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Gentlemen:

In the Matter of) Docket Nos. 50-390
Tennessee Valley Authority) 50-391

**WATTS BAR NUCLEAR PLANT (WBN) UNITS 1 AND 2 - ANNUAL
RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT - 2001**

In accordance with the requirements of the WBN Unit 1 Technical Specifications, Section 5.9.2, "Annual Radiological Environmental Operating Report," and the WBN Offsite Dose Calculation Manual (ODCM), Administrative Control Section 5.1, the 2001 Annual Radiological Environmental Monitoring Program (REMP) results and Data Supplement for WBN are enclosed. The REMP implements 10 CFR 50, Appendix I, Sections IV.B.2, IV.B.3, and IV.C.

The report, which is prepared by TVA's Environmental Radiological Monitoring and Instrumentation group at the Western Area Radiological Laboratory (WARL) in Muscle Shoals, Alabama describes and summarizes the results of radioactivity measurements made in the vicinity of WBN and laboratory analyses of samples collected in the area. The results of the environmental samples indicated that radiation exposure to members of the general public, which may have been attributable to the operation of WBN, was negligible. The majority of environmental radioactivity measured is primarily the result of naturally occurring radioactive materials or radionuclides commonly found in the environment.

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If you have any questions about this change, please contact me at
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Sincerely,

A handwritten signature in black ink, appearing to read 'P. L. Pace', written over a large, stylized initial 'P'.

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ANNUAL ENVIRONMENTAL RADIOLOGICAL OPERATING REPORT
WATTS BAR NUCLEAR PLANT
2001

TENNESSEE VALLEY AUTHORITY

April 2002

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EXECUTIVE SUMMARY

This report describes the radiological environmental monitoring program conducted by TVA in the vicinity of the Watts Bar Nuclear Plant (WBN) in 2001. 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, water, milk, foods, soil, fish, clams, 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 Cs-137 were measured in soil samples. The concentrations of Cs-137 in soil were consistent with the level normally found in the environment as the result of past nuclear weapons testing.

Trace levels of Cs-137 were also detected in samples of bottom sediment, and in some of the fish samples. In addition, Co-58, Co-60, Cs-137, and Sb-125 were identified in sediment collected from the onsite Yard Holding Pond. The level of activity measured in these samples would result in no measurable increase over background in the dose 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)-238 and 235, 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 comes from outer space.

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 table, 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. It should be noted that the use of radiation and radioactive materials for medical uses has resulted in a similar effective dose equivalent to the U.S. population as that caused by natural background cosmic and terrestrial 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 outlying areas around the plant. In this way, the release of radioactive materials from the plant is tightly controlled, and verification is provided that the population is not exposed to significant levels of radiation or radioactive materials.

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 153,000, 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 165,000 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, commercial 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 operating license (NPF-90) was received on February 7, 1996. WBN Unit 2 was deferred October 24, 2000, in accordance with the guidance in Generic Letter 87-15, "Policy Statement on Deferred Plants."

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

Most of the radiation and radioactivity generated in a nuclear power reactor is contained within the reactor itself or one of the other plant 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) for WBN is 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. Modifications were made to the WBN monitoring program in 2001 to more closely align the WBN program with the guidance provided in NUREG 1301, (1991), Offsite Dose Calculation Manual Guidance: Standard Radiological Effluent Controls for Pressurized Water Reactors. These program modifications are described in Appendix B.

Deviations occur in the monitoring program due to equipment problems with automatic sampling systems, sample unavailability or when analyses cannot be completed. Deviations to the sampling and analysis schedule during 2001 are described in Appendix C.

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. 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 cross checks, the laboratory participates in a blind sample program administered by Analytix, Incorporated. Samples split with the State of Tennessee provide an additional verification of the overall performance of the laboratory. A complete description of the program is presented in Appendix F.

DIRECT RADIATION MONITORING

Direct radiation levels are measured at a number of stations 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.

Direct radiation levels measured in the area around the WBN site in 2001 were consistent with levels from previous years and with levels measured at other locations in the region.

Measurement Techniques

Direct radiation measurements are made with thermoluminescent dosimeters (TLDs). The Panasonic Model UD-814 dosimeter is used for the measurement of direct radiation levels in the environment. This dosimeter contains four elements consisting of one lithium borate and three calcium sulfate phosphors. The calcium sulfate phosphors are shielded by approximately 100 mg/cm² plastic and lead to compensate for the over-response of the detector to low energy radiation.

The TLDs are placed approximately one meter above the ground, with two or more TLDs at each station. Sixteen monitoring points are located around the plant near the site boundary; one location in each of the 16 compass sectors. An additional 16 monitoring points are located approximately 5 miles from the plant in each of the 16 sectors. Dosimeters are also placed at the perimeter and remote air monitoring sites and at additional locations out to approximately 32 miles from the site. The environmental TLD locations are listed in Table A-3. The TLDs are exchanged every 3 months and the accumulated exposure is read with a Panasonic Model UD-710A automatic reader interfaced with a computer system for data analysis.

Since the calcium sulfate phosphor is much more sensitive than the lithium borate, the measured exposure is taken as the median of the results obtained from the calcium sulfate phosphors. The values are corrected for gamma response, system variations, and transit exposure, with individual gamma response calibrations for each element. The system meets or exceeds the performance specifications outlined in Regulatory Guide 4.13 for environmental applications of TLDs.

Starting in 1974, TVA participated in intercomparisons of environmental dosimeters conducted by the U. S. Department of Energy and other interested parties. The last round of testing for this intercomparison program was 1996. The results, shown in Table 2, demonstrate that direct radiation levels determined by TVA have generally been within ten percent of the calculated or known values.

Results

Results 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 locations within 1 mile of the plant. The second group lies between 1 and 2 miles, the third group between 2 and 4 miles, the fourth group between 4 and 6 miles, and the fifth group is made up of monitoring points more than 6 miles from the plant. Past data have shown that the average results from groups greater than 2 miles from the plant are essentially the same. Therefore, for purposes of this report, locations 2 miles or less from the plant are identified as "onsite" and all others are considered "offsite."

The quarterly gamma radiation levels determined from the TLDs deployed around WBN in 2001 are summarized in Table H-1. The results from all measurements at individual stations are presented in Table H-2. 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 are shown below. For

comparison purposes, the average direct radiation measurements made in the preoperational monitoring program for the period of 1990 to 1995 are also shown.

	Annual Average Direct Radiation Levels WBN <u>mR/Year</u>	
	<u>2001</u>	<u>Preoperational Average</u>
Onsite Stations	65	65
Offsite Stations	59	57

The data in Table H-1 indicate that the average quarterly radiation levels at the WBN onsite stations are approximately 1.5 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 generally 2-6 mR/quarter higher than levels offsite. The causes of these differences have not been isolated; however, it is postulated that the differences are probably attributable to combinations of influences such as natural variations in environmental radiation levels, earth-moving activities onsite, and the mass of concrete employed in the construction of the plant. Other undetermined influences may also play a part.

Figure H-1 compares plots of the data from the onsite or site boundary stations with those from the offsite stations over the period from 1990 through 2001. The results reported in 2001 are consistent with direct radiation levels reported in previous years. 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 remote air monitors are located out to 15 miles. The monitoring program and the locations of monitoring stations are identified in the tables and figures of Appendix A. The remote stations are used as control or baseline stations.

Results from the analysis of samples in the atmospheric pathway are presented in Tables H-3 and H-4. 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. This allows an accurate determination of the volume of air passing through the filter. 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 I-131 by gamma spectroscopy analysis.

Rainwater is collected by use of a collection tray attached to the monitor building. The collection tray is protected from debris by a screen cover. As water drains from the tray, it is collected in one of two 5-gallon containers inside the monitor building. A 1-gallon sample is removed from the container every 4 weeks. Any excess water is discarded. Rainwater samples are held to be analyzed only if air particulate samples indicate the presence of elevated levels or if fallout is expected. For example, rainwater samples were analyzed during the period of fallout following the accident at Chernobyl in 1986. Since no plant-related air activity was detected in 2001, no rainwater samples from WBN were analyzed in this reporting period.

Results

The results from the analysis of air particulate samples are summarized in Table H-3. Gross beta activity in 2001 was consistent with levels reported in previous years. The average gross beta activity measured for air particulate samples from both indicator and control locations was 0.021 pCi/m³. The annual averages of the gross beta activity in air particulate filters at these stations for the period 1977-2001 are presented in Figure H-3. 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 2001 monitoring program was consistent with 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 2001.

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-5 through H-11.

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 doses projected as a result of the 2001 land use survey are presented in Appendix G.

Sample Collection and Analysis

Milk samples are collected every 2 weeks from three 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 provision for sampling of vegetation from locations where milk is being produced and when milk sampling cannot be conducted. There were no periods during 2001 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 ashed and 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 2001 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-5. 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 also below the established LLD's for these analyses. The gamma isotopic analysis of milk samples detected only naturally occurring radionuclides. The predominant isotope reported in milk samples was the naturally occurring K-40.

Consistent with most of the environment, Cs-137 was detected in all of the soil samples collected in 2001. The maximum concentration of Cs-137 was 0.91 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-6.

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 maximum K-40 value was 2,680 pCi/kg in tomatoes. The results are reported in Tables H-7 through H-11.

LIQUID PATHWAY MONITORING

Potential exposures from the liquid pathway can occur from drinking water, ingestion of edible fish and invertebrates, 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, groundwater, drinking water supplies, fish, Asiatic clams (no known human consumption), and bottom 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-12 through H-20. Radioactivity levels in 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 bottom sediment and fish samples. There is no direct exposure pathway to the public through radioactivity in bottom sediment. The levels of Cs-137 in fish are consistent with preoperational data. Results for the sediment sampling conducted in the onsite Yard Holding Pond and Low Volume Waste Treatment Pond 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 and for gross beta activity. The samples are composited quarterly and analyzed for 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 and for gross beta activity. Quarterly composites are analyzed for 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.

Groundwater is sampled from one onsite well down gradient from the plant and one onsite well up gradient from the plant. The onsite wells are sampled with a continuous sampling system. The samples are composited by location quarterly and analyzed for gross beta activity, for gamma-emitting radionuclides, and for tritium content. In addition, a grab sample is collected quarterly 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.

Bottom sediment is collected semiannually from selected Tennessee River Mile (TRM) locations using a dredging apparatus or divers. Samples of shoreline sediment are also taken 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 Yard Holding Pond and Low Volume Waste Treatment Pond. A total of five samples were collected in 2001.

Samples of Asiatic clams are collected semiannually from one location downstream from the plant and one location upstream. Enough clams are collected to produce approximately 50 grams

of wet flesh. The flesh is separated from the shells and the dried flesh samples are analyzed by gamma spectroscopy.

Modifications to the WBN radiological environmental monitoring program eliminated the collection of bottom sediment and Asiatic clams after the first semiannual collection scheduled in the spring of 2001. These modifications are discussed in more detail in Appendix B.

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 and agreed with previously reported levels resulting from fallout or naturally occurring isotopes. A summary table of the results is shown in Table H-12.

No fission or activation products were identified in drinking water samples. Average gross beta activity at downstream stations was 2.8 pCi/liter while the average for upstream stations was 2.5 pCi/liter. The results are shown in Table H-13. Trend plots of the gross beta activity in surface water and drinking water samples from 1977 through 2001 are presented in Figure H-4.

Only naturally occurring radionuclides were identified in ground water samples. Gross beta concentrations in samples from the onsite indicator location averaged 3.2 pCi/liter. The gross beta concentrations measured in samples from the control locations also averaged 3.2 pCi/liter. These results were consistent with the well water results from the preoperational program. The results are presented in Table H-14.

Measurable levels of Cs-137 were identified in a total of seven fish samples. The maximum Cs-137 concentration was 0.07 pCi/g. Other radioisotopes found in fish were naturally occurring, with the most notable being K-40.

The results are summarized in Tables H-15 and H-16. Trend plots of the annual average Cs-137 concentrations measured in fish samples are presented in Figure H-5. The Cs-137 activities are consistent with preoperational results produced by fallout or effluents from other nuclear facilities.

Low levels of Cs-137 were detected in most of bottom sediment samples. Two downstream samples and one upstream sample contained measurable concentrations of Cs-137. The average concentration of Cs-137 measured in bottom sediment collected downstream of WBN was 0.21 pCi/gm while the average concentration for the upstream samples was 0.09 pCi/gm. Results from the analysis of bottom sediment samples are shown in Table H-17.

Only naturally occurring radionuclides were identified in samples of shoreline sediment. The results for the analysis of shoreline sediment is presented in Table H-18. Trend plots of the average concentration of Cs-137 in bottom and shoreline sediment are presented in Figure H-6.

Consistent with previous monitoring conducted for the onsite ponds, Cs-137 was detected in the majority of the 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 and Sb-125 were also detected in some of the samples collected from the Yard Holding Pond. 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 Yard Holding Pond located in the owner controlled area not open to the general public, the presence of these radionuclides would not represent any increased risk of exposure to the general public.

Only naturally occurring radionuclides were detected in samples of Asiatic clams. The results from the analysis of clams samples is presented in Table H-20.

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 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. In reality, the expected dose to actual individuals is significantly lower.

The area around the plant is analyzed to determine the pathways through which the public may receive an exposure. As indicated in Figure 2, the two major ways by which radioactivity is introduced into the environment are through liquid and gaseous effluents.

For liquid effluents, the public can be exposed to radiation from three sources: drinking water from the Tennessee River, eating fish caught in the Tennessee River, and direct exposure to radioactive material due to activities on the banks of the river (recreational activities). Data used to determine these doses are based on guidance given by the NRC for maximum ingestion rates, exposure times, and distribution of the material in the river. Whenever possible, data used in the dose calculation are based on specific conditions for the WBN area.

For gaseous effluents, the public can be exposed to radiation from several sources: direct radiation from the radioactivity in the air, direct radiation from radioactivity deposited on the ground, inhalation of radioactivity in the air, ingestion of fruits or vegetables which contain radioactivity deposited from the atmosphere, and ingestion of milk from animals which consumed vegetation containing deposited radioactivity. The concentrations of radioactivity in the air and the soil are estimated by computer models which use the actual meteorological conditions to determine the distribution of the effluents in the atmosphere. Again, as many of the parameters as possible are based on actual site specific data.

Results

The estimated doses to the maximum exposed individual due to radioactivity released from WBN in 2001 are presented in Table 3. These estimates were made using the concentrations of the liquids and gases measured at the effluent monitoring points. Also shown are the regulatory limits for these doses and a comparison between the calculated dose and the corresponding limit. The maximum calculated whole body dose equivalent from measured liquid effluents as presented in Table 3 is $7.6E-03$ mrem/year, or less than one percent of the limit. The maximum organ dose equivalent from gaseous effluents is $4.8E-02$ mrem/year. This value is less than 0.3 percent of the ODCM limit. A more complete description of the effluents released from WBN and the corresponding doses projected from these effluents can be found in the WBN Annual Radioactive Effluent Release Report.

The estimated increase in radiation dose equivalent to the general public resulting from the operation of WBN is negligible 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 sediment, soil, and fish collected for the WBN program. The concentrations measured were consistent with levels measured during the preoperational monitoring program.

The samples of pond sediment were not included in the assessment of doses from environmental radionuclides. As discussed earlier, these radionuclides were contained in the sediment from the Yard Holding Pond which is in 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. Merrill 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	300	100,000		
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 Source: Table 2 of Appendix B to 10 CFR 20.1001-20.2401

2 Source: WBN Offsite Dose Calculation Manual, Table 2.3-2

3 Source: Table E-1 of this report.

Table 2
Results from the
Intercomparison of Environmental Dosimeters

<u>Year</u>	<u>TVA Results</u> <u>mrem</u>	<u>Average, all</u> <u>Respondents</u> <u>mrem</u>	<u>Calculated</u> <u>Exposure</u> <u>(See Note 1)</u> <u>mrem</u>	<u>% Difference</u> <u>TVA:</u> <u>Calculated</u>	<u>% Difference</u> <u>Respondents:</u> <u>Calculated</u>
Field Dosimeters					
74	15.0	16.3	16.3	-8.0	0.0
77	30.4	31.5	34.9	-12.9	-9.7
79	13.8	16.0	14.1	-2.1	13.5
81	31.8	30.2	30.0	6.0	0.7
82	43.2	45.0	43.5	-0.7	3.4
84	73.0	75.1	75.8	-3.7	-0.9
86a	33.2	28.9	29.7	11.8	-2.7
86b	9.4	10.1	10.4	-9.6	-2.9
93a	24.4	26.4	27.0	-9.6	-2.2
93b	27.6	26.4	27.0	2.2	-2.2
96a	16.9	18.9	19.0	-11.1	-0.5
96b	17.6	18.9	19.0	-7.4	-0.5
Low Irradiated Dosimeters					
74	27.9	28.5	30.0	-7.0	-5.0
79	12.1	12.1	12.2	-0.8	-0.8
86	18.2	16.2	17.2	5.8	-5.8
93a	24.9	25.0	25.9	-3.9	-3.5
93b	27.8	25.0	25.9	7.3	-3.5
High Irradiated Dosimeters					
77	99.4	86.2	91.7	8.4	-6.0
79	46.1	43.9	45.8	0.7	-4.1
81a	84.1	75.8	75.2	11.8	0.8
81b	102.0	90.7	88.4	15.4	2.6
82a	179.0	191.0	202.0	-11.4	-5.4
82b	136.0	149.0	158.0	-13.9	-5.7
84a	85.6	77.9	79.9	7.1	-2.5
84b	76.8	73.0	75.0	2.4	-2.7
93a	67.8	69.8	72.7	-6.7	-4.0
93b	80.2	69.8	72.7	10.3	-4.0
96a	60.7	55.2	58.1	4.5	-5.0
96b	59.4	55.2	58.1	2.2	-5.0

Notes: 1. The calculated exposure is the "known" exposure determined by the testing agency.

Table 3

Maximum Dose Due to Radioactive Effluent Releases
 Watts Bar Nuclear Plant
 2001
 mrem/year

Dose From Liquid Effluents

<u>Type</u>	<u>2001 Dose</u>	<u>NRC Limit</u>	<u>Percent of NRC Limit</u>
Total Body	7.62E-03	3	< 1.0
Any Organ	7.73E-03	10	< 1.0

Doses From Gaseous Effluents

<u>Type</u>	<u>2001 Dose</u>	<u>NRC Limit</u>	<u>Percent of NRC Limit</u>
Noble Gas (Gamma)	2.11E-01	10	< 1.0
Noble Gas (Beta)	8.25E-02	20	< 1.0
Any Organ	4.80E-02	15	< 1.0

Total Cumulative Dose

<u>Type</u>	<u>2001 Dose</u>	<u>EPA Limit</u>	<u>Percent of EPA Limit</u>
Total Body or Any Other Organ	1.85E-01	25	< 1.0
Thyroid	1.84E-01	75	< 1.0

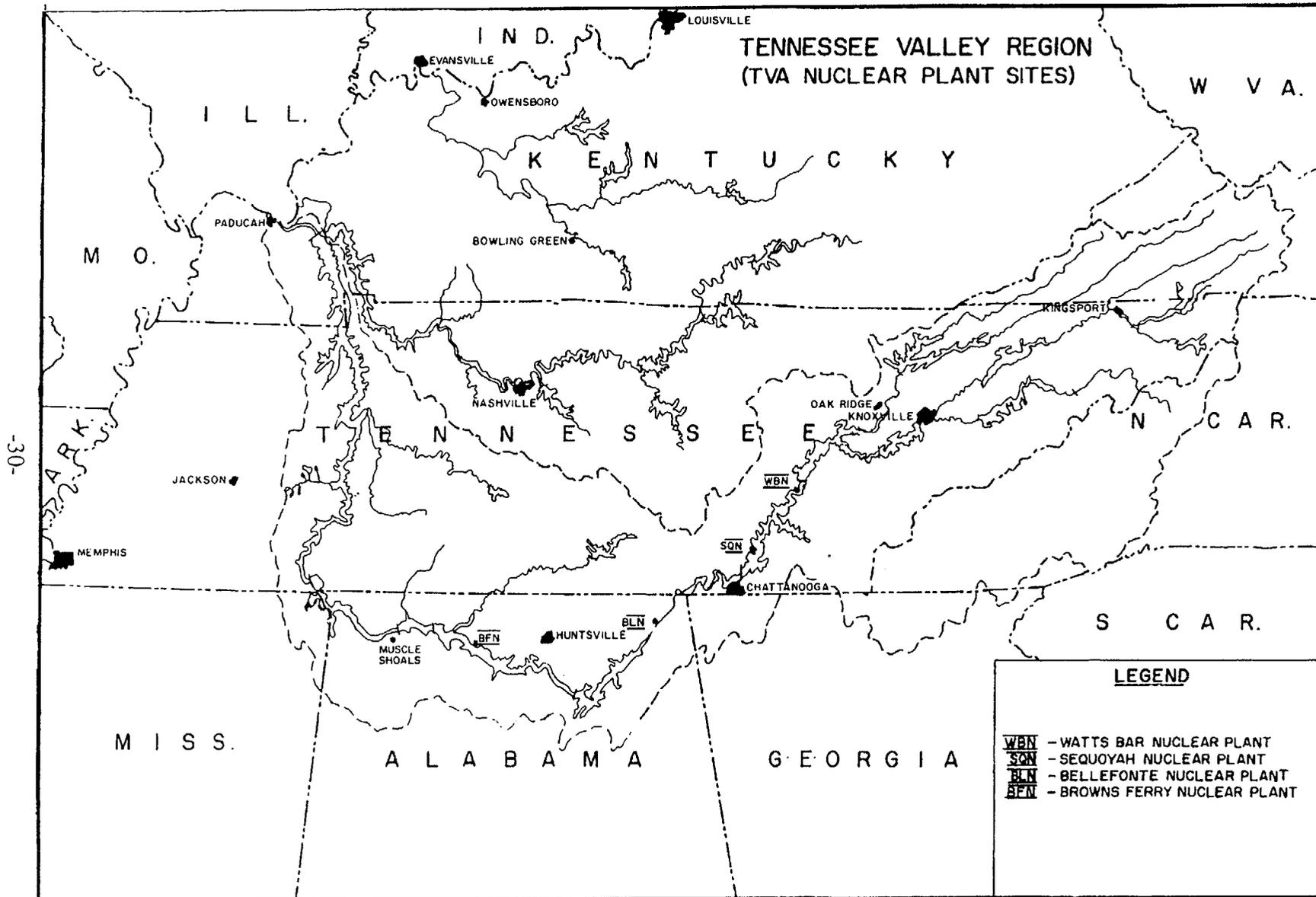
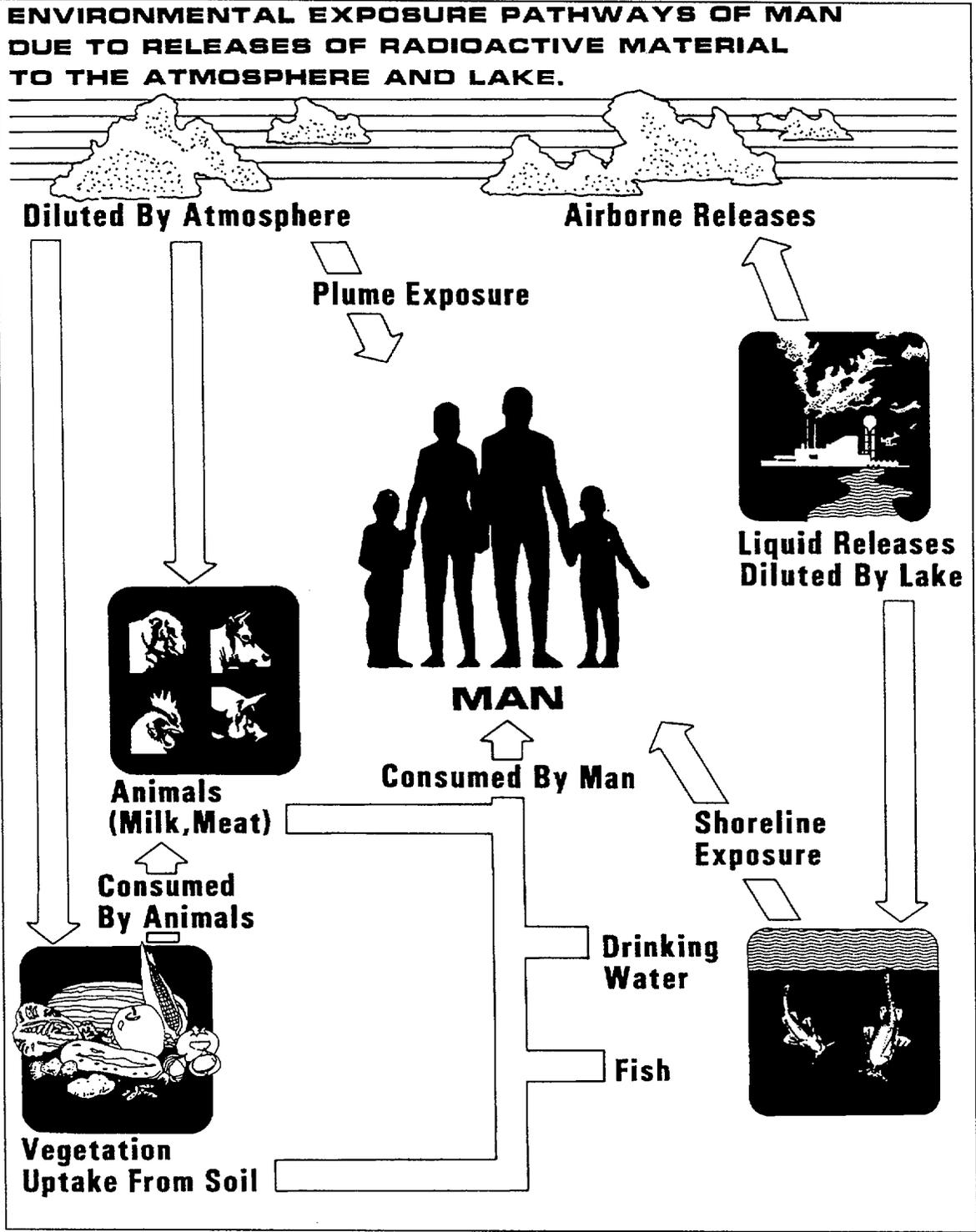


Figure 1

-30-

Figure 2



APPENDIX A

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM AND
SAMPLING LOCATIONS

Table A-1

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

Exposure Pathway and/or Sample	Number of Samples and Locations ^b	Sampling and Collection Frequency	Type and Frequency of Analysis
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. Rainwater	Samples from same locations as air particulates.	Rainwater collected continuously with composite sample taken monthly.	Analyzed for gamma activity only if radioactivity in other media indicates the presence of increased levels of fallout.
d. Soil	Samples from same locations as air particulates.	Once per year.	Gamma scan, Sr-89, Sr-90 once per year.

Table A-1

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM^a

Exposure Pathway and/or Sample	Number of Samples and Locations ^b	Sampling and Collection Frequency	Type and Frequency of Analysis
2. DIRECT	2 or more dosimeters (TLDs) placed at or near the site boundary in each of the 16 sectors.	At least once per 92 days.	Gamma dose at least once per 92 days.
	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.		
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 and gamma scan of each composite sample. Composite for tritium analysis at least once per 92 days.
	1 sample at a control location upstream from plant discharge (TRM 529.3).		
b. Ground	One sample adjacent to plant (well No. 1).	Collected by automatic sequential-type sampler ^c with composite samples collected over a period of approximately 31 days.	Composited for gross beta, gamma scan, and tritium at least once per 92 days.

Table A-1

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>
b. Ground (Continued)	1 sample from ground water source up gradient (well No. 5).	Same as well No. 1.	Gross beta, gamma scan, and tritium at least once per 92 days.
	1 sample from ground water source up gradient (Farm L).	Grab sample at least once per 92 days.	Same as above
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 and gamma scan on each composite. Quarterly composite also analyzed for tritium.
	1 sample at a control location TRM529.3 ^d .		

Table A-1

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>
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.
5. INGESTION			
a. Milk	3 samples from farms and/or dairies in the immediate vicinity of the plant. 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

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 ^a (Pasturage 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 2000.
 - 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,R,S
3	PM-3	NNE	10.4	I	AP,CF,R,S
4	PM-4	NE/ENE ^c	7.6	I	AP,CF,R,S
5	PM-5	S	8.0	I	AP,CF,R,S
6	RM-2	SW	15.0	C	AP,CF,R,S
7	RM-3	NNW	15.0	C	AP,CF,R,S
8	LM-1	SSW	0.5	I	AP,CF,R,S
9	LM-2	N	0.5	I	AP,CF,R,S
10	LM-3	NNE	1.9	I	AP,CF,R,S
11	LM-4	SE	0.9	I	AP,CF,R,S
12	Farm L	SSW	1.3	jd	M,W
15	Farm B	E	15.0	C	M
18	Well #1	S	0.6	I	W
19	Farm Mu	ESE	3.7	I	M
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)				
38	Chickamauga Reservoir			I	F
39	Watts Bar Reservoir			C	F
81	Yard Pond	SSE/S/SSW	Onsite	I	PS

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

b. Sample codes:

AP = Air particulate filter	PW = Public Water	SS = Shoreline sediment
CF = Charcoal filter	PS = Pond Sediment	SW = Surface water
F = Fish	R = Rainwater	W = Well water
M = Milk	S = Soil	

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
THERMOLUMINESCENT DOSIMETER (TLD) 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	ENE	7.6	Off
5	S-3	S	6.2	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
15	E-3	E	15.0	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-1	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

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

b. TLDs 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

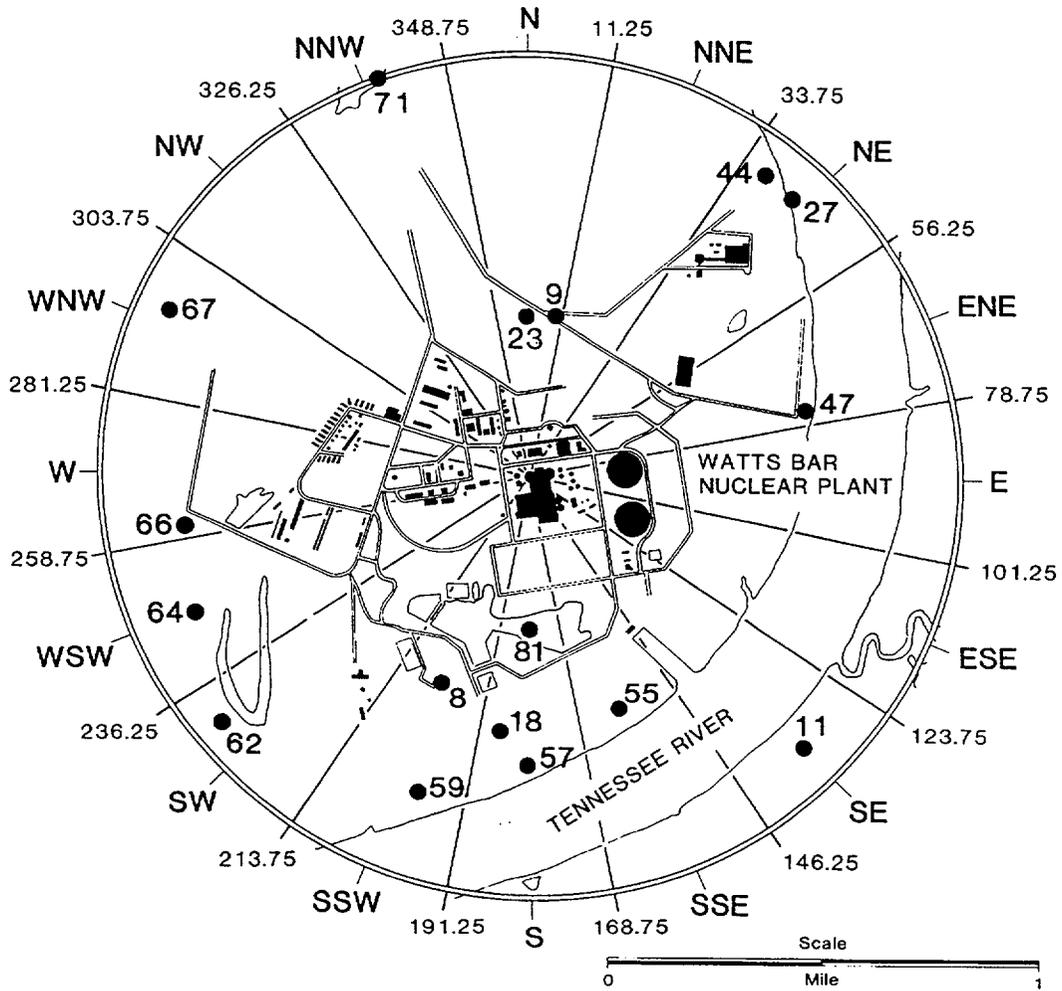


Figure A-2

Radiological Environmental Sampling Locations

From 1 to 5 Miles From The Plant

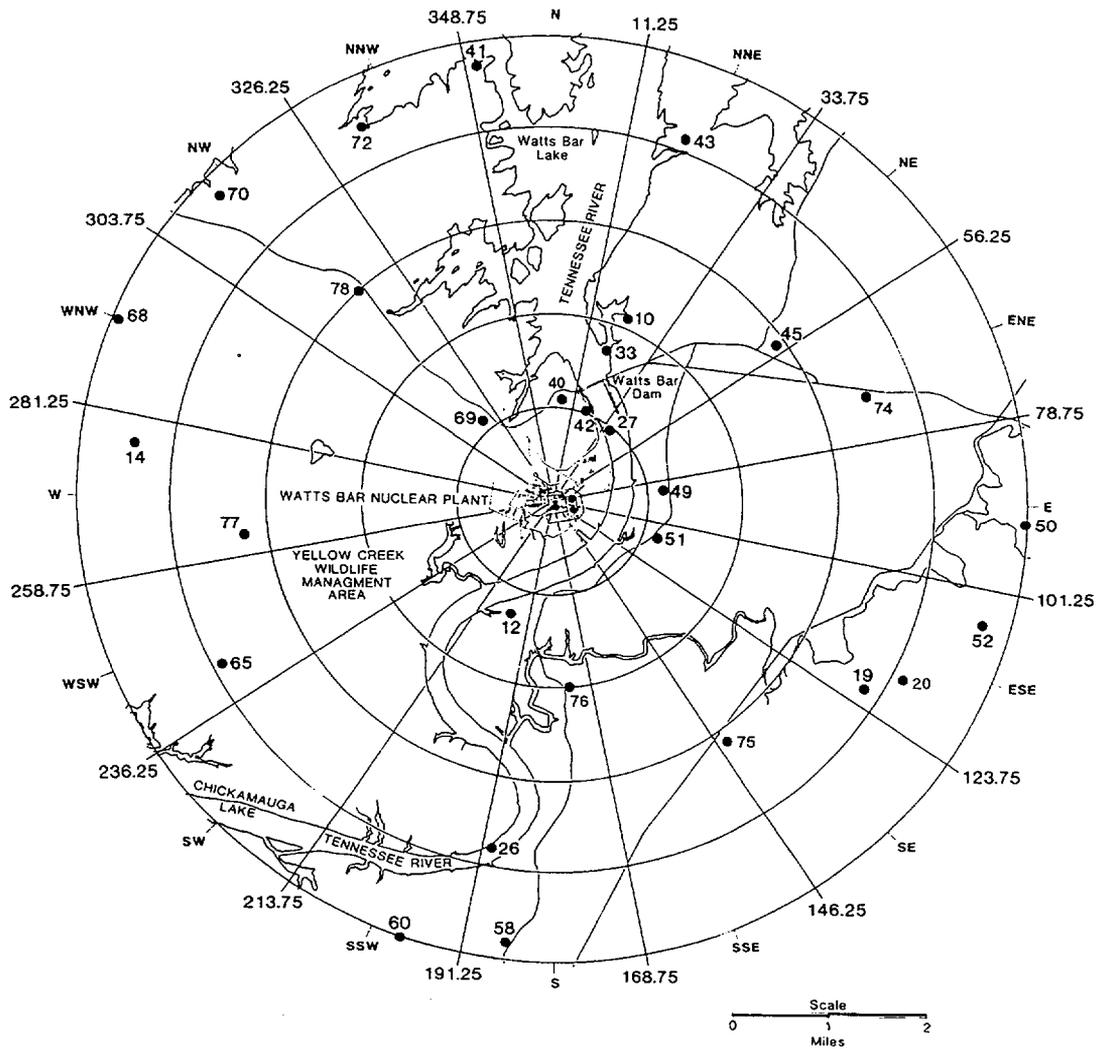
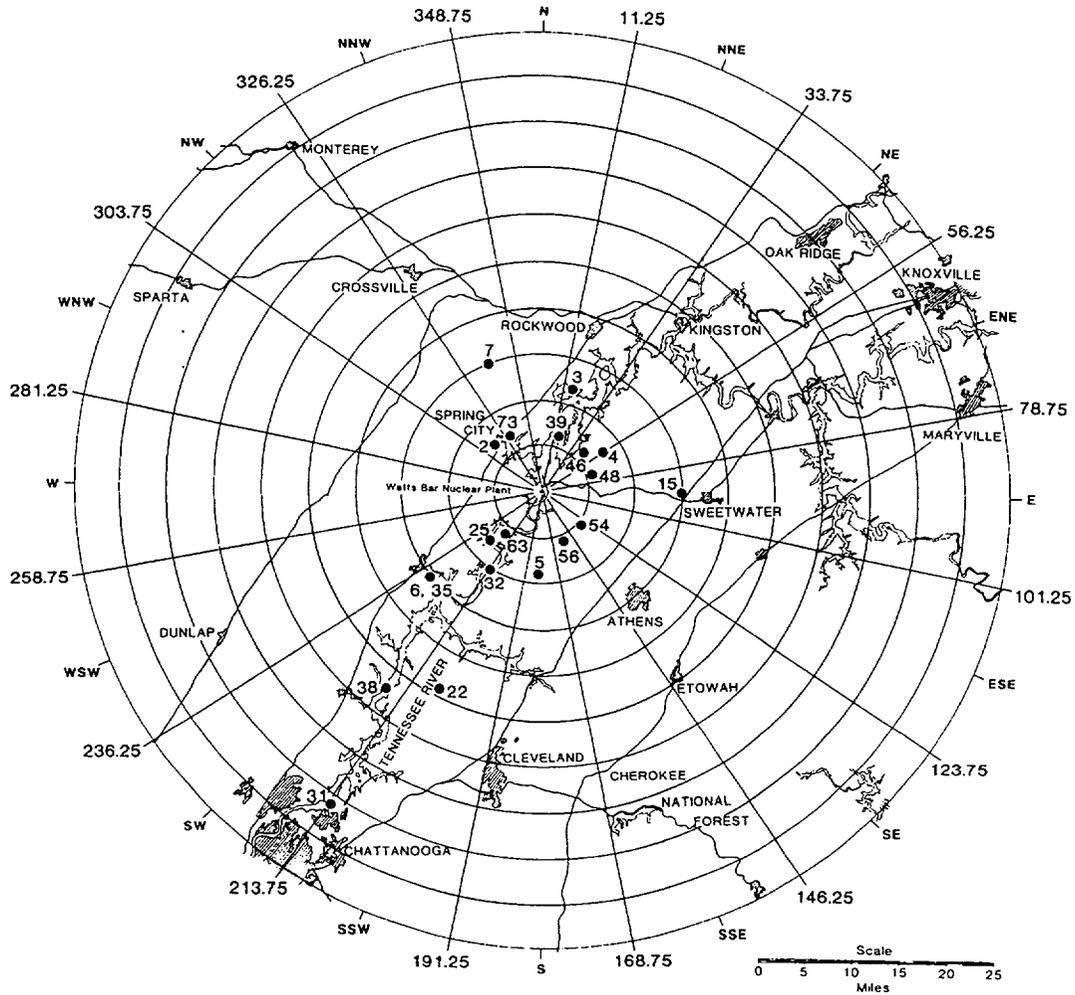


