10/14/10	025704
				PB-214				
					.4370	.0383	10/14/10	025704

Tennessee Valley Authority

Table 18
RADIOACTIVITY IN SHORELINE SEDIMENT
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3191	WATTS BAR RESORT	TRM 530						
			GAMMA SCAN (GELI)					
				AC-228				
					.7120	.0429	04/27/10	022369
					1.0661	.0656	10/28/10	025695
				BE-7				
					.1897	.0415	04/27/10	022369
				BI-212				
					.7896	.0728	04/27/10	022369
					.9041	.1591	10/28/10	025695
				BI-214				
					.4908	.0246	04/27/10	022369
					.8487	.0507	10/28/10	025695
				K-40				
					2.5915	.1515	04/27/10	022369
					4.1550	.2577	10/28/10	025695
				PB-212				
					.7786	.0350	04/27/10	022369
					.9301	.0656	10/28/10	025695
				PB-214				
					.5619	.0292	04/27/10	022369
					.9614	.0537	10/28/10	025695
				RA-226				
					.4908	.0246	04/27/10	022369
				TL-208				
					.2336	.0140	04/27/10	022369
					.3321	.0215	10/28/10	025695

Tennessee Valley Authority

Table 18
RADIOACTIVITY IN SHORELINE SEDIMENT
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3193	COTTON PORT MARINA	TRM 513						
			GAMMA SCAN (GELI)					
				AC-228				
					1.2723	.0774	04/27/10	022371
					1.3132	.0903	10/28/10	025696
				BE-7				
					.3326	.0501	04/27/10	022371
				BI-212				
					1.3390	.1131	04/27/10	022371
					1.4090	.1348	10/28/10	025696
				BI-214				
					.6414	.0331	04/27/10	022371
					.6286	.0340	10/28/10	025696
				CS-137				
					.0229	.0062	04/27/10	022371
					.0483	.0089	10/28/10	025696
				K-40				
					28.2824	1.1288	04/27/10	022371
					29.1874	1.1878	10/28/10	025696
				PB-212				
					1.1999	.0657	04/27/10	022371
					1.2414	.0696	10/28/10	025696
				PB-214				
					.6630	.0346	04/27/10	022371
					.6777	.2847	10/28/10	025696
				RA-226				
					.6414	.0331	04/27/10	022371
				TL-208				
					.4216	.0228	04/27/10	022371
					.4291	.0211	10/28/10	025696

Tennessee Valley Authority

Table 19
RADIOACTIVITY IN POND SEDIMENT
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3303	LV-3	LOW VOL WASTE POND	GAMMA SCAN (GELI)	AC-228	.6840	.0732	10/06/10	024722
				BI-212	.5631	.1127	10/06/10	024722
				BI-214	.7830	.0590	10/06/10	024722
				CS-134	.0410	.0078	10/06/10	024722
				CS-137	.1361	.0153	10/06/10	024722
				K-40	8.2668	.5148	10/06/10	024722
				PB-212	.5683	.0480	10/06/10	024722
				PB-214	.8463	.0560	10/06/10	024722
				TL-208	.2038	.0224	10/06/10	024722
3305	YP-5	YARD POND	GAMMA SCAN (GELI)	AC-228	.9056	.0597	10/06/10	024723
				BE-7	.3009	.0429	10/06/10	024723
				BI-212	1.1049	.1034	10/06/10	024723
				BI-214	.9608	.0513	10/06/10	024723

Tennessee Valley Authority

Table 19
RADIOACTIVITY IN POND SEDIMENT
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3305	YP-5	YARD POND						
			GAMMA SCAN (GELI)					
				CO-60	.0392	.0072	10/06/10	024723
				CS-137	.0734	.0091	10/06/10	024723
				K-40	12.1593	.5346	10/06/10	024723
				PB-212	.8867	.0631	10/06/10	024723
				PB-214	1.0202	.0521	10/06/10	024723
				TL-208	.3063	.0198	10/06/10	024723
3313	YP-13	YARD POND						
			GAMMA SCAN (GELI)					
				AC-228	1.1146	.0818	10/06/10	024724
				BE-7	.4358	.0928	10/06/10	024724
				BI-212	1.1573	.1268	10/06/10	024724
				BI-214	.9622	.0657	10/06/10	024724
				CO-60	.0378	.0062	10/06/10	024724
				CS-137	.1605	.0155	10/06/10	024724
				K-40	16.1359	.7238	10/06/10	024724

Tennessee Valley Authority

Table 19
RADIOACTIVITY IN POND SEDIMENT
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3313	YP-13	YARD POND	GAMMA SCAN (GELI)					
				PB-212	1.1061	.0556	10/06/10	024724
				PB-214	1.0323	.0586	10/06/10	024724
				TL-208	.3714	.0197	10/06/10	024724
3316	YP-16	YARD POND	GAMMA SCAN (GELI)					
				AC-228	.8327	.0656	10/06/10	024725
				BE-7	.4282	.0667	10/06/10	024725
				BI-212	.7628	.0983	10/06/10	024725
				BI-214	.7764	.0423	10/06/10	024725
				CO-60	.0760	.0073	10/06/10	024725
				CS-137	.0507	.0060	10/06/10	024725
				K-40	9.9753	.5077	10/06/10	024725
				PB-212	.8464	.0397	10/06/10	024725
				PB-214	.8328	.0406	10/06/10	024725
				SB-125	.0800	.0151	10/06/10	024725

Tennessee Valley Authority

Table 19
RADIOACTIVITY IN POND SEDIMENT
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2009 - 12/25/2010

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3316	YP-16	YARD POND	GAMMA SCAN (GELI)	TL-208	.2738	.0158	10/06/10	024725
3317	YP-17	YARD POND	GAMMA SCAN (GELI)	AC-228	.8918	.0612	10/06/10	024726
				BE-7	.6572	.1143	10/06/10	024726
				BI-212	1.0690	.1175	10/06/10	024726
				BI-214	1.0211	.0538	10/06/10	024726
				CO-58	.0373	.0105	10/06/10	024726
				CO-60	.2061	.0184	10/06/10	024726
				CS-137	.0584	.0105	10/06/10	024726
				K-40	9.3125	.4913	10/06/10	024726
				PB-212	.8903	.0596	10/06/10	024726
				PB-214	.6409	.0736	10/06/10	024726
				SB-125	.3190	.0323	10/06/10	024726
				TL-208	.2783	.0212	10/06/10	024726