Figure A-3

Radiological Environmental Sampling Locations

Greater Than 5 Miles From the Plant



APPENDIX B
2001 PROGRAM MODIFICATIONS

Appendix B

Radiological Environmental Monitoring Program Modification

Modifications were made to the WBN radiological environmental monitoring program to more closely align the WBN program with the guidance provided in NUREG-1301 (April 1991), Offsite Dose Calculation Manual Guidance: Standard Radiological Effluent Controls for Pressurized Water Reactors. These changes included revision of the fish sampling to focus on the recreationally and commercially important species instead of the specified species that had been previously required by the program description. The collection of bottom sediment and Asiatic clams were eliminated from the program. Collection of these samples was not providing any data that would relate to the exposure pathway to man. There is no human consumption of the Asiatic clams. Shoreline sediment is sampled in the program and provides the data for direct exposure pathway to humans for deposited radionuclides.

The sampling of vegetation was also modified to serve as a replacement for milk sampling when milk cannot be collected from a milk sampling location. There were no periods where vegetation sampling was required during the 2001 monitoring year.

These program modifications are summarized in Table B-1.

Table B-1

Radiological Environmental Monitoring Program Modifications

<u>Date</u>	<u>Station</u>	<u>Location</u>	<u>Description of Program Change</u>
01/01/01	Farm OH	4.8 miles WSW	Eliminated vegetation collection since there is no milk production at this location.
01/01/01	Farm L	1.3 miles SSW	Modified vegetation sampling to be required only as replacement for milk.
10/01/01	TRM 532.1	4.3 miles upstream	Eliminated collection of bottom sediment.
10/01/01	TRM 527.4	0.4 miles downstream	Eliminated collection of bottom sediment.
10/01/01	TRM 518.0	4.8 miles downstream	Eliminated collection of bottom sediment.
10/01/01	TRM 496.5	31.3 miles downstream	Eliminated collection of bottom sediment.
10/01/01	NA	Chickamauga Reservoir	Eliminated the collection of Asiatic clams and modified collection of fish to recreationally and commercially important species.
10/01/01	NA	Watts Bar Reservoir	Modified collection of fish to recreationally and commercially important species.

APPENDIX C
PROGRAM DEVIATIONS

Appendix C

Program Deviations

During 2001, problems with sampling equipment resulted in sample unavailability or inadequate sample volumes for three sets of air particulate filter and charcoal cartridge samples, two public water samples, one surface water sample and two ground water samples.

Table C-1 provides additional details of these program deviations.

Table C-1

Radiological Environmental Monitoring Program Deviations

<u>Date</u>	<u>Station</u>	<u>Location</u>	<u>Remarks</u>
01/09/01	TRM 523.1	4.7 miles downstream	The sample volume collected by the automatic surface water samplers was not adequate. The sampling line from pump located in the reservoir and the sampler located on the bank had been cut. The line was replaced and a sample was collected for the next scheduled collection period.
02/14/01	LM-4	0.9 miles SE	The air particulate filter and charcoal cartridge sample could not be collected due to equipment problems. The drive belt on the sampling pump was broken. Repairs were made and samples were collected for next scheduled collection period.
03/20/01	LM-2	0.5 miles N	The air particulate filter and charcoal cartridge sample could not be collected due to equipment problems. The thermal cut off breaker on the sampler motor was defective. Repairs were made and samples were collected for next scheduled collection period.
04/17/01	LM-1	0.5 miles SSW	The air particulate filter and charcoal cartridge sample could not be collected due to equipment problems. The circuit breaker for the electrical power to the sampler failed. Repairs were made and samples were collected for next scheduled collection period.
06/27/01	Well #5	0.5 miles N	The composite ground water sample was not collected by the automatic sampler due to problem with the starter relay on the sampler. Repairs were made and a sample was collected for the next scheduled sampling period.
07/10/01	TRM 473.0	54.8 miles downstream	Problems with the automatic water sampler at this location prevented collection of a adequate sample volume for the public water supply sample scheduled for collection on 07/10/01. The failure involved problems with the timer that controls the automatic sampling pump. Repairs were made and a sample was collected at the next scheduled collection period.
07/25/01	Well #1	0.6 miles S	The composite ground water sample was not collected by the automatic sampler due to problem with the sampler. Electrical power to the sampler was temporary interrupted. Power was restored and a sample was collected for the next scheduled sampling period.
11/27/01	TRM 503.8	24.0 miles downstream	Problems with the automatic water sampler located at the intake to the Dayton, TN, water plant prevented collection of the public water sample on 11/27/01. Repairs were made and the sample was collected as scheduled for next sampling period.

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. 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, 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.

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		300			
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	.005	.02	10	.07	35	.10	.07	.35	20
Ce-144	.01	.07	30	.15	115	.20	.15	.85	60
Cr-51	.02	0.15	45	.30	200	.35	.30	2.40	95
I-131	.005	0.03	10	.20	60	.25	.20	1.70	20
Ru-103	.005	0.02	5	.03	25	.03	.03	.25	25
Ru-106	.02	0.12	40	.15	190	.20	.15	1.25	90
Cs-134	.005	0.02	5	.03	30	.03	.03	.14	10
Cs-137	.005	0.02	5	.03	25	.03	.03	.15	10
Zr-95	.005	0.03	10	.05	45	.05	.05	.45	45
Nb-95	.005	0.02	5	.25	30	.04	.25	.25	10
Co-58	.005	0.02	5	.03	20	.03	.03	.25	10
Mn-54	.005	0.02	5	.03	20	.03	.03	.20	10
Zn-65	.005	0.03	10	.05	45	.05	.05	.40	45
Co-60	.005	0.02	5	.03	20	.03	.03	.20	10
K-40	.04	0.30	100	.40	400	.75	.40	3.50	250
Ba-140	.015	0.07	25	.30	130	.30	.30	2.40	50
La-140	.01	0.04	10	.20	50	.20	.20	1.40	25
Fe-59	.005	0.04	10	.08	40	.05	.08	.45	25
Be-7	.02	0.15	45	.25	200	.25	.25	1.90	90
Pb-212	.005	0.03	15	.04	40	.10	.04	.30	40
Pb-214	.005	0.07	20	.50	80	.15	.50	.10	80
Bi-214	.005	0.05	20	.10	55	.15	.10	.50	40
Bi-212	.02	0.20	50	.25	250	.45	.25	2.00	130
Tl-208	.002	0.02	10	.03	30	.06	.03	.25	30
Ra-224	--	--	--	--	--	.75	--	--	--
Ra-226	--	--	--	--	--	.15	--	--	--
Ac-228	.01	0.07	20	.10	70	.25	.10	.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 thorough 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, a complete training and qualification process, 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.

Radiation detection devices can be tested in a number of ways. There are two primary tests which are performed on all devices. In the first type, the device is operated without a sample on the detector to determine the background count rate. The background counts are usually low values and are due to machine noise, cosmic rays, trace amounts of radioactivity in the materials used to construct the detector, or terrestrial sources. Charts of background counts are kept and monitored to ensure that no unusually high or low values are encountered.

In the second test, the device is operated with a known amount of radioactivity present. The number of counts registered from such a radioactive standard should be very reproducible. These reproducibility checks are also monitored to ensure that they are neither higher nor lower than expected. When counts from either test fall outside the expected range, the device is inspected for malfunction or contamination. It is not placed into service until it is operating properly.

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 may be blanks, replicate samples, 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 personnel can split it into two portions. Such a sample can provide 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. Whenever possible, the analytical knowns contain the same amount of radioactivity each time they are run. In this way, the lab staff has immediate knowledge of the quality of the measurement process. A portion of these samples are also blanks.

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 samples contain 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 they can be used to test the data review process. If an analysis routinely generates numerous zeroes for a particular isotope, the presence of a positive result will be brought to the attention of the laboratory supervisor in the daily review process. Blind spikes test this process since they 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 determine whether or not the laboratory can find any unusual radioactivity whatsoever.

At present, 5 percent of the laboratory workload is in the category of 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 personnel performing the analyses do not. They are aware they are being tested. Such samples test the best performance of the laboratory by determining if the staff 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. During 2001, all analysis results for internal cross-check samples were within agreement limits when compared to the known value.

To provide for interlaboratory comparison program cross-check samples, the laboratory participated in an environmental level cross-check program available through Analytics Incorporated. The results of TVA's participation in this program are presented in Table F-1.

TVA splits certain environmental samples with laboratories operated by the States of Alabama and Tennessee and the EPA National Air and Radiation Environmental Laboratory in Montgomery, Alabama. When radioactivity has been present in the environment in measurable quantities, such as following atmospheric nuclear weapons testing, following the Chernobyl incident, or as naturally occurring radionuclides, the split samples have provided TVA with yet another level of information about laboratory performance. These samples demonstrate performance on actual environmental sample matrices rather than on the constructed matrices used in cross-check programs.

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 results 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 2001 External Cross Checks

<u>Test Period</u>	<u>Sample Type / Analysis</u>	<u>Results</u>		<u>Agreement Range</u>
		<u>Known</u>	<u>TVA</u>	
First Quarter	Water (pCi/L) Gross Beta	268	305	228 - 308
First Quarter	Charcoal Filter (pCi/Filter) 131I	84	72	59- 109
First Quarter	Water (pCi/L)			
	131I	79	81	55- 103
	141Ce	44	44	37- 51
	51Cr	101	103	71- 131
	134Cs	125	120	106 - 144
	137Cs	102	102	87 - 117
	58Co	34	37	19 - 49
	54Mn	94	104	80 - 108
	59Fe	49	45	34 - 64
	65Zn	169	170	118 - 220
	60Co	145	149	123 - 167
First Quarter	Water (pCi/L)			
	89Sr	85	92	70 - 100
	90Sr	40	37	25 - 55
Third Quarter	Water (pCi/L)			
	3H	4582	4542	3207 - 5957
Third Quarter	Sand (pCi/g)			
	141Ce	0.154	0.149	0.131 - 0.177
	51Cr	0.467	0.479	0.327 - 0.607
	134Cs	0.204	0.178	0.173 - 0.235
	137Cs	0.408	0.381	0.347 - 0.469
	58Co	0.226	0.217	0.192 - 0.260
	54Mn	0.262	0.273	0.223 - 0.301
	59Fe	0.109	0.123	0.093 - 0.125
	65Zn	0.325	0.326	0.228 - 0.423
	60Co	0.340	0.326	0.289 - 0.391
Third Quarter	Air Filter (pCi/Filter) Gross Beta	92.0	84.0	77.0 - 107.0
Third Quarter	Air Filter (pCi/Filter)			
	141Ce	76.0	84.0	64.6 - 87.4
	51Cr	231.0	198.0	161.7 - 300.3
	134Cs	101.0	100.0	86.0 - 116.0
	137Cs	202.0	194.0	171.7 - 232.3
	58Co	112.0	112.0	97.0 - 127.0
	54Mn	130.0	136.0	115.0 - 145.0
	59Fe	54.0	60.0	39.0 - 69.0
	65Zn	161.0	122.0	112.7 - 209.3
	60Co	168.0	171.0	142.8 - 193.2

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.

From the data of the surveys, 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 design basis source terms and 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. Calculated doses to individuals based on measured effluents from the plant are well below applicable dose limits (see Assessment and Evaluation Section and Table 3 of this report).

In response to the 2001 WBN land use survey, annual doses were calculated for air submersion, vegetable ingestion, and milk ingestion. The air submersion doses calculated for the nearest residence in each sector were the same as those calculated in 2000 since there were no changes in the location of the nearest residence.

Doses calculated for ingestion of home grown foods changed in five sectors compared to the results calculated in 2000 due to changes in the location of the nearest garden.

For milk ingestion, projected doses were consistent with those calculated for 2000. There were small changes for the annual dose results due to changes in the feeding factor. Except for the farm where the owner does not want to participate in the program (Farm Ho), milk samples are being collected from the three farms where the calculated doses are highest. One of the farms providing a milk sample is between Farm Ho and the plant.

The results of the 2001 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 2000 and 2001.

Table G-1

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

mrem/year

<u>Sector</u>	<u>2000</u>		<u>2001</u>	
	<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	2.3	0.20	2.3	0.20
NE	2.1	0.19	2.1	0.19
ENE	1.5	0.31	1.5	0.31
E	2.0	0.18	2.0	0.18
ESE	2.8	0.12	2.8	0.12
SE	0.9	0.76	0.9	0.76
SSE	1.0	0.38	1.0	0.38
S	1.0	0.37	1.0	0.37
SSW	1.2	0.29	1.2	0.29
SW	2.7	0.09	2.7	0.09
WSW	1.3	0.38	1.3	0.38
W	1.8	0.07	1.8	0.07
WNS	1.0	0.17	1.0	0.17
NW	1.9	0.04	1.9	0.04
NNW	2.7	0.03	2.7	0.03

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>2000</u>		<u>2001</u>	
	<u>Approximate Distance (Miles)</u>	<u>Annual Dose</u>	<u>Approximate Distance (Miles)</u>	<u>Annual Dose</u>
N	4.8	0.50	4.8	0.50
NNE	3.8	1.68	3.8	1.68
NE	3.1	2.13	2.4	3.36
ENE	3.0	1.98	3.0	1.98
E	5.0	0.83	5.0	0.83
ESE	3.0	2.25	3.0	2.25
SE	2.9	2.17	2.9	2.17
SSE	1.0	7.45	1.3	5.92
S	2.0	3.08	3.1	1.41
SSW	1.2	6.86	1.4	5.46
SW	b		b	
WSW	2.9	1.73	2.9	1.73
W	3.2	0.59	3.2	0.59
WNW	3.6	0.26	3.6	0.26
NW	2.0	0.76	2.0	0.76
NNW	2.8	0.69	2.9	0.62

- 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>	Approximate Distance <u>Miles</u>	<u>Annual Dose</u>		<u>X/Q</u> <u>s/m³</u>
			<u>2000</u>	<u>2001</u>	
<u>Cows</u>					
Farm Mu ^b	ESE	3.7	0.12	0.08	1.14 E-6
Farm N ^b	ESE	4.1	0.05	0.04	9.44 E-7
Farm L ^b	SSW	1.3	0.33	0.27	2.36 E-6
Farm Ho ^c	SSW	1.5	0.33	0.33	1.43 E-6
Farm S	NW	4.9	0.01	0.01	1.26 E-7

-
- 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 0.52, 1.07 and 2.53 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 - 2001
mR/Quarter (a)

Distance miles	Average External Gamma Radiation Levels (b)				per annum mR/yr
	1 st qtr	2 nd qtr	3 rd qtr	4 th qtr	
0 - 1	16.7 ± 2.5	17.1 ± 2.3	17.0 ± 2.4	17.3 ± 2.4	68
1 - 2	15.1 ± 1.4	15.0 ± 1.5	14.8 ± 1.7	15.5 ± 1.1	61
2 - 4	14.7 ± 1.2	14.7 ± 1.3	14.6 ± 1.3	15.1 ± 1.6	59
4 - 6	15.2 ± 1.7	15.4 ± 1.7	14.9 ± 1.6	15.5 ± 1.8	61
>6	14.1 ± 2.0	14.2 ± 1.9	14.1 ± 2.1	14.1 ± 2.2	57
Average 0 - 2 miles (onsite)	16.1 ± 2.3	16.3 ± 2.3	16.2 ± 2.4	16.6 ± 2.2	65
Average >2 miles (offsite)	14.7 ± 1.8	14.9 ± 1.8	14.6 ± 1.7	15.0 ± 2.0	59

- (a) Field periods normalized to one standard quarter (2190 hours)
(b) Average of the individual measurements in the set ± 1 standard deviation of the set

Table H-2

DIRECT RADIATION LEVELS

Individual Stations at Watts Bar Nuclear Plant

Map Location Number	TLD Station Number	Direction, degrees	Approx Distance, miles	Environmental Radiation Levels mR/quarter				Annual Exposure mR/year
				1st qtr Dec - Feb 2000 - 01	2nd qtr Mar - May 2001	3rd qtr Jun - Aug 2001	4th qtr Sep - Nov 2001	
40	N-1	10	1.2	16.7	16.9	17.0	17.3	68.0
41	N-2	350	4.7	15.7	16.3	15.4	16.0	63.4
42	NNE-1	21	1.2	16.3	16.5	16.9	16.9	66.6
10	NNE-1A	22	1.9	14.1	13.1	13.4	14.2	54.8
43	NNE-2	20	4.1	13.4	14.1	12.9	14.2	54.7
3	NNE-3	17	10.4	13.6	14.0	14.2	13.3	55.1
44	NE-1	39	0.9	18.7	19.4	19.1	19.4	76.5
45	NE-2	54	2.9	15.9	15.7	15.4	16.1	63.2
46	NE-3	47	6.1	12.4	12.8	12.2	12.6	50.0
47	ENE-1	74	0.7	17.0	17.7	17.5	17.4	69.6
48	ENE-2	69	5.8	14.0	14.4	14.2	14.1	56.7
74	ENE-2A	69	3.5	12.7	12.4	12.5	12.7	50.3
4	ENE-3	56	7.6	13.9	14.2	14.3	14.5	56.9
49	E-1	85	1.3	15.3	15.0	14.9	15.4	60.7
50	E-2	92	5.0	15.8	16.3	16.1	16.8	65.0
15	E-3	90	15.0	17.7	17.7	17.9	18.5	71.8
51	ESE-1	109	1.2	12.7	12.9	12.6	14.0	52.3
52	ESE-2	106	4.4	18.3	18.1	17.6	18.7	72.7
11	SE-1A	138	0.9	14.5	15.3	14.9	15.9	60.6
54	SE-2	128	5.3	13.4	13.4	13.4	13.5	53.6
75	SE-2A	144	3.1	14.8	14.9	14.5	14.7	58.8
55	SSE-1	156	0.6	15.5	16.3	15.9	16.4	64.2
56	SSE-2	156	5.8	16.4	16.5	15.4	16.6	64.9

Table H - 2 continued

DIRECT RADIATION LEVELS

Individual Stations at Watts Bar Nuclear Plant

Map Location Number	TLD Station Number	Direction, degrees	Approx Distance, miles	Environmental Radiation Levels mR/quarter				Annual Exposure mR/year
				1st qtr Dec - Feb 2000 - 01	2nd qtr Mar - May 2001	3rd qtr Jun - Aug 2001	4th qtr Sep - Nov 2001	
57	S-1	182	0.7	14.7	15.0	14.9	15.0	59.5
58	S-2	185	4.8	12.2	12.9	12.3	13.0	50.4
76	S-2A	177	2.0	15.9	16.1	16.6	17.6	66.1
5	S-3	185	6.2	15.0	12.8	12.4	13.0	53.2
59	SSW-1	199	0.8	19.1	18.8	19.3	19.4	76.5
12	SSW-2	200	1.3	14.0	14.6	14.2	15.3	58.0
60	SSW-3	199	5.0	note 1	13.3	13.4	13.6	53.8
62	SW-1	226	0.8	17.3	18.1	18.2	18.9	72.6
63	SW-2	220	5.3	14.9	14.6	15.5	15.1	60.1
6	SW-3	225	15.0	13.6	13.8	12.8	13.7	53.8
64	WSW-1	255	0.9	14.1	14.9	14.7	15.0	58.7
65	WSW-2	247	4.0	16.4	16.7	15.4	16.8	65.3
66	W-1	270	0.9	15.8	15.5	16.1	16.2	63.5
14	W-2	277	4.8	13.1	13.2	12.9	13.0	52.2
77	W-2A	268	3.2	15.2	15.3	15.0	15.7	61.2
67	WNW-1	294	0.9	22.5	22.3	22.2	22.6	89.6
68	WNW-2	292	4.9	17.0	18.3	17.4	18.3	71.0
69	NW-1	320	1.1	16.7	16.3	note 1	15.7	64.8
70	NW-2	313	4.7	16.3	16.8	16.1	16.7	66.0
78	NW-2A	321	3.0	13.6	13.7	13.5	13.9	54.6
2	NW-3	317	7.0	17.0	17.7	17.5	17.1	69.3
71	NNW-1	340	1.0	14.1	14.4	14.3	14.3	57.1
72	NNW-2	333	4.5	15.7	15.9	15.2	15.8	62.6
73	NNW-3	329	7.0	11.0	12.0	11.7	11.2	45.8
7	NNW-4	337	15.0	12.9	13.3	13.9	13.0	53.1

note 1 Sum of available quarterly data normalized to 1 year for the annual exposure value

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GROSS BETA	517					
	2.00E-03	2.09E-02(413/ 413) 1.00E-02- 4.87E-02	PM5 DECATUR 6.2 MILES S	2.11E-02(52/ 52) 1.04E-02- 3.90E-02	2.05E-02(104/ 104) 1.04E-02- 4.58E-02	
GAMMA SCAN (GELI)	130					
BE-7	2.00E-02	9.47E-02(104/ 104) 5.93E-02- 1.44E-01	PM3 10.4 MILES NNE	1.00E-01(13/ 13) 7.32E-02- 1.44E-01	9.58E-02(26/ 26) 5.87E-02- 1.39E-01	
B1-214	5.00E-03	1.36E-02(77/ 104) 5.20E-03- 3.16E-02	LM3 1.9 MILES NNE	1.65E-02(11/ 13) 8.00E-03- 3.16E-02	1.33E-02(21/ 26) 5.70E-03- 3.86E-02	
PB-214	5.00E-03	1.30E-02(73/ 104) 5.00E-03- 2.93E-02	PM3 10.4 MILES NNE	1.59E-02(10/ 13) 1.22E-02- 2.29E-02	1.34E-02(20/ 26) 5.50E-03- 4.15E-02	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
	517					
BI-214	5.00E-02	8.53E-02(90/ 413) LM3 5.11E-02- 4.16E-01	1.9 MILES NNE	1.06E-01(14/ 52) 5.32E-02- 4.16E-01	1.01E-01(26/ 104) 5.62E-02- 2.18E-01	
K-40	3.00E-01	4.06E-01(34/ 413) LM2 3.03E-01- 9.04E-01	0.5 MILES N	7.01E-01(1/ 51) 7.01E-01- 7.01E-01	6.30E-01(6/ 104) 3.49E-01- 1.15E+00	
PB-214	7.00E-02	1.13E-01(71/ 413) LM3 7.00E-02- 4.05E-01	1.9 MILES NNE	1.42E-01(11/ 52) 7.85E-02- 4.05E-01	1.14E-01(25/ 104) 7.16E-02- 2.26E-01	
I-131	SEE NOTE 3					

- NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).
 NOTE: 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 0.03pCi/cubic meter.

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TABLE H-4

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN MILK
 PCI/L - 0.037 BQ/L

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
IODINE-131	130					
	4.00E-01	78 VALUES < LLD			52 VALUES < LLD	
GAMMA SCAN (GELI)	130					
BI-214	2.00E+01	7.34E+01(3/ 78)	LAYMAN FARM	9.95E+01(2/ 26)	2.42E+01(6/ 52)	
		2.12E+01- 1.77E+02	1.3 MILES SSW	2.18E+01- 1.77E+02	2.03E+01- 3.11E+01	
K-40	1.00E+02	1.37E+03(78/ 78)	LAYMAN FARM	1.37E+03(26/ 26)	1.35E+03(52/ 52)	
		8.21E+02- 1.68E+03	1.3 MILES SSW	8.21E+02- 1.68E+03	1.16E+03- 1.61E+03	
PB-214	2.00E+01	1.66E+02(1/ 78)	LAYMAN FARM	1.66E+02(1/ 26)	2.23E+01(2/ 52)	
		1.66E+02- 1.66E+02	1.3 MILES SSW	1.66E+02- 1.66E+02	2.03E+01- 2.43E+01	
SR 89	20					
	3.50E+00	12 VALUES < LLD			8 VALUES < LLD	
SR 90	20					
	2.00E+00	12 VALUES < LLD			8 VALUES < LLD	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN SOIL
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS		LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
		MEAN (F) RANGE	SEE NOTE 2				
GAMMA SCAN (GELI)							
	10						
AC-228	2.50E-01	1.15E+00(8/ 8)	8.72E-01- 1.55E+00	PM5 DECATUR 6.2 MILES S	1.55E+00(1/ 1) 1.55E+00- 1.55E+00	7.16E-01(2/ 2) 5.79E-01- 8.53E-01	
BI-212	4.50E-01	1.19E+00(8/ 8)	9.54E-01- 1.58E+00	PM5 DECATUR 6.2 MILES S	1.58E+00(1/ 1) 1.58E+00- 1.58E+00	8.44E-01(2/ 2) 6.24E-01- 1.06E+00	
BI-214	1.50E-01	8.71E-01(8/ 8)	7.16E-01- 1.03E+00	LM1 0.5 MILES SSW	1.03E+00(1/ 1) 1.03E+00- 1.03E+00	7.33E-01(2/ 2) 5.59E-01- 9.06E-01	
CS-137	3.00E-02	3.06E-01(8/ 8)	4.34E-02- 9.11E-01	LM3 1.9 MILES NNE	9.11E-01(1/ 1) 9.11E-01- 9.11E-01	3.78E-01(2/ 2) 1.84E-01- 5.73E-01	
K-40	7.50E-01	1.23E+01(8/ 8)	3.55E+00- 2.55E+01	LM-4 WB 0.9 MILES SE	2.55E+01(1/ 1) 2.55E+01- 2.55E+01	4.92E+00(2/ 2) 4.27E+00- 5.56E+00	
PB-212	1.00E-01	1.15E+00(8/ 8)	8.90E-01- 1.42E+00	PM5 DECATUR 6.2 MILES S	1.42E+00(1/ 1) 1.42E+00- 1.42E+00	7.27E-01(2/ 2) 5.98E-01- 8.55E-01	
PB-214	1.50E-01	9.76E-01(8/ 8)	8.17E-01- 1.17E+00	LM1 0.5 MILES SSW	1.17E+00(1/ 1) 1.17E+00- 1.17E+00	8.12E-01(2/ 2) 5.97E-01- 1.03E+00	
RA-224	7.50E-01	1.17E+00(5/ 8)	9.33E-01- 1.43E+00	LM1 0.5 MILES SSW	1.43E+00(1/ 1) 1.43E+00- 1.43E+00	1.00E+00(1/ 2) 1.00E+00- 1.00E+00	
RA-226	1.50E-01	8.71E-01(8/ 8)	7.16E-01- 1.03E+00	LM1 0.5 MILES SSW	1.03E+00(1/ 1) 1.03E+00- 1.03E+00	7.33E-01(2/ 2) 5.59E-01- 9.06E-01	
TL-208	6.00E-02	3.67E-01(8/ 8)	2.92E-01- 4.59E-01	PM5 DECATUR 6.2 MILES S	4.59E-01(1/ 1) 4.59E-01- 4.59E-01	2.25E-01(2/ 2) 1.70E-01- 2.80E-01	
SR 89	10	1.60E+00	8 VALUES < LLD			2 VALUES < LLD	
SR 90	10	4.00E-01	8 VALUES < LLD			2 VALUES < LLD	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN APPLES
 PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
K-40	2.50E+02	7.47E+02(1/ 1) 7.47E+02- 7.47E+02	4.5 MILES N	7.47E+02(1/ 1) 7.47E+02- 7.47E+02	7.55E+02(1/ 1) 7.55E+02- 7.55E+02	2

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

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TABLE H-7

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN CABBAGE
 PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
K-40	2.50E+02	1.37E+03(1/ 1) 1.37E+03- 1.37E+03	WBNP 3 MILES ENE	1.37E+03(1/ 1) 1.37E+03- 1.37E+03	1.37E+03(1/ 1) 1.37E+03- 1.37E+03	2

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN CORN
 PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
K-40	2.50E+02	2.03E+03(1/ 1) 2.03E+03- 2.03E+03	2.0 MILES WNW	2.03E+03(1/ 1) 2.03E+03- 2.03E+03	2.00E+03(1/ 1) 2.00E+03- 2.00E+03	2

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN GREEN BEANS
 PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
	2					
K-40	2.50E+02	1.44E+03(1/ 1) 1.44E+03- 1.44E+03	2.0 MILES WNW	1.44E+03(1/ 1) 1.44E+03- 1.44E+03	2.33E+03(1/ 1) 2.33E+03- 2.33E+03	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN TOMATOES
 PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS		LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
		MEAN (F) RANGE SEE NOTE 2					
GAMMA SCAN (GELI)							
K-40	2.50E+02	2.68E+03(1/ 1)	2.68E+03- 2.68E+03	2.0 MILES WNW	2.68E+03(1/ 1) 2.68E+03- 2.68E+03	1.92E+03(1/ 1) 1.92E+03- 1.92E+03	2

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN SURFACE WATER(Total)
 PCI/L - 0.037 BQ/L

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GROSS BETA	38	1.90E+00	2.80E+00(20/ 25) TRM 523.1 1.98E+00- 5.01E+00	2.99E+00(7/ 12) 1.98E+00- 5.01E+00	2.48E+00(11/ 13) 1.90E+00- 3.21E+00	
GAMMA SCAN (GELI)	38	3.00E+02	25 VALUES < LLD		13 VALUES < LLD	
TRITIUM	12	3.00E+02	8 VALUES < LLD		4 VALUES < LLD	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN PUBLIC WATER(Total)
 PCI/L - 0.037 BQ/L

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GROSS BETA	37	1.90E+00	2.75E+00(21/ 24) 1.92E+00- 4.25E+00	RM-2 DAYTON TN 17.8 MILES NNE	2.89E+00(11/ 12) 1.92E+00- 4.25E+00	2.48E+00(11/ 13) 1.90E+00- 3.21E+00
GAMMA SCAN (GELI)	37					
BI-214	2.00E+01	3.89E+01(5/ 24) 2.19E+01- 6.25E+01	RM-2 DAYTON TN 17.8 MILES NNE	5.01E+01(2/ 12) 3.77E+01- 6.25E+01	13 VALUES < LLD	
PB-214	2.00E+01	4.34E+01(4/ 24) 2.20E+01- 7.30E+01	RM-2 DAYTON TN 17.8 MILES NNE	5.52E+01(2/ 12) 3.74E+01- 7.30E+01	13 VALUES < LLD	
TRITIUM	12	3.00E+02			8 VALUES < LLD	4 VALUES < LLD

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN WELL WATER(Total)
 PCI/L - 0.037 BQ/L

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GROSS BETA	12	1.90E+00	3.15E+00(3/ 4) WBN WELL #1 3.04E+00- 3.32E+00 0.6 MILES S	3.15E+00(3/ 4) 3.04E+00- 3.32E+00	3.16E+00(4/ 8) 2.19E+00- 4.60E+00	
GAMMA SCAN (GELI)	12	2.00E+01	4 VALUES < LLD WBN WELL #1 0.6 MILES S	4 VALUES < LLD	2.87E+02(5/ 8) 2.24E+01- 4.38E+02	
BI-214		2.00E+01	4 VALUES < LLD WBN WELL #1 0.6 MILES S	4 VALUES < LLD	3.47E+02(4/ 8) 2.45E+02- 4.42E+02	
PB-214		2.00E+01	4 VALUES < LLD WBN WELL #1 0.6 MILES S	4 VALUES < LLD	2.45E+02- 4.42E+02	
TRITIUM	12	3.00E+02	4 VALUES < LLD		8 VALUES < LLD	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

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TABLE H-14

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN COMMERCIAL FISH
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS		LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2		CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2		NUMBER OF NONROUTINE REPORTED MEASUREMENTS
		MEAN (F) RANGE SEE NOTE 2							
GAMMA SCAN (GELI)									
	8								
BI-214	1.00E-01	1.24E-01(	2/ 5)	DOWNSTREAM STATION 1	1.32E-01(	1/ 2)	1.22E-01(	1/ 3)	
		1.16E-01-	1.32E-01	DOWNSTREAM	1.32E-01-	1.32E-01	1.22E-01-	1.22E-01	
CS-137	3.00E-02	3.07E-02(	1/ 5)	CHICKAMAUGA RES	3.07E-02(	1/ 3)	6.50E-02(	1/ 3)	
		3.07E-02-	3.07E-02	TRM 471-530	3.07E-02-	3.07E-02	6.50E-02-	6.50E-02	
K-40	4.00E-01	1.09E+01(	5/ 5)	CHICKAMAUGA RES	1.11E+01(	3/ 3)	1.23E+01(	3/ 3)	
		9.06E+00-	1.38E+01	TRM 471-530	9.66E+00-	1.38E+01	8.07E+00-	1.87E+01	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN GAME FISH
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
	5					
BI-214	1.00E-01	1.59E-01(1/ 3)	CHICKAMAUGA RES	1.59E-01(1/ 2)	1.05E-01(1/ 2)	
		1.59E-01- 1.59E-01	TRM 471-530	1.59E-01- 1.59E-01	1.05E-01- 1.05E-01	
CS-137	3.00E-02	3.84E-02(3/ 3)	DOWNSTREAM STATION 1	3.88E-02(1/ 1)	6.09E-02(2/ 2)	
		3.12E-02- 4.53E-02	DOWNSTREAM	3.88E-02- 3.88E-02	5.99E-02- 6.19E-02	
K-40	4.00E-01	1.45E+01(3/ 3)	CHICKAMAUGA RES	1.46E+01(2/ 2)	1.53E+01(2/ 2)	
		1.43E+01- 1.47E+01	TRM 471-530	1.45E+01- 1.47E+01	1.32E+01- 1.74E+01	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN SEDIMENT
 PC1/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
	4					
AC-228	2.50E-01	1.33E+00(3/ 3) 9.80E-01- 1.86E+00	TRM 527.4	1.86E+00(1/ 1) 1.86E+00- 1.86E+00	6.79E-01(1/ 1) 6.79E-01- 6.79E-01	1
BE-7	2.50E-01	2.89E-01(1/ 3) 2.89E-01- 2.89E-01	TRM 496.5	2.89E-01(1/ 1) 2.89E-01- 2.89E-01	1 VALUES < LLD	1
BI-212	4.50E-01	1.35E+00(3/ 3) 1.13E+00- 1.80E+00	TRM 527.4	1.80E+00(1/ 1) 1.80E+00- 1.80E+00	8.50E-01(1/ 1) 8.50E-01- 8.50E-01	1
BI-214	1.50E-01	8.88E-01(3/ 3) 7.07E-01- 1.12E+00	TRM 527.4	1.12E+00(1/ 1) 1.12E+00- 1.12E+00	4.90E-01(1/ 1) 4.90E-01- 4.90E-01	1
CS-137	3.00E-02	2.10E-01(2/ 3) 3.31E-02- 3.87E-01	TRM 496.5	3.87E-01(1/ 1) 3.87E-01- 3.87E-01	9.41E-02(1/ 1) 9.41E-02- 9.41E-02	1
K-40	7.50E-01	1.29E+01(3/ 3) 1.25E+01- 1.37E+01	TRM 527.4	1.37E+01(1/ 1) 1.37E+01- 1.37E+01	9.68E+00(1/ 1) 9.68E+00- 9.68E+00	1
PB-212	1.00E-01	1.31E+00(3/ 3) 1.06E+00- 1.77E+00	TRM 527.4	1.77E+00(1/ 1) 1.77E+00- 1.77E+00	6.92E-01(1/ 1) 6.92E-01- 6.92E-01	1
PB-214	1.50E-01	9.51E-01(3/ 3) 7.65E-01- 1.16E+00	TRM 527.4	1.16E+00(1/ 1) 1.16E+00- 1.16E+00	5.04E-01(1/ 1) 5.04E-01- 5.04E-01	1
RA-224	7.50E-01	1.53E+00(2/ 3) 1.14E+00- 1.92E+00	TRM 527.4	1.92E+00(1/ 1) 1.92E+00- 1.92E+00	7.82E-01(1/ 1) 7.82E-01- 7.82E-01	1
RA-226	1.50E-01	8.88E-01(3/ 3) 7.07E-01- 1.12E+00	TRM 527.4	1.12E+00(1/ 1) 1.12E+00- 1.12E+00	4.90E-01(1/ 1) 4.90E-01- 4.90E-01	1
TL-208	6.00E-02	4.16E-01(3/ 3) 3.37E-01- 5.72E-01	TRM 527.4	5.72E-01(1/ 1) 5.72E-01- 5.72E-01	2.15E-01(1/ 1) 2.15E-01- 2.15E-01	1

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN SHORELINE SEDIMENT
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2		LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2		CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)								
	4							
AC-228	2.50E-01	1.51E+00(	2/ 2)	COTTON PORT MARINA	1.51E+00(	2/ 2)	2 VALUES < LLD	
		1.45E+00-	1.57E+00	TRM 513	1.45E+00-	1.57E+00		
BI-212	4.50E-01	1.65E+00(	2/ 2)	COTTON PORT MARINA	1.65E+00(	2/ 2)	2 VALUES < LLD	
		1.50E+00-	1.80E+00	TRM 513	1.50E+00-	1.80E+00		
BI-214	1.50E-01	6.72E-01(	2/ 2)	COTTON PORT MARINA	6.72E-01(	2/ 2)	1.84E-01(2/ 2)	
		5.46E-01-	7.98E-01	TRM 513	5.46E-01-	7.98E-01	1.72E-01- 1.96E-01	
K-40	7.50E-01	3.38E+01(	2/ 2)	COTTON PORT MARINA	3.38E+01(	2/ 2)	2 VALUES < LLD	
		3.36E+01-	3.40E+01	TRM 513	3.36E+01-	3.40E+01		
PB-212	1.00E-01	1.50E+00(	2/ 2)	COTTON PORT MARINA	1.50E+00(	2/ 2)	1.05E-01(1/ 2)	
		1.46E+00-	1.54E+00	TRM 513	1.46E+00-	1.54E+00	1.05E-01- 1.05E-01	
PB-214	1.50E-01	7.22E-01(	2/ 2)	COTTON PORT MARINA	7.22E-01(	2/ 2)	1.86E-01(2/ 2)	
		6.11E-01-	8.32E-01	TRM 513	6.11E-01-	8.32E-01	1.73E-01- 1.98E-01	
RA-226	1.50E-01	6.72E-01(	2/ 2)	COTTON PORT MARINA	6.72E-01(	2/ 2)	1.84E-01(2/ 2)	
		5.46E-01-	7.98E-01	TRM 513	5.46E-01-	7.98E-01	1.72E-01- 1.96E-01	
TL-208	6.00E-02	5.13E-01(	2/ 2)	COTTON PORT MARINA	5.13E-01(	2/ 2)	2 VALUES < LLD	
		4.83E-01-	5.43E-01	TRM 513	4.83E-01-	5.43E-01		

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN POND SEDIMENT
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2		LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2		CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)								
	5							
AC-228	2.50E-01	1.06E+00(5/ 5)	1.02E+00- 1.20E+00	LV-3 LOW VOL WASTE POND	1.20E+00(1/ 1)	1.20E+00- 1.20E+00	0 VALUES < LLD	
BE-7	2.50E-01	2.93E-01(1/ 5)	2.93E-01- 2.93E-01	YP-17 YARD POND	2.93E-01(1/ 1)	2.93E-01- 2.93E-01	0 VALUES < LLD	
BI-212	4.50E-01	1.10E+00(5/ 5)	1.01E+00- 1.18E+00	YP-5 YARD POND	1.18E+00(1/ 1)	1.18E+00- 1.18E+00	0 VALUES < LLD	
BI-214	1.50E-01	7.55E-01(5/ 5)	6.89E-01- 9.16E-01	LV-3 LOW VOL WASTE POND	9.16E-01(1/ 1)	9.16E-01- 9.16E-01	0 VALUES < LLD	
CO-58	3.00E-02	4.47E-02(1/ 5)	4.47E-02- 4.47E-02	YP-17 YARD POND	4.47E-02(1/ 1)	4.47E-02- 4.47E-02	0 VALUES < LLD	
CO-60	3.00E-02	4.06E-02(3/ 5)	3.35E-02- 4.87E-02	YP-17 YARD POND	4.87E-02(1/ 1)	4.87E-02- 4.87E-02	0 VALUES < LLD	
CS-137	3.00E-02	9.97E-02(4/ 5)	4.73E-02- 1.65E-01	YP-5 YARD POND	1.65E-01(1/ 1)	1.65E-01- 1.65E-01	0 VALUES < LLD	
K-40	7.50E-01	1.26E+01(5/ 5)	1.05E+01- 1.43E+01	LV-3 LOW VOL WASTE POND	1.43E+01(1/ 1)	1.43E+01- 1.43E+01	0 VALUES < LLD	
PB-212	1.00E-01	1.06E+00(5/ 5)	9.66E-01- 1.18E+00	LV-3 LOW VOL WASTE POND	1.18E+00(1/ 1)	1.18E+00- 1.18E+00	0 VALUES < LLD	
PB-214	1.50E-01	8.29E-01(5/ 5)	7.55E-01- 9.64E-01	LV-3 LOW VOL WASTE POND	9.64E-01(1/ 1)	9.64E-01- 9.64E-01	0 VALUES < LLD	
RA-224	7.50E-01	1.16E+00(4/ 5)	1.02E+00- 1.33E+00	LV-3 LOW VOL WASTE POND	1.33E+00(1/ 1)	1.33E+00- 1.33E+00	0 VALUES < LLD	
SB-125	NOT ESTAB	5.87E-02(1/ 5)	5.87E-02- 5.87E-02	YP-17 YARD POND	5.87E-02(1/ 1)	5.87E-02- 5.87E-02	0 VALUES < LLD	
TL-208	6.00E-02	3.31E-01(5/ 5)	3.10E-01- 3.84E-01	LV-3 LOW VOL WASTE POND	3.84E-01(1/ 1)	3.84E-01- 3.84E-01	0 VALUES < LLD	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN CLAM FLESH
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
 LOCATION OF FACILITY: RHEA TENNESSEE

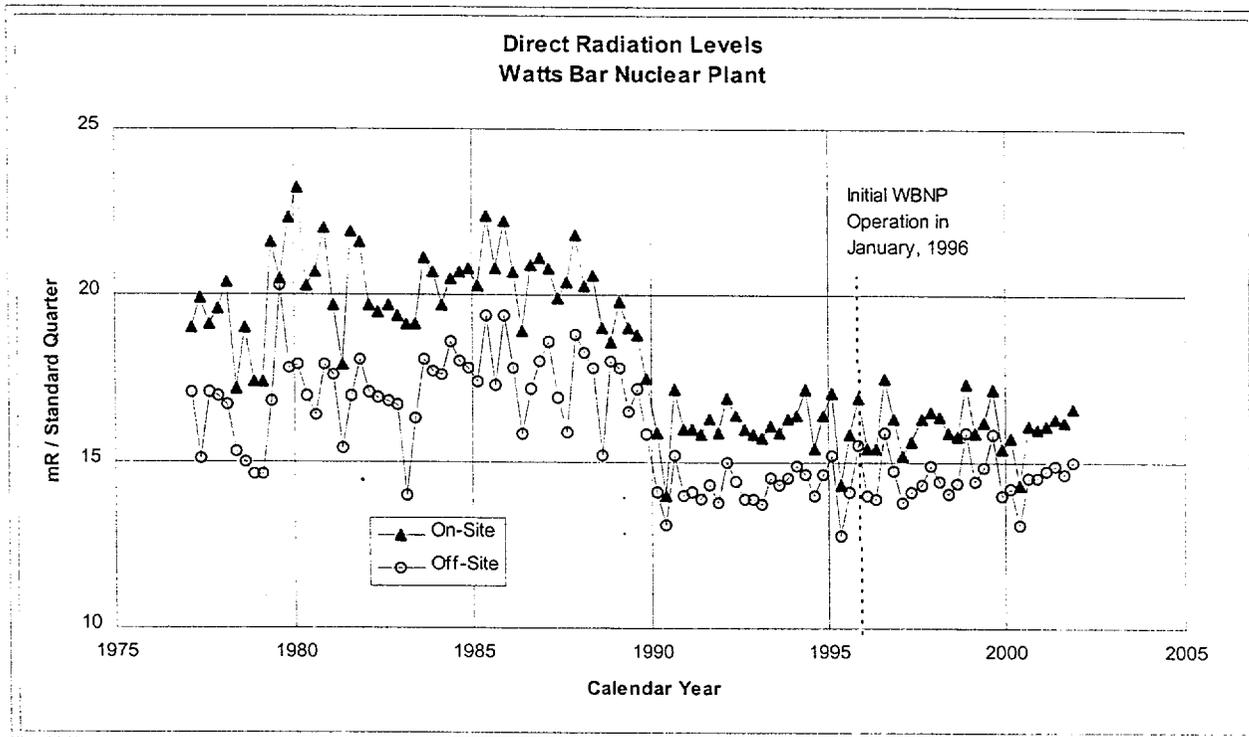
DOCKET NO.: 50-390,391
 REPORTING PERIOD: 2001

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
	3					
BI-214	5.00E-01	1.70E+00(2/ 2) 1.46E+00- 1.93E+00	DOWNSTREAM	1.70E+00(2/ 2) 1.46E+00- 1.93E+00	8.40E-01(1/ 1) 8.40E-01- 8.40E-01	
PB-214	1.00E-01	1.54E+00(2/ 2) 1.12E+00- 1.96E+00	DOWNSTREAM	1.54E+00(2/ 2) 1.12E+00- 1.96E+00	6.83E-01(1/ 1) 6.83E-01- 6.83E-01	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
 NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

Figure H-1

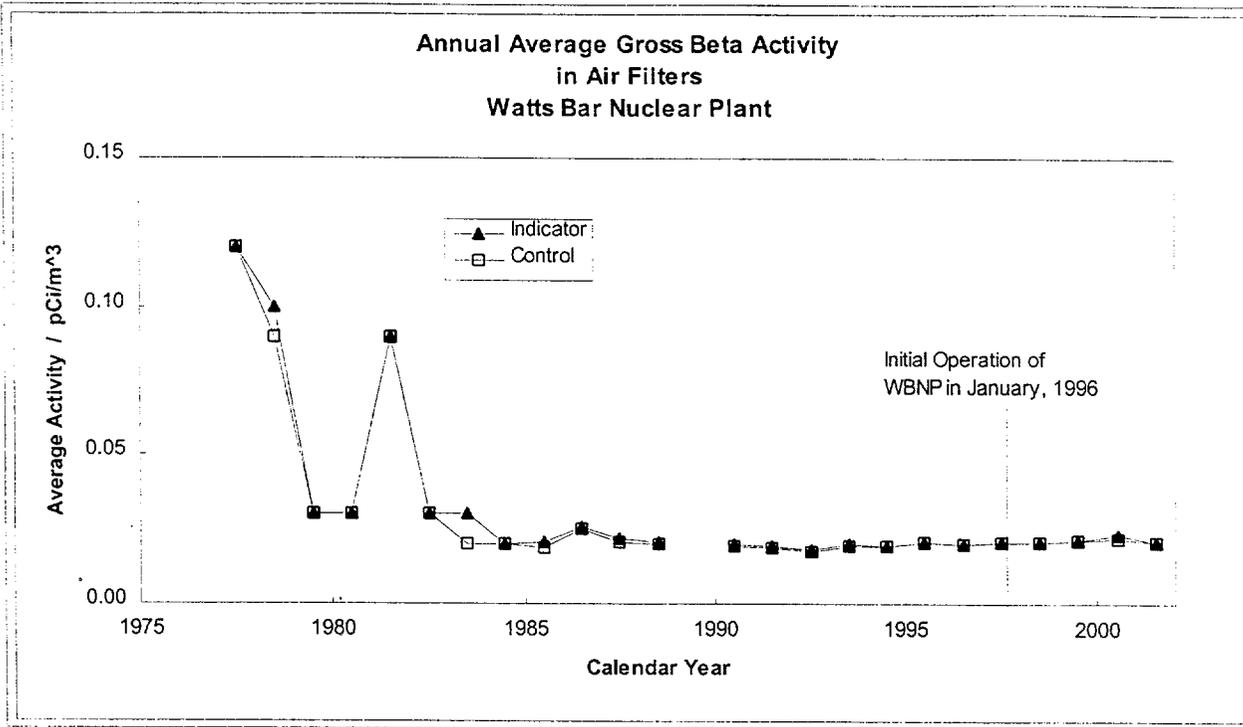
Direct Radiation



Thermoluminescent 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.

Figure H-2

Radioactivity in Air Filters



To more clearly show trends developed since the end of atmospheric weapons testing, the data beginning with the resumption of the monitoring program in 1990 is shown in greater detail.

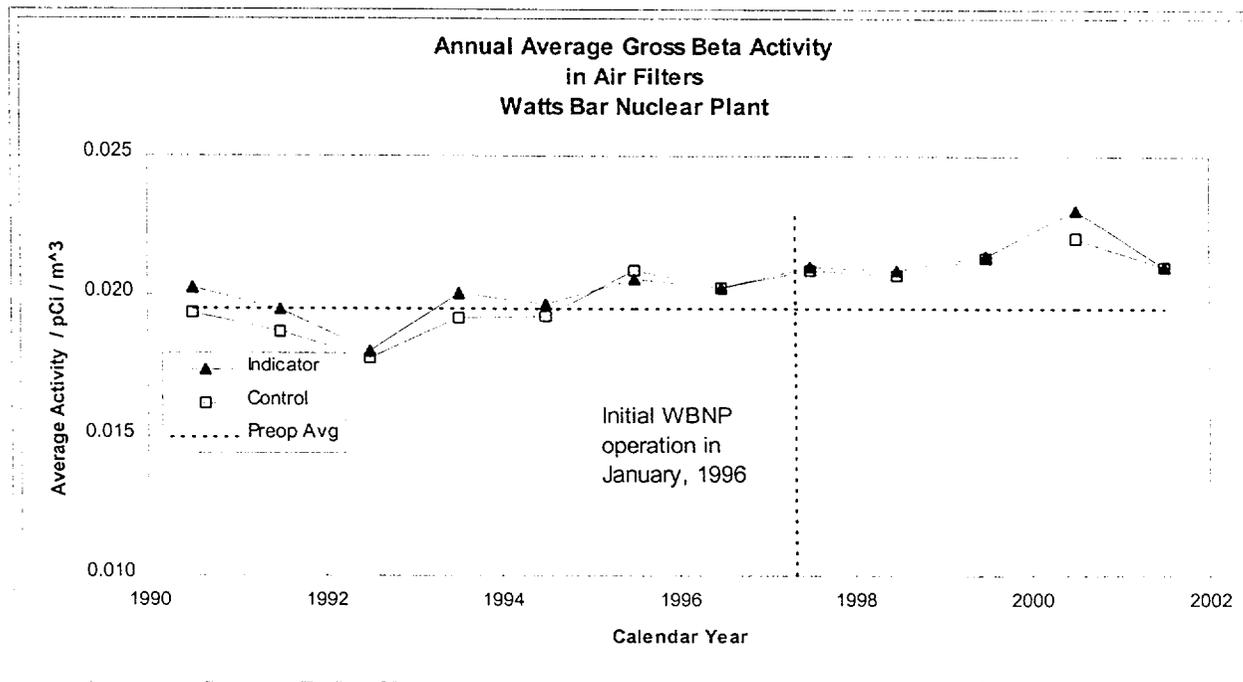
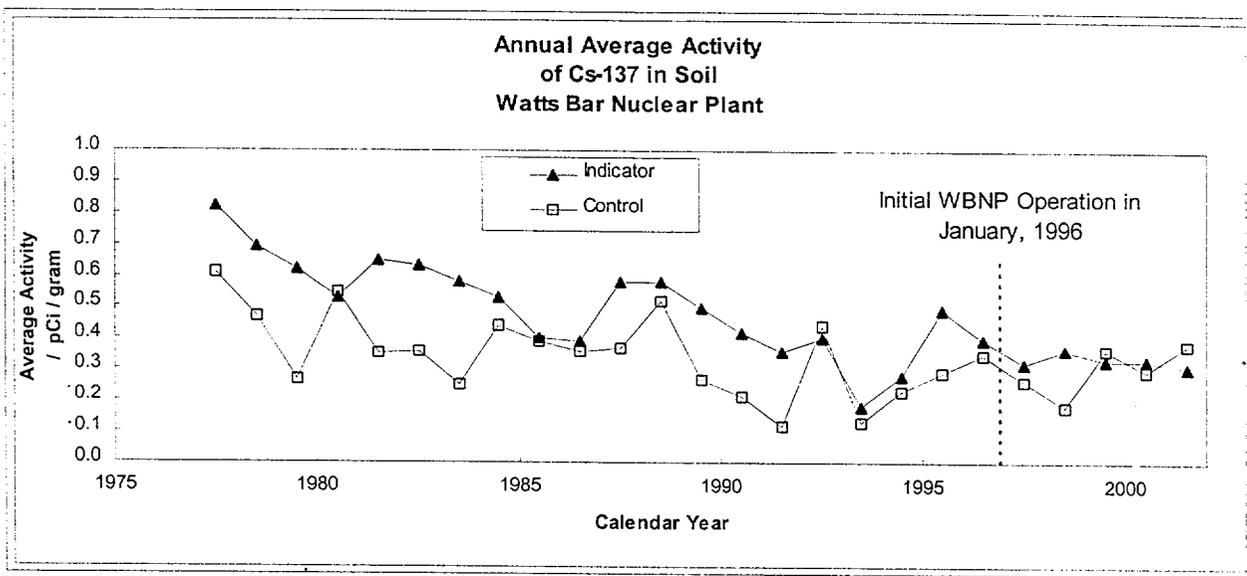


Figure H-3

Cs-137 in Soil

Cesium-137, like strontium-90, was produced by nuclear weapons detonations and is present in almost every environmental sample exposed to the atmosphere. The "control" and "indicator" locations have generally trended downward with year-to-year variation, since the beginning of the monitoring program from the Watts Bar site.



In almost every year, the "indicator" locations have shown greater activity of Cs-137 than the "control" locations. This trend, with its preoperational average is shown below.

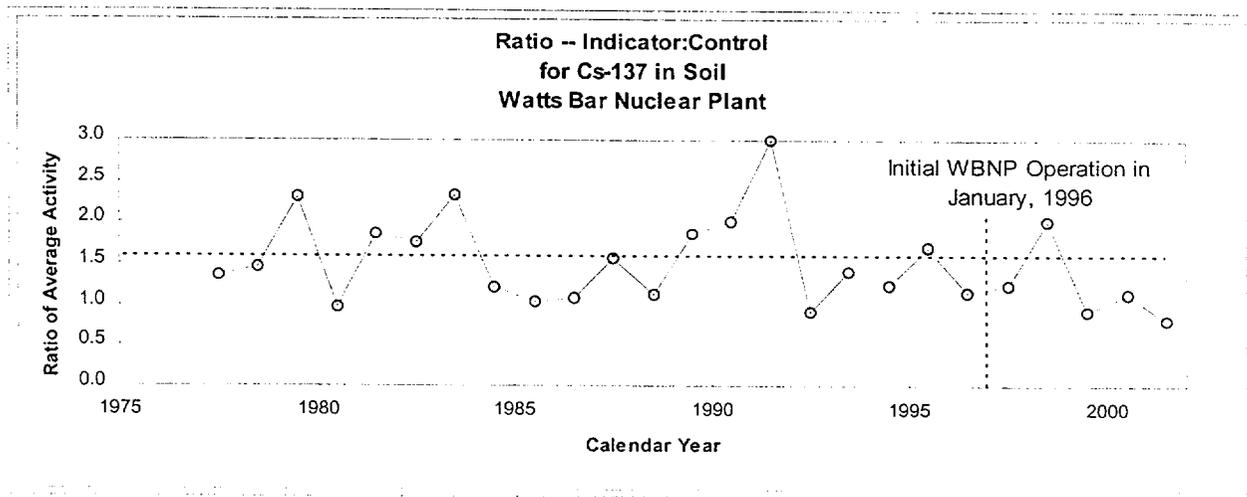


Figure H-4

Gross Beta Activity in Surface and Drinking Water

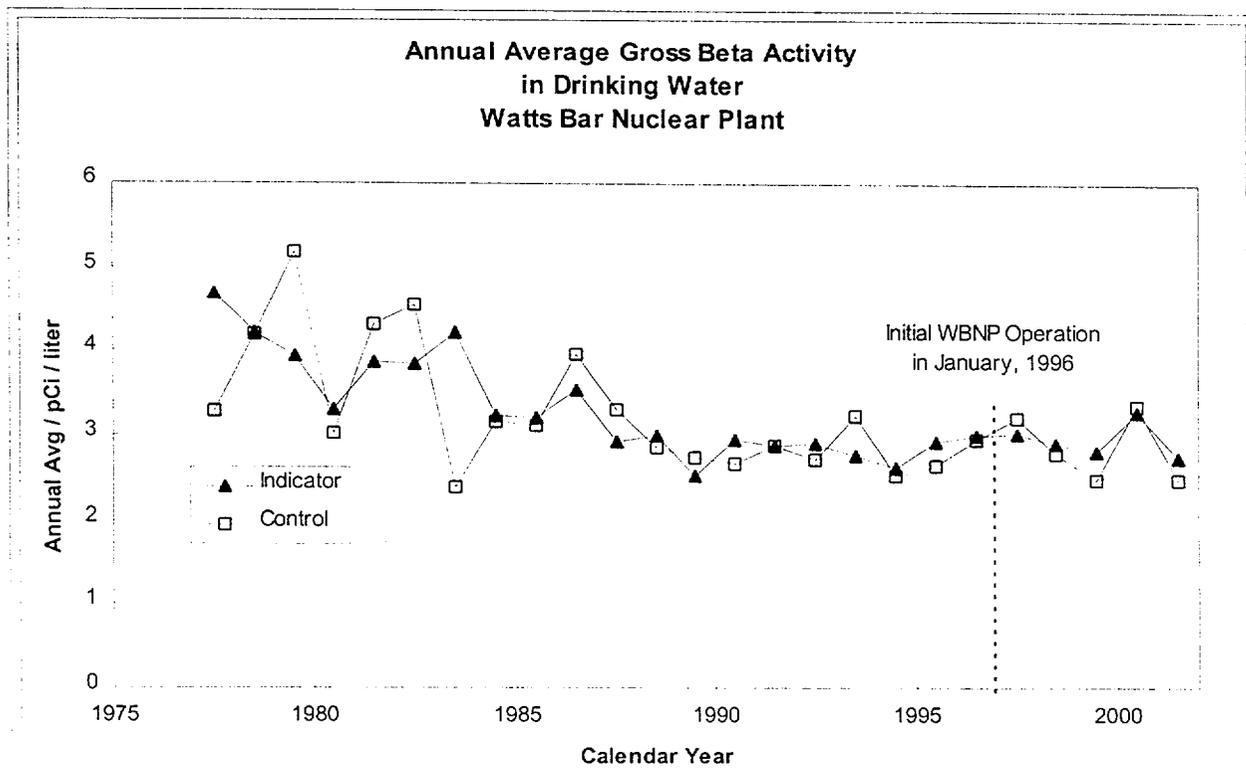
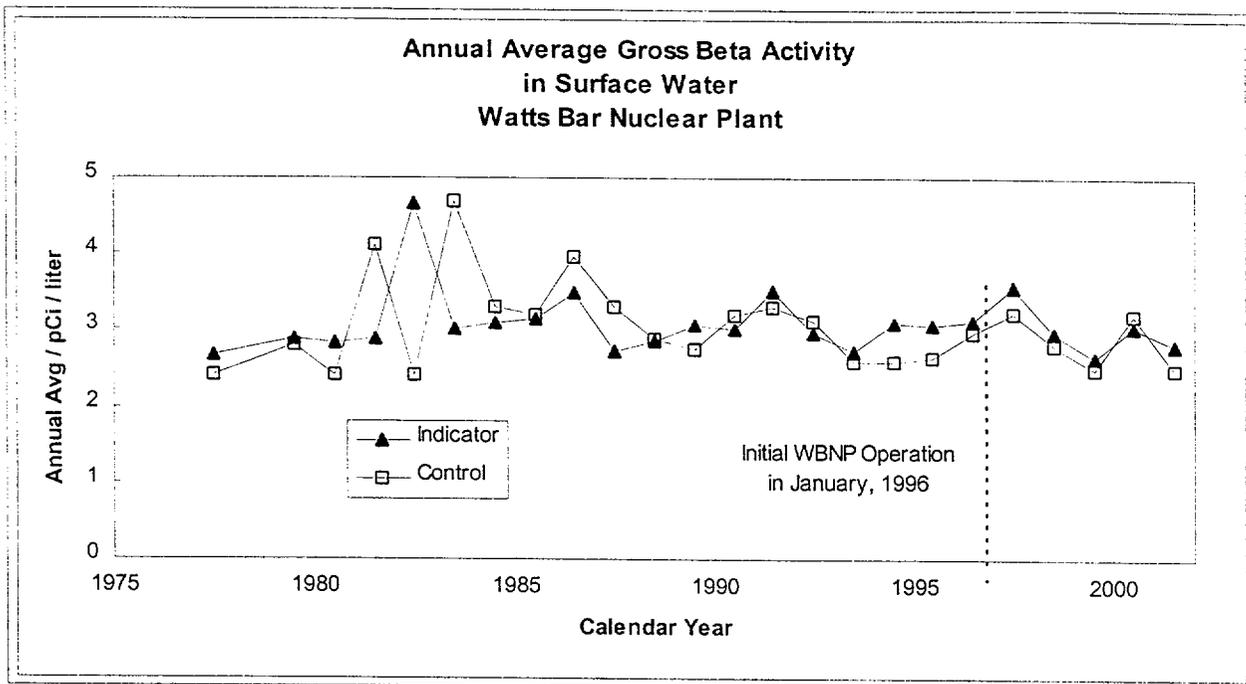


Figure H-5

Radioactivity in Fish

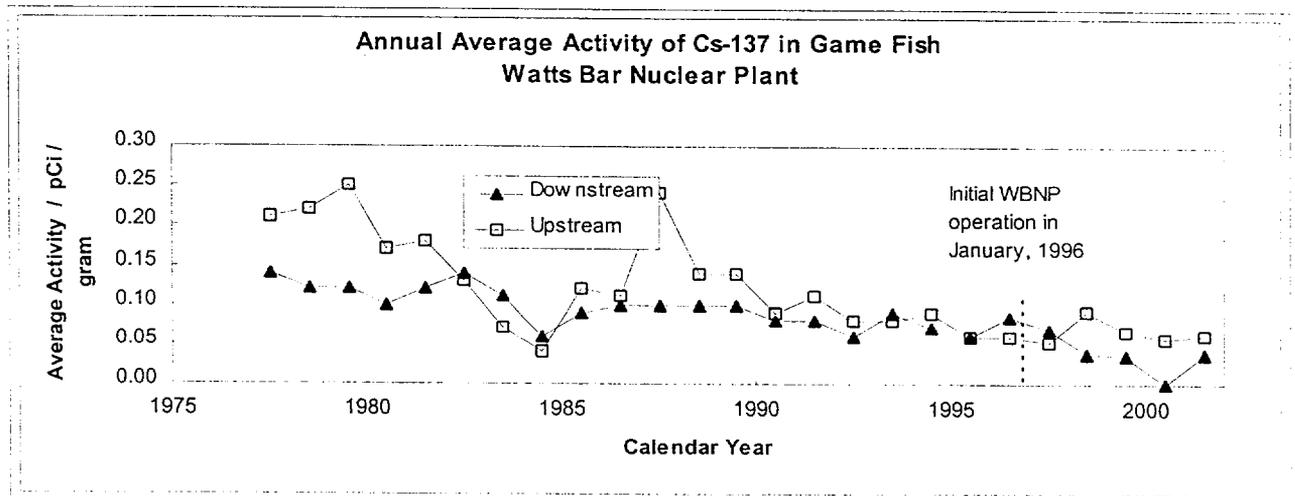
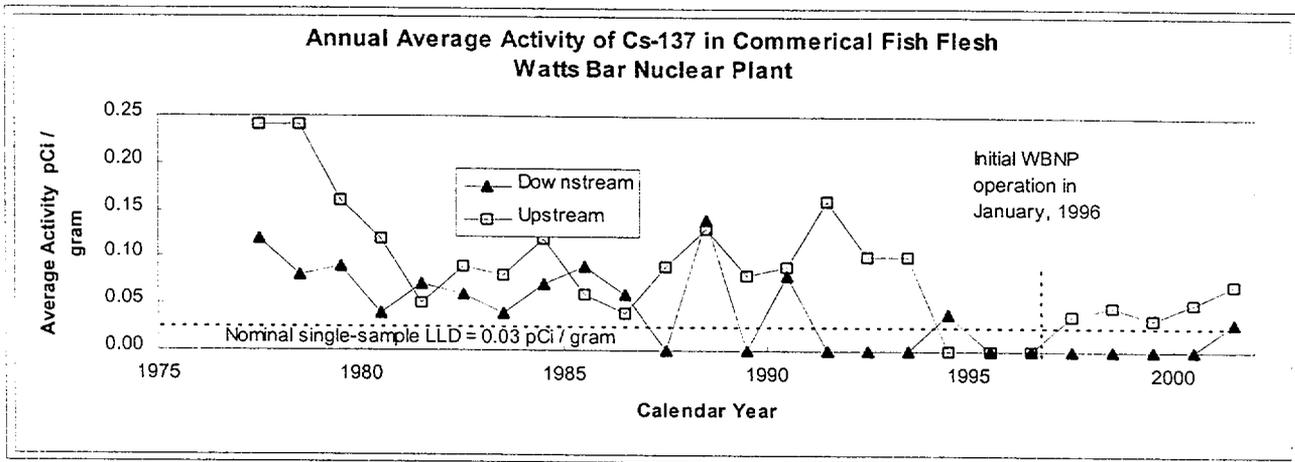
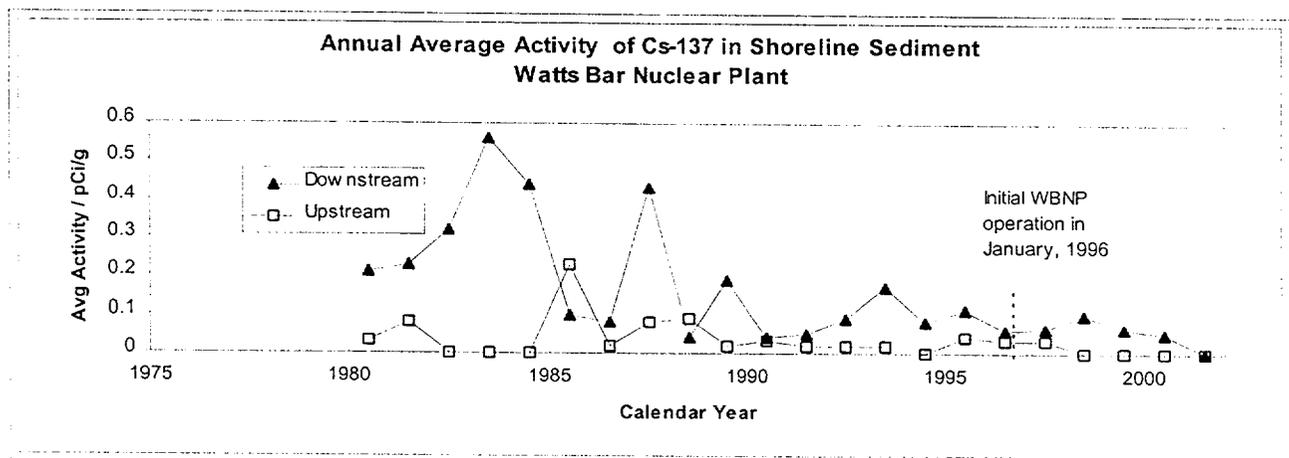
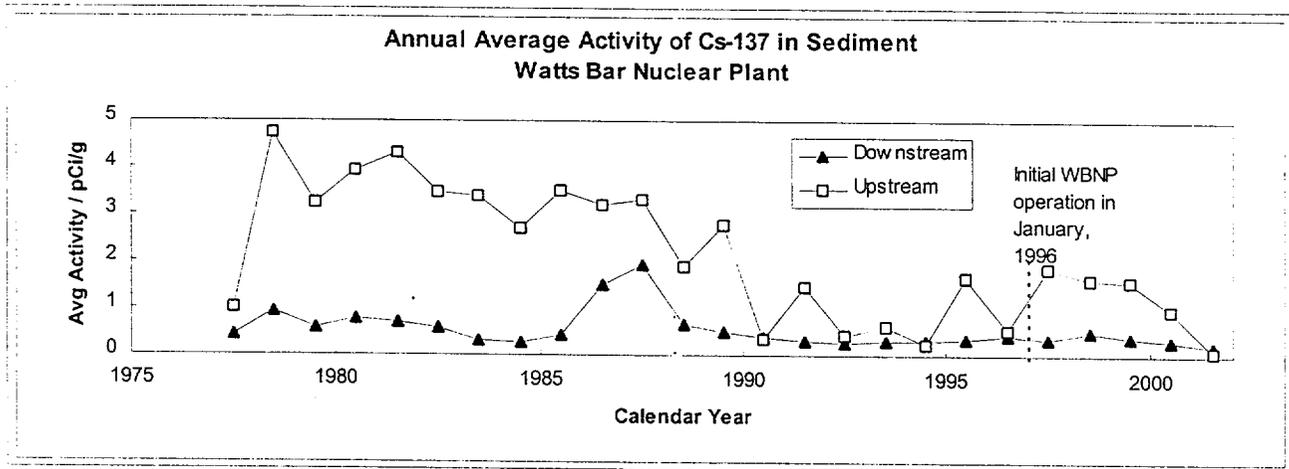


Figure H-6

Radioactivity in Sediment

The Cs-137 present in the shoreline and bottom sediments of the Tennessee River system was produced both by testing of nuclear weapons and by related nuclear operations 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.



ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT
WATTS BAR NUCLEAR PLANT
DATA SUPPLEMENT

2001

TENNESSEE VALLEY AUTHORITY

April 2002

RADIOLOGICAL ENVIRONMENTAL MONITORING DATA
WATTS BAR NUCLEAR PLANT

2001

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 in place of the activity. 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
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
2116 RM-2 DAYTON TN 15.0 MILES SW	GROSS BETA	.0236	.0026	01/02/01 120054
		.0217	.0024	01/09/01 120148
		.0242	.0026	01/16/01 120260
		.0248	.0027	01/23/01 120352
		.0277	.0030	01/30/01 120584
		.0203	.0023	02/06/01 120679
		.0192	.0022	02/13/01 120797
		.0188	.0021	02/20/01 120885
		.0200	.0022	02/27/01 121066
		.0208	.0023	03/06/01 121161
		.0177	.0020	03/13/01 121284
		.0117	.0014	03/20/01 121388
		.0202	.0023	03/27/01 121555
		.0175	.0020	04/03/01 121686
		.0189	.0021	04/10/01 121805
		.0181	.0020	04/17/01 121897
		.0194	.0022	04/24/01 122056
		.0246	.0027	05/01/01 122225
		.0224	.0025	05/08/01 122384
		.0184	.0021	05/15/01 122473
		.0180	.0020	05/22/01 122615
		.0135	.0016	05/29/01 122737
		.0138	.0016	06/05/01 122863
		.0170	.0019	06/12/01 122961
		.0234	.0025	06/19/01 123117
		.0208	.0023	06/26/01 123236
		.0154	.0018	07/02/01 123356
		.0173	.0019	07/10/01 123469
		.0214	.0024	07/17/01 123609
		.0254	.0028	07/24/01 123729
		.0119	.0014	07/31/01 123891
		.0193	.0021	08/07/01 124008
		.0157	.0018	08/14/01 124148
		.0295	.0032	08/21/01 124257
		.0261	.0028	08/28/01 124399
		.0133	.0016	09/04/01 124494
		.0200	.0022	09/11/01 124646
		.0284	.0030	09/18/01 124745

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
2116 RM-2 DAYTON TN 15.0 MILES SW	GROSS BETA	.0254	.0027	09/25/01 124882		
		.0200	.0022	10/02/01 124974		
		.0314	.0033	10/09/01 125125		
		.0137	.0016	10/16/01 125238		
		.0229	.0025	10/23/01 125353		
		.0152	.0017	10/30/01 125530		
		.0288	.0031	11/06/01 125699		
		.0272	.0031	11/13/01 125799		
		.0458	.0047	11/19/01 125913		
		.0271	.0029	11/27/01 126026		
		.0185	.0021	12/04/01 126162		
		.0258	.0028	12/11/01 126258		
		.0124	.0015	12/18/01 126387		
		.0261	.0028	12/26/01 126530		
		GAMMA SCAN (GELI)	AC-228	.0021	.0018	02/20/01 120960
				.0038	.0022	11/27/01 126096
			BE-7	.0691	.0079	01/23/01 120426
	.0841			.0083	02/20/01 120960	
	.0873			.0067	03/20/01 121466	
	.1175			.0077	04/17/01 121967	
	.1385			.0099	05/15/01 122543	
	.0905			.0085	06/12/01 123033	
	.1044			.0094	07/10/01 123538	
	.0734			.0072	08/07/01 124077	
	.0984	.0092	09/04/01 124567			
	.1058	.0090	10/02/01 125043			
	BI-214	.0865	.0079	10/30/01 125629		
		.1136	.0131	11/27/01 126096		
		.0785	.0087	12/26/01 126602		
		.0181	.0019	01/23/01 120426		
		.0124	.0018	02/20/01 120960		
		.0039	.0013	03/20/01 121466		
		.0067	.0014	04/17/01 121967		
		.0121	.0013	05/15/01 122543		
		.0057	.0011	06/12/01 123033		
		.0142	.0015	07/10/01 123538		

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
2116 RM-2 DAYTON TN 15.0 MILES SW	GAMMA SCAN (GELI) BI-214	.0103	.0017	08/07/01 124077		
		.0025	.0010	09/04/01 124567		
		.0068	.0016	10/02/01 125043		
		.0210	.0027	10/30/01 125629		
		.0129	.0020	11/27/01 126096		
		.0386	.0039	12/26/01 126602		
		K-40	.0163	.0082	02/20/01 120960	
			.0058	.0072	03/20/01 121466	
			.0120	.0063	04/17/01 121967	
			.0087	.0053	06/12/01 123033	
			.0036	.0050	07/10/01 123538	
			.0146	.0159	09/04/01 124567	
			.0123	.0087	10/02/01 125043	
			PB-212	.0001	.0006	02/20/01 120960
				.0005	.0006	11/27/01 126096
			PB-214	.0153	.0013	01/23/01 120426
				.0117	.0015	02/20/01 120960
				.0026	.0009	03/20/01 121466
		.0102		.0012	04/17/01 121967	
		.0116		.0013	05/15/01 122543	
		.0057		.0012	06/12/01 123033	
		.0156		.0017	07/10/01 123538	
		.0093		.0022	08/07/01 124077	
		.0022		.0008	09/04/01 124567	
		.0034		.0009	10/02/01 125043	
		.0203		.0022	10/30/01 125629	
		.0126		.0020	11/27/01 126096	
		.0415		.0036	12/26/01 126602	
		TL-208		.0005	.0003	02/20/01 120960
				.0002	.0004	10/02/01 125043
			3101 LM1 0.5 MILES SSW	GROSS BETA	.0266	.0029
		.0191			.0021	01/09/01 120173
		.0259			.0028	01/16/01 120277
		.0245			.0027	01/23/01 120386
		.0270			.0029	01/30/01 120608
		.0235			.0026	02/06/01 120703

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
3101 LM1	0.5 MILES SSW	GROSS BETA				
			.0174	.0020	02/14/01	120814
			.0210	.0023	02/20/01	120920
			.0198	.0022	02/27/01	121090
			.0210	.0023	03/06/01	121186
			.0165	.0019	03/13/01	121301
			.0101	.0013	03/20/01	121424
			.0187	.0021	03/27/01	121579
			.0172	.0019	04/03/01	121710
			.0189	.0021	04/10/01	121822
			.0217	.0024	04/24/01	122080
			.0222	.0024	05/01/01	122272
			.0229	.0025	05/08/01	122401
			.0175	.0020	05/15/01	122504
			.0218	.0024	05/22/01	122639
			.0128	.0015	05/29/01	122760
			.0124	.0015	06/05/01	122880
			.0175	.0020	06/12/01	122993
			.0216	.0024	06/19/01	123141
			.0191	.0021	06/26/01	123260
			.0126	.0015	07/02/01	123383
			.0167	.0019	07/10/01	123500
			.0199	.0022	07/17/01	123633
			.0234	.0025	07/24/01	123753
			.0125	.0015	07/31/01	123908
			.0160	.0018	08/07/01	124038
			.0157	.0018	08/14/01	124172
			.0266	.0029	08/21/01	124281
			.0269	.0029	08/28/01	124416
			.0139	.0016	09/04/01	124527
			.0207	.0023	09/11/01	124670
			.0271	.0029	09/18/01	124769
			.0258	.0028	09/25/01	124899
			.0147	.0017	10/02/01	125005
			.0294	.0031	10/09/01	125149
			.0135	.0016	10/16/01	125262
			.0222	.0024	10/23/01	125370
			.0145	.0017	10/30/01	125579
			.0260	.0028	11/06/01	125723

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 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
3101 LM1	0.5 MILES SSW GROSS BETA	.0293	.0032	11/13/01	125823	
		.0472	.0049	11/19/01	125930	
		.0242	.0026	11/27/01	126058	
		.0216	.0024	12/04/01	126186	
		.0226	.0025	12/11/01	126282	
		.0107	.0013	12/18/01	126404	
		.0218	.0024	12/26/01	126562	
		GAMMA SCAN (GELI) BE-7	.0604	.0058	01/23/01	120433
			.0885	.0095	02/20/01	120967
			.0913	.0090	03/20/01	121473
			.0966	.0108	04/17/01	121974
			.1281	.0097	05/15/01	122550
			.0788	.0098	06/12/01	123040
	.1134		.0096	07/10/01	123545	
	.0867		.0096	08/07/01	124084	
	.0801		.0078	09/04/01	124574	
	.0885		.0107	10/02/01	125050	
	.0905		.0068	10/30/01	125636	
	.1097		.0099	11/27/01	126103	
	.0670		.0077	12/26/01	126609	
	BI-214	.0184	.0021	01/23/01	120433	
		.0213	.0024	02/20/01	120967	
		.0044	.0012	03/20/01	121473	
		.0035	.0016	04/17/01	121974	
		.0078	.0013	05/15/01	122550	
		.0027	.0009	06/12/01	123040	
		.0055	.0011	07/10/01	123545	
		.0020	.0014	08/07/01	124084	
		.0018	.0009	09/04/01	124574	
		.0004	.0011	10/02/01	125050	
		.0147	.0019	10/30/01	125636	
		.0074	.0014	11/27/01	126103	
		.0028	.0010	12/26/01	126609	
	K-40	.0041	.0069	02/20/01	120967	
		.0069	.0103	04/17/01	121974	
		.0111	.0083	10/30/01	125636	

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PC1/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED LAB NO			
3101 LM1 0.5 MILES SSW	GAMMA SCAN (GELI) K-40	.0038	.0080	11/27/01	126103		
		.0057	.0058	12/26/01	126609		
	PB-212	.0009	.0006	10/02/01	125050		
		.0001	.0006	10/30/01	125636		
	PB-214	.0002	.0005	11/27/01	126103		
		.0194	.0021	01/23/01	120433		
		.0230	.0021	02/20/01	120967		
		.0040	.0012	03/20/01	121473		
		.0005	.0009	04/17/01	121974		
		.0073	.0009	05/15/01	122550		
		.0024	.0007	06/12/01	123040		
		.0056	.0012	07/10/01	123545		
		.0020	.0009	09/04/01	124574		
		.0111	.0016	10/30/01	125636		
		.0065	.0014	11/27/01	126103		
		.0048	.0011	12/26/01	126609		
		3102 LM2 0.5 MILES N	GROSS BETA	.0257	.0028	01/02/01	120081
				.0198	.0022	01/09/01	120175
				.0253	.0027	01/16/01	120279
				.0228	.0025	01/23/01	120388
.0267				.0029	01/30/01	120611	
.0248				.0027	02/06/01	120705	
.0182	.0020			02/14/01	120816		
.0214	.0024			02/20/01	120922		
.0201	.0023			02/27/01	121093		
.0221	.0024			03/06/01	121188		
.0150	.0018			03/13/01	121303		
.0192	.0021			03/27/01	121582		
.0154	.0018			04/03/01	121712		
.0214	.0024			04/10/01	121824		
.0192	.0021			04/17/01	121930		
.0200	.0022			04/24/01	122083		
.0221	.0024			05/01/01	122274		
.0254	.0028			05/08/01	122403		
.0164	.0019			05/15/01	122506		
.0203	.0022			05/22/01	122642		

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED LAB NO			
3102 LM2	0.5 MILES N	GROSS BETA					
			.0116	.0014 05/29/01 122762			
			.0115	.0014 06/05/01 122882			
			.0168	.0019 06/12/01 122995			
			.0229	.0025 06/19/01 123144			
			.0206	.0023 06/26/01 123262			
			.0142	.0017 07/02/01 123386			
			.0156	.0018 07/10/01 123502			
			.0204	.0022 07/17/01 123636			
			.0247	.0027 07/24/01 123755			
			.0117	.0014 07/31/01 123910			
			.0160	.0018 08/07/01 124040			
			.0137	.0016 08/14/01 124175			
			.0272	.0030 08/21/01 124283			
			.0254	.0028 08/28/01 124418			
			.0142	.0017 09/04/01 124529			
			.0203	.0022 09/11/01 124673			
			.0264	.0028 09/18/01 124771			
			.0267	.0029 09/25/01 124901			
			.0179	.0020 10/02/01 125007			
			.0309	.0033 10/09/01 125152			
			.0151	.0017 10/16/01 125264			
			.0217	.0024 10/23/01 125372			
			.0167	.0019 10/30/01 125581			
			.0275	.0030 11/06/01 125726			
			.0328	.0035 11/13/01 125825			
			.0487	.0054 11/19/01 125932			
			.0241	.0026 11/27/01 126060			
			.0208	.0023 12/04/01 126189			
			.0231	.0025 12/11/01 126284			
			.0119	.0014 12/18/01 126406			
			.0218	.0024 12/26/01 126564			
				GAMMA SCAN (GELI)			
				AC-228	.0062	.0021 10/30/01	125637
				BE-7	.0593	.0057 01/23/01	120434
					.0756	.0077 02/20/01	120968
					.0974	.0140 03/20/01	121474
					.1055	.0097 04/17/01	121975

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 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3102 LM2 0.5 MILES N	GAMMA SCAN (GELI) BE-7	.1365	.0119	05/15/01 122551	
		.0868	.0077	06/12/01 123041	
		.1208	.0104	07/10/01 123546	
		.0924	.0088	08/07/01 124085	
		.0810	.0066	09/04/01 124575	
		.1052	.0096	10/02/01 125051	
		.0901	.0079	10/30/01 125637	
		.1082	.0106	11/27/01 126104	
		.0700	.0081	12/26/01 126610	
		BI-214	.0171	.0020	01/23/01 120434
			.0229	.0024	02/20/01 120968
			.0102	.0019	03/20/01 121474
			.0136	.0020	04/17/01 121975
			.0096	.0015	05/15/01 122551
			.0139	.0017	06/12/01 123041
	.0167		.0017	07/10/01 123546	
	.0019		.0010	08/07/01 124085	
	.0020		.0010	09/04/01 124575	
	.0052		.0012	10/02/01 125051	
	.0076		.0011	10/30/01 125637	
	.0007		.0012	11/27/01 126104	
	.0100		.0018	12/26/01 126610	
	K-40		.0148	.0117	02/20/01 120968
			.0163	.0131	03/20/01 121474
		.0080	.0056	04/17/01 121975	
		.0101	.0055	05/15/01 122551	
		.0065	.0047	07/10/01 123546	
		.0132	.0078	10/02/01 125051	
		.0111	.0062	10/30/01 125637	
		PB-212	.0004	.0006	02/20/01 120968
			.0002	.0005	07/10/01 123546
			.0008	.0008	11/27/01 126104
		PB-214	.0133	.0015	01/23/01 120434
			.0230	.0023	02/20/01 120968
			.0069	.0012	03/20/01 121474
			.0132	.0015	04/17/01 121975
			.0071	.0012	05/15/01 122551
	.0131		.0014	06/12/01 123041	

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 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED LAB NO			
3102 LM2 0.5 MILES N	GAMMA SCAN (GELI) PB-214	.0149	.0015	07/10/01	123546		
		.0015	.0008	08/07/01	124085		
		.0032	.0009	09/04/01	124575		
		.0036	.0012	10/02/01	125051		
		.0068	.0010	10/30/01	125637		
		.0114	.0019	12/26/01	126610		
		TL-208	.0006	.0004	02/20/01	120968	
			.0010	.0006	03/20/01	121474	
			.0005	.0003	07/10/01	123546	
		3106 PM2 SPRING CITY 7.0 MILES NW	GROSS BETA	.0277	.0030	01/02/01	120085
				.0206	.0023	01/09/01	120178
				.0243	.0027	01/16/01	120282
				.0221	.0024	01/23/01	120391
.0286	.0031			01/30/01	120615		
.0243	.0027			02/06/01	120708		
.0192	.0022			02/13/01	120819		
.0199	.0022			02/20/01	120925		
.0202	.0023			02/27/01	121097		
.0196	.0022			03/06/01	121191		
.0163	.0019			03/13/01	121306		
.0126	.0015			03/20/01	121429		
.0153	.0018			03/27/01	121586		
.0165	.0019			04/03/01	121715		
.0207	.0023			04/10/01	121827		
.0186	.0021			04/17/01	121933		
.0216	.0024			04/24/01	122087		
.0236	.0026			05/01/01	122277		
.0221	.0024			05/08/01	122406		
.0182	.0020			05/15/01	122509		
.0184	.0020			05/22/01	122646		
.0136	.0016			05/29/01	122765		
.0124	.0015			06/05/01	122885		
.0172	.0019			06/12/01	122998		
.0230	.0025			06/19/01	123148		
.0202	.0022			06/26/01	123265		
.0142	.0017			07/02/01	123390		

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 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3106 PM2 SPRING CITY 7.0 MILES NW	GROSS BETA	.0172	.0019	07/10/01 123505		
		.0208	.0023	07/17/01 123640		
		.0246	.0027	07/24/01 123758		
		.0147	.0017	07/31/01 123913		
		.0158	.0018	08/07/01 124043		
		.0136	.0016	08/14/01 124179		
		.0269	.0029	08/21/01 124286		
		.0274	.0029	08/28/01 124421		
		.0127	.0015	09/04/01 124532		
		.0188	.0021	09/11/01 124677		
		.0284	.0030	09/18/01 124774		
		.0266	.0029	09/25/01 124904		
		.0173	.0020	10/02/01 125010		
		.0328	.0035	10/09/01 125156		
		.0148	.0017	10/16/01 125156		
		.0247	.0027	10/23/01 125375		
		.0175	.0020	10/30/01 125584		
		.0267	.0029	11/06/01 125730		
		.0285	.0031	11/13/01 125828		
		.0384	.0043	11/19/01 125935		
		.0255	.0027	11/27/01 126063		
		.0184	.0021	12/04/01 126193		
		.0234	.0026	12/11/01 126287		
		.0124	.0015	12/18/01 126409		
		.0228	.0025	12/26/01 126567		
			GAMMA SCAN (GELI) BE-7	.0774	.0073	01/23/01 120435
				.0905	.0081	02/20/01 120969
				.0880	.0073	03/20/01 121475
				.1077	.0161	04/17/01 121976
				.1235	.0113	05/15/01 122552
				.0872	.0087	06/12/01 123042
				.1044	.0072	07/10/01 123547
				.0801	.0073	08/07/01 124086
				.0881	.0082	09/04/01 124576
				.0917	.0108	10/02/01 125052
		.0842	.0095	10/30/01 125638		

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PC1/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3106 PM2 SPRING CITY 7.0 MILES NW	GAMMA SCAN (GELI)	BE-7	.1131	.0098 11/27/01	126105	
			.0779	.0087 12/26/01	126611	
	BI-214	.0118	.0016 01/23/01	120435		
		.0218	.0024 02/20/01	120969		
		.0138	.0018 03/20/01	121475		
		.0106	.0019 04/17/01	121976		
		.0156	.0021 05/15/01	122552		
		.0143	.0016 06/12/01	123042		
		.0147	.0021 07/10/01	123547		
		.0061	.0012 08/07/01	124086		
		.0017	.0010 09/04/01	124576		
		.0067	.0020 10/02/01	125052		
		.0100	.0018 10/30/01	125638		
		.0150	.0022 11/27/01	126105		
		.0227	.0025 12/26/01	126611		
		K-40	.0014	.0074 03/20/01	121475	
			.0129	.0076 05/15/01	122552	
			.0083	.0059 09/04/01	124576	
	.0080		.0105 11/27/01	126105		
	PB-212	.0006	.0006 06/12/01	123042		
		PB-214	.0152	.0020 01/23/01	120435	
		.0183	.0024 02/20/01	120969		
		.0105	.0016 03/20/01	121475		
		.0113	.0014 04/17/01	121976		
		.0135	.0021 05/15/01	122552		
		.0081	.0016 06/12/01	123042		
		.0155	.0015 07/10/01	123547		
		.0050	.0011 08/07/01	124086		
		.0025	.0007 09/04/01	124576		
		.0057	.0012 10/02/01	125052		
		.0101	.0026 10/30/01	125638		
		.0103	.0016 11/27/01	126105		
		.0217	.0021 12/26/01	126611		
		3107 PM3 10.4 MILES NNE	GROSS BETA	.0252	.0027 01/02/01	120088
				.0197	.0022 01/09/01	120180
				.0242	.0026 01/16/01	120284

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
3107 PM3	10.4 MILES NNE	GROSS BETA				
			.0234	.0025	01/23/01	120393
			.0286	.0031	01/30/01	120618
			.0261	.0028	02/06/01	120710
			.0205	.0023	02/13/01	120821
			.0207	.0023	02/20/01	120927
			.0206	.0023	02/27/01	121100
			.0222	.0024	03/06/01	121193
			.0179	.0020	03/13/01	121308
			.0129	.0015	03/20/01	121431
			.0166	.0019	03/27/01	121589
			.0181	.0020	04/03/01	121717
			.0210	.0023	04/10/01	121829
			.0182	.0021	04/17/01	121935
			.0223	.0025	04/24/01	122090
			.0212	.0023	05/01/01	122279
			.0258	.0028	05/08/01	122408
			.0174	.0020	05/15/01	122511
			.0191	.0021	05/22/01	122649
			.0136	.0016	05/29/01	122767
			.0133	.0016	06/05/01	122887
			.0193	.0022	06/12/01	123000
			.0214	.0024	06/19/01	123151
			.0185	.0021	06/26/01	123267
			.0154	.0018	07/02/01	123394
			.0171	.0019	07/10/01	123507
			.0188	.0021	07/17/01	123643
			.0246	.0027	07/24/01	123760
			.0125	.0015	07/31/01	123915
			.0185	.0021	08/07/01	124045
			.0146	.0017	08/14/01	124182
			.0251	.0027	08/21/01	124288
			.0263	.0028	08/28/01	124423
			.0139	.0016	09/04/01	124534
			.0216	.0024	09/11/01	124680
			.0275	.0030	09/18/01	124776
			.0278	.0030	09/25/01	124906
			.0189	.0021	10/02/01	125012
			.0292	.0031	10/09/01	125159

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3107 PM3 10.4 MILES NNE	GROSS BETA	.0133	.0016	10/16/01	125269	
		.0229	.0025	10/23/01	125377	
		.0152	.0018	10/30/01	125586	
		.0231	.0025	11/06/01	125733	
		.0319	.0034	11/13/01	125830	
		.0356	.0040	11/19/01	125937	
		.0273	.0029	11/27/01	126065	
		.0234	.0026	12/04/01	126196	
		.0210	.0023	12/11/01	126289	
		.0119	.0015	12/18/01	126411	
		.0250	.0027	12/26/01	126569	
		GAMMA SCAN (GELI) AC-228 BE-7	.0008	.0012	02/20/01	120970
			.0732	.0078	01/23/01	120436
			.0825	.0065	02/20/01	120970
			.0869	.0081	03/20/01	121476
			.1239	.0107	04/17/01	121977
			.1441	.0083	05/15/01	122553
			.0975	.0109	06/12/01	123043
			.1188	.0091	07/10/01	123548
			.0993	.0091	08/07/01	124087
			.0922	.0079	09/04/01	124577
			.1077	.0090	10/02/01	125053
			.0945	.0100	10/30/01	125639
			.1038	.0098	11/27/01	126106
	.0788		.0080	12/26/01	126612	
	BI-214		.0137	.0019	01/23/01	120436
			.0250	.0022	02/20/01	120970
			.0134	.0020	03/20/01	121476
			.0235	.0025	04/17/01	121977
			.0105	.0014	05/15/01	122553
			.0135	.0020	06/12/01	123043
			.0186	.0024	07/10/01	123548
			.0032	.0012	08/07/01	124087
			.0029	.0013	09/04/01	124577
			.0066	.0013	10/02/01	125053
		.0134	.0016	10/30/01	125639	

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3107 PM3 10.4 MILES NNE	GAMMA SCAN (GELI)	.0227	.0029	11/27/01	126106	
		BI-214	.0155	.0020	12/26/01	126612
		K-40	.0115	.0056	02/20/01	120970
	PB-212	GROSS BETA	.0069	.0047	03/20/01	121476
			.0120	.0060	04/17/01	121977
			.0100	.0089	05/15/01	122553
			.0129	.0073	07/10/01	123548
			.0024	.0074	08/07/01	124087
			.0108	.0076	09/04/01	124577
			.0184	.0074	12/26/01	126612
			.0009	.0006	05/15/01	122553
			.0001	.0004	06/12/01	123043
			.0004	.0008	12/26/01	126612
			.0142	.0016	01/23/01	120436
			.0229	.0019	02/20/01	120970
			.0128	.0013	03/20/01	121476
			.0195	.0015	04/17/01	121977
			.0122	.0014	05/15/01	122553
	.0150	.0015	06/12/01	123043		
	.0145	.0016	07/10/01	123548		
	.0016	.0011	09/04/01	124577		
	.0043	.0013	10/02/01	125053		
	.0128	.0013	10/30/01	125639		
	.0187	.0025	11/27/01	126106		
	.0166	.0018	12/26/01	126612		
	.0007	.0006	05/15/01	122553		
	3108 PM4 7.6 MILES NE/ENE	GROSS BETA	.0240	.0026	01/03/01	120091
			.0184	.0021	01/09/01	120182
			.0231	.0025	01/17/01	120286
			.0214	.0024	01/23/01	120395
			.0257	.0028	01/31/01	120621
			.0245	.0027	02/06/01	120712
			.0192	.0022	02/13/01	120823
.0200			.0022	02/20/01	120929	
.0176			.0020	02/28/01	121103	
.0202			.0023	03/06/01	121195	

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3108 PM4	7.6 MILES NE/ENE	GROSS BETA .		
			.0181	.0020 03/13/01 121310
			.0110	.0013 03/20/01 121433
			.0165	.0018 03/28/01 121592
			.0175	.0020 04/03/01 121719
			.0204	.0022 04/11/01 121831
			.0201	.0022 04/17/01 121937
			.0179	.0020 04/25/01 122093
			.0223	.0025 05/01/01 122281
			.0226	.0024 05/09/01 122410
			.0177	.0020 05/15/01 122513
			.0197	.0022 05/23/01 122652
			.0134	.0016 05/29/01 122769
			.0143	.0016 06/06/01 122889
			.0175	.0020 06/12/01 123002
			.0232	.0025 06/20/01 123154
			.0197	.0022 06/27/01 123269
			.0133	.0016 07/03/01 123397
			.0165	.0018 07/10/01 123509
			.0214	.0023 07/18/01 123646
			.0234	.0025 07/25/01 123762
			.0115	.0014 07/31/01 123917
			.0176	.0020 08/08/01 124047
			.0177	.0020 08/15/01 124185
			.0258	.0028 08/22/01 124290
			.0292	.0031 08/29/01 124425
			.0105	.0013 09/05/01 124536
			.0217	.0024 09/12/01 124683
			.0325	.0034 09/19/01 124778
			.0259	.0028 09/26/01 124908
			.0203	.0022 10/03/01 125014
			.0274	.0029 10/10/01 125162
			.0136	.0016 10/17/01 125271
			.0260	.0028 10/24/01 125379
			.0178	.0020 10/31/01 125588
			.0244	.0027 11/07/01 125736
			.0355	.0038 11/14/01 125832
			.0449	.0047 11/20/01 125939
			.0278	.0030 11/28/01 126067

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3108 PM4 7.6 MILES NE/ENE	GROSS BETA	.0244	.0027	12/05/01	126199	
		.0196	.0022	12/12/01	126291	
		.0134	.0016	12/19/01	126413	
		.0201	.0022	12/26/01	126571	
	GAMMA SCAN (GELI) BE-7	.0602	.0074	01/23/01	120437	
		.0913	.0112	02/20/01	120971	
		.0839	.0074	03/20/01	121477	
		.1091	.0083	04/17/01	121978	
		.1279	.0081	05/15/01	122554	
		.0875	.0078	06/12/01	123044	
		.1080	.0131	07/10/01	123549	
		.0866	.0079	08/08/01	124088	
		.0849	.0151	09/05/01	124578	
		.0970	.0080	10/03/01	125054	
		.0913	.0071	10/31/01	125640	
		.1011	.0093	11/28/01	126107	
		.0740	.0072	12/26/01	126613	
		BI-214	.0150	.0020	01/23/01	120437
			.0167	.0026	02/20/01	120971
			.0064	.0014	03/20/01	121477
			.0141	.0015	04/17/01	121978
			.0160	.0022	05/15/01	122554
	.0036		.0012	06/12/01	123044	
	.0008		.0009	07/10/01	123549	
	.0018		.0010	08/08/01	124088	
	.0043		.0011	09/05/01	124578	
	.0075		.0013	10/03/01	125054	
	.0130		.0014	10/31/01	125640	
	.0128		.0018	11/28/01	126107	
	K-40	.0118	.0015	12/26/01	126613	
		.0062	.0082	01/23/01	120437	
		.0047	.0095	03/20/01	121477	
		.0047	.0051	04/17/01	121978	
		.0085	.0085	05/15/01	122554	
		.0061	.0058	06/12/01	123044	
		.0107	.0090	08/08/01	124088	

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED LAB NO			
3108 PM4 7.6 MILES NE/ENE	GAMMA SCAN (GELI) K-40 PB-212 PB-214 TL-208	.0105	.0050	10/03/01	125054		
		.0000	.0007	03/20/01	121477		
		.0006	.0006	08/08/01	124088		
		.0001	.0007	12/26/01	126613		
		.0142	.0020	01/23/01	120437		
		.0185	.0024	02/20/01	120971		
		.0051	.0009	03/20/01	121477		
		.0112	.0011	04/17/01	121978		
		.0157	.0016	05/15/01	122554		
		.0028	.0008	06/12/01	123044		
		.0030	.0009	07/10/01	123549		
		.0020	.0008	08/08/01	124088		
		.0030	.0006	09/05/01	124578		
		.0082	.0011	10/03/01	125054		
		.0133	.0014	10/31/01	125640		
		.0119	.0013	11/28/01	126107		
		.0096	.0008	12/26/01	126613		
		.0001	.0004	03/20/01	121477		
		.0002	.0003	08/08/01	124088		
		.0000	.0004	09/05/01	124578		
		.0007	.0004	12/26/01	126613		
		3109 PM5 DECATUR 8.0 MILES S	GROSS BETA	.0232	.0025	01/03/01	120094
				.0183	.0020	01/10/01	120184
				.0248	.0027	01/17/01	120288
				.0235	.0025	01/24/01	120397
				.0278	.0030	01/31/01	120624
				.0223	.0024	02/07/01	120714
.0189	.0021			02/13/01	120825		
.0198	.0022			02/21/01	120931		
.0161	.0018			02/28/01	121106		
.0181	.0020			03/07/01	121197		
.0180	.0020			03/14/01	121312		
.0104	.0013			03/21/01	121435		
.0177	.0020			03/28/01	121595		
.0167	.0019			04/04/01	121721		
.0200	.0022			04/11/01	121833		

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3109 PMS DECATUR	8.0 MILES S	GROSS BETA		
			.0175	.0019 04/18/01 121939
			.0174	.0019 04/25/01 122096
			.0240	.0026 05/02/01 122283
			.0227	.0025 05/09/01 122412
			.0190	.0021 05/16/01 122515
			.0197	.0022 05/23/01 122655
			.0158	.0018 05/30/01 122771
			.0149	.0017 06/06/01 122891
			.0206	.0023 06/13/01 123004
			.0229	.0025 06/20/01 123157
			.0183	.0020 06/27/01 123271
			.0136	.0016 07/03/01 123400
			.0175	.0019 07/11/01 123511
			.0230	.0025 07/18/01 123649
			.0203	.0022 07/25/01 123764
			.0123	.0015 08/01/01 123919
			.0177	.0020 08/08/01 124049
			.0163	.0018 08/15/01 124188
			.0263	.0028 08/22/01 124292
			.0290	.0031 08/29/01 124427
			.0121	.0014 09/05/01 124538
			.0219	.0024 09/12/01 124686
			.0317	.0033 09/19/01 124780
			.0251	.0027 09/26/01 124910
			.0213	.0023 10/03/01 125016
			.0296	.0031 10/10/01 125165
			.0132	.0015 10/17/01 125273
			.0266	.0029 10/24/01 125381
			.0202	.0022 10/31/01 125590
			.0293	.0031 11/07/01 125739
			.0390	.0041 11/14/01 125834
			.0369	.0039 11/20/01 125941
			.0285	.0030 11/28/01 126069
			.0237	.0026 12/05/01 126202
			.0215	.0023 12/12/01 126293
			.0118	.0014 12/19/01 126415
			.0224	.0024 12/26/01 126573

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 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
3109 PM5 DECATUR 8.0 MILES S	GAMMA SCAN (GELI)	.0012	.0013	09/05/01	124579	
		AC-228	.0599	.0049	01/24/01	120438
		BE-7	.0797	.0063	02/21/01	120972
			.0724	.0071	03/21/01	121478
			.0967	.0090	04/18/01	121979
			.1311	.0086	05/16/01	122555
			.0883	.0083	06/13/01	123045
			.1024	.0132	07/11/01	123550
			.0946	.0087	08/08/01	124089
			.0925	.0076	09/05/01	124579
			.1100	.0080	10/03/01	125055
			.0887	.0088	10/31/01	125641
			.0970	.0123	11/28/01	126108
			.0701	.0074	12/26/01	126614
		BI-214	.0094	.0015	01/24/01	120438
			.0210	.0022	02/21/01	120972
			.0126	.0016	03/21/01	121478
			.0055	.0012	04/18/01	121979
			.0070	.0014	06/13/01	123045
			.0039	.0011	08/08/01	124089
			.0016	.0010	09/05/01	124579
			.0056	.0012	10/31/01	125641
			.0056	.0021	11/28/01	126108
			.0122	.0017	12/26/01	126614
		K-40	.0120	.0053	02/21/01	120972
			.0072	.0048	04/18/01	121979
			.0065	.0054	05/16/01	122555
			.0093	.0091	08/08/01	124089
			.0041	.0067	09/05/01	124579
			.0048	.0060	10/03/01	125055
			.0069	.0052	10/31/01	125641
			.0036	.0040	12/26/01	126614
		PB-214	.0097	.0015	01/24/01	120438
			.0193	.0022	02/21/01	120972
			.0106	.0013	03/21/01	121478
			.0036	.0010	04/18/01	121979
			.0038	.0011	05/16/01	122555
			.0074	.0010	06/13/01	123045

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3109 PM5 DECATUR 8.0 MILES S	GAMMA SCAN (GELI) PB-214	.0044	.0010	08/08/01	124089
		.0008	.0009	09/05/01	124579
		.0007	.0007	10/03/01	125055
		.0054	.0015	10/31/01	125641
		.0118	.0031	11/28/01	126108
		.0099	.0013	12/26/01	126614
3203 LM3 1.9 MILES NNE	GROSS BETA	.0273	.0030	01/02/01	120097
		.0203	.0023	01/09/01	120197
		.0250	.0027	01/16/01	120290
		.0271	.0029	01/23/01	120403
		.0290	.0031	01/30/01	120627
		.0261	.0028	02/06/01	120728
		.0176	.0020	02/14/01	120827
		.0214	.0024	02/20/01	120937
		.0186	.0021	02/27/01	121109
		.0231	.0025	03/06/01	121211
		.0162	.0019	03/13/01	121314
		.0112	.0014	03/20/01	121441
		.0184	.0021	03/27/01	121598
		.0192	.0021	04/03/01	121734
		.0215	.0024	04/10/01	121835
		.0189	.0021	04/17/01	121945
		.0225	.0025	04/24/01	122099
		.0219	.0024	05/01/01	122306
		.0212	.0024	05/08/01	122414
		.0173	.0020	05/15/01	122521
		.0201	.0022	05/22/01	122658
		.0135	.0016	05/29/01	122786
		.0132	.0016	06/05/01	122893
		.0173	.0019	06/12/01	123009
		.0210	.0023	06/19/01	123160
		.0175	.0020	06/26/01	123284
		.0130	.0016	07/03/01	123403
.0166	.0019	07/10/01	123516		
.0210	.0023	07/17/01	123652		
.0214	.0023	07/25/01	123777		
.0112	.0014	07/31/01	123921		

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3203 LM3 1.9 MILES NNE	GROSS BETA	.0150	.0017	08/07/01	124055	
		.0161	.0018	08/14/01	124191	
		.0244	.0026	08/21/01	124307	
		.0250	.0027	08/28/01	124429	
		.0127	.0015	09/04/01	124543	
		.0198	.0022	09/11/01	124689	
		.0274	.0029	09/18/01	124793	
		.0277	.0030	09/25/01	124912	
		.0190	.0021	10/02/01	125021	
		.0289	.0031	10/10/01	125168	
		.0147	.0017	10/16/01	125286	
		.0215	.0024	10/23/01	125383	
		.0162	.0019	10/30/01	125605	
		.0243	.0026	11/06/01	125742	
		.0346	.0037	11/14/01	125847	
		.0468	.0049	11/19/01	125943	
		.0278	.0030	11/27/01	126074	
		.0199	.0022	12/04/01	126205	
		.0212	.0023	12/11/01	126308	
		.0121	.0015	12/18/01	126417	
		.0236	.0025	12/26/01	126578	
		GAMMA SCAN (GELI) BE-7	.0633	.0070	01/23/01	120439
			.0885	.0112	02/20/01	120973
			.0966	.0095	03/20/01	121479
			.1250	.0128	04/17/01	121980
			.1379	.0089	05/15/01	122556
			.0798	.0086	06/12/01	123046
			.1129	.0103	07/10/01	123551
			.0885	.0068	08/07/01	124090
			.0942	.0078	09/04/01	124580
			.1034	.0097	10/02/01	125056
			.0884	.0078	10/30/01	125642
	.1243		.0114	11/27/01	126109	
	.0774		.0067	12/26/01	126615	
	BI-214	.0316	.0023	01/23/01	120439	
		.0193	.0021	02/20/01	120973	

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3203 LM3 1.9 MILES NNE	GAMMA SCAN (GELI) BI-214	.0145	.0019	03/20/01	121479	
		.0126	.0018	04/17/01	121980	
		.0196	.0021	05/15/01	122556	
		.0113	.0014	06/12/01	123046	
		.0080	.0017	07/10/01	123551	
		.0029	.0011	08/07/01	124090	
		.0114	.0047	09/04/01	124580	
		.0040	.0013	10/02/01	125056	
		.0137	.0019	10/30/01	125642	
		.0273	.0030	11/27/01	126109	
	K-40	.0119	.0016	12/26/01	126615	
		.0045	.0067	04/17/01	121980	
		.0058	.0054	08/07/01	124090	
		.0087	.0053	09/04/01	124580	
		.0175	.0082	10/02/01	125056	
		.0044	.0068	10/30/01	125642	
		.0150	.0076	11/27/01	126109	
		.0126	.0064	12/26/01	126615	
		PB-212 PB-214	.0006	.0006	11/27/01	126109
			.0293	.0019	01/23/01	120439
		.0191	.0018	02/20/01	120973	
		.0123	.0012	03/20/01	121479	
		.0112	.0013	04/17/01	121980	
		.0201	.0016	05/15/01	122556	
		.0112	.0015	06/12/01	123046	
		.0057	.0013	07/10/01	123551	
		.0031	.0012	08/07/01	124090	
		.0022	.0007	09/04/01	124580	
		.0031	.0010	10/02/01	125056	
		.0155	.0014	10/30/01	125642	
		.0215	.0028	11/27/01	126109	
		.0124	.0015	12/26/01	126615	
	3204 LM-4 WB 0.9 MILES SE	GROSS BETA	.0254	.0027	01/03/01	120100
			.0206	.0023	01/09/01	120199
			.0258	.0028	01/16/01	120292
			.0237	.0026	01/23/01	120405

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PC1/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3204 LM-4 WB	0.9 MILES SE	GROSS BETA		
			.0289	.0031 01/30/01 120630
			.0242	.0026 02/06/01 120730
			.0243	.0027 02/20/01 120939
			.0189	.0021 02/27/01 121112
			.0213	.0023 03/06/01 121213
			.0167	.0019 03/13/01 121316
			.0126	.0015 03/20/01 121443
			.0169	.0019 03/28/01 121601
			.0170	.0019 04/03/01 121736
			.0205	.0022 04/11/01 121837
			.0184	.0021 04/17/01 121947
			.0197	.0022 04/25/01 122102
			.0227	.0025 05/01/01 122308
			.0230	.0025 05/08/01 122416
			.0168	.0019 05/15/01 122523
			.0180	.0020 05/23/01 122661
			.0119	.0015 05/29/01 122788
			.0131	.0015 06/05/01 122895
			.0177	.0020 06/12/01 123011
			.0221	.0024 06/20/01 123163
			.0183	.0021 06/26/01 123286
			.0123	.0015 07/03/01 123407
			.0168	.0019 07/10/01 123518
			.0208	.0023 07/18/01 123655
			.0222	.0024 07/25/01 123779
			.0109	.0014 07/31/01 123923
			.0100	.0012 08/07/01 124057
			.0168	.0019 08/15/01 124194
			.0250	.0027 08/21/01 124309
			.0277	.0030 08/28/01 124431
			.0148	.0017 09/04/01 124545
			.0222	.0024 09/12/01 124692
			.0271	.0029 09/18/01 124795
			.0258	.0028 09/26/01 124914
			.0201	.0022 10/02/01 125023
			.0296	.0031 10/10/01 125171
			.0130	.0016 10/16/01 125288
			.0225	.0025 10/23/01 125385

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
3204 LM-4 WB 0.9 MILES SE	GROSS BETA	.0156	.0018	10/30/01	125607	
		.0265	.0028	11/07/01	125745	
		.0353	.0037	11/14/01	125849	
		.0377	.0039	11/20/01	125945	
		.0288	.0032	11/27/01	126076	
		.0235	.0025	12/05/01	126208	
		.0197	.0022	12/11/01	126310	
		.0148	.0018	12/19/01	126419	
		.0232	.0025	12/26/01	126580	
		GAMMA SCAN (GELI) BE-7	.0683	.0062	01/23/01	120440
			.0854	.0116	02/20/01	120974
			.0767	.0078	03/20/01	121480
			.1097	.0091	04/17/01	121981
			.1381	.0108	05/15/01	122557
	.0947		.0084	06/12/01	123047	
	.1083		.0073	07/10/01	123552	
	.0800		.0070	08/07/01	124091	
	.0843		.0071	09/04/01	124581	
	.1093		.0105	10/02/01	125057	
	.0984		.0085	10/30/01	125643	
	.1169		.0106	11/27/01	126110	
	.0835		.0074	12/26/01	126616	
	BI-214		.0098	.0012	01/23/01	120440
		.0296	.0035	02/20/01	120974	
		.0034	.0011	03/20/01	121480	
		.0166	.0020	04/17/01	121981	
		.0145	.0018	05/15/01	122557	
		.0138	.0015	06/12/01	123047	
		.0070	.0013	07/10/01	123552	
		.0070	.0013	08/07/01	124091	
		.0042	.0016	09/04/01	124581	
		.0028	.0015	10/02/01	125057	
		.0104	.0018	10/30/01	125643	
		.0097	.0016	11/27/01	126110	
		.0131	.0016	12/26/01	126616	
		K-40	.0113	.0109	04/17/01	121981

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO		
			TERM	COLLECTED			
3204 LM-4 WB 0.9 MILES SE	GAMMA SCAN (GELI) K-40	.0145	.0055	06/12/01	123047		
		.0080	.0051	07/10/01	123552		
		.0117	.0059	08/07/01	124091		
		.0129	.0096	10/30/01	125643		
		.0039	.0071	11/27/01	126110		
		.0019	.0062	12/26/01	126616		
		PB-212	.0003	.0006	03/20/01	121480	
			.0004	.0006	04/17/01	121981	
			.0002	.0005	08/07/01	124091	
			.0004	.0006	10/30/01	125643	
			PB-214	.0092	.0012	01/23/01	120440
				.0279	.0021	02/20/01	120974
		.0016		.0009	03/20/01	121480	
		.0133		.0013	04/17/01	121981	
		.0140		.0015	05/15/01	122557	
		.0123		.0013	06/12/01	123047	
		.0070		.0013	07/10/01	123552	
		.0067		.0012	08/07/01	124091	
		.0027		.0013	09/04/01	124581	
		.0086		.0014	10/30/01	125643	
		.0108	.0013	11/27/01	126110		
		.0114	.0012	12/26/01	126616		
		3205 RM-3 WB 15 MILES NNW	TL-208 GROSS BETA	.0007	.0004	09/04/01	124581
				.0260	.0028	01/02/01	120103
				.0188	.0021	01/09/01	120201
				.0213	.0023	01/16/01	120294
				.0218	.0024	01/23/01	120407
				.0279	.0030	01/30/01	120633
				.0256	.0028	02/06/01	120732
				.0157	.0018	02/13/01	120831
				.0178	.0020	02/20/01	120941
				.0195	.0022	02/27/01	121115
				.0197	.0022	03/06/01	121215
				.0143	.0017	03/13/01	121318
.0118	.0014			03/20/01	121445		
.0179	.0020			03/27/01	121604		

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 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3205 RM-3 WB 15 MILES NNW	GROSS BETA	.0170	.0019	04/03/01	121738
		.0193	.0022	04/10/01	121839
		.0191	.0021	04/17/01	121949
		.0226	.0025	04/24/01	122105
		.0215	.0024	05/01/01	122310
		.0262	.0028	05/08/01	122418
		.0162	.0018	05/15/01	122525
		.0174	.0020	05/22/01	122664
		.0136	.0016	05/29/01	122790
		.0104	.0013	06/05/01	122897
		.0159	.0018	06/12/01	123013
		.0227	.0025	06/19/01	123166
		.0187	.0021	06/26/01	123288
		.0147	.0017	07/02/01	123410
		.0179	.0020	07/10/01	123520
		.0192	.0021	07/17/01	123658
		.0236	.0026	07/24/01	123781
		.0131	.0015	07/31/01	123925
		.0184	.0020	08/07/01	124059
		.0143	.0017	08/14/01	124197
		.0270	.0029	08/21/01	124311
		.0240	.0026	08/28/01	124433
		.0130	.0015	09/04/01	124547
		.0221	.0024	09/11/01	124695
		.0289	.0031	09/18/01	124797
		.0292	.0031	09/25/01	124916
		.0182	.0020	10/02/01	125025
		.0208	.0023	10/09/01	125174
		.0138	.0016	10/16/01	125290
		.0212	.0023	10/23/01	125387
		.0150	.0017	10/30/01	125609
		.0149	.0017	11/06/01	125748
		.0295	.0032	11/13/01	125851
		.0369	.0038	11/19/01	125947
		.0225	.0024	11/27/01	126078
		.0204	.0023	12/04/01	126211
		.0212	.0023	12/11/01	126312
		.0120	.0015	12/18/01	126421

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 PC1/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3205 RM-3 WB 15 MILES NNW	GROSS BETA	.0233	.0025	12/26/01	126582
	GAMMA SCAN (GELI)				
	BE-7	.0587	.0069	01/23/01	120441
		.0771	.0069	02/20/01	120975
		.0925	.0077	03/20/01	121481
		.1047	.0115	04/17/01	121982
		.1386	.0089	05/15/01	122558
		.0876	.0086	06/12/01	123048
		.1072	.0087	07/10/01	123553
		.1000	.0082	08/07/01	124092
		.0912	.0091	09/04/01	124582
		.1197	.0096	10/02/01	125058
		.0942	.0101	10/30/01	125644
		.0976	.0093	11/27/01	126111
		.0733	.0084	12/26/01	126617
	BI-214	.0147	.0015	01/23/01	120441
		.0169	.0025	02/20/01	120975
		.0068	.0014	03/20/01	121481
		.0256	.0028	04/17/01	121982
		.0071	.0015	05/15/01	122558
		.0019	.0008	06/12/01	123048
		.0088	.0012	07/10/01	123553
		.0016	.0012	08/07/01	124092
		.0049	.0012	09/04/01	124582
		.0060	.0015	10/02/01	125058
		.0113	.0015	10/30/01	125644
		.0138	.0026	11/27/01	126111
		.0100	.0015	12/26/01	126617
	K-40	.0112	.0062	01/23/01	120441
		.0191	.0073	02/20/01	120975
		.0036	.0097	04/17/01	121982
		.0120	.0058	05/15/01	122558
		.0124	.0074	07/10/01	123553
		.0065	.0068	10/02/01	125058
		.0050	.0078	11/27/01	126111
		.0092	.0061	12/26/01	126617
	PB-212	.0006	.0005	02/20/01	120975

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WATTS BAR NUCLEAR PLANT
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 PC1/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3205 RM-3 WB 15 MILES NNW	GAMMA SCAN (GELI) PB-212	.0003	.0008	10/02/01	125058
		.0003	.0005	10/30/01	125644
	PB-214	.0132	.0012	01/23/01	120441
		.0164	.0019	02/20/01	120975
		.0070	.0008	03/20/01	121481
		.0242	.0021	04/17/01	121982
		.0076	.0014	05/15/01	122558
		.0087	.0015	07/10/01	123553
		.0019	.0010	08/07/01	124092
		.0049	.0009	09/04/01	124582
		.0055	.0012	10/02/01	125058
		.0097	.0014	10/30/01	125644
		.0141	.0017	11/27/01	126111
		.0081	.0011	12/26/01	126617

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PC1/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
2116 RM-2 DAYTON TN 15.0 MILES SW	GAMMA SCAN (GELI)			
		NO ACTIVITY DETECTED	08/21/01	124259
		NO ACTIVITY DETECTED	08/28/01	124401
	AC-228	.0251	.0097 05/22/01	122617
	BI-214	.0732	.0122 01/02/01	120056
		.0908	.0125 01/09/01	120150
		.1160	.0211 01/16/01	120262
		.0657	.0132 01/23/01	120354
		.0308	.0098 01/30/01	120586
		.0612	.0102 02/06/01	120681
		.0801	.0185 02/13/01	120799
		.0993	.0200 02/20/01	120887
		.2181	.0389 02/27/01	121068
		.0780	.0127 03/06/01	121163
		.1276	.0172 03/13/01	121286
		.0456	.0125 03/20/01	121390
		.0670	.0130 03/27/01	121557
		.0364	.0092 04/03/01	121688
		.0313	.0088 04/10/01	121807
		.0308	.0098 04/17/01	121899
		.0264	.0089 04/24/01	122058
		.0463	.0123 05/01/01	122227
		.0593	.0133 05/08/01	122386
		.0269	.0086 05/22/01	122617
		.0436	.0121 05/29/01	122739
		.0373	.0091 06/05/01	122865
		.0189	.0072 06/12/01	122963
		.0623	.0119 06/19/01	123119
		.0497	.0111 06/26/01	123238
		.0462	.0110 07/10/01	123471
		.0253	.0096 07/24/01	123731
		.0113	.0066 07/31/01	123893
		.0307	.0106 09/11/01	124648
		.0166	.0072 09/18/01	124747
		.0290	.0100 10/02/01	124976
		.0977	.0163 10/16/01	125240
		.0345	.0089 10/23/01	125355
		.0899	.0135 10/30/01	125532
		.0434	.0144 11/06/01	125701

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED	LAB NO	
2116 RM-2 DAYTON TN 15.0 MILES SW	GAMMA SCAN (GELI) BI-214	.2049	.0164	11/13/01	125801	
		.2102	.0270	11/19/01	125915	
		.0562	.0151	11/27/01	126028	
		.0355	.0080	12/11/01	126260	
		.0689	.0123	12/18/01	126389	
		.0671	.0122	12/26/01	126532	
		K-40	.2842	.0753	01/09/01	120150
			.2533	.0602	01/30/01	120586
			.2639	.0557	02/20/01	120887
			.1841	.0372	02/27/01	121068
			.2067	.0886	03/13/01	121286
			.2105	.0447	04/17/01	121899
			.2629	.0536	05/08/01	122386
			.2739	.0551	05/22/01	122617
			.1619	.0452	05/29/01	122739
	.2508		.0448	07/31/01	123893	
	.2241		.0427	09/11/01	124648	
	.2202		.0555	09/18/01	124747	
	.2793		.0640	10/16/01	125240	
	.1975		.0658	11/06/01	125701	
	.8316		.1444	11/13/01	125801	
	PB-212 PB-214	.5505	.0849	11/19/01	125915	
		.1559	.0400	11/27/01	126028	
		.0143	.0052	11/19/01	125915	
		.0934	.0166	01/02/01	120056	
		.1569	.0172	01/09/01	120150	
		.1760	.0162	01/16/01	120262	
		.0616	.0137	01/23/01	120354	
		.0388	.0101	01/30/01	120586	
		.0563	.0108	02/06/01	120681	
		.0756	.0108	02/13/01	120799	
		.1298	.0164	02/20/01	120887	
		.1147	.0162	02/27/01	121068	
		.0723	.0124	03/06/01	121163	
		.1549	.0274	03/13/01	121286	
		.0522	.0140	03/20/01	121390	
	.0775	.0113	03/27/01	121557		
	.0542	.0101	04/03/01	121688		

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO		
			TERM	COLLECTED			
2116 RM-2 DAYTON TN 15.0 MILES SW	GAMMA SCAN (GELI) PB-214	.0553	.0084	04/17/01	121899		
		.0205	.0095	04/24/01	122058		
		.0509	.0107	05/01/01	122227		
		.0716	.0123	05/08/01	122386		
		.0222	.0097	05/15/01	122475		
		.0498	.0106	05/22/01	122617		
		.0766	.0120	05/29/01	122739		
		.0495	.0089	06/05/01	122865		
		.0411	.0083	06/12/01	122963		
		.1064	.0124	06/19/01	123119		
		.0734	.0154	06/26/01	123238		
		.0494	.0118	07/02/01	123358		
		.0648	.0109	07/10/01	123471		
		.0301	.0072	07/17/01	123611		
		.0299	.0090	07/24/01	123731		
		.0162	.0060	07/31/01	123893		
		.0208	.0064	08/07/01	124010		
		.0283	.0087	08/14/01	124150		
		.0136	.0087	09/04/01	124496		
		.0304	.0092	09/11/01	124648		
		.0172	.0065	09/18/01	124747		
		.0139	.0079	09/25/01	124884		
		.0455	.0061	10/02/01	124976		
		.0281	.0068	10/09/01	125127		
		.1226	.0112	10/16/01	125240		
		.0688	.0106	10/23/01	125355		
		.1024	.0139	10/30/01	125532		
		.0561	.0136	11/06/01	125701		
		.1825	.0173	11/13/01	125801		
		.2259	.0142	11/19/01	125915		
		.0578	.0083	11/27/01	126028		
		.0449	.0099	12/04/01	126164		
		.0164	.0060	12/11/01	126260		
		.0801	.0096	12/18/01	126389		
		.0725	.0129	12/26/01	126532		
		3101 LM1	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	04/10/01	121823	

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3101 LM1	0.5 MILES SSW	GAMMA SCAN (GELI)				
		NO ACTIVITY DETECTED	05/15/01	122505		
		NO ACTIVITY DETECTED	07/02/01	123384		
		NO ACTIVITY DETECTED	07/24/01	123754		
		NO ACTIVITY DETECTED	07/31/01	123909		
		NO ACTIVITY DETECTED	08/21/01	124282		
		NO ACTIVITY DETECTED	09/04/01	124528		
		NO ACTIVITY DETECTED	11/27/01	126059		
		AC-228	.0033	.0103	11/19/01	125931
		BI-214	.0839	.0161	01/02/01	120079
			.0689	.0152	01/09/01	120174
			.1006	.0151	01/16/01	120278
			.0520	.0102	01/23/01	120387
			.0455	.0096	01/30/01	120609
			.0749	.0130	02/06/01	120704
			.0868	.0139	02/14/01	120815
			.0749	.0159	02/20/01	120921
			.0390	.0099	02/27/01	121091
			.0560	.0142	03/06/01	121187
			.1062	.0157	03/13/01	121302
			.0445	.0109	03/27/01	121580
			.0330	.0084	04/24/01	122081
			.0442	.0099	05/08/01	122402
			.0402	.0105	05/22/01	122640
			.0445	.0124	05/29/01	122761
			.0497	.0109	06/05/01	122881
			.0516	.0142	06/12/01	122994
			.0883	.0120	06/19/01	123142
			.0457	.0171	06/26/01	123261
			.0119	.0069	07/10/01	123501
			.0345	.0103	07/17/01	123634
			.0138	.0060	08/14/01	124173
			.0212	.0076	09/18/01	124770
	.0240	.0091	09/25/01	124900		
	.0141	.0103	10/09/01	125150		
	.0631	.0103	10/16/01	125263		
	.0392	.0098	10/23/01	125371		
	.0846	.0128	10/30/01	125580		
	.0553	.0118	11/06/01	125724		

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PC1/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED LAB NO			
3101 LM1	0.5 MILES SSW	GAMMA SCAN (GELI) BI-214	.0776	.0158	11/13/01	125824	
			.2169	.0183	11/19/01	125931	
			.0356	.0109	12/18/01	126405	
			.0317	.0086	12/26/01	126563	
			K-40	.2512	.0632	01/02/01	120079
				.2837	.0437	01/16/01	120278
				.2346	.0561	01/30/01	120609
				.1739	.0475	02/14/01	120815
				.3205	.0557	02/20/01	120921
				.2466	.0537	03/13/01	121302
				.2902	.0651	05/08/01	122402
				.3148	.0765	05/22/01	122640
				.2370	.0519	05/29/01	122761
				.2277	.0535	06/05/01	122881
				.4014	.0662	06/19/01	123142
				.3125	.0540	09/18/01	124770
			.4070	.0613	10/09/01	125150	
			.2381	.0483	10/16/01	125263	
			.2699	.0502	10/23/01	125371	
			.6378	.0887	11/19/01	125931	
			.2364	.0498	12/11/01	126283	
			PB-212	.0014	.0042	08/07/01	124039
				.0087	.0049	11/19/01	125931
			PB-214	.1211	.0157	01/02/01	120079
				.0939	.0154	01/09/01	120174
				.1296	.0162	01/16/01	120278
				.0831	.0112	01/23/01	120387
				.0366	.0082	01/30/01	120609
				.0603	.0112	02/06/01	120704
				.1171	.0161	02/14/01	120815
				.0782	.0135	02/20/01	120921
				.0404	.0099	02/27/01	121091
				.0630	.0139	03/06/01	121187
				.1328	.0177	03/13/01	121302
				.0183	.0067	03/20/01	121425
				.0532	.0107	03/27/01	121580
			.0000	.0053	04/03/01	121711	
			.0604	.0140	04/24/01	122081	

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PC1/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3101 LM1 0.5 MILES SSW	GAMMA SCAN (GELI) PB-214	.0250	.0120	05/01/01 122273		
		.0647	.0106	05/08/01 122402		
		.0226	.0095	05/22/01 122640		
		.0758	.0130	05/29/01 122761		
		.0462	.0093	06/05/01 122881		
		.0396	.0106	06/12/01 122994		
		.1175	.0154	06/19/01 123142		
		.0608	.0117	06/26/01 123261		
		.0143	.0074	07/10/01 123501		
		.0307	.0112	07/17/01 123634		
		.0585	.0138	08/14/01 124173		
		.0138	.0090	08/28/01 124417		
		.0285	.0069	09/11/01 124671		
		.0192	.0058	09/18/01 124770		
		.0040	.0057	09/25/01 124900		
		.0228	.0078	10/02/01 125006		
		.0632	.0125	10/16/01 125263		
		.0308	.0084	10/23/01 125371		
		.0713	.0116	10/30/01 125580		
		.0832	.0135	11/06/01 125724		
		.1301	.0181	11/13/01 125824		
		.2292	.0158	11/19/01 125931		
		.0368	.0071	12/04/01 126187		
		.0177	.0066	12/11/01 126283		
		.0788	.0111	12/18/01 126405		
		.0454	.0074	12/26/01 126563		
		3102 LM2 0.5 MILES N	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	01/30/01	120613
				NO ACTIVITY DETECTED	05/15/01	122508
				NO ACTIVITY DETECTED	05/22/01	122644
				NO ACTIVITY DETECTED	07/24/01	123757
				NO ACTIVITY DETECTED	07/31/01	123912
				NO ACTIVITY DETECTED	08/07/01	124042
				NO ACTIVITY DETECTED	08/14/01	124177
				NO ACTIVITY DETECTED	08/21/01	124285
				NO ACTIVITY DETECTED	09/04/01	124531
				NO ACTIVITY DETECTED	12/26/01	126566

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 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
3102 LM2 0.5 MILES N	GAMMA SCAN (GELI) BI-214	.0548	.0117	01/02/01	120083	
		.0454	.0117	01/09/01	120177	
		.0894	.0144	01/16/01	120281	
		.0540	.0100	01/23/01	120390	
		.0483	.0116	02/06/01	120707	
		.0400	.0074	02/14/01	120818	
		.0644	.0143	02/20/01	120924	
		.0435	.0098	02/27/01	121095	
		.0777	.0141	03/06/01	121190	
		.0920	.0158	03/13/01	121305	
		.0337	.0090	03/27/01	121584	
		.0158	.0059	04/03/01	121714	
		.0200	.0095	04/17/01	121932	
		.0373	.0120	04/24/01	122085	
		.0157	.0067	05/01/01	122276	
		.0541	.0122	05/08/01	122405	
		.0532	.0128	05/29/01	122764	
		.0212	.0107	06/05/01	122884	
		.0545	.0092	06/12/01	122997	
		.0611	.0124	06/19/01	123146	
		.0431	.0112	06/26/01	123264	
		.0239	.0086	07/10/01	123504	
		.0195	.0075	09/11/01	124675	
		.0110	.0068	09/18/01	124773	
		.0202	.0064	10/02/01	125009	
		.0265	.0083	10/09/01	125154	
		.0665	.0117	10/16/01	125266	
		.0423	.0138	10/23/01	125374	
		.0511	.0114	10/30/01	125583	
		.0839	.0165	11/06/01	125728	
		.0936	.0197	11/13/01	125827	
		.1276	.0260	11/19/01	125934	
		.0400	.0098	11/27/01	126062	
		.0341	.0108	12/04/01	126191	
		.0352	.0099	12/18/01	126408	
		K-40	.0929	.0505	02/20/01	120924
			.2165	.0522	03/13/01	121305
			.2680	.0618	06/05/01	122884

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 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3102 LM2 0.5 MILES N	GAMMA SCAN (GELI) K-40	.2635	.0536	06/26/01	123264
		.1963	.0557	09/18/01	124773
	.2641	.0337	10/23/01	125374	
	.7011	.1380	11/19/01	125934	
	PB-214	.0569	.0104	01/02/01	120083
		.0608	.0126	01/09/01	120177
		.1209	.0175	01/16/01	120281
		.0849	.0177	01/23/01	120390
		.0644	.0161	02/06/01	120707
		.0505	.0091	02/14/01	120818
		.0969	.0137	02/20/01	120924
		.0507	.0131	02/27/01	121095
		.0953	.0149	03/06/01	121190
		.1227	.0151	03/13/01	121305
		.0777	.0135	03/27/01	121584
		.0544	.0092	04/03/01	121714
		.0076	.0068	04/10/01	121826
		.0226	.0065	04/17/01	121932
		.0244	.0080	04/24/01	122085
		.0396	.0103	05/01/01	122276
		.0830	.0130	05/08/01	122405
		.0921	.0173	05/29/01	122764
		.0334	.0072	06/05/01	122884
		.0547	.0081	06/12/01	122997
		.0823	.0095	06/19/01	123146
		.0587	.0095	06/26/01	123264
		.0226	.0117	07/02/01	123388
		.0387	.0088	07/10/01	123504
		.0105	.0069	07/17/01	123638
		.0272	.0094	08/28/01	124420
		.0234	.0076	09/11/01	124675
		.0080	.0053	09/18/01	124773
		.0217	.0059	09/25/01	124903
		.0236	.0062	10/09/01	125154
		.0964	.0152	10/16/01	125266
		.0481	.0076	10/23/01	125374
		.0635	.0095	10/30/01	125583
		.0898	.0127	11/06/01	125728

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3102 LM2 0.5 MILES N	GAMMA SCAN (GELI) PB-214	.1132	.0196	11/13/01	125827
		.1106	.0251	11/19/01	125934
		.0431	.0109	11/27/01	126062
		.0294	.0087	12/04/01	126191
		.0199	.0062	12/11/01	126286
		.0844	.0150	12/18/01	126408
3106 PM2 SPRING CITY 7.0 MILES NW	GAMMA SCAN (GELI) NO ACTIVITY DETECTED NO ACTIVITY DETECTED NO ACTIVITY DETECTED NO ACTIVITY DETECTED NO ACTIVITY DETECTED BI-214			07/02/01	123391
				07/17/01	123641
				07/31/01	123914
				08/14/01	124180
				08/21/01	124287
		.0668	.0121	01/02/01	120086
		.0736	.0144	01/16/01	120283
		.0371	.0120	01/23/01	120392
		.0461	.0150	02/06/01	120709
		.0364	.0129	02/13/01	120820
		.0284	.0086	02/20/01	120926
		.0536	.0117	02/27/01	121098
		.0249	.0089	03/06/01	121192
		.0417	.0125	03/13/01	121307
		.0625	.0115	03/20/01	121430
		.0431	.0096	03/27/01	121587
		.0264	.0084	04/10/01	121828
		.0394	.0120	04/17/01	121934
		.0246	.0099	04/24/01	122088
		.0357	.0103	05/01/01	122278
		.0234	.0084	05/08/01	122407
		.0156	.0084	05/15/01	122510
		.0415	.0093	06/12/01	122999
		.0456	.0084	06/19/01	123149
		.0499	.0108	06/26/01	123266
		.0095	.0064	07/24/01	123759
		.0155	.0065	09/18/01	124775
		.0151	.0081	10/09/01	125157
		.0368	.0101	10/30/01	125585
		.0391	.0111	11/06/01	125731

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM COLLECTED	LAB NO		
3106 PM2 SPRING CITY 7.0 MILES NW	GAMMA SCAN (GELI) BI-214	.0430	.0130	11/13/01	125829	
		.0648	.0124	12/04/01	126194	
		.0391	.0109	12/18/01	126410	
	K-40	.0234	.0094	12/26/01	126568	
		.2432	.0701	01/16/01	120283	
		.2709	.0616	02/27/01	121098	
		.2600	.0652	03/20/01	121430	
		.2981	.0556	05/01/01	122278	
		.1973	.0585	05/29/01	122766	
		.3488	.0658	06/12/01	122999	
		.2024	.0477	09/04/01	124533	
		.3053	.0585	10/09/01	125157	
		.3143	.0532	11/13/01	125829	
		.3937	.0569	12/18/01	126410	
		PB-214	.2188	.0609	12/26/01	126568
			.0720	.0143	01/02/01	120086
			.0690	.0111	01/09/01	120179
			.0870	.0150	01/16/01	120283
			.0475	.0123	01/23/01	120392
			.0193	.0107	01/30/01	120616
			.0542	.0110	02/06/01	120709
	.0444		.0128	02/13/01	120820	
	.0317		.0115	02/20/01	120926	
	.0337		.0100	02/27/01	121098	
	.0323		.0095	03/06/01	121192	
	.0390		.0086	03/13/01	121307	
	.0668		.0097	03/20/01	121430	
	.0814		.0119	03/27/01	121587	
	.0169		.0087	04/03/01	121716	
	.0412		.0084	04/10/01	121828	
	.0349		.0085	04/17/01	121934	
	.0441		.0097	04/24/01	122088	
	.0640	.0103	05/01/01	122278		
	.0332	.0076	05/08/01	122407		
	.0273	.0091	05/15/01	122510		
	.0272	.0097	05/22/01	122647		
	.0264	.0089	05/29/01	122766		
	.0261	.0100	06/05/01	122886		

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM COLLECTED	LAB NO	
3106 PM2 SPRING CITY 7.0 MILES NW	GAMMA SCAN (GELI) PB-214	.0557	.0096	06/12/01	122999
		.0496	.0092	06/19/01	123149
		.0639	.0146	06/26/01	123266
		.0155	.0039	07/10/01	123506
		.0146	.0074	07/24/01	123759
		.0074	.0062	08/07/01	124044
		.0049	.0041	08/28/01	124422
		.0071	.0052	09/11/01	124678
		.0237	.0071	09/18/01	124775
		.0250	.0066	09/25/01	124905
		.0095	.0079	10/02/01	125011
		.0228	.0066	10/09/01	125157
		.0523	.0125	10/16/01	125268
		.0218	.0067	10/23/01	125376
		.0596	.0126	10/30/01	125585
		.0598	.0130	11/06/01	125731
		.0785	.0131	11/13/01	125829
		.0958	.0210	11/19/01	125936
		.0347	.0056	11/27/01	126064
		.0439	.0125	12/04/01	126194
		.0306	.0084	12/11/01	126288
		.0394	.0092	12/18/01	126410
		.0365	.0106	12/26/01	126568
3107 PM3 10.4 MILES NNE	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	03/13/01	121309	
		NO ACTIVITY DETECTED	04/03/01	121718	
		NO ACTIVITY DETECTED	04/10/01	121830	
		NO ACTIVITY DETECTED	04/24/01	122091	
		NO ACTIVITY DETECTED	05/15/01	122512	
		NO ACTIVITY DETECTED	07/10/01	123508	
		NO ACTIVITY DETECTED	07/31/01	123916	
		NO ACTIVITY DETECTED	08/28/01	124424	
		NO ACTIVITY DETECTED	09/04/01	124535	
		NO ACTIVITY DETECTED	09/11/01	124681	
		NO ACTIVITY DETECTED	10/02/01	125013	
		NO ACTIVITY DETECTED	10/09/01	125160	
		NO ACTIVITY DETECTED	11/27/01	126066	

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3107 PM3 10.4 MILES NNE	GAMMA SCAN (GELI) BI-214	.0292	.0092	01/02/01	120089
		.0437	.0098	01/09/01	120181
		.0395	.0096	01/16/01	120285
		.0273	.0088	01/23/01	120394
		.0275	.0080	01/30/01	120619
		.0380	.0082	02/06/01	120711
		.0475	.0093	02/13/01	120822
		.0171	.0089	02/20/01	120928
		.0190	.0063	02/27/01	121101
		.0374	.0102	03/20/01	121432
		.0663	.0115	03/27/01	121590
		.0302	.0089	05/08/01	122409
		.0223	.0098	05/22/01	122650
		.0214	.0103	05/29/01	122768
		.0340	.0096	06/05/01	122888
		.0536	.0117	06/12/01	123001
		.0242	.0091	06/19/01	123152
		.0484	.0125	06/26/01	123268
		.0204	.0099	07/02/01	123395
		.0067	.0053	08/07/01	124046
		.0107	.0068	08/21/01	124289
		.0170	.0060	09/25/01	124907
		.0348	.0120	10/16/01	125270
		.0612	.0122	10/30/01	125587
		.0817	.0146	11/06/01	125734
		.0998	.0186	11/13/01	125831
		.0546	.0172	11/19/01	125938
		.0318	.0092	12/18/01	126412
		.2288	.0524	01/23/01	120394
		.2510	.0468	01/30/01	120619
		.2675	.0511	02/06/01	120711
		.2655	.0598	02/20/01	120928
		.3496	.0618	02/27/01	121101
		.1912	.0497	03/06/01	121194
		.2422	.0678	03/27/01	121590
	.2964	.0730	05/08/01	122409	
	.2584	.0663	05/22/01	122650	
	.1734	.0615	05/29/01	122768	
		K-40			

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3107 PM3 10.4 MILES NNE	GAMMA SCAN (GELI) K-40	.2785	.0856	06/05/01	122888	
		.1917	.0667	06/12/01	123001	
		.0979	.0401	06/26/01	123268	
		.2947	.0622	08/21/01	124289	
		.3136	.0642	10/30/01	125587	
		.3249	.0669	11/13/01	125831	
		.5863	.1814	11/19/01	125938	
		.2481	.0712	12/11/01	126290	
		PB-214	.0166	.0067	01/02/01	120089
			.0523	.0110	01/09/01	120181
			.0444	.0085	01/16/01	120285
			.0312	.0085	01/23/01	120394
			.0189	.0077	01/30/01	120619
			.0543	.0136	02/06/01	120711
			.0519	.0098	02/13/01	120822
	.0564		.0120	02/20/01	120928	
	.0541		.0112	02/27/01	121101	
	.0322		.0110	03/06/01	121194	
	.0383		.0070	03/20/01	121432	
	.0805		.0146	03/27/01	121590	
	.0406		.0082	04/17/01	121936	
	.0536		.0075	05/01/01	122280	
	.0282		.0121	05/08/01	122409	
	.0332		.0091	05/22/01	122650	
	.0339		.0093	05/29/01	122768	
	.0395		.0119	06/05/01	122888	
	.0432		.0095	06/12/01	123001	
	.0639		.0130	06/19/01	123152	
	.0364		.0115	06/26/01	123268	
	.0157		.0085	07/02/01	123395	
	.0343		.0092	07/17/01	123644	
	.0209		.0082	07/24/01	123761	
	.0223		.0096	08/14/01	124183	
	.0348		.0087	09/18/01	124777	
	.0194		.0070	09/25/01	124907	
	.0681		.0108	10/16/01	125270	
	.0256		.0079	10/23/01	125378	
	.0501		.0107	10/30/01	125587	

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 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3107 PM3 10.4 MILES NNE	GAMMA SCAN (GELI) PB-214	.1377	.0208	11/06/01	125734
		.1061	.0242	11/13/01	125831
		.0481	.0172	11/19/01	125938
		.0248	.0113	12/04/01	126197
		.0302	.0086	12/11/01	126290
		.0369	.0084	12/26/01	126570
3108 PM4 7.6 MILES NE/ENE	GAMMA SCAN (GELI) AC-228 BI-214	NO ACTIVITY DETECTED		01/31/01	120622
		NO ACTIVITY DETECTED		03/06/01	121196
		NO ACTIVITY DETECTED		04/25/01	122094
		NO ACTIVITY DETECTED		07/25/01	123763
		NO ACTIVITY DETECTED		07/31/01	123918
		NO ACTIVITY DETECTED		08/08/01	124048
		NO ACTIVITY DETECTED		08/22/01	124291
		NO ACTIVITY DETECTED		09/05/01	124537
		NO ACTIVITY DETECTED		09/12/01	124684
		NO ACTIVITY DETECTED		10/03/01	125015
		NO ACTIVITY DETECTED		10/17/01	125272
		NO ACTIVITY DETECTED		12/26/01	126572
		.0490	.0136	11/20/01	125940
		.0721	.0124	01/03/01	120092
		.1257	.0227	01/09/01	120183
		.0658	.0133	01/17/01	120287
		.0372	.0100	01/23/01	120396
		.0403	.0105	02/06/01	120713
		.0759	.0166	02/13/01	120824
		.0463	.0121	02/20/01	120930
		.0511	.0107	03/13/01	121311
		.0178	.0078	03/20/01	121434
		.0799	.0159	03/28/01	121593
		.0312	.0113	05/23/01	122653
		.0137	.0053	06/06/01	122890
		.0445	.0098	06/20/01	123155
		.0059	.0042	06/27/01	123270
		.0136	.0078	08/15/01	124186
		.0159	.0066	09/19/01	124779
		.0236	.0062	09/26/01	124909

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3108 PM4 7.6 MILES NE/ENE	GAMMA SCAN (GELI) BI-214	.0372	.0110	10/24/01	125380	
		.0752	.0171	10/31/01	125589	
		.0787	.0243	11/07/01	125737	
		.0894	.0127	11/14/01	125833	
		.2053	.0157	11/20/01	125940	
		.0384	.0100	12/05/01	126200	
		.0331	.0112	12/12/01	126292	
		.0343	.0095	12/19/01	126414	
		K-40	.2800	.0495	01/03/01	120092
			.1913	.0732	02/06/01	120713
			.2509	.0567	02/20/01	120930
			.2538	.0426	02/28/01	121104
			.2759	.0494	03/20/01	121434
			.2947	.0540	04/11/01	121832
			.2281	.0503	05/23/01	122653
	.0681		.0220	06/06/01	122890	
	.2171		.0597	06/20/01	123155	
	.2076		.0359	08/15/01	124186	
	.2930		.0488	09/19/01	124779	
	.2057		.0555	11/14/01	125833	
	.6485		.0937	11/20/01	125940	
	.2620		.0505	12/05/01	126200	
	.2886		.0616	12/19/01	126414	
	PB-212 PB-214	.0007	.0045	05/29/01	122770	
		.0985	.0144	01/03/01	120092	
		.2566	.0230	01/09/01	120183	
		.0420	.0142	01/23/01	120396	
		.0321	.0089	02/06/01	120713	
		.0796	.0171	02/13/01	120824	
		.0570	.0135	02/20/01	120930	
		.0627	.0130	03/13/01	121311	
		.0297	.0087	03/20/01	121434	
		.0693	.0140	03/28/01	121593	
		.0325	.0096	04/03/01	121720	
		.0172	.0074	04/11/01	121832	
		.0397	.0112	04/17/01	121938	
		.0328	.0102	05/01/01	122282	
		.0223	.0080	05/09/01	122411	

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 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO			
			TERM	COLLECTED				
3108 PM4 7.6 MILES NE/ENE	GAMMA SCAN (GELI) PB-214	.0613	.0163	05/15/01	122514			
		.0192	.0060	05/23/01	122653			
		.0316	.0119	05/29/01	122770			
		.0217	.0086	06/06/01	122890			
		.0198	.0124	06/12/01	123003			
		.0290	.0092	06/20/01	123155			
		.0203	.0090	06/27/01	123270			
		.0328	.0084	07/03/01	123398			
		.0194	.0081	07/10/01	123510			
		.0097	.0088	07/18/01	123647			
		.0261	.0058	08/15/01	124186			
		.0094	.0063	08/29/01	124426			
		.0126	.0074	09/19/01	124779			
		.0282	.0098	09/26/01	124909			
		.0217	.0089	10/10/01	125163			
		.0528	.0121	10/24/01	125380			
		.0860	.0165	10/31/01	125589			
		.0996	.0129	11/07/01	125737			
		.0871	.0117	11/14/01	125833			
		.1752	.0136	11/20/01	125940			
		.0466	.0091	11/28/01	126068			
		.0402	.0056	12/05/01	126200			
		.0588	.0113	12/12/01	126292			
		.0339	.0082	12/19/01	126414			
		3109 PM5 DECATUR 8.0 MILES S	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED		04/11/01	121834	
				NO ACTIVITY DETECTED		07/03/01	123401	
				NO ACTIVITY DETECTED		07/25/01	123765	
				NO ACTIVITY DETECTED		08/08/01	124050	
				NO ACTIVITY DETECTED		08/15/01	124189	
				NO ACTIVITY DETECTED		08/22/01	124293	
				NO ACTIVITY DETECTED		09/05/01	124539	
				NO ACTIVITY DETECTED		09/19/01	124781	
				AC-228	.0085	.0108	11/20/01	125942
				BI-214	.0777	.0159	01/03/01	120095
	.1001			.0158	01/10/01	120185		
	.0917			.0138	01/17/01	120289		

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 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM COLLECTED	LAB NO		
3109 PMS DECATUR 8.0 MILES S	GAMMA SCAN (GELI) BI-214	.0375	.0089	01/24/01	120398	
		.0589	.0091	01/31/01	120625	
		.0343	.0102	02/07/01	120715	
		.0838	.0184	02/13/01	120826	
		.0329	.0094	02/21/01	120932	
		.0403	.0091	02/28/01	121107	
		.0468	.0125	03/07/01	121198	
		.0649	.0140	03/14/01	121313	
		.1512	.0188	03/28/01	121596	
		.0106	.0084	04/04/01	121722	
		.0793	.0108	04/18/01	121940	
		.0200	.0065	04/25/01	122097	
		.0232	.0087	05/02/01	122284	
		.0372	.0107	05/09/01	122413	
		.0183	.0071	05/16/01	122516	
		.0360	.0095	05/23/01	122656	
		.0268	.0099	05/30/01	122772	
		.0198	.0078	06/06/01	122892	
		.0165	.0106	06/13/01	123005	
		.0246	.0097	06/20/01	123158	
		.0283	.0084	06/27/01	123272	
		.0253	.0075	07/18/01	123650	
		.0273	.0105	09/12/01	124687	
		.0119	.0084	09/26/01	124911	
		.0248	.0095	10/03/01	125017	
		.0306	.0107	10/10/01	125166	
		.0689	.0131	10/17/01	125274	
		.0277	.0112	10/24/01	125382	
		.0419	.0113	10/31/01	125591	
		.0915	.0124	11/07/01	125740	
		.0974	.0114	11/14/01	125835	
		.1928	.0144	11/20/01	125942	
		.0265	.0111	11/28/01	126070	
		.0290	.0071	12/05/01	126203	
		.0300	.0095	12/12/01	126294	
		.0272	.0086	12/19/01	126416	
		.0667	.0117	12/26/01	126574	
		.2290	.0592	01/17/01	120289	
			K-40			

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PC1/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3109 PMS DECATUR 8.0 MILES S	GAMMA SCAN (GELI) K-40	.3062	.0437	01/31/01 120625	
		.2730	.0799	02/07/01 120715	
		.3130	.0494	02/13/01 120826	
		.2091	.0520	02/28/01 121107	
		.2209	.0462	03/07/01 121198	
		.2067	.0562	04/04/01 121722	
		.3035	.0666	04/18/01 121940	
		.2175	.0622	05/30/01 122772	
		.2877	.0568	06/13/01 123005	
		.2595	.0392	06/20/01 123158	
		.2500	.0496	07/18/01 123650	
		.3191	.0758	08/29/01 124428	
		.1836	.0560	09/12/01 124687	
		.1791	.0626	09/26/01 124911	
		.3099	.0709	10/03/01 125017	
		.2750	.0721	10/10/01 125166	
		.2888	.0667	10/24/01 125382	
		.3273	.0970	11/07/01 125740	
		.3504	.0777	11/14/01 125835	
		.6872	.0746	11/20/01 125942	
		.2873	.0587	12/26/01 126574	
		PB-214	.0992	.0183	01/03/01 120095
			.1514	.0153	01/10/01 120185
			.1169	.0136	01/17/01 120289
			.0377	.0072	01/24/01 120398
			.0633	.0117	01/31/01 120625
			.0167	.0085	02/07/01 120715
			.1175	.0156	02/13/01 120826
			.0625	.0129	02/21/01 120932
			.0251	.0074	02/28/01 121107
	.0820		.0139	03/07/01 121198	
	.0670		.0140	03/14/01 121313	
	.0160		.0075	03/21/01 121436	
	.1902		.0180	03/28/01 121596	
	.0087		.0057	04/04/01 121722	
	.0663		.0117	04/18/01 121940	
	.0227	.0080	04/25/01 122097		
	.0309	.0102	05/02/01 122284		

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO		
			TERM	COLLECTED			
3109 PM5 DECATUR 8.0 MILES S	GAMMA SCAN (GELI) PB-214	.0509	.0091	05/09/01	122413		
		.0184	.0058	05/16/01	122516		
		.0546	.0091	05/23/01	122656		
		.0462	.0122	05/30/01	122772		
		.0418	.0083	06/06/01	122892		
		.0123	.0079	06/13/01	123005		
		.0200	.0060	06/20/01	123158		
		.0367	.0090	06/27/01	123272		
		.0174	.0077	07/11/01	123512		
		.0287	.0094	07/18/01	123650		
		.0096	.0080	08/01/01	123920		
		.0171	.0090	08/29/01	124428		
		.0196	.0092	09/12/01	124687		
		.0192	.0091	09/26/01	124911		
		.0245	.0064	10/03/01	125017		
		.0288	.0080	10/10/01	125166		
		.0777	.0130	10/17/01	125274		
		.0292	.0106	10/24/01	125382		
		.0561	.0124	10/31/01	125591		
		.0961	.0101	11/07/01	125740		
		.0985	.0161	11/14/01	125835		
		.1942	.0128	11/20/01	125942		
		.0498	.0085	11/28/01	126070		
		.0407	.0105	12/05/01	126203		
		.0209	.0078	12/12/01	126294		
		.0392	.0107	12/19/01	126416		
		.0760	.0088	12/26/01	126574		
		3203 LM3 1.9 MILES NNE	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED		04/03/01	121735
				NO ACTIVITY DETECTED		04/24/01	122100
				NO ACTIVITY DETECTED		06/12/01	123010
				NO ACTIVITY DETECTED		07/03/01	123404
				NO ACTIVITY DETECTED		07/10/01	123517
				NO ACTIVITY DETECTED		07/25/01	123778
NO ACTIVITY DETECTED				07/31/01	123922		
NO ACTIVITY DETECTED				08/21/01	124308		
NO ACTIVITY DETECTED		09/04/01	124544				

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3203 LM3 1.9 MILES NNE	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	09/11/01	124690	
		NO ACTIVITY DETECTED	10/10/01	125169	
	BI-214	.1881	.0201 01/02/01	120098	
		.1050	.0162 01/09/01	120198	
		.0652	.0141 01/16/01	120291	
		.0335	.0109 01/23/01	120404	
		.0296	.0109 02/06/01	120729	
		.0209	.0080 02/14/01	120828	
		.0945	.0174 02/20/01	120938	
		.0827	.0132 02/27/01	121110	
		.0389	.0123 03/06/01	121212	
		.0540	.0113 03/13/01	121315	
		.0426	.0100 03/20/01	121442	
		.1013	.0148 03/27/01	121599	
		.0203	.0100 04/10/01	121836	
		.0424	.0124 05/01/01	122307	
		.0551	.0117 05/08/01	122415	
		.0368	.0082 05/15/01	122522	
		.0532	.0108 05/22/01	122659	
		.0589	.0095 06/05/01	122894	
		.0315	.0100 06/19/01	123161	
		.0290	.0091 06/26/01	123285	
		.0533	.0133 07/17/01	123653	
		.0008	.0060 08/14/01	124192	
		.0050	.0066 09/25/01	124913	
		.0166	.0061 10/02/01	125022	
		.0467	.0104 10/16/01	125287	
		.0575	.0098 10/30/01	125606	
		.0984	.0186 11/06/01	125743	
		.0486	.0175 11/14/01	125848	
		.4156	.0258 11/19/01	125944	
		.0411	.0092 11/27/01	126075	
		.0374	.0094 12/04/01	126206	
		.0318	.0103 12/11/01	126309	
		.0184	.0062 12/26/01	126579	
		K-40	.3236	.0781 01/16/01	120291
			.2202	.0486 01/23/01	120404
			.3180	.0502 02/06/01	120729

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3203 LM3 1.9 MILES NNE	GAMMA SCAN (GELI) K-40	.1465	.0451	03/13/01	121315
		.2064	.0561	05/01/01	122307
		.2403	.0497	05/22/01	122659
		.3674	.0743	06/05/01	122894
		.2498	.0468	06/19/01	123161
		.4652	.0633	11/06/01	125743
		.3444	.0737	11/14/01	125848
		.9041	.1020	11/19/01	125944
		.1804	.0355	11/27/01	126075
		PB-214	.1559	.0181	01/02/01	120098
	.1629		.0170	01/09/01	120198
	.1082		.0170	01/16/01	120291
	.0459		.0136	01/23/01	120404
	.0360		.0110	01/30/01	120628
	.0403		.0067	02/06/01	120729
	.0458		.0114	02/14/01	120828
	.1564		.0256	02/20/01	120938
	.0813		.0133	02/27/01	121110
	.0626		.0127	03/06/01	121212
	.0408		.0078	03/13/01	121315
	.0785		.0107	03/20/01	121442
	.1538		.0149	03/27/01	121599
	.0494		.0114	04/10/01	121836
	.0320		.0100	04/17/01	121946
	.0521		.0105	05/01/01	122307
	.0531		.0113	05/08/01	122415
	.0516		.0108	05/15/01	122522
	.0865		.0166	05/22/01	122659
	.0311		.0083	05/29/01	122787
	.0623		.0115	06/05/01	122894
	.0547		.0077	06/19/01	123161
	.0511		.0101	06/26/01	123285
	.0366		.0084	07/17/01	123653
	.0181		.0075	08/07/01	124056
	.0203		.0071	08/14/01	124192
	.0145		.0053	08/28/01	124430
	.0119		.0075	09/18/01	124794
	.0591		.0109	10/16/01	125287

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PC1/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO		
			TERM	COLLECTED			
3203 LM3 1.9 MILES NNE	GAMMA SCAN (GEL1) PB-214	.0356	.0095	10/23/01	125384		
		.0819	.0144	10/30/01	125606		
		.0922	.0125	11/06/01	125743		
		.0466	.0140	11/14/01	125848		
		.4047	.0198	11/19/01	125944		
		.0543	.0106	11/27/01	126075		
		.0370	.0107	12/04/01	126206		
		.0310	.0096	12/11/01	126309		
		.0354	.0096	12/18/01	126418		
		.0316	.0072	12/26/01	126579		
		3204 LM-4 WB 0.9 MILES SE	GAMMA SCAN (GEL1) BI-214	NO ACTIVITY DETECTED		02/06/01	120731
				NO ACTIVITY DETECTED		06/05/01	122896
				NO ACTIVITY DETECTED		06/12/01	123012
				NO ACTIVITY DETECTED		07/18/01	123656
NO ACTIVITY DETECTED				07/25/01	123780		
NO ACTIVITY DETECTED				07/31/01	123924		
NO ACTIVITY DETECTED				08/07/01	124058		
NO ACTIVITY DETECTED				08/15/01	124195		
NO ACTIVITY DETECTED				09/12/01	124693		
NO ACTIVITY DETECTED				09/26/01	124915		
NO ACTIVITY DETECTED				10/02/01	125024		
.0619	.0150			01/03/01	120101		
.1101	.0176			01/09/01	120200		
.0541	.0124			01/16/01	120293		
.0378	.0097			01/23/01	120406		
.0199	.0079			01/30/01	120631		
.0515	.0156			02/20/01	120940		
.0233	.0090			02/27/01	121113		
.0442	.0102			03/13/01	121317		
.0570	.0141			03/28/01	121602		
.0261	.0062			04/25/01	122103		
.0284	.0104			05/01/01	122309		
.0208	.0068			05/29/01	122789		
.0494	.0171			06/20/01	123164		
.0154	.0073			06/26/01	123287		
.0157	.0116			07/03/01	123408		

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
3204 LM-4 WB 0.9 MILES SE	GAMMA SCAN (GELI) BI-214	.0184	.0070	07/10/01	123519	
		.0013	.0049	08/21/01	124310	
		.0138	.0073	10/10/01	125172	
		.0755	.0138	10/16/01	125289	
		.0525	.0134	10/30/01	125608	
		.0396	.0080	11/07/01	125746	
		.0699	.0175	11/14/01	125850	
		.2250	.0168	11/20/01	125946	
		.0748	.0161	11/27/01	126077	
		.0141	.0084	12/05/01	126209	
		.0308	.0103	12/11/01	126311	
		.0558	.0162	12/19/01	126420	
		.0191	.0060	12/26/01	126581	
		K-40	.3178	.0559	01/09/01	120200
			.1678	.0497	01/16/01	120293
	.2293		.0416	01/30/01	120631	
	.2865		.0678	02/20/01	120940	
	.1931		.0452	02/27/01	121113	
	.2009		.0434	05/01/01	122309	
	.1955		.0480	06/20/01	123164	
	.3035		.0584	06/26/01	123287	
	.2335		.0665	07/03/01	123408	
	.2047		.0442	09/04/01	124546	
	.2600		.0537	09/18/01	124796	
	.3626		.0562	10/30/01	125608	
	.5143		.0606	11/20/01	125946	
	.2805		.0517	12/11/01	126311	
	.2334		.0511	12/26/01	126581	
	PB-214	.0368	.0115	01/03/01	120101	
		.1268	.0187	01/09/01	120200	
		.0700	.0123	01/16/01	120293	
		.0371	.0084	01/23/01	120406	
		.0192	.0046	01/30/01	120631	
		.0792	.0144	02/20/01	120940	
		.0329	.0077	02/27/01	121113	
		.0127	.0056	03/06/01	121214	
		.0641	.0103	03/13/01	121317	
		.0261	.0071	03/20/01	121444	

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO		
			TERM	COLLECTED			
3204 LM-4 WB 0.9 MILES SE	GAMMA SCAN (GELI) PB-214	.0722	.0107	03/28/01	121602		
		.0201	.0099	04/03/01	121737		
		.0316	.0090	04/11/01	121838		
		.0183	.0080	04/17/01	121948		
		.0265	.0098	04/25/01	122103		
		.0193	.0103	05/01/01	122309		
		.0239	.0106	05/08/01	122417		
		.0079	.0039	05/15/01	122524		
		.0196	.0060	05/23/01	122662		
		.0349	.0067	05/29/01	122789		
		.0668	.0084	06/20/01	123164		
		.0219	.0106	06/26/01	123287		
		.0065	.0082	07/03/01	123408		
		.0416	.0161	07/10/01	123519		
		.0036	.0056	08/21/01	124310		
		.0279	.0070	08/28/01	124432		
		.0149	.0068	09/18/01	124796		
		.0214	.0075	10/10/01	125172		
		.1023	.0170	10/16/01	125289		
		.0305	.0120	10/23/01	125386		
		.0541	.0111	10/30/01	125608		
		.0539	.0107	11/07/01	125746		
		.0511	.0115	11/14/01	125850		
		.2175	.0116	11/20/01	125946		
		.0674	.0130	11/27/01	126077		
		.0241	.0080	12/05/01	126209		
		.0483	.0069	12/11/01	126311		
		.0508	.0100	12/19/01	126420		
		.0269	.0075	12/26/01	126581		
		3205 RM-3 WB 15 MILES NNW	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED		01/30/01	120634
				NO ACTIVITY DETECTED		03/06/01	121216
				NO ACTIVITY DETECTED		05/15/01	122526
				NO ACTIVITY DETECTED		05/22/01	122665
				NO ACTIVITY DETECTED		06/05/01	122898
				NO ACTIVITY DETECTED		07/31/01	123926
				NO ACTIVITY DETECTED		08/14/01	124198

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3205 RM-3 WB 15 MILES NNW	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	08/21/01	124312	
		NO ACTIVITY DETECTED	09/04/01	124548	
		NO ACTIVITY DETECTED	10/09/01	125175	
		NO ACTIVITY DETECTED	10/23/01	125388	
		NO ACTIVITY DETECTED	11/06/01	125749	
	AC-228	.0582	.0176	06/26/01	123289
		.0084	.0083	11/19/01	125948
	BI-214	.0850	.0175	01/09/01	120202
		.0371	.0084	01/16/01	120295
		.0300	.0091	01/23/01	120408
		.0685	.0127	02/06/01	120733
		.0283	.0085	02/13/01	120832
		.0315	.0123	02/20/01	120942
		.0249	.0096	02/27/01	121116
		.0922	.0158	03/13/01	121319
		.0296	.0095	03/27/01	121605
		.0245	.0085	04/17/01	121950
		.0150	.0068	04/24/01	122106
		.0284	.0106	05/08/01	122419
		.0277	.0081	06/12/01	123014
		.1018	.0176	06/26/01	123289
		.0149	.0077	07/02/01	123411
		.0307	.0083	07/10/01	123521
		.0273	.0062	07/17/01	123659
		.0156	.0072	09/25/01	124917
		.0101	.0075	10/02/01	125026
		.0357	.0086	10/16/01	125291
		.0463	.0113	10/30/01	125610
		.0235	.0099	11/13/01	125852
		.1969	.0154	11/19/01	125948
		.0265	.0078	11/27/01	126079
		.0942	.0180	12/18/01	126422
		.0331	.0061	12/26/01	126583
	K-40	.2270	.0732	01/09/01	120202
		.2903	.0593	01/16/01	120295
		.2406	.0420	02/06/01	120733
		.3727	.0739	02/27/01	121116
		.2757	.0580	04/17/01	121950

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 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3205 RM-3 WB 15 MILES NNW	GAMMA SCAN (GELI) K-40	.2563	.0645	05/29/01	122791	
		.2620	.0582	06/12/01	123014	
		1.1524	.1461	06/26/01	123289	
		.3489	.0450	07/02/01	123411	
		.1534	.0631	07/17/01	123659	
		.2845	.0683	10/16/01	125291	
		.1930	.0494	10/30/01	125610	
		.2797	.0722	11/13/01	125852	
		.5233	.0563	11/19/01	125948	
		.1153	.0404	11/27/01	126079	
		.1626	.0443	12/26/01	126583	
		PB-212 PB-214	.0229	.0081	06/26/01	123289
			.0479	.0090	01/02/01	120104
			.1098	.0134	01/09/01	120202
			.0155	.0068	01/16/01	120295
	.0469		.0133	01/23/01	120408	
	.0735		.0129	02/06/01	120733	
	.0524		.0090	02/13/01	120832	
	.0396		.0075	02/20/01	120942	
	.0343		.0103	02/27/01	121116	
	.1037		.0190	03/13/01	121319	
		.0252	.0090	03/20/01	121446	
		.0637	.0136	03/27/01	121605	
		.0214	.0090	04/03/01	121739	
		.0200	.0073	04/10/01	121840	
		.0269	.0110	04/17/01	121950	
		.0198	.0096	05/01/01	122311	
		.0462	.0100	05/08/01	122419	
		.0278	.0132	05/29/01	122791	
		.0366	.0130	06/12/01	123014	
		.0284	.0134	06/19/01	123167	
		.0846	.0152	06/26/01	123289	
		.0363	.0067	07/10/01	123521	
		.0337	.0088	07/17/01	123659	
		.0165	.0055	07/24/01	123782	
		.0104	.0068	08/07/01	124060	
	.0244	.0067	08/28/01	124434		
	.0084	.0056	09/11/01	124696		

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED	LAB NO	
3205 RM-3 WB 15 MILES NNW	GAMMA SCAN (GELI) PB-214	.0151	.0103	09/18/01	124798	
		.0266	.0072	09/25/01	124917	
		.0130	.0083	10/02/01	125026	
		.0541	.0109	10/16/01	125291	
		.0618	.0099	10/30/01	125610	
		.0404	.0126	11/13/01	125852	
		.1962	.0149	11/19/01	125948	
		.0378	.0125	11/27/01	126079	
		.0359	.0085	12/04/01	126212	
		.0176	.0074	12/11/01	126313	
		.1096	.0120	12/18/01	126422	
		.0422	.0098	12/26/01	126583	
		TL-208	.0169	.0050	06/26/01	123289

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN MILK
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO		
			TERM	COLLECTED			
2202 BILDERBACK FARM 15.0 MILES E	IODINE-131	- .0217	.0652	01/10/01	120152		
		.0001	.0685	01/24/01	120365		
		.0206	.0685	02/07/01	120683		
		-.0223	.0670	02/21/01	120899		
		.0001	.0639	03/06/01	121166		
		.0427	.0740	03/20/01	121402		
		.0428	.0743	04/03/01	121690		
		.0195	.0646	04/18/01	121909		
		-.0429	.0609	05/02/01	122238		
		-.0406	.0575	05/16/01	122485		
		.0436	.0757	05/30/01	122740		
		.0617	.0745	06/13/01	122972		
		.0284	.0942	06/26/01	123239		
		.0424	.0736	07/11/01	123481		
		-.0428	.0606	07/25/01	123732		
		.0729	.0879	08/08/01	124019		
		.0683	.0823	08/22/01	124260		
		.0001	.0701	09/05/01	124506		
		.0001	.0644	09/19/01	124748		
		.0001	.0693	10/03/01	124986		
		.0620	.0748	10/17/01	125241		
		.0429	.0744	10/31/01	125553		
		.0001	.0624	11/14/01	125802		
		.0635	.0766	11/28/01	126038		
		.0697	.0841	12/12/01	126261		
		.0623	.1080	12/26/01	126541		
			GAMMA SCAN (GEL)				
			AC-228	4.2685	4.5487	02/07/01	120683
				6.5843	5.8527	03/20/01	121402
				10.1472	4.9589	04/03/01	121690
				3.5043	3.8657	04/18/01	121909
				4.6107	4.4694	05/02/01	122238
				3.4415	4.1385	05/30/01	122740
				2.2946	3.9952	08/22/01	124260
				2.0068	3.6513	11/28/01	126038
				4.0096	4.2940	12/26/01	126541
	BI-214	17.7524	4.6708	01/10/01	120152		

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN MILK
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
2202 BILDERBACK FARM 15.0 MILES E	GAMMA SCAN (GELI) BI-214	17.3759	4.1702	01/24/01	120365	
		15.1548	3.5136	02/07/01	120683	
		23.1552	4.1495	02/21/01	120899	
		20.3221	4.1271	03/06/01	121166	
		11.9078	4.2458	03/20/01	121402	
		4.5561	3.0139	04/03/01	121690	
		19.8709	4.0507	04/18/01	121909	
		15.9951	3.6886	05/02/01	122238	
		9.4133	3.0371	05/16/01	122485	
		11.6307	3.8560	05/30/01	122740	
		5.0307	3.0925	06/13/01	122972	
		8.3479	3.7673	06/26/01	123239	
		.5011	2.8679	07/25/01	123732	
		3.4532	3.3950	08/08/01	124019	
		3.1468	2.6810	08/22/01	124260	
		6.2198	3.4041	09/05/01	124506	
		9.6958	3.5140	10/17/01	125241	
		21.2678	4.0219	10/31/01	125553	
		15.3137	2.7728	11/14/01	125802	
		7.6110	3.1408	11/28/01	126038	
		10.2721	3.0306	12/12/01	126261	
		31.0536	5.5548	12/26/01	126541	
		K-40	1319.5979	104.8246	01/10/01	120152
			1263.2650	93.1312	01/24/01	120365
			1348.6873	100.8597	02/07/01	120683
			1378.6595	92.7869	02/21/01	120899
			1272.0900	83.4211	03/06/01	121166
			1366.9030	87.9966	03/20/01	121402
			1343.6178	105.3210	04/03/01	121690
			1327.9548	95.7567	04/18/01	121909
			1318.8655	616.5183	05/02/01	122238
			1200.7103	82.7482	05/16/01	122485
			1279.5054	92.8688	05/30/01	122740
	1348.4189		103.1065	06/13/01	122972	
	1310.2064	88.3073	06/26/01	123239		
	1383.5172	100.5035	07/11/01	123481		
	1318.9323	111.6464	07/25/01	123732		
	1391.5587	97.9033	08/08/01	124019		

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN MILK
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
2202 BILDERBACK FARM 15.0 MILES E	GAMMA SCAN (GELI) K-40	1372.4677	93.1156	08/22/01	124260	
		1272.0646	91.8587	09/05/01	124506	
		1317.2131	100.0226	09/19/01	124748	
		1351.4681	98.9340	10/03/01	124986	
		1379.9608	90.8716	10/17/01	125241	
		1409.8927	102.5836	10/31/01	125553	
		1341.1613	94.3787	11/14/01	125802	
		1335.9406	101.4817	11/28/01	126038	
		1378.6637	95.8563	12/12/01	126261	
		1313.7318	106.2797	12/26/01	126541	
		PB-212	.7352	1.7503	01/10/01	120152
			1.5137	2.1532	01/24/01	120365
			.3507	2.1107	02/21/01	120899
			2.9817	2.4213	04/03/01	121690
			1.1973	1.9372	04/18/01	121909
	.2460		2.2618	05/02/01	122238	
	1.1930		2.0842	05/16/01	122485	
	3.2477		2.9980	06/13/01	122972	
	2.1438		2.1097	06/26/01	123239	
	.4527		2.8462	08/08/01	124019	
	1.5448		2.1443	08/22/01	124260	
	.9954		2.0382	10/03/01	124986	
	2.1178		2.2608	12/12/01	126261	
	.1258		2.5395	12/26/01	126541	
	PB-214		8.4408	2.8555	01/10/01	120152
		7.8870	3.0486	01/24/01	120365	
		9.3609	3.3440	02/07/01	120683	
		12.6676	2.9816	02/21/01	120899	
		10.1390	1.9241	03/06/01	121166	
		9.8616	3.8252	03/20/01	121402	
		18.3873	5.0270	04/18/01	121909	
		11.9888	2.7810	05/02/01	122238	
		1.0150	2.7345	05/16/01	122485	
		7.3881	3.8136	05/30/01	122740	
		2.9066	2.3834	06/13/01	122972	
		4.4747	2.8271	06/26/01	123239	
		5.8131	3.2918	07/11/01	123481	
		3.2416	3.1398	08/08/01	124019	

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN MILK
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED	LAB NO	
2202 BILDERBACK FARM 15.0 MILES E	GAMMA SCAN (GELI) PB-214	5.0187	2.7743	08/22/01	124260	
		4.1651	4.8298	09/05/01	124506	
		6.3228	3.8505	10/17/01	125241	
		12.4175	3.2135	10/31/01	125553	
		9.1153	3.3118	11/14/01	125802	
		6.7237	4.3698	11/28/01	126038	
		12.2754	3.2484	12/12/01	126261	
		24.3163	4.5639	12/26/01	126541	
		TL-208	1.6446	1.1155	01/24/01	120365
			1.4777	1.0460	03/20/01	121402
			.6935	1.0684	05/30/01	122740
			.5247	1.1492	06/13/01	122972
	.6878		1.1973	06/26/01	123239	
	.4307		1.0805	07/11/01	123481	
	.6126		1.0084	08/08/01	124019	
	.6942		1.3677	08/22/01	124260	
	.6725		1.4043	10/31/01	125553	
	.8802		1.1735	11/28/01	126038	
	1.6136		1.6792	12/12/01	126261	
	SR 89		.2425	.8744	03/20/01	121402
		.6894	.9794	05/30/01	122740	
		.2952	1.1120	08/22/01	124260	
		.4944	.8477	12/12/01	126261	
	SR 90	.8171	.5861	03/20/01	121402	
		.1969	.6360	05/30/01	122740	
		.7794	.7154	08/22/01	124260	
		.4518	.5540	12/12/01	126261	
	2263 E. HOUSLEY FARM 24.0 MILES SSW	IODINE-131	.0316	.0527	01/10/01	120172
			.0573	.0541	01/24/01	120385
			.0413	.0585	02/07/01	120702
			.0546	.0515	02/21/01	120919
			.0428	.0715	03/07/01	121185

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN MILK
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED	LAB NO		
2263 E. HOUSLEY FARM 24.0 MILES SSW	IODINE-131	.0444	.0771	03/21/01	121423		
		.0633	.0763	04/04/01	121709		
		.0553	.0522	04/18/01	121927		
		.0241	.0800	05/02/01	122265		
		.0113	.0422	05/16/01	122503		
		.0331	.0470	05/30/01	122759		
		.0555	.0524	06/13/01	122992		
		.0072	.0460	06/27/01	123259		
		-.0230	.0692	07/11/01	123499		
		.0710	.0857	07/25/01	123751		
		.0114	.0426	08/08/01	124037		
		-.0166	.0391	08/22/01	124280		
		-.0217	.0653	09/05/01	124526		
		.0115	.0429	09/19/01	124768		
		-.0174	.0409	10/03/01	125004		
		.0121	.0454	10/17/01	125261		
		.0660	.0622	10/30/01	125578		
		.0513	.0535	11/14/01	125822		
		.0124	.0464	11/27/01	126056		
		.0415	.0588	12/11/01	126281		
		.0380	.0635	12/27/01	126561		
			GAMMA SCAN (GELI)				
			AC-228	8.6031	3.0154	01/24/01	120385
				7.5539	3.6809	12/11/01	126281
			BI-214	8.8012	3.6528	01/10/01	120172
				17.6288	3.6575	01/24/01	120385
				8.7932	4.6482	02/07/01	120702
				28.1656	4.5283	02/21/01	120919
				9.9629	4.1547	03/07/01	121185
				3.6145	2.8160	03/21/01	121423
				11.3739	3.7474	04/18/01	121927
				8.4877	2.6355	05/02/01	122265
				6.9411	3.5628	05/16/01	122503
		2.6943	2.0488	05/30/01	122759		
		.1312	3.2320	07/11/01	123499		
		2.4344	2.3649	07/25/01	123751		
		1.8255	2.1634	08/08/01	124037		

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN MILK
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
2263 E. HOUSLEY FARM 24.0 MILES SSW	GAMMA SCAN (GELI) BI-214	.4255	3.0983	08/22/01	124280	
		12.6517	9.5070	09/05/01	124526	
		.8472	2.8797	09/19/01	124768	
		9.1703	2.3646	10/17/01	125261	
		14.4448	3.5256	10/30/01	125578	
		13.0768	2.9138	11/14/01	125822	
		2.1647	2.4762	11/27/01	126056	
		2.4337	2.3666	12/11/01	126281	
		20.9511	3.8187	12/27/01	126561	
		K-40	1481.6359	88.2045	01/10/01	120172
			1297.9360	105.7237	01/24/01	120385
			1397.1066	105.6975	02/07/01	120702
			1217.5604	79.8085	02/21/01	120919
			1464.3187	88.0258	03/07/01	121185
			1372.9386	93.5449	03/21/01	121423
	1466.0035		95.5331	04/04/01	121709	
	1609.3407		104.0272	04/18/01	121927	
	1363.6823		237.9725	05/02/01	122265	
	1330.0903		96.0787	05/16/01	122503	
	1374.7175		92.1943	05/30/01	122759	
	1447.6320		108.7609	06/13/01	122992	
	1381.5074		92.8680	06/27/01	123259	
	1213.9948		96.5010	07/11/01	123499	
	1270.8199		89.0887	07/25/01	123751	
	1157.6763	79.0127	08/08/01	124037		
	1340.3779	84.9504	08/22/01	124280		
	1262.5120	85.9224	09/05/01	124526		
	1355.0237	93.2720	09/19/01	124768		
	1435.1082	92.1411	10/03/01	125004		
	1252.1869	92.0324	10/17/01	125261		
	1286.7495	91.4755	10/30/01	125578		
	1470.6729	87.1134	11/14/01	125822		
	1444.8856	90.4644	11/27/01	126056		
	1409.8921	93.4939	12/11/01	126281		
	1362.2083	85.1501	12/27/01	126561		
	PB-212	.6690	1.8186	02/07/01	120702	
		1.5609	1.4177	05/02/01	122265	
		1.0430	1.4760	12/27/01	126561	

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN MILK
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED	LAB NO		
2263 E. HOUSLEY FARM 24.0 MILES SSW	GAMMA SCAN (GELI) PB-214	5.6844	3.4631	01/10/01	120172		
		6.7653	3.3169	01/24/01	120385		
		2.1327	4.0967	02/07/01	120702		
		19.6070	3.3372	02/21/01	120919		
		5.7010	3.1489	03/07/01	121185		
		8.5577	3.8375	05/02/01	122265		
		.7864	3.2950	05/16/01	122503		
		.0942	3.4151	05/30/01	122759		
		2.5797	2.7211	07/11/01	123499		
		.7651	2.6225	07/25/01	123751		
		11.4690	3.0144	09/05/01	124526		
		1.3155	2.5927	09/19/01	124768		
		8.4997	2.9189	10/17/01	125261		
		13.1445	3.4825	10/30/01	125578		
		14.1249	4.1776	11/14/01	125822		
		.8454	2.8849	11/27/01	126056		
		6.1899	3.1792	12/11/01	126281		
		20.3070	4.0791	12/27/01	126561		
		2.7597	1.1901	11/27/01	126056		
		SR 89					
				-.4329	.8755	03/21/01	121423
				-.7612	.7990	05/30/01	122759
				-.5051	1.1089	08/22/01	124280
				.9372	1.0699	12/11/01	126281
		SR 90					
				1.1469	.6012	03/21/01	121423
				.9860	.5332	05/30/01	122759
				.6180	.7213	08/22/01	124280
				.6982	.6917	12/11/01	126281
		3115 LAYMAN FARM 1.3 MILES SSW	IODINE-131	.0001	.0686	01/09/01	120186
				.0392	.0556	01/23/01	120399
				-.0126	.0398	02/06/01	120716
.0648	.0675			02/20/01	120933		
-.0168	.0395			03/06/01	121200		

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN MILK
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO		
			TERM	COLLECTED			
3115 LAYMAN FARM 1.3 MILES SSW	IODINE-131	.0341	.0484	03/20/01	121437		
		.0350	.0496	04/03/01	121723		
		-.0428	.0607	04/17/01	121941		
		.0476	.0825	05/01/01	122285		
		.0225	.0746	05/15/01	122517		
		.0719	.0867	05/29/01	122775		
		.0224	.0744	06/12/01	123006		
		-.0126	.0398	06/26/01	123273		
		.0662	.0625	07/10/01	123513		
		.0346	.0579	07/24/01	123766		
		.0705	.0850	08/07/01	124051		
		.0689	.0831	08/21/01	124296		
		.0599	.0624	09/04/01	124540		
		.0320	.0535	09/18/01	124782		
		-.0222	.0666	10/02/01	125018		
		.0574	.0599	10/16/01	125275		
		.0582	.0549	10/30/01	125592		
		.0454	.0788	11/13/01	125836		
		.0462	.0801	11/27/01	126071		
		.0356	.0594	12/11/01	126297		
		-.0514	.0729	12/26/01	126575		
			GAMMA SCAN (GELI)				
			AC-228	7.4444	5.0417	08/07/01	124051
			BI-214	21.7796	3.5834	01/09/01	120186
				177.3145	12.4384	01/23/01	120399
				4.7032	2.5503	02/06/01	120716
				17.1740	4.4124	02/20/01	120933
				16.8174	3.2657	03/06/01	121200
				13.9938	3.0404	03/20/01	121437
				4.9508	2.2279	04/03/01	121723
				9.8823	3.9816	04/17/01	121941
				6.6243	4.0308	05/01/01	122285
				11.2413	2.9083	05/15/01	122517
		14.1516	3.3521	05/29/01	122775		
		8.6169	2.5183	06/26/01	123273		
		.1347	2.1903	08/07/01	124051		
		2.8361	2.4908	09/04/01	124540		

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 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED	LAB NO	
3115 LAYMAN FARM 1.3 MILES SSW	GAMMA SCAN (GELI) BI-214	6.4828	3.7128	10/02/01	125018	
		12.9210	3.8924	10/16/01	125275	
		1.4471	2.0163	10/30/01	125592	
		3.5226	2.8683	11/13/01	125836	
		6.5314	2.6420	11/27/01	126071	
		3.0408	2.7723	12/11/01	126297	
		6.3870	3.2062	12/26/01	126575	
		CS-137 K-40	2.2050	.8338	10/02/01	125018
			1368.7062	89.9704	01/09/01	120186
			821.1700	61.1123	01/23/01	120399
			1389.6566	83.2551	02/06/01	120716
			1450.4973	91.2642	02/20/01	120933
			1359.6700	91.8642	03/06/01	121200
			1387.2471	97.5292	03/20/01	121437
			1369.8947	94.2568	04/03/01	121723
	1411.6317		96.7343	04/17/01	121941	
	1451.1511		100.3696	05/01/01	122285	
	1419.1700		91.8538	05/15/01	122517	
	1221.5002		81.4847	05/29/01	122775	
	1521.9496		93.7819	06/12/01	123006	
	1328.4386		83.9088	06/26/01	123273	
	1283.0507		83.0699	07/10/01	123513	
	1343.2957	80.8385	07/24/01	123766		
	1453.2776	92.0320	08/07/01	124051		
	1164.6343	88.3294	08/21/01	124296		
	1590.6738	166.6519	09/04/01	124540		
	1680.1584	113.5833	09/18/01	124782		
	1501.9982	95.0972	10/02/01	125018		
	1390.6055	95.6874	10/16/01	125275		
	1480.4341	84.8660	10/30/01	125592		
	1150.1270	82.9250	11/13/01	125836		
	1477.1759	103.5544	11/27/01	126071		
	1331.8416	80.8567	12/11/01	126297		
	1348.6410	83.9194	12/26/01	126575		
	PB-212	1.0993	1.7761	01/23/01	120399	
		1.4564	2.5417	03/20/01	121437	
		1.6537	2.9941	04/03/01	121723	
		1.0718	1.3380	06/26/01	123273	

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO		
			TERM	COLLECTED			
3115 LAYMAN FARM 1.3 MILES SSW	GAMMA SCAN (GELI) PB-214	18.0552	3.5839	01/09/01	120186		
		166.3592	11.7258	01/23/01	120399		
		17.7796	3.4815	02/20/01	120933		
		14.6368	3.3041	03/06/01	121200		
		9.6498	3.1751	03/20/01	121437		
		14.2666	3.6880	04/17/01	121941		
		8.2825	3.6560	05/01/01	122285		
		18.3211	3.9406	05/15/01	122517		
		9.4781	4.2481	05/29/01	122775		
		8.1875	2.9454	06/26/01	123273		
		4.7121	3.1009	07/10/01	123513		
		1.1037	2.9781	08/07/01	124051		
		9.3518	3.6338	09/18/01	124782		
		.8513	1.9006	10/02/01	125018		
		13.6556	3.9159	10/16/01	125275		
		3.3904	2.3353	11/13/01	125836		
		1.9056	3.4825	11/27/01	126071		
		1.9251	3.1316	12/11/01	126297		
		11.0491	3.7295	12/26/01	126575		
			2.1440	1.3370	10/16/01	125275	
			TL-208				
			SR 89	.7243	1.0352	03/20/01	121437
				.9963	.9604	05/29/01	122775
				-1.2265	.7752	08/21/01	124296
				.3331	.9016	12/11/01	126297
			SR 90	.7608	.6855	03/20/01	121437
				.1255	.6085	05/29/01	122775
				.9970	.5207	08/21/01	124296
				.7121	.5911	12/11/01	126297
		3116 MULLINS FARM 3.7 M. ESE	IODINE-131	-.0108	.0341	01/10/01	120188
				.0230	.0763	01/24/01	120401
				.0314	.0524	02/07/01	120719
				.0505	.0877	02/21/01	120935

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 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED	LAB NO		
3116 MULLINS FARM 3.7 M. ESE	IODINE-131	.0001	.0638	03/07/01	121202		
		.0084	.0538	03/21/01	121439		
		.0318	.0451	04/04/01	121725		
		-.0114	.0360	04/18/01	121942		
		.0365	.0517	05/02/01	122287		
		.0001	.0669	05/16/01	122519		
		.0468	.0811	05/30/01	122777		
		.0091	.0582	06/13/01	123007		
		.0001	.0721	06/27/01	123275		
		.0310	.0518	07/11/01	123514		
		.0129	.0483	07/25/01	123768		
		.0472	.0818	08/08/01	124052		
		.0623	.0588	08/22/01	124298		
		-.0483	.0685	09/05/01	124541		
		.0219	.0726	09/19/01	124784		
		.0338	.0479	10/03/01	125019		
		.0597	.0563	10/17/01	125277		
		.0540	.0563	10/31/01	125593		
		.0114	.0426	11/14/01	125838		
		.0567	.0535	11/28/01	126072		
		.0243	.0808	12/12/01	126299		
		-.0156	.0495	12/26/01	126576		
		GAMMA SCAN (GELI)					
		AC-228		5.8536	5.8950	05/30/01	122777
				3.1389	3.5902	06/27/01	123275
				5.0754	3.7305	07/11/01	123514
				3.5331	3.2177	12/26/01	126576
		BI-214		16.2768	3.7563	01/10/01	120188
				14.4453	3.5475	01/24/01	120401
				2.8029	2.7916	02/07/01	120719
				1.5119	2.6453	02/21/01	120935
				15.1112	4.7516	03/07/01	121202
				4.9088	2.8713	03/21/01	121439
		9.6252	3.9214	04/18/01	121942		
		4.3953	2.8099	05/16/01	122519		
		6.5642	3.0803	05/30/01	122777		
		6.5996	3.5093	06/13/01	123007		

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3116 MULLINS FARM 3.7 M. ESE	GAMMA SCAN (GELI) BI-214	3.0592	3.5027	06/27/01	123275
		2.0917	2.7594	07/11/01	123514
		2.7045	2.5760	09/19/01	124784
		.5593	1.9610	10/03/01	125019
		6.1004	3.1454	10/31/01	125593
		4.4761	2.4993	11/14/01	125838
		3.4026	2.7566	11/28/01	126072
		.8693	2.3137	12/12/01	126299
		7.4866	3.1912	12/26/01	126576
		K-40	1438.4263	87.4202	01/10/01	120188
	1313.0665		81.6296	01/24/01	120401
	1382.4991		82.6787	02/07/01	120719
	1390.8141		124.8594	02/21/01	120935
	1472.4810		88.1313	03/07/01	121202
	1284.8936		76.0927	03/21/01	121439
	1421.5876		92.5197	04/04/01	121725
	1336.2300		90.4344	04/18/01	121942
	1286.1497		85.0581	05/02/01	122287
	1331.0179		267.2675	05/16/01	122519
	1397.0385		88.7097	05/30/01	122777
	1350.4796		86.4900	06/13/01	123007
	1447.5291		100.7866	06/27/01	123275
	1352.9500		96.8916	07/11/01	123514
	1337.6868		95.1510	07/25/01	123768
	1354.6846		95.4598	08/08/01	124052
	1314.9531		83.0631	08/22/01	124298
	1398.7075		88.8966	09/05/01	124541
	1376.4769		87.3575	09/19/01	124784
	1384.6243		109.8539	10/03/01	125019
	1343.4020		112.5429	10/17/01	125277
	1309.4064		86.9947	10/31/01	125593
	1386.5675		93.5452	11/14/01	125838
	1410.0103		101.1756	11/28/01	126072
	1398.9980		105.9764	12/12/01	126299
	1375.8508	82.3315	12/26/01	126576	
	PB-212	.4237	2.1059	01/24/01	120401
		2.6204	1.4234	05/02/01	122287
		.5644	1.4666	05/16/01	122519

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 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3116 MULLINS FARM 3.7 M. ESE	GAMMA SCAN (GELI) PB-212	1.8204	2.7616	07/25/01	123768
		.9240	1.3740	08/22/01	124298
	8.1455	3.0956	10/17/01	125277	
	1.4278	1.8049	11/28/01	126072	
	5.4010	2.5184	12/12/01	126299	
	1.6505	1.9834	12/26/01	126576	
	PB-214	10.8806	3.8640	01/10/01	120188
		9.7103	4.0053	01/24/01	120401
		.8144	3.2247	02/07/01	120719
		6.2404	3.5765	02/21/01	120935
		15.4431	5.1138	03/07/01	121202
		6.1283	2.6359	03/21/01	121439
		5.7849	2.4733	04/04/01	121725
		4.7798	3.0742	04/18/01	121942
		2.3106	2.7002	05/02/01	122287
		5.1224	3.3481	05/16/01	122519
		8.2345	2.6244	05/30/01	122777
		6.4260	3.4004	07/11/01	123514
		.0221	2.2322	07/25/01	123768
		3.7061	2.6270	09/19/01	124784
		4.3957	2.2397	10/31/01	125593
		3.9877	3.2690	11/14/01	125838
		3.2417	2.8006	11/28/01	126072
		8.8013	3.2259	12/26/01	126576
	TL-208	1.9739	1.0689	01/24/01	120401
		1.6239	1.2655	08/08/01	124052
		.6345	.8200	11/14/01	125838
	SR 89	.0600	1.0686	12/12/01	126299
		1.1438	1.0247	03/21/01	121439
		.9056	1.0234	05/30/01	122777
		.6919	1.1612	08/22/01	124298
	SR 90	.3535	.9145	12/12/01	126299
		.7429	.6826	03/21/01	121439
		.9902	.6637	05/30/01	122777

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3116 MULLINS FARM 3.7 M. ESE	SR 90	1.2228	.7594	08/22/01 124298		
		.4055	.5955	12/12/01 126299		
3119 NORTON FARM 4.1 MILES ESE	IODINE-131	.0583	.0608	01/10/01 120189		
		.0320	.0534	01/24/01 120402		
		.0001	.0713	02/07/01 120720		
		.0109	.0409	02/21/01 120936		
		-.0206	.0618	03/07/01 121203		
		.0430	.0746	03/21/01 121440		
		.0072	.0459	04/04/01 121726		
		-.0655	.0581	04/18/01 121944		
		.0295	.0493	05/02/01 122288		
		.0117	.0437	05/15/01 122520		
		.0327	.0464	05/30/01 122778		
		.0113	.0423	06/13/01 123008		
		-.0140	.0444	06/27/01 123276		
		.0599	.0566	07/10/01 123515		
		.0085	.0545	07/25/01 123769		
		-.0117	.0369	08/08/01 124054		
		-.0169	.0398	08/22/01 124299		
		.0340	.0567	09/05/01 124542		
		.0125	.0467	09/19/01 124785		
		.0646	.0779	10/03/01 125020		
		.0067	.0429	10/17/01 125278		
		.0448	.0777	10/31/01 125594		
		.0743	.0774	11/13/01 125839		
		.0446	.0775	11/28/01 126073		
		.0414	.0587	12/12/01 126300		
		.0843	.0879	12/26/01 126577		
			GAMMA SCAN (GELI)			
			AC-228	3.0530	4.3732	05/15/01 122520
				5.6221	4.9925	09/05/01 124542
			BI-214	14.3807	4.2777	01/10/01 120189
		12.4115	4.2394	01/24/01 120402		
		2.7053	2.7237	02/07/01 120720		
		18.8963	5.8375	02/21/01 120936		

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 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3119 NORTON FARM 4.1 MILES ESE	GAMMA SCAN (GELI) BI-214	11.8969	3.0868	03/07/01	121203
		1.9900	2.3711	03/21/01	121440
		.6160	2.4733	04/04/01	121726
		5.5339	2.6492	04/18/01	121944
		7.8728	2.5226	05/02/01	122288
		4.6242	2.8061	05/15/01	122520
		5.0262	2.5539	05/30/01	122778
		.5229	3.0439	06/13/01	123008
		3.5568	3.4324	06/27/01	123276
		2.3978	2.5983	07/10/01	123515
		6.5792	3.0499	08/22/01	124299
		5.0095	3.6416	09/05/01	124542
		21.1635	4.2287	10/17/01	125278
		4.6185	3.2727	11/13/01	125839
		.1799	2.9175	12/26/01	126577
	K-40	1206.1606	81.0699	01/10/01	120189
		1494.9181	91.1517	01/24/01	120402
		1350.0244	87.4967	02/07/01	120720
		1335.0886	112.2005	02/21/01	120936
		1283.7776	94.3599	03/07/01	121203
		1505.2797	96.1655	03/21/01	121440
		1563.1746	96.8370	04/04/01	121726
		1304.7655	88.5922	04/18/01	121944
		1547.8961	96.2115	05/02/01	122288
		1270.7450	93.1048	05/15/01	122520
		1386.5453	84.9675	05/30/01	122778
		1344.9143	89.9556	06/13/01	123008
		1426.9940	89.4387	06/27/01	123276
		1422.9688	91.7941	07/10/01	123515
		1239.9435	94.5486	07/25/01	123769
		1319.5175	96.4272	08/08/01	124054
		1392.2823	91.8946	08/22/01	124299
		1395.1229	102.7899	09/05/01	124542
		1386.6520	88.2389	09/19/01	124785
		1393.3827	92.1185	10/03/01	125020
		1479.2629	98.5854	10/17/01	125278
		1348.1929	88.9754	10/31/01	125594
		1248.8167	99.0803	11/13/01	125839

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 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
3119 NORTON FARM 4.1 MILES ESE	GAMMA SCAN (GELI) K-40	1392.4874	91.3073	11/28/01	126073	
		1361.0729	115.8379	12/12/01	126300	
		1294.0139	377.7918	12/26/01	126577	
	PB-212	2.4685	1.7788	02/07/01	120720	
		1.2129	1.9525	03/21/01	121440	
		4.6781	2.6119	04/18/01	121944	
		.3682	1.6803	07/10/01	123515	
		2.4913	2.0666	09/05/01	124542	
		.9050	2.0177	09/19/01	124785	
	PB-214	1.3576	2.4176	12/12/01	126300	
		11.3128	3.0350	01/10/01	120189	
		6.8909	2.6007	01/24/01	120402	
		4.6569	2.3075	02/07/01	120720	
		2.3380	3.6970	02/21/01	120936	
		7.6672	3.7304	03/07/01	121203	
		.5375	2.4595	03/21/01	121440	
		3.5407	2.9209	04/18/01	121944	
		5.2113	2.6292	05/02/01	122288	
		2.1583	2.2340	05/15/01	122520	
		4.2788	2.4994	05/30/01	122778	
		2.3591	3.1145	06/27/01	123276	
		7.3535	4.0851	07/10/01	123515	
		4.1297	3.3852	10/03/01	125020	
		11.3849	3.4336	10/17/01	125278	
	TL-208	1.3017	1.4181	04/18/01	121944	
		.5555	.9275	05/15/01	122520	
	SR 89		-.0902	.9143	03/21/01	121440
			1.9096	.9786	05/30/01	122778
			-.8227	.9372	08/22/01	124299
			-.7544	.8557	12/12/01	126300
	SR 90		1.7961	.5844	03/21/01	121440
			-.2911	.6142	05/30/01	122778
			1.1683	.6218	08/22/01	124299
			1.5464	.5799	12/12/01	126300

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN SOIL
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
2116 RM-2 DAYTON TN 15.0 MILES SW	GAMMA SCAN (GELI)					
	AC-228	.8531	.0606	07/02/01	123359	
	BI-212	1.0636	.1125	07/02/01	123359	
	BI-214	.9065	.0456	07/02/01	123359	
	CS-137	.1837	.0157	07/02/01	123359	
	K-40	5.5598	.3176	07/02/01	123359	
	PB-212	.8551	.0429	07/02/01	123359	
	PB-214	1.0259	.0572	07/02/01	123359	
	RA-224	1.0034	.1658	07/02/01	123359	
	RA-226	.9065	.0456	07/02/01	123359	
	TL-208	.2803	.0157	07/02/01	123359	
	SR 89					
	SR 90					
			.1293	.1202	07/02/01	123359
	3101 LM1 0.5 MILES SSW	GAMMA SCAN (GELI)				
AC-228		1.2014	.0883	07/02/01	123385	
BI-212		1.3907	.1226	07/02/01	123385	
BI-214		1.0299	.0620	07/02/01	123385	
CS-137		.1945	.0177	07/02/01	123385	
K-40		11.5183	.6374	07/02/01	123385	
PB-212		1.3099	.0676	07/02/01	123385	
PB-214		1.1701	.0582	07/02/01	123385	
RA-224		1.4332	.2208	07/02/01	123385	
RA-226		1.0299	.0620	07/02/01	123385	
TL-208		.4171	.0208	07/02/01	123385	
SR 89						
SR 90						
			.0831	.1406	07/02/01	123385
3102 LM2 0.5 MILES N		GAMMA SCAN (GELI)				
	AC-228	1.3785	.0918	07/02/01	123389	
	BI-212	1.3603	.1442	07/02/01	123389	

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN SOIL
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED	LAB NO	
3102 LM2 0.5 MILES N	GAMMA SCAN (GELI)					
	BI-214	1.0259	.0570	07/02/01	123389	
	CS-137	.6785	.0352	07/02/01	123389	
	K-40	17.7094	.8604	07/02/01	123389	
	PB-212	1.3604	.0704	07/02/01	123389	
	PB-214	1.1503	.0618	07/02/01	123389	
	RA-224	1.2614	.1983	07/02/01	123389	
	RA-226	1.0259	.0570	07/02/01	123389	
	TL-208	.4328	.0360	07/02/01	123389	
	SR 89					
			-.4285	.5204	07/02/01	123389
	SR 90					
			.2963	.1424	07/02/01	123389
	3106 PM2 SPRING CITY 7.0 MILES NW	GAMMA SCAN (GELI)				
AC-228		.8719	.0560	07/02/01	123393	
BI-212		.9542	.1040	07/02/01	123393	
BI-214		.7157	.0371	07/02/01	123393	
CS-137		.2426	.0161	07/02/01	123393	
K-40		8.4304	.4268	07/02/01	123393	
PB-212		.9721	.0549	07/02/01	123393	
PB-214		.8169	.0418	07/02/01	123393	
RA-226		.7157	.0371	07/02/01	123393	
TL-208		.2916	.0164	07/02/01	123393	
SR 89						
			.2257	.4633	07/02/01	123393
SR 90						
			-.0458	.1189	07/02/01	123393
3107 PM3 10.4 MILES NNE	GAMMA SCAN (GELI)					
	AC-228	.8984	.0606	07/02/01	123396	
	BI-212	.9608	.1062	07/02/01	123396	
	BI-214	.8854	.0473	07/02/01	123396	
	CS-137	.2713	.0177	07/02/01	123396	
	K-40	3.5541	.2504	07/02/01	123396	

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN SOIL
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
3107 PM3 10.4 MILES NNE	GAMMA SCAN (GELI)					
	PB-212	.8896	.0443	07/02/01	123396	
	PB-214	.9855	.0555	07/02/01	123396	
	RA-224	.9331	.1654	07/02/01	123396	
	RA-226	.8854	.0473	07/02/01	123396	
	TL-208	.2926	.0211	07/02/01	123396	
	SR 89					
			-.1811	.6082	07/02/01	123396
	SR 90					
			.0725	.1590	07/02/01	123396
	3108 PM4 7.6 MILES NE/ENE	GAMMA SCAN (GELI)				
AC-228		1.1515	.0894	07/03/01	123399	
BI-212		1.0126	.0860	07/03/01	123399	
BI-214		.7310	.0406	07/03/01	123399	
CS-137		.0434	.0061	07/03/01	123399	
K-40		13.9577	.7503	07/03/01	123399	
PB-212		1.1508	.0517	07/03/01	123399	
PB-214		.8216	.0421	07/03/01	123399	
RA-224		1.1137	.1696	07/03/01	123399	
RA-226		.7310	.0406	07/03/01	123399	
TL-208		.3613	.0188	07/03/01	123399	
SR 89						
			-.0535	.6067	07/03/01	123399
SR 90						
		.0722	.1592	07/03/01	123399	
3109 PM5 DECATUR 8.0 MILES S	GAMMA SCAN (GELI)					
	AC-228	1.5536	.1283	07/03/01	123402	
	BI-212	1.5804	.1676	07/03/01	123402	
	BI-214	.9034	.0499	07/03/01	123402	
	CS-137	.0627	.0124	07/03/01	123402	
	K-40	12.8645	.7000	07/03/01	123402	
	PB-212	1.4183	.0649	07/03/01	123402	
	PB-214	1.0196	.0532	07/03/01	123402	

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN SOIL
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3109 PM5 DECATUR 8.0 MILES S	GAMMA SCAN (GELI)			
	RA-226	.9034	.0499	07/03/01 123402
	TL-208	.4592	.0300	07/03/01 123402
	SR 89			
		-.3409	.5302	07/03/01 123402
3203 LM3 1.9 MILES NNE	SR 90	.1034	.1403	07/03/01 123402
	GAMMA SCAN (GELI)			
	AC-228	.9216	.0586	07/03/01 123405
	BI-212	.9991	.1102	07/03/01 123405
	BI-214	.9039	.0487	07/03/01 123405
	CS-137	.9115	.0518	07/03/01 123405
	K-40	4.4913	.2749	07/03/01 123405
	PB-212	.9272	.0462	07/03/01 123405
	PB-214	.9886	.0450	07/03/01 123405
	RA-224	1.1296	.1294	07/03/01 123405
	RA-226	.9039	.0487	07/03/01 123405
	TL-208	.2964	.0172	07/03/01 123405
	SR 89			
		.5376	.5131	07/03/01 123405
	SR 90	.0169	.1330	07/03/01 123405
3204 LM-4 WB 0.9 MILES SE	GAMMA SCAN (GELI)			
	AC-228	1.2605	.0834	07/03/01 123409
	BI-212	1.2551	.1250	07/03/01 123409
	BI-214	.7749	.0417	07/03/01 123409
	CS-137	.0462	.0082	07/03/01 123409
	K-40	25.5478	1.2494	07/03/01 123409
	PB-212	1.2010	.0652	07/03/01 123409
	PB-214	.8589	.0465	07/03/01 123409
	RA-226	.7749	.0417	07/03/01 123409
	TL-208	.3847	.0207	07/03/01 123409
	SR 89			
	.6502	.5570	07/03/01 123409	

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN APPLES
 PCI/KG - 0.037 BQ/KG (WET WT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION			ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
					TERM	COLLECTED LAB NO
2116	DAYTON TN	15.0 miles SW	GAMMA SCAN (GELI) K-40	754.8354	104.2658	07/25/01 122209
3184		4.5 MILES N	GAMMA SCAN (GELI) BI-214	9.2019	7.5990	07/24/01 123670
			K-40	747.1374	87.5212	07/24/01 123670
			PB-214	6.4139	7.7102	07/24/01 123670

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CABBAGE
 PCI/KG - 0.037 BQ/KG (WET WT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
2116 DAYTON TN 15.0 MILES SW	GAMMA SCAN (GELI)			
	BI-214	18.4557	7.7110	07/24/01 122210
	K-40	1372.7238	228.5674	07/24/01 122210
	PB-212	4.0629	5.2469	07/24/01 122210
	PB-214	16.6324	7.5170	07/24/01 122210
3185 WBNP 3 MILES ENE	TL-208	1.8923	2.0872	07/24/01 122210
	GAMMA SCAN (GELI)			
	K-40	1370.6995	133.5121	06/26/01 122266
	PB-214	10.3474	8.7231	06/26/01 122266

TABLE 10
 TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CORN
 PCI/KG - 0.037 BQ/KG (WET WT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
2116 DAYTON TN 15.0 MILES SW	GAMMA SCAN (GELI)				
	K-40	2004.3186	159.2304	07/24/01	124093
3171 2.0 MILES WNW	PB-214	5.6478	6.5317	07/24/01	124093
	GAMMA SCAN (GELI)				
	BI-214	7.0055	5.5687	07/17/01	122268
	K-40	2034.5734	207.0093	07/17/01	122268
	PB-214	6.3694	5.3848	07/17/01	122268

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN GREEN BEANS
 PCI/KG - 0.037 BQ/KG (WET WT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION			ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	TERM COLLECTED LAB NO
2116	DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI) K-40	2330.0154	188.2191 07/24/01	122213
3171		2.0 MILES WNW	GAMMA SCAN (GELI) K-40	1438.9327	139.1232 07/17/01	122269

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN TOMATOES
 PCI/KG - 0.037 BQ/KG (WET WT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED	LAB NO
2116 DAYTON TN 15.0 MILES SW	GAMMA SCAN (GELI)				
	BI-214	19.0464	9.7524	07/24/01	122211
	K-40	1916.2299	205.2246	07/24/01	122211
3171 2.0 MILES WNW	PB-214	12.8884	9.8391	07/24/01	122211
	GAMMA SCAN (GELI)				
	AC-228	19.3682	13.4284	07/17/01	122270
	BI-214	8.1489	8.3129	07/17/01	122270
	K-40	2684.8396	202.9797	07/17/01	122270

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
3133 TRM 529.3	GROSS BETA	2.9315	.6749	01/09/01	120192	
		3.2107	.6889	02/06/01	120723	
		1.9046	.6299	03/06/01	121206	
		2.6093	.6476	04/03/01	121729	
		2.9831	.6874	05/01/01	122291	
		2.0453	.6414	05/29/01	122781	
		2.3591	.6502	06/26/01	123279	
		1.5966	.6121	07/24/01	123772	
		2.4255	.6647	08/21/01	124302	
		2.0074	.6346	09/18/01	124788	
		2.6259	.6646	10/16/01	125281	
		1.8219	.6274	11/13/01	125842	
		2.2287	.6336	12/11/01	126303	
		GAMMA SCAN (GELI) AC-228	2.4822	3.6140	05/29/01	122781
			3.6256	3.2851	07/24/01	123772
			.1571	2.9947	08/21/01	124302
			7.0823	5.3737	10/16/01	125281
	12.5022		5.5047	12/11/01	126303	
	BI-214		12.5202	3.6922	01/09/01	120192
			.8967	3.2319	02/06/01	120723
			10.2452	3.2427	03/06/01	121206
			3.6935	2.6276	04/03/01	121729
			10.4405	2.5407	05/01/01	122291
		7.0988	3.1236	05/29/01	122781	
		2.8937	2.6318	06/26/01	123279	
		1.5962	2.1526	08/21/01	124302	
		10.3642	3.9298	10/16/01	125281	
		8.1141	4.0775	11/13/01	125842	
	K-40	4.4795	2.7295	12/11/01	126303	
		6.9794	9.3351	02/06/01	120723	
		2.7190	12.2432	04/03/01	121729	
		25.5846	17.9698	07/24/01	123772	
		.2320	19.5070	08/21/01	124302	
	PB-212	.9914	2.5357	03/06/01	121206	
		.6862	2.3489	05/01/01	122291	
		1.1515	2.1892	06/26/01	123279	

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
 PC1/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
3133 TRM 529.3	GAMMA SCAN (GELI)					
	PB-212	2.2345	2.2393	08/21/01	124302	
	PB-214	16.3664	3.9164	01/09/01	120192	
		8.0340	3.9097	02/06/01	120723	
		9.7554	3.0787	03/06/01	121206	
		.2745	2.3981	04/03/01	121729	
		10.9569	3.0113	05/01/01	122291	
		1.6411	2.4157	05/29/01	122781	
		10.5715	3.8532	07/24/01	123772	
		2.7010	2.4092	09/18/01	124788	
		9.1742	2.7272	10/16/01	125281	
		5.2442	2.5463	12/11/01	126303	
		TRITIUM				
			-29.4945	71.5880	03/06/01	121217
			127.4010	70.6953	05/29/01	122792
			123.8918	72.7174	08/21/01	124313
			-39.3154	67.7183	12/11/01	126314
	3134 TRM 517.9	GROSS BETA				
			3.0675	.6771	01/09/01	120194
			3.1674	.6915	02/06/01	120725
		3.8396	.7257	03/06/01	121208	
		2.5289	.6483	04/03/01	121731	
		2.1229	.6442	05/01/01	122293	
		2.8243	.6783	05/29/01	122783	
		2.1909	.6395	06/26/01	123281	
		2.2901	.6420	07/24/01	123774	
		2.3441	.6572	08/21/01	124304	
		2.0174	.6383	09/18/01	124790	
		3.0097	.6860	10/16/01	125283	
		2.1539	.6437	11/13/01	125844	
		3.4431	.7007	12/11/01	126305	
		GAMMA SCAN (GELI)				
		NO ACTIVITY DETECTED		06/26/01	123281	
		NO ACTIVITY DETECTED		07/24/01	123774	
		NO ACTIVITY DETECTED		09/18/01	124790	
		AC-228	4.6811	4.6228	05/01/01	122293

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO		
			TERM	COLLECTED			
3134 TRM 517.9	GAMMA SCAN (GELI)						
		AC-228	1.3024	3.6177	05/29/01	122783	
			11.0782	3.6124	11/13/01	125844	
			1.3550	3.4389	12/11/01	126305	
	BI-214		13.8995	3.8520	01/09/01	120194	
			15.2719	3.0080	02/06/01	120725	
			4.8058	3.2736	03/06/01	121208	
			2.4422	2.9549	04/03/01	121731	
			13.6151	10.4477	05/01/01	122293	
			18.6245	11.3956	05/29/01	122783	
	K-40		14.2049	4.4163	10/16/01	125283	
			19.2684	17.3623	05/01/01	122293	
			23.8741	21.2535	08/21/01	124304	
			35.5934	16.1360	12/11/01	126305	
			10.9441	4.0343	01/09/01	120194	
	PB-214		13.6953	2.8399	02/06/01	120725	
			1.7146	3.2851	03/06/01	121208	
			3.7164	2.5554	05/01/01	122293	
			1.1426	3.2279	05/29/01	122783	
			15.9505	3.2319	10/16/01	125283	
			.7978	2.6550	11/13/01	125844	
			4.0782	3.8667	12/11/01	126305	
	TL-208		1.5185	.9751	01/09/01	120194	
	TRITIUM		59.5816	71.7684	03/06/01	121218	
			113.4994	70.5784	05/29/01	122793	
			110.2105	72.4870	08/21/01	124314	
			124.6167	69.4440	12/11/01	126315	
	3135 TRM 523.1	GROSS BETA		5.0075	.7862	02/06/01	120726
				2.9197	.6790	03/06/01	121209
				1.8648	.6106	04/03/01	121732
				2.5780	.6479	05/01/01	122294
				1.8326	.6301	05/29/01	122784
				3.1622	.6950	06/26/01	123282
			1.9763	.6258	07/24/01	123775	
			2.2425	.6553	08/21/01	124305	

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 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3135 TRM 523.1	GROSS BETA	3.0268	.6898	09/18/01	124791
		1.8901	.6269	10/16/01	125284
		1.6864	.6308	11/13/01	125845
		1.6336	.6080	12/12/01	126306
	GAMMA SCAN (GELI)				
	NO ACTIVITY DETECTED			05/29/01	122784
	NO ACTIVITY DETECTED			11/13/01	125845
AC-228	7.0635	4.3800	03/06/01	121209	
	1.5079	3.1488	08/21/01	124305	
BI-214	5.2395	2.5317	02/06/01	120726	
	8.8359	3.1822	03/06/01	121209	
	1.1947	2.1245	06/26/01	123282	
	3.2112	1.9433	07/24/01	123775	
	3.0541	8.5603	08/21/01	124305	
	1.1761	3.1424	09/18/01	124791	
	5.5912	2.6568	10/16/01	125284	
	16.5683	3.3359	12/12/01	126306	
K-40	5.4027	15.1783	03/06/01	121209	
	.4475	15.8423	04/03/01	121732	
PB-212	1.0779	1.2560	04/03/01	121732	
	2.1967	1.6141	06/26/01	123282	
	1.0017	1.5844	09/18/01	124791	
	.3893	1.1287	10/16/01	125284	
	1.2690	2.0635	12/12/01	126306	
PB-214	3.6207	1.9855	02/06/01	120726	
	3.9595	2.9822	03/06/01	121209	
	.1824	2.5816	05/01/01	122294	
	2.9337	2.7860	06/26/01	123282	
	1.6793	2.5100	10/16/01	125284	
	8.8567	3.2973	12/12/01	126306	
TL-208	1.3152	1.0115	04/03/01	121732	
	.5039	.5855	09/18/01	124791	
	TRITIUM				
		119.8418	72.0645	03/06/01	121219
		151.6747	70.5139	05/29/01	122794
		139.7237	72.2245	08/21/01	124315
		62.0971	68.5863	12/12/01	126316

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO			
			TERM	COLLECTED				
2116 DAYTON TN	TRM 503.8	GROSS BETA						
			4.0462	.7482	01/23/01	120355		
			4.2472	.7492	02/20/01	120888		
			3.3049	.6984	03/20/01	121391		
			1.9202	.6252	04/17/01	121900		
			2.7937	.6920	05/15/01	122476		
			2.2313	.6668	06/12/01	122964		
			2.1042	.6599	07/10/01	123472		
			3.1391	.6911	08/07/01	124011		
			3.0407	.7091	09/04/01	124497		
			2.6769	.6650	10/02/01	124977		
			1.8568	.6353	10/30/01	125533		
			2.3396	.6448	12/26/01	126533		
				GAMMA SCAN (GELI)				
					NO ACTIVITY DETECTED		06/12/01	122964
				AC-228	6.1745	4.7846	09/04/01	124497
				BI-214	14.2011	3.4390	01/23/01	120355
					5.4275	3.1241	02/20/01	120888
					11.1790	3.2039	03/20/01	121391
					16.7808	4.1604	04/17/01	121900
					2.1325	3.3465	05/15/01	122476
					3.5689	2.1876	07/10/01	123472
					.8365	2.5419	10/02/01	124977
					37.6531	6.9670	10/30/01	125533
					62.4937	7.6373	12/26/01	126533
				K-40	4.8067	21.3356	02/20/01	120888
		20.9926	15.9466	03/20/01	121391			
		4.9500	20.3858	04/17/01	121900			
		1.9131	14.8764	08/07/01	124011			
		27.6752	16.4526	09/04/01	124497			
	PB-212	1.6338	2.3657	02/20/01	120888			
		.2682	1.9219	07/10/01	123472			
		1.0540	1.1001	08/07/01	124011			
		1.2774	1.9928	10/02/01	124977			
	PB-214	12.2949	2.3999	01/23/01	120355			
		5.5162	2.7749	02/20/01	120888			
		13.3942	3.3972	03/20/01	121391			
		10.9272	3.9350	04/17/01	121900			

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
2116 DAYTON TN TRM 503.8	GAMMA SCAN (GELI) PB-214	1.2852	2.1796	07/10/01	123472	
		37.3849	6.2779	10/30/01	125533	
		73.0455	9.2323	12/26/01	126533	
	TL-208	.3090	.7958	02/20/01	120888	
		.1537	.9273	07/10/01	123472	
	TRITIUM	-7.9243	70.0400	03/20/01	121483	
		138.0595	70.1189	06/12/01	123050	
		158.7053	72.4166	09/04/01	124584	
		64.5959	68.6613	12/26/01	126619	
	2140 CF INDUSTRIES TRM 473.0	GROSS BETA	1.7047	.6812	01/22/01	120360
			2.6398	.6674	02/16/01	120893
			1.7189	.6165	03/16/01	121396
			2.2790	.6412	04/12/01	121904
2.8032			.6839	05/14/01	122479	
3.0353			.6864	06/12/01	122967	
2.6713			.6610	08/07/01	124014	
2.5663			.6673	09/04/01	124500	
2.0910			.6321	09/27/01	124980	
3.0535			.6792	10/26/01	125537	
2.5616			.6675	11/26/01	126032	
2.2187			.6227	12/21/01	126536	
GAMMA SCAN (GELI)			NO ACTIVITY DETECTED		05/14/01	122479
		NO ACTIVITY DETECTED		06/12/01	122967	
		NO ACTIVITY DETECTED		09/04/01	124500	
AC-228		6.4796	4.2341	04/12/01	121904	
		.9774	3.8693	10/26/01	125537	
BI-214		45.3163	4.2085	01/22/01	120360	
		4.1554	2.4421	02/16/01	120893	
		21.9058	3.0993	03/16/01	121396	
		15.5826	3.2481	04/12/01	121904	
		19.4498	8.5422	11/26/01	126032	
		27.2049	4.2416	12/21/01	126536	

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
2140 CF INDUSTRIES TRM 473.0	GAMMA SCAN (GELI) K-40	11.0282	17.9630	04/12/01	121904	
		8.0015	19.0929	08/07/01	124014	
		18.2445	13.0052	09/27/01	124980	
		10.9322	17.8866	11/26/01	126032	
	PB-212	1.3456	1.7400	04/12/01	121904	
		1.4324	1.6159	08/07/01	124014	
		.7656	1.9081	11/26/01	126032	
	PB-214	41.2971	4.2378	01/22/01	120360	
		3.5682	2.8286	02/16/01	120893	
		21.9506	3.7712	03/16/01	121396	
		10.0299	2.9758	04/12/01	121904	
		.6537	1.9690	11/26/01	126032	
		18.8762	3.8860	12/21/01	126536	
	TL-208	3.2850	1.5078	01/22/01	120360	
		2.1543	1.2697	08/07/01	124014	
		TRITIUM	175.8242	74.2103	03/16/01	121484
			185.8011	71.6293	06/12/01	123051
			88.4077	71.8506	09/04/01	124585
			121.8973	68.9977	12/21/01	126620
	3133 TRM 529.3	GROSS BETA	2.9315	.6749	01/09/01	120192
3.2107			.6889	02/06/01	120723	
1.9046			.6299	03/06/01	121206	
2.6093			.6476	04/03/01	121729	
2.9831			.6874	05/01/01	122291	
2.0453			.6414	05/29/01	122781	
2.3591			.6502	06/26/01	123279	
1.5966			.6121	07/24/01	123772	
2.4255			.6647	08/21/01	124302	
2.0074			.6346	09/18/01	124788	
2.6259			.6646	10/16/01	125281	
1.8219			.6274	11/13/01	125842	
2.2287			.6336	12/11/01	126303	

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3133 TRM 529.3	GAMMA SCAN (GELI) AC-228	2.4822	3.6140	05/29/01	122781
		3.6256	3.2851	07/24/01	123772
	.1571	2.9947	08/21/01	124302	
	7.0823	5.3737	10/16/01	125281	
	12.5022	5.5047	12/11/01	126303	
	BI-214	12.5202	3.6922	01/09/01	120192
		.8967	3.2319	02/06/01	120723
		10.2452	3.2427	03/06/01	121206
		3.6935	2.6276	04/03/01	121729
		10.4405	2.5407	05/01/01	122291
		7.0988	3.1236	05/29/01	122781
		2.8937	2.6318	06/26/01	123279
		1.5962	2.1526	08/21/01	124302
		10.3642	3.9298	10/16/01	125281
		8.1141	4.0775	11/13/01	125842
	K-40	4.4795	2.7295	12/11/01	126303
		6.9794	9.3351	02/06/01	120723
		2.7190	12.2432	04/03/01	121729
		25.5846	17.9698	07/24/01	123772
		.2320	19.5070	08/21/01	124302
	PB-212	.9914	2.5357	03/06/01	121206
		.6862	2.3489	05/01/01	122291
		1.1515	2.1892	06/26/01	123279
	PB-214	2.2345	2.2393	08/21/01	124302
		16.3664	3.9164	01/09/01	120192
		8.0340	3.9097	02/06/01	120723
		9.7554	3.0787	03/06/01	121206
		.2745	2.3981	04/03/01	121729
		10.9569	3.0113	05/01/01	122291
		1.6411	2.4157	05/29/01	122781
		10.5715	3.8532	07/24/01	123772
		2.7010	2.4092	09/18/01	124788
		9.1742	2.7272	10/16/01	125281
	TRITIUM	5.2442	2.5463	12/11/01	126303
		-29.4945	71.5880	03/06/01	121217
		127.4010	70.6953	05/29/01	122792
		123.8918	72.7174	08/21/01	124313
		-39.3154	67.7183	12/11/01	126314

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CONTIN. WELL WATER(Total)
 PCI/L - 0.037 Bq/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
3121 WBN WELL #1 0.6 MILES S	GROSS BETA	3.0879	.9182	03/06/01	121220	
		3.0416	.7364	05/29/01	122795	
		3.3178	.7569	08/21/01	124316	
		1.8895	.6692	12/11/01	126317	
	GAMMA SCAN (GELI) AC-228 BI-214	3.9431	2.9985	05/29/01	122795	
		6.8562	3.0525	03/06/01	121220	
		1.2443	2.5433	05/29/01	122795	
		4.5324	2.8765	08/21/01	124316	
		9.1867	3.2559	12/11/01	126317	
		K-40 1.1418	14.2199	05/29/01	122795	
		PB-212 1.1148	1.4328	03/06/01	121220	
		.9868	1.5190	05/29/01	122795	
		PB-214 2.4102	3.3656	03/06/01	121220	
		7.8378	2.3207	12/11/01	126317	
		TRITIUM	130.6709	72.2471	03/06/01	121220
			144.2760	70.3777	05/29/01	122795
	184.0348		75.5694	08/21/01	124316	
	177.8569		71.0364	12/11/01	126317	
	3125 WBN WELL #5 ONSITE N	GROSS BETA	2.1860	.6373	03/06/01	121221
			4.6028	1.1076	05/29/01	122796
3.0064			.7395	08/21/01	124317	
2.8497			.6851	12/11/01	126318	
GAMMA SCAN (GELI) AC-228 BI-214		3.3922	3.2609	08/21/01	124317	
		4.3650	2.6253	03/06/01	121221	
		6.4596	3.1824	05/29/01	122796	
		22.4039	4.7517	12/11/01	126318	
		K-40 4.8694	20.4216	05/29/01	122796	
		14.3948	17.1798	08/21/01	124317	
		PB-212 1.1666	2.2783	03/06/01	121221	
		.1595	2.3133	05/29/01	122796	

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CONTIN. WELL WATER(Total)
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED	LAB NO
3125 WBN WELL #5 ONSITE N	GAMMA SCAN (GELI)				
	PB-212	3.8372	2.3743	12/11/01	126318
	PB-214	2.8313	2.8137	03/06/01	121221
		7.1879	3.5481	05/29/01	122796
		.8394	2.7661	08/21/01	124317
		15.9693	3.2731	12/11/01	126318
	TL-208	1.0481	1.2827	05/29/01	122796
	TRITIUM				
		-89.5204	69.2783	03/06/01	121221
		95.4441	69.5220	05/29/01	122796
		52.6402	71.7114	08/21/01	124317
		49.1856	68.9927	12/11/01	126318

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN GRAB WELL WATER(Total)
 PCI/L - 0.037 BQ/L
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED	LAB NO
3115 LAYMAN FARM 1.3 MILES SSW	GROSS BETA	1.6194	.6219	03/06/01	121199
		.7159	.5732	05/29/01	122773
		.7272	.5733	08/21/01	124294
		1.8308	.6305	12/11/01	126295
	GAMMA SCAN (GELI) BI-214	434.4084	24.0864	03/06/01	121199
		284.6572	15.3381	05/29/01	122773
		437.5395	21.6895	08/21/01	124294
		254.6565	15.1516	12/11/01	126295
	PB-214	442.3219	24.8561	03/06/01	121199
		284.9955	16.0080	05/29/01	122773
		415.6664	21.5858	08/21/01	124294
		245.1384	14.2700	12/11/01	126295
	TRITIUM	27.4327	70.6540	03/06/01	121199
		97.5785	68.3738	05/29/01	122773
		162.5775	70.5994	08/21/01	124294
		69.0466	67.9160	12/11/01	126295

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN COMMERCIAL FISH
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
2160 CHICKAMAUGA RES TRM 471-530	GAMMA SCAN (GEL1) BI-214	.1163	.0179	04/19/01	122231	
		.0714	.0174	04/05/01	122233	
		.0642	.0136	10/03/01	125545	
	CS-137	.0216	.0040	04/19/01	122231	
		.0307	.0054	04/05/01	122233	
	K-40	9.6599	.5395	04/19/01	122231	
		13.7839	.7955	04/05/01	122233	
		9.8990	3.3626	10/03/01	125545	
	PB-212	.0003	.0072	04/19/01	122231	
	PB-214	.0682	.0116	04/19/01	122231	
		.0791	.0142	04/05/01	122233	
		.0773	.0125	10/03/01	125545	
		.0007	.0044	04/19/01	122231	
	2161 WATTS BAR RES TRM 530-602	GAMMA SCAN (GEL1) BI-214	.0804	.0163	04/05/01	122235
			.0983	.0116	04/16/01	122236
			.1224	.0674	10/03/01	125550
		CS-137	.0238	.0074	04/16/01	122236
.0650			.0103	10/03/01	125550	
K-40		8.0714	.5411	04/05/01	122235	
		10.0860	.5939	04/16/01	122236	
		18.6674	1.1991	10/03/01	125550	
PB-214		.0468	.0134	04/05/01	122235	
		.0910	.0162	04/16/01	122236	
		.0829	.0166	10/03/01	125550	
3261 DOWNSTREAM STATION 1 DOWNSTREAM	GAMMA SCAN (GEL1) BI-214	.1319	.0176	04/30/01	122312	
		.0823	.0155	10/02/01	125611	
	CS-137	.0132	.0039	04/30/01	122312	
		.0194	.0047	10/02/01	125611	
	K-40	9.0598	.4964	04/30/01	122312	
		11.9904	.5967	10/02/01	125611	
	PB-214	.0983	.0195	04/30/01	122312	
		.0669	.0175	10/02/01	125611	

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN GAME FISH
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED	LAB NO
2160 CHICKAMAUGA RES TRM 471-530	GAMMA SCAN (GELI)				
	BI-214	.0472	.0369	04/03/01	122234
		.1588	.0195	10/03/01	125547
	CS-137	.0312	.0061	04/03/01	122234
		.0453	.0069	10/03/01	125547
	K-40	14.6758	7.8865	04/03/01	122234
		14.4833	.7844	10/03/01	125547
	PB-212	.0057	.0064	10/03/01	125547
	PB-214	.0472	.0141	04/03/01	122234
		.1771	.0219	10/03/01	125547
2161 WATTS BAR RES TRM 530-602	GAMMA SCAN (GELI)				
	BI-214	.0202	.0079	04/02/01	122237
		.1052	.0202	10/02/01	125548
	CS-137	.0619	.0083	04/02/01	122237
		.0599	.0098	10/02/01	125548
	K-40	13.1932	.7259	04/02/01	122237
		17.3630	.8848	10/02/01	125548
PB-214	.0229	.0102	04/02/01	122237	
	.1442	.0206	10/02/01	125548	
3261 DOWNSTREAM STATION 1 DOWNSTREAM	GAMMA SCAN (GELI)				
	BI-214	.0668	.0138	10/02/01	125549
	CS-137	.0388	.0055	10/02/01	125549
	K-40	14.3272	.7268	10/02/01	125549
	PB-214	.0751	.0131	10/02/01	125549

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 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED	LAB NO	
2155 TRM 496.5	GAMMA SCAN (GELI)					
	AC-228	.9801	.0625	04/11/01	122230	
	BE-7	.2890	.0990	04/11/01	122230	
	BI-212	1.1271	.0909	04/11/01	122230	
	BI-214	.7069	.0364	04/11/01	122230	
	CS-137	.3872	.0220	04/11/01	122230	
	K-40	12.5416	.6490	04/11/01	122230	
	PB-212	1.0561	.0487	04/11/01	122230	
	PB-214	.7649	.0411	04/11/01	122230	
	RA-224	1.1356	.1250	04/11/01	122230	
	RA-226	.7069	.0364	04/11/01	122230	
	TL-208	.3374	.0202	04/11/01	122230	
	3140 TRM 532.1	GAMMA SCAN (GELI)				
AC-228		.6790	.0516	04/12/01	122296	
BI-212		.8502	.0980	04/12/01	122296	
BI-214		.4896	.0345	04/12/01	122296	
CS-137		.0941	.0106	04/12/01	122296	
K-40		9.6754	1.8443	04/12/01	122296	
PB-212		.6921	.0395	04/12/01	122296	
PB-214		.5040	.0320	04/12/01	122296	
RA-224		.7818	.1555	04/12/01	122296	
RA-226		.4896	.0345	04/12/01	122296	
TL-208		.2146	.0135	04/12/01	122296	
3141 TRM 527.4		GAMMA SCAN (GELI)				
		AC-228	1.8607	.1038	04/12/01	122298
	BI-212	1.7956	.1365	04/12/01	122298	
	BI-214	1.1206	.0593	04/12/01	122298	
	K-40	13.6734	.5982	04/12/01	122298	
	PA-234M	3.3232	.9234	04/12/01	122298	
	PB-212	1.7704	.0761	04/12/01	122298	
	PB-214	1.1580	.0719	04/12/01	122298	
	RA-224	1.9190	.1876	04/12/01	122298	
	RA-226	1.1206	.0593	04/12/01	122298	
	TL-208	.5716	.0299	04/12/01	122298	
	3142 TRM 518.0	GAMMA SCAN (GELI)				
		AC-228	1.1450	.0673	04/12/01	122299

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 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED	LAB NO
3142 TRM 518.0	GAMMA SCAN (GEL1)				
	BI-212	1.1392	.1206	04/12/01	122299
	BI-214	.8353	.0468	04/12/01	122299
	CS-137	.0331	.0077	04/12/01	122299
	K-40	12.5558	.5515	04/12/01	122299
	PB-212	1.0946	.0569	04/12/01	122299
	PB-214	.9306	.0430	04/12/01	122299
	RA-226	.8353	.0468	04/12/01	122299
	TL-208	.3375	.0196	04/12/01	122299

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN SHORELINE SEDIMENT
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3191 WATTS BAR RESORT TRM 530	GAMMA SCAN (GELI)				
	AC-228	.1139	.0152	05/01/01	122303
		.0911	.0158	10/23/01	125601
	BE-7	.2106	.0274	05/01/01	122303
		.0613	.0235	10/23/01	125601
	BI-212	.1403	.0363	10/23/01	125601
	BI-214	.1961	.0149	05/01/01	122303
		.1724	.0138	10/23/01	125601
	CS-137	.0091	.0029	10/23/01	125601
	K-40	.5304	.0739	05/01/01	122303
		.4324	.0739	10/23/01	125601
	PB-212	.1053	.0114	05/01/01	122303
		.0959	.0113	10/23/01	125601
	PB-214	.1980	.0173	05/01/01	122303
		.1731	.0152	10/23/01	125601
	RA-226	.1961	.0149	05/01/01	122303
		.1724	.0138	10/23/01	125601
	TL-208	.0313	.0047	05/01/01	122303
	.0327	.0044	10/23/01	125601	
3193 COTTON PORT MARINA TRM 513	GAMMA SCAN (GELI)				
	AC-228	1.4506	.0839	05/02/01	122304
		1.5698	.1347	10/24/01	125602
	BE-7	.2014	.0605	05/02/01	122304
	BI-212	1.5025	.1231	05/02/01	122304
		1.8007	.1897	10/24/01	125602
	BI-214	.5461	.0341	05/02/01	122304
		.7979	.0484	10/24/01	125602
	CS-137	.0241	.0059	05/02/01	122304
	K-40	33.5707	1.3603	05/02/01	122304
		33.9503	1.5157	10/24/01	125602
	PB-212	1.4601	.0757	05/02/01	122304
		1.5438	.1140	10/24/01	125602
	PB-214	.6106	.0342	05/02/01	122304
		.8325	.0505	10/24/01	125602
	RA-226	.5461	.0341	05/02/01	122304
		.7979	.0484	10/24/01	125602
	TL-208	.4827	.0241	05/02/01	122304
	.5430	.0319	10/24/01	125602	

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 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED	LAB NO	
3303 LV-3 LOW VOL WASTE POND	GAMMA SCAN (GEL1)					
	AC-228	1.2012	.0988	10/26/01	122314	
	BE-7	.2125	.0690	10/26/01	122314	
	BI-212	1.1231	.1705	10/26/01	122314	
	CS-137	.1278	.0141	10/26/01	122314	
	K-40	14.3322	.7607	10/26/01	122314	
	PB-212	1.1779	.0570	10/26/01	122314	
	PB-214	.9638	.0618	10/26/01	122314	
	RA-224	1.3311	.1766	10/26/01	122314	
	TL-208	.3842	.0217	10/26/01	122314	
	3305 YP-5 YARD POND	GAMMA SCAN (GEL1)				
		AC-228	1.0383	.0773	10/26/01	122315
		BI-212	1.1837	.1812	10/26/01	122315
		BI-214	.6962	.0509	10/26/01	122315
CO-60		.0396	.0086	10/26/01	122315	
CS-137		.1651	.0187	10/26/01	122315	
K-40		13.5651	.7107	10/26/01	122315	
PB-212		.9657	.1009	10/26/01	122315	
PB-214		.7991	.0450	10/26/01	122315	
TL-208		.3154	.0288	10/26/01	122315	
3313 YP-13 YARD POND		GAMMA SCAN (GEL1)				
	AC-228	1.0167	.0659	10/26/01	122316	
	BE-7	.1891	.0440	10/26/01	122316	
	BI-212	1.0822	.1146	10/26/01	122316	
	BI-214	.7029	.0392	10/26/01	122316	
	CS-137	.0290	.0058	10/26/01	122316	
	K-40	12.3432	.5588	10/26/01	122316	
	PB-212	1.0580	.0543	10/26/01	122316	
	PB-214	.7549	.0428	10/26/01	122316	
	RA-224	1.2581	.1665	10/26/01	122316	
	TL-208	.3104	.0184	10/26/01	122316	
3316 YP-16 YARD POND	GAMMA SCAN (GEL1)					
	AC-228	1.0155	.0657	10/26/01	122317	
	BE-7	.1654	.0334	10/26/01	122317	
	BI-212	1.0057	.0942	10/26/01	122317	

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN POND SEDIMENT
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3316 YP-16 YARD POND	GAMMA SCAN (GELI)				
	BI-214	.7700	.0399	10/26/01 122317	
	CO-58	.0149	.0041	10/26/01 122317	
	CO-60	.0335	.0057	10/26/01 122317	
	CS-137	.0473	.0071	10/26/01 122317	
	K-40	10.5164	.4915	10/26/01 122317	
	PB-212	1.0743	.0509	10/26/01 122317	
	PB-214	.8612	.0380	10/26/01 122317	
	RA-224	1.0436	.1295	10/26/01 122317	
	TL-208	.3119	.0174	10/26/01 122317	
	3317 YP-17 YARD POND	GAMMA SCAN (GELI)			
		AC-228	1.0224	.0717	10/26/01 122318
BE-7		.2926	.0387	10/26/01 122318	
BI-212		1.1059	.1061	10/26/01 122318	
BI-214		.6886	.0381	10/26/01 122318	
CO-58		.0447	.0062	10/26/01 122318	
CO-60		.0487	.0067	10/26/01 122318	
CS-137		.0586	.0095	10/26/01 122318	
K-40		12.0706	.5515	10/26/01 122318	
PB-212		1.0272	.0548	10/26/01 122318	
PB-214		.7671	.0454	10/26/01 122318	
RA-224		1.0248	.1407	10/26/01 122318	
SB-125		.0587	.0156	10/26/01 122318	
TL-208		.3316	.0187	10/26/01 122318	

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WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CLAM FLESH
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 01/01/01 TO 12/28/01

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3143 DOWNSTREAM	GAMMA SCAN (GELI)			
	AC-228	.2893	.1364	04/12/01 122300
	BI-214	1.4627	.1445	04/12/01 122300
		1.9312	.1683	04/12/01 122301
	K-40	2.6661	.7072	04/12/01 122300
		2.2301	.7173	04/12/01 122301
	PB-212	.0731	.0551	04/12/01 122301
	PB-214	1.1202	.1356	04/12/01 122300
		1.9605	.1795	04/12/01 122301
	TL-208	.0614	.0378	04/12/01 122301
	3144 UPSTREAM	GAMMA SCAN (GELI)		
BI-214		.8401	.1265	05/15/01 122302
K-40		1.4645	.8241	05/15/01 122302
PB-214		.6829	.1040	05/15/01 122